

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

C Number:	C89029
Lock Date:	09/04/1997
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	01/20/1998

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Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-001

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Focal, Minimal
* Epididymis	Bilateral, Epithelium	Degeneration Inflammation	Mucoid, Mild Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus Clear Cell Focus	Mild Mild
* Lung	Bile Duct Alveolar Epith	Hyperplasia	Mild
* Lymph Node, Mandibular		Hyperplasia	Focal, Mild
* Lymph Node, Mesenteric		Degeneration	Cystic, Mild
* Mammary Gland		Infiltration Cellular	Histiocyte, Minimal
* Nose		Cyst	Mild
Note: Fungi present in nasal exudate.		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Minimal
* Seminal Vesicle		Atrophy	Mild
* Skin	Dermis	Fibroma	
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

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Date Report Requested: 10/19/2014
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First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 1	TRT#: 1	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-001

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

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First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 714
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland
* Parathyroid Gland	Peripheral Nerve	* Salivary Glands	Skeletal Muscle
* Skin	Spinal Cord	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney	Bilateral	Infarct	Marked
	Bilateral, Renal Tubule	Nephropathy	Minimal
		Pigmentation	Mild
[Infarct TGLS = 3-8]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
Perph Nerve			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 714
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-002

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Sciatic Nerve is Normal

* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-9]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 3	TRT#: 1	SEX: Male	DAY ON TEST: 670
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-003

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Mild Focal, Mild
* Brain [Compression TGLS = 4-1]	Hypothalamus	Compression	Moderate
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Mild
* Liver	Bilateral Bile Duct Hepatocyte	Nephropathy Hyperplasia Vacuolization Cytoplasmic	Mild Mild Mild
[Vacuolization Cytoplasmic TGLS = 3-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle	Bilateral	Atrophy	Marked
* Spleen		Pigmentation	Mild
* Stomach, Forestomach		Erosion	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
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Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 3	TRT#: 1	SEX: Male	DAY ON TEST: 670
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-003

ORGAN AND ACCOUNTABLE SITE STATUS

	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
* Testes [Adenoma TGLS = 1,2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, Noted at Trim, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 4	TRT#: 1	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder	

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver	Bilateral	Nephropathy	Minimal
		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung	Interstitium	Inflammation	Chronic, Minimal
Note: TGL 3-NCL			
* Lymph Node, Mandibular		Degeneration	Cystic, Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 4	TRT#: 1	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-004

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thymus		Atrophy	Mild
* Trachea		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-005

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Int Sm Ileum			
Note: TGL 4-NCL			
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Infiltration Cellular	Lymphocyte, Minimal
		Mineralization	Minimal
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
* Prostate		Atrophy	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Moderate
[Atrophy TGLS = 3-9a, 13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 5	TRT#: 1	SEX: Male	DAY ON TEST: 736
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-005

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 6	TRT#: 1	SEX: Male	DAY ON TEST: 658
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Mesothelioma Malignant	
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 7-9]			
* Heart	Atrium	Thrombosis	Moderate
* Intestine Large, Cecum		Mesothelioma Malignant	
* Intestine Small, Ileum		Mesothelioma Malignant	
* Intestine Small, Jejunum		Mesothelioma Malignant	
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Minimal
		Necrosis	Mild
Note: TGL 5-NCL			
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
[Degeneration TGLS = 8-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
Mesentery		Mesothelioma Malignant	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Adenoma	
		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 6	TRT#: 1	SEX: Male	DAY ON TEST: 658
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-006

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 2-NCL

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild
		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 3,4-9]			
* Seminal Vesicle		Atrophy	Marked
		Mesothelioma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Mesothelioma Malignant	
* Stomach, Glandular		Erosion	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
* Thymus		Atrophy	Marked
* Thyroid Gland	Bilateral, C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH - Mesentery Mesothelioma Malignant

Animal Note: Lesions 3 and 4 identified grossly as Testes is microscopically identified as oc curring in Prostate.

Animal Note: Cavities, Abdominal, Fluid, 280 ml, Red, TGL 1-NST

Animal Note: Lesion 2 identified grossly as Adrenal Gland is microscopically identified as oc curring in Pancreas.

* PROTOCOL REQUIRED TISSUE

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CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 7	TRT#: 1	SEX: Male	DAY ON TEST: 649
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-007

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
Skeletal Muscle	* Skin	Spinal Cord	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
	Bilateral	Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5,6-6]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-15]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Leukemia Mononuclear	
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pineal Gland		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 7	TRT#: 1	SEX: Male	DAY ON TEST: 649
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-007

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 7-9a,13]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-12]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Stomach, Glandular		Erosion	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
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CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 8	TRT#: 1	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-008

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Prostate	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
[Eosinophilic Focus TGLS = 4-14]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Moderate
[Atrophy TGLS = 3-9a, 12]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 8	TRT#: 1	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-008

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	Follicle	Cyst	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 502

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-009

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	Spinal Cord	* Spleen
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Blood Vessel		Aneurysm Inflammation	Marked Chronic, Marked
Note: Aorta is Normal [Aneurysm TGLS = 1-5]			
* Bone Marrow		Hyperplasia	Minimal
Note: Femur and Vertebrae are both Normal			
* Epididymis	Artery	Inflammation	Chronic, Minimal
* Harderian Gland		Pigmentation	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Artery Bilateral	Inflammation Nephropathy	Chronic, Mild Minimal
* Liver	Artery	Inflammation	Chronic, Moderate
* Lung		Osteosarcoma	Metastatic (Uncertain Primary Site)
[Osteosarcoma TGLS = 3-15]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Pigmentation	Minimal
* Nose		Inflammation	Chronic, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 9	TRT#: 1	SEX: Male	DAY ON TEST: 502
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-009

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Artery	Inflammation	Chronic, Minimal
* Stomach, Glandular	Artery	Inflammation	Chronic, Moderate
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: Carcass, Thin, TGL 2-NST

Animal Note: Lesion 1 identified grossly as Mesentery is microscopically identified as occurring in Blood Vessel.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-010

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Pineal Gland	* Skin	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
* Kidney	Bilateral	Leukemia Mononuclear	
	Bilateral, Renal Tubule	Nephropathy	Mild
		Pigmentation	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland	Bilateral	Atrophy	Moderate
* Prostate		Inflammation	Chronic Active, Mild
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 10	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-010

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular [Atrophy TGLS = 5-12]		Atrophy	Mild
* Testes [Adenoma TGLS = 4-9]	Bilateral, Interstit Cell	Adenoma Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 710

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney	Bilateral	Leukemia Mononuclear	
	Bilateral, Renal Tubule	Nephropathy	Moderate
	Bile Duct	Pigmentation	Moderate
		Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 8,9-6,12]	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 10-3]	
		[Leukemia Mononuclear TGLS = 7-2]	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 6-5]	
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 11	TRT#: 1	SEX: Male	DAY ON TEST: 710
	DOSE: SHAM CONTROL	DISP: Natural Death	HISTO: 94-5216-011

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Moderate
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Glandular		Erosion	Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-3]			
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 549

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-1]			
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-3]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Moderate
* Seminal Vesicle	Bilateral	Atrophy	Mild
[Atrophy TGLS = 2-9a,13]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-9]			
* Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 549

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-012

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 13 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 736
DOSE: SHAM CONTROL **DISP:** Terminal Sacrifice **HISTO:** 94-5216-013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Pineal Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Necrosis	Focal, Marked
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-7]			
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Pancreas	Acinus	Adenoma	
	Acinus	Atrophy	Focal, Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin		Basal Cell Adenoma	
[Basal Cell Adenoma TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 13	TRT#: 1	SEX: Male	DAY ON TEST: 736
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-013

ORGAN AND ACCOUNTABLE SITE STATUS			
	Interstit Cell	Hyperplasia	Focal, Mild
[Adenoma TGLS = 2-9]			
[Hyperplasia TGLS = 2-9]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 649

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Nose	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Pineal Gland	Skeletal Muscle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Salivary Glands
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Brain	Hypothalamus	Compression	Minimal
[Compression TGLS = 6-1]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Hematopoietic Cell Proliferation	Mild
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Vacuolization Cytoplasmic TGLS = 4-6]			
Lymph Node			
Note: Axillary Lymph Node is Normal			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 14	TRT#: 1	SEX: Male	DAY ON TEST: 649
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-014

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Adenoma TGLS = 7-13]		Adenoma	
* Prostate		Atrophy Inflammation	Moderate Chronic Active, Moderate
* Seminal Vesicle [Atrophy TGLS = 8-9a,12]	Bilateral	Atrophy	Marked
* Spleen [Hematopoietic Cell Proliferation TGLS = 3-6]		Hematopoietic Cell Proliferation	Moderate
* Testes [Adenoma TGLS = 1-9] [Atrophy TGLS = 2-9]	Interstit Cell Germinal Epith Interstit Cell	Adenoma Atrophy Hyperplasia Mineralization	Marked Focal, Minimal Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Preputial Gland Adenoma

Animal Note: Lesion 7 identified grossly as Skin is microscopically identified as occurring i n Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 579

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-015

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
Peripheral Nerve	* Pineal Gland	* Salivary Glands	Skeletal Muscle
* Skin	Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

OBSERVATIONS

* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral, Pelvis	Inflammation	Chronic, Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Marked
* Seminal Vesicle		Atrophy	Minimal
Spinal Cord			
Note: TGL 2-NCL			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Moderate

[Adenoma TGLS = 3-9]
[Hyperplasia TGLS = 3-9]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 15	TRT#: 1	SEX: Male	DAY ON TEST: 579
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-015

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
		Inflammation	Chronic, Mild

[Inflammation TGLS = 1-8]

PRIMARY CAUSE OF DEATH	- Prostate Inflammation
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 476

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Adrenal Cortex	* Adrenal Medulla
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AUTO PRECLUDES DIAG.

* Pineal Gland

OBSERVATIONS

* Adren Cortex			
Note: TGL 1-NST			
* Adren Medulla			
Note: TGL 1-NST			
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Necrosis	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 627

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-017

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pineal Gland	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-7]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-5]		
* Nose		Inflammation	Chronic Active, Mild
	Note: Fungi present in nasal exudate.		
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-9a]		
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle	Bilateral	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 17	TRT#: 1	SEX: Male	DAY ON TEST: 627
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-017

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 4-9a]		Leukemia Mononuclear	
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2,3-6]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: The cells of the systemic neoplasm appear more cohesive than expected in classic mononuclear cell leukemia.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 677

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-018

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Pineal Gland	* Skin
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Focal, Moderate
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Marked
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-7]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
		Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Moderate
	[Atrophy TGLS = 2-9a,12]		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 18	TRT#: 1	SEX: Male	DAY ON TEST: 677
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-018

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
Tissue NOS		Necrosis	Marked
[Necrosis TGLS = 1-12,12.1]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL, 7-NST

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Tissue NOS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 704

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Pituitary Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Edema	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Vacuolization Cytoplasmic TGLS = 4-6,12]		
* Lung		Congestion	Minimal
	[Congestion TGLS = 6-7]		
* Lymph Node, Mandibular		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
	[Hemorrhage TGLS = 5-2]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
	[Hemorrhage TGLS = 3-5]		
* Pancreas		Cyst	Minimal
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 19	TRT#: 1	SEX: Male	DAY ON TEST: 704
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-019

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gl Note: TGL 7-NCL			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
		Inflammation	Chronic Active, Mild
* Seminal Vesicle [Atrophy TGLS = 2-9a,12]	Bilateral	Atrophy	Marked
* Skin [Fibrosarcoma TGLS = 8-13]	Subcut Tiss	Fibrosarcoma	
* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

Animal Note: Lesion 8 identified grossly as Mammary Gland is microscopically identified as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
Lymph Node	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland			
Note: Axillary Lymph Node is Normal			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-13]			
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-020

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
* Lung	Alveolar Epith	Hyperplasia	Focal, Marked
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Moderate
* Seminal Vesicle	Bilateral	Atrophy	Moderate
	[Atrophy TGLS = 2-9a,13]		
* Skin		Keratoacanthoma	
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 21	TRT#: 1	SEX: Male	DAY ON TEST: 736
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-021

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-022

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Pancreas	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Leukemia Mononuclear	
Note: Multiple eosinophilic foci and bile duct hyperplasia are present but not diagnosed.			
* Lung	Bronchus	Adenoma Leukemia Mononuclear	
Note: TGL 6-NCL			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
* Preputial Gland		Hyperplasia	Focal, Marked
Note: Only one of pair examined.			
[Hyperplasia TGLS = 2-9a]			
* Prostate		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 22	TRT#: 1	SEX: Male	DAY ON TEST: 736
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-022

ORGAN AND ACCOUNTABLE SITE STATUS

	Epithelium	Hyperplasia Inflammation Atrophy	Focal, Minimal Chronic Active, Mild Moderate
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen			
[Leukemia Mononuclear TGLS = 5-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Thymus		Atrophy Cyst	Moderate Mild

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 725

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-023

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland		

MISSING

* Pineal Gland	* Pituitary Gland
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AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Jejunum
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
		Mesothelioma Malignant	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral, Renal Tubule	Pigmentation	Marked
* Liver	Bile Duct	Hyperplasia	Mild
		Mesothelioma Malignant	
		Necrosis	Marked
[Necrosis TGLS = 9-6]			
* Lung			
Note: TGL 3-NCL			
Lymph Node	Mediastinal	Pigmentation	Moderate
[Pigmentation TGLS = 2-3]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery		Mesothelioma Malignant	
	Fat	Necrosis	Moderate
[Necrosis TGLS = 11-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 23	TRT#: 1	SEX: Male	DAY ON TEST: 725
	DOSE: SHAM CONTROL	DISP: Natural Death	HISTO: 94-5216-023

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy Mesothelioma Malignant	Focal, Moderate
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Mild
[Atrophy TGLS = 8-9a,12]			
* Spleen	Lymph Follic	Atrophy Mesothelioma Malignant	Mild
* Testes	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant	
[Adenoma TGLS = 4,5,6,7,10-9]			
* Thymus	Epithel Cell	Atrophy Hyperplasia	Mild Mild
* Trachea	Glands	Cyst	Mild
* Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH - Epididymis Mesothelioma Malignant

Animal Note: Cavities, Abdominal, Fluid, ~120ml, Dark Red, TGL 1-NST

Animal Note: Lesions 2 identified grossly as Thymus is microscopically identified as occurring in Mediastinal Lymph Node.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-024

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	Lymph Node	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Pelvis, Transit Epithe	Hyperplasia	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Hepatocellular Adenoma TGLS = 4-6]		
* Lung		Congestion	Mild
	[Congestion TGLS = 5-7]		
Lymph Node			
Note: Inguinal Lymph Node is Normal			
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
* Seminal Vesicle		Atrophy	Mild
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-12]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 24	TRT#: 1	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-024

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
* Stomach, Glandular [Atrophy TGLS = 6-13]		Atrophy	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Focal, Mild
[Adenoma TGLS = 2-9]			
[Atrophy TGLS = 3-9]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Pineal Gland

OBSERVATIONS

* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
		Mixed Cell Focus	Mild
		Necrosis	Minimal
* Lung	Interstitial	Inflammation	Chronic, Mild
Lymph Node	Mediastinal	Hemorrhage	Mild
[Hemorrhage TGLS = 2-3]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Germinal Epith	Atrophy	Marked
	Bilateral, Interstit Cell	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 25	TRT#: 1	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-025

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 1-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 26 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 737
DOSE: SHAM CONTROL **DISP:** Terminal Sacrifice **HISTO:** 94-5216-026

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 6-3]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart	Atrium	Cardiomyopathy	Mild
		Thrombosis	Moderate
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
[Clear Cell Focus TGLS = 5-6]			
[Mixed Cell Focus TGLS = 5-6]			
Lymph Node		Hyperplasia	Lymphoid, Minimal
Note: Axillary Lymph Node			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-12]			
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
[Angiectasis TGLS = 7-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 26	TRT#: 1	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-026

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 4-9a,13]	Bilateral	Atrophy	Moderate
* Skin [Keratoacanthoma TGLS = 1-13]		Keratoacanthoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes [Adenoma TGLS = 3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 573

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-027

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Intestine Large, Rectum

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-9]		
* Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 573

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-027

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 690

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-028

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
Note: For organ see slide 12.			
[Leukemia Mononuclear TGLS = 4-12]			
* Pancreas	Acinus	Atrophy Leukemia Mononuclear	Focal, Mild
* Pineal Gland		Mineralization	Mild
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 28	TRT#: 1	SEX: Male	DAY ON TEST: 690
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-028

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 6-9a]	Bilateral	Inflammation Atrophy	Chronic Active, Minimal Marked
* Skin Note: TGL 7-NCL			
* Spleen [Leukemia Mononuclear TGLS = 2-6]		Leukemia Mononuclear	
* Stomach, Forestomach	Epithelium	Edema Hyperplasia Leukemia Mononuclear	Moderate Moderate
* Stomach, Glandular	Glands	Cyst Leukemia Mononuclear	Minimal
* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-029

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
Note: Areas of regeneration and bile duct hyperplasia are associated with the neoplasm.			
* Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
* Lymph Node, Mandibular		Fibrosis	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Hyperplasia	Focal, Moderate
	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Leukemia Mononuclear	
* Stomach, Glandular	Glands	Cyst	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1, 2, 3, 4-9]			
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-029

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 649

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Preputial Gland
* Salivary Glands	Skeletal Muscle	* Skin	Spinal Cord
* Stomach, Forestomach	* Trachea		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone	Femur	Hyperostosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney	Bilateral	Nephropathy	Minimal
[Nephropathy TGLS = 4-NCL]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate			
Perph Nerve			
Note: Sciatic Nerve is Normal			
Note: Sciatic Nerve is Normal			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 30	TRT#: 1	SEX: Male	DAY ON TEST: 649
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-030

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Stomach, Glandular		Atrophy	Minimal
[Atrophy TGLS = 7-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-031

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Seminal Vesicle		Atrophy	Marked
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 3-12]		
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1,2-9]		
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-031

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 3 identified grossly as Inguinal Lymph Node is microscopically identified as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 32 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 737
DOSE: SHAM CONTROL **DISP:** Terminal Sacrifice **HISTO:** 94-5216-032

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pineal Gland	* Preputial Gland
* Salivary Glands	* Spleen	* Stomach, Glandular	* Thyroid Gland
* Trachea			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Moderate
			[Atrophy TGLS = 3-9a,12]
* Skin	Dermis	Fibroma	
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 32	TRT#: 1	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-032

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1,2-9]

* Thymus		Atrophy	Mild
* Urinary Bladder	Transit Epithe	Papilloma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-033

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Mineralization	Minimal
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
		Inflammation	Acute, Minimal
* Seminal Vesicle		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 1-9]			
[Atrophy TGLS = 2-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-033

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
* Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
	[Alveolar/Bronchiolar Adenoma TGLS = 5-7]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-12]		
* Nose	Glands	Cyst	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 34	TRT#: 1	SEX: Male	DAY ON TEST: 736
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-034

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 2-9a,12]		
* Spleen		Accessory Spleen Leukemia Mononuclear
[Accessory Spleen TGLS = 4-12]		
[Leukemia Mononuclear TGLS = 3-6]		
* Stomach, Glandular		Leukemia Mononuclear
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 1-9]		
* Thymus		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 4 identified grossly as Pancreas is identified microscopically as occurring in Spleen.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
[Degeneration TGLS = 2-9]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Moderate
[Mixed Cell Focus TGLS = 3-14]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Marked
* Preputial Gland		Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Mild
[Atrophy TGLS = 1-9a,12]			
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 35	TRT#: 1	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-035

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 2 identified grossly as Epididymis is microscopically identified as occur ring in Testes.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-036

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Mammary Gland	* Preputial Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Brain			
Note: TGL 3-NCL			
* Epididymis		Inflammation	Chronic, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
	Artery	Inflammation	Chronic, Mild
* Islets, Pancreatic		Hyperplasia	Focal, Moderate
* Kidney	Bilateral, Pelvis	Inflammation	Chronic Active, Moderate
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Artery	Inflammation	Chronic, Moderate
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Prostate	Epithelium	Hyperplasia	Focal, Mild
		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 36	TRT#: 1	SEX: Male	DAY ON TEST: 736
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-036

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Germinal Epith Artery, Bilateral Bilateral	Atrophy Inflammation Mineralization	Marked Chronic, Mild Mild
[Atrophy TGLS = 1-9]			
* Thymus	Epithel Cell	Atrophy Hyperplasia	Mild Moderate
* Thyroid Gland		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 37	TRT#: 1 DOSE: SHAM CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-037
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Atrophy	Focal, Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
		Mixed Cell Focus	Marked
[Eosinophilic Focus TGLS = 2-6]			
[Inflammation TGLS = 3-6]			
[Mixed Cell Focus TGLS = 2-6]			
* Lymph Node, Mesenteric		Degeneration	Cystic, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Atrophy	Focal, Mild
	Pars Distalis	Pigmentation	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 4-9a]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 37	TRT#: 1	SEX: Male	DAY ON TEST: 736
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-037

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen Note: TGL 1-NCL			
* Testes	Interstit Cell Germinal Epith Interstit Cell	Adenoma Atrophy Hyperplasia	Moderate Focal, Minimal
[Adenoma TGLS = 5-9] [Atrophy TGLS = 6-9] [Hyperplasia TGLS = 5-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 699

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-038

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
Peripheral Nerve	* Pineal Gland	* Salivary Glands	* Seminal Vesicle
Skeletal Muscle	* Skin	Spinal Cord	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla	Bilateral	Hyperplasia	Focal, Mild
* Bone Marrow		Hyperplasia	Moderate
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 5-1]			
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
Note: TGL 2-NCL			
* Liver	Hepatocyte	Degeneration	Mild
	Bile Duct	Hyperplasia	Minimal
		Necrosis	Moderate
[Degeneration TGLS = 3-6]			
[Necrosis TGLS = 3-6]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
Perph Nerve			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 38	TRT#: 1	SEX: Male	DAY ON TEST: 699
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-038

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Sciatic Nerve is Normal			
* Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	
* Preputial Gland [Adenoma TGLS = 1-9,13]		Adenoma	
* Prostate		Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular [Mineralization TGLS = 7-14]		Erosion Mineralization	Focal, Moderate Minimal
* Testes	Bilateral, Interstit Cell	Hyperplasia	Focal, Moderate
* Thymus		Atrophy	Moderate
Tooth	Gingiva	Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, Observed at Trim, TGL 6-NST

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as oc curing in Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-039

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Marked
[Eosinophilic Focus TGLS = 4-12]			
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Hyperplasia	Focal, Marked
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 39	TRT#: 1	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-039

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 3-9a]	Bilateral	Atrophy	Marked
* Testes [Adenoma TGLS = 1,2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-040

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney	Bilateral	Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Hyperplasia	Focal, Marked
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Intermed	Cyst	Minimal
	Pars Distalis	Hyperplasia	Focal, Marked
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Mild
* Seminal Vesicle	Bilateral	Atrophy	Moderate
	[Atrophy TGLS = 5-9a]		
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 40	TRT#: 1	SEX: Male	DAY ON TEST: 736
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-040

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 4-5]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 4 identified grossly as Mammary Gland is microscopically identified as oc curring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-041

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
[Degeneration TGLS = 4,5-9]			
* Heart		Leukemia Mononuclear	
* Kidney	Bilateral	Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	Moderate
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Mammary Gland		Cyst	Minimal
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-041

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle		Atrophy	Minimal
* Skin		Basal Cell Adenoma	
	Sebaceous Gl	Carcinoma	
	[Carcinoma TGLS = 3-12,12.1]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1,2-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-042

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Parathyroid Gland	* Pineal Gland	* Pituitary Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic, Minimal
Note: Fungi found in nasal exudate			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
* Seminal Vesicle	Bilateral	Atrophy	Mild
	[Atrophy TGLS = 5-9a]		
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2,3,4-9]		
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-042

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

MISSING

* Pineal Gland

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
		Schwannoma Malignant	
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-5]		
* Nose		Inflammation	Chronic, Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Moderate
	[Atrophy TGLS = 4-9a]		
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 5-12]		
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 43	TRT#: 1	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-043

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 2,3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Acinus	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Mild
		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Moderate
	[Atrophy TGLS = 9-9a]		
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 7-13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 44	TRT#: 1	SEX: Male	DAY ON TEST: 736
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-044

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 2-12]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 4,5,6-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus Note: TGL 8-NCL		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 45	TRT#: 1	SEX: Male	DAY ON TEST: 614
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla	Bilateral	Hyperplasia	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-1]			
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Leukemia Mononuclear	
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 6-8]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Preputial Gland		Inflammation	Chronic, Mild
Note: One of pair examined			
* Prostate		Atrophy	Moderate
* Seminal Vesicle	Bilateral	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 45	TRT#: 1	SEX: Male	DAY ON TEST: 614
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-045

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 1-9a,12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Stom Gland			
Note: TGL 8-NCL			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 9-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Moderate
[Atrophy TGLS = 2-9a]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 46	TRT#: 1	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-046

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
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PRIMARY CAUSE OF DEATH	-		
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
		Mesothelioma Malignant	
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 1-12]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Moderate
	Note: Fungi present in nasal exudate.		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
	[Hyperplasia TGLS = 3-3]		
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 47	TRT#: 1	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-047

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy	Minimal
* Skin			
Note: The lesion described for skin of the scrotum involved the peritoneal surface of the scrotum.			
* Testes	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Mesentery.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 48 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 605
DOSE: SHAM CONTROL **DISP:** Moribund Sacrifice **HISTO:** 94-5216-048

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney	Pelvis, Transit Epithe	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 3-8]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Minimal
		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild

Note: Fungi present in nasal exudate.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 48	TRT#: 1	SEX: Male	DAY ON TEST: 605
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-048

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-9]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed at Trim, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

OBSERVATIONS

* Adrenal Cortex		Hemorrhage	Marked
		Leukemia Mononuclear	
[Hemorrhage TGLS = 6-3]			
* Adrenal Medulla		Hyperplasia	Focal, Marked
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Marked
[Thrombosis TGLS = 9-4]			
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Inflammation	Chronic, Mild
Note: TGL 1-NCL			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic, Mild
* Pancreas	Acinus	Hyperplasia	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 49	TRT#: 1	SEX: Male	DAY ON TEST: 736
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-049

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland			
Note: TGL 8-NCL			
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
		Leukemia Mononuclear	
[Atrophy TGLS = 4-9a]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH	-		
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Pineal Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
Note: For lesion, also see slide 5.			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
* Seminal Vesicle	Bilateral	Atrophy	Marked
	[Atrophy TGLS = 2-9a]		
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-9]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 51

TRT#: 11

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-051

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

MISSING

* Pineal Gland	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	Mild
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland	Epithelium	Hyperplasia	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Preputial Gland		Inflammation	Chronic, Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 51	TRT#: 11	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-051

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic Active, Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thyroid Gland	C Cell	Hyperplasia	Diffuse, Mild
Tooth	Gingiva	Inflammation	Chronic Active, Moderate
	Gingiva	Malformation	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 52

TRT#: 11

SEX: Male

DAY ON TEST: 645

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-052

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Pineal Gland	* Prostate	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Urinary Bladder

AUTO PRECLUDES DIAG.

Eye	* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Pituitary Gland	* Thyroid Gland

OBSERVATIONS

* Brain Note: See Slide 1 and 13 Rt for lesion.	Cerebrum	Oligodendroglioma Malignant	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
Eye Note: TGL 4-NCL			
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung Note: TGL 5-NCL			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Seminal Vesicle [Atrophy TGLS = 3-9a]	Bilateral	Atrophy	Mild
* Spleen		Pigmentation	Mild
* Testes Note: TGL 6-NCL [Adenoma TGLS = 1,2-9]	Interstit Cell	Adenoma	
* Trachea		Inflammation	Chronic Active, Moderate

PRIMARY CAUSE OF DEATH - Brain Cerebrum Oligodendroglioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 52

TRT#: 11

SEX: Male

DAY ON TEST: 645

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-052

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Autolysis precludes critical evaluation of several tissues.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 53

TRT#: 11

SEX: Male

DAY ON TEST: 670

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-053

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Prostate	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
	Atrium	Leukemia Mononuclear	
* Kidney		Thrombosis	Marked
	Bilateral	Leukemia Mononuclear	
* Liver	Bile Duct	Nephropathy	Minimal
		Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6,7-7]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Minimal
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 53	TRT#: 11	SEX: Male	DAY ON TEST: 670
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-053

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 9-9a]	Bilateral	Atrophy	Marked
* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Stom Gland Note: TGL 10-NCL			
* Testes [Adenoma TGLS = 2,3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus [Leukemia Mononuclear TGLS = 5-3]		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed at Trim, TGL 8-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 54

TRT#: 11

SEX: Male

DAY ON TEST: 659

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Pineal Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Mild
		Leukemia Mononuclear	
	Bilateral	Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney	Bilateral, Renal Tubule	Degeneration	Marked
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-7]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 54	TRT#: 11	SEX: Male	DAY ON TEST: 659
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-054

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 3-12]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 6-9a]			
* Skin		Basal Cell Adenoma	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Found at Retrim, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 55

TRT#: 11

SEX: Male

DAY ON TEST: 674

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-055

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Pineal Gland
* Salivary Glands	Skeletal Muscle	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair examined.			
* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
Note: One of pair examined.			
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Moderate
	Capsule	Sarcoma	
[Sarcoma TGLS = 6-12]			
* Liver		Eosinophilic Focus	Marked
	Bile Duct	Hyperplasia	Minimal
Note: TGL 3-NCL			
* Lung			
Note: TGL 2-NCL			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Marked
* Preputial Gland		Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 55	TRT#: 11 DOSE: SHAM CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 674 HISTO: 94-5216-055
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ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Bilateral	Inflammation	Chronic, Mild
* Seminal Vesicle [Atrophy TGLS = 4-9a]	Bilateral	Inflammation Atrophy	Chronic Active, Mild Marked
* Skin [Keratoacanthoma TGLS = 1-14]		Keratoacanthoma	
Spinal Cord	Meninges	Cyst Epithelial Inclusion	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Edema	Mild
* Testes [Adenoma TGLS = 5-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	- Kidney Capsule Sarcoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 56

TRT#: 11

SEX: Male

DAY ON TEST: 661

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-056

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Salivary Glands
Skeletal Muscle	Spinal Cord	* Stomach, Forestomach	* Trachea

MISSING

* Blood Vessel

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Moderate
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain	Thalamus	Necrosis	Focal, Minimal
[Necrosis TGLS = 9-1]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Atrophy	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
	Bilateral	Mineralization	Moderate
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 3-8]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-6]			
Lymph Node	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5,14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 56	TRT#: 11	SEX: Male	DAY ON TEST: 661
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-056

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Pigmentation	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
		Leukemia Mononuclear	
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 5-9a]			
* Skin	Subcut Tiss	Necrosis	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
* Stomach, Glandular		Erosion	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 8-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Diffuse, Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 10-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 57	TRT#: 11	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Carcinoma	
* Kidney	Bilateral, Renal Tubule	Degeneration	Marked
		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Moderate
		Mixed Cell Focus	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-13]			
* Nose		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 57	TRT#: 11	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-057

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
	Epithelium	Hyperplasia	Focal, Mild
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2,3,4-9]		
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 58

TRT#: 11

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-058

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Urinary Bladder			

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia Vacuolization Cytoplasmic	Focal, Mild Focal, Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 2-3]		
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Moderate
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Mild
* Lung	Interstitial	Inflammation	Chronic, Mild
* Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
* Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 58	TRT#: 11	SEX: Male	DAY ON TEST: 736
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-058

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Fungi present in nasal exudate.

* Pituitary Gland [Adenoma TGLS = 3-3]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Focal, Minimal
[Adenoma TGLS = 1-9]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Diffuse, Minimal
* Trachea		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 59

TRT#: 11

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-059

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland	* Pineal Gland
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic Hyperplasia	Focal, Minimal Focal, Moderate
* Adrenal Medulla		Leukemia Mononuclear Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Marked
<p>Note: A large area of hyperplasia was considered related to advanced leukemia. [Leukemia Mononuclear TGLS = 6-6]</p>			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration Foreign Body Inflammation	Mild Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 59	TRT#: 11	SEX: Male	DAY ON TEST: 736
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-059

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Marked
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 5-9a]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1,2-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Thymus		Atrophy	Mild
		Thymoma Benign	
* Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 60

TRT#: 11

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-060

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
		Granuloma Sperm	Mild
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
	Respirat Epith	Cytoplasmic Alteration	Minimal
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland		Adenoma	
	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 60	TRT#: 11	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-060

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle	Epithelium	Hyperplasia	Focal, Minimal
* Spleen		Atrophy	Mild
[Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 61

TRT#: 11

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-061

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder	

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
Note: Malignancy of lesion based on cellular pleomorphism and high mitotic ratio.			
Note: One of pair examined.			
[Pheochromocytoma Malignant TGLS = 5-3]			
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Necrosis	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland	Epithelium	Hyperplasia	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
		Mineralization	Focal, Mild

Note: Fungi present in nasal exudate.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 61	TRT#: 11	SEX: Male	DAY ON TEST: 736
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-061

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Adenoma TGLS = 1-12]	Bilateral	Adenoma	
* Prostate		Atrophy	Moderate
* Seminal Vesicle [Atrophy TGLS = 6-9a]	Bilateral	Atrophy	Marked
* Testes [Adenoma TGLS = 2,3,4-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 62

TRT#: 11

SEX: Male

DAY ON TEST: 583

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-062

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Depletion Cellular	Minimal
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 3-1]			
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Basophilic Focus	Minimal
		Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Testes	Interstitial Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 62	TRT#: 11	SEX: Male	DAY ON TEST: 583
	DOSE: SHAM CONTROL	DISP: Natural Death	HISTO: 94-5216-062

ORGAN AND ACCOUNTABLE SITE STATUS

	Interstit Cell	Hyperplasia	Focal, Mild
[Adenoma TGLS = 4-9]			
[Hyperplasia TGLS = 4-9]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 63

TRT#: 11

SEX: Male

DAY ON TEST: 303

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Pineal Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 10,11-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-7]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-12]		
	[Leukemia Mononuclear TGLS = 5,6-3]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1,2-2]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-5]		
* Mammary Gland		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 63	TRT#: 11	SEX: Male	DAY ON TEST: 303
	DOSE: SHAM CONTROL	DISP: Natural Death	HISTO: 94-5216-063

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Minimal
* Skin	Subcut Tiss	Lipoma	
[Lipoma TGLS = 4-12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-12]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 4 identified grossly as Tissue NOS is microscopically identified as occur ring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 64

TRT#: 11

SEX: Male

DAY ON TEST: 617

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-064

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-6]		
* Lung	Interstitial	Inflammation	Chronic Active, Mild
	[Inflammation TGLS = 2-7]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 7-14]		
* Nose		Inflammation	Chronic Active, Moderate
	Note: Fungi present in nasal exudate.		
* Pineal Gland		Mineralization	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 64	TRT#: 11	SEX: Male	DAY ON TEST: 617
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-064

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy	Marked
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-13]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5,6-9]			
* Thymus		Atrophy	Moderate
Note: TGL 3-NCL			
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin TGL-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 65	TRT#: 11	SEX: Male	DAY ON TEST: 693
	DOSE: SHAM CONTROL	DISP: Natural Death	HISTO: 94-5216-065

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex	Bilateral	Hematopoietic Cell Proliferation	Mild
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Marked
* Kidney		Fibroma	
	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	[Fibroma TGLS = 8-8]		
* Liver		Degeneration	Cystic, Focal, Minimal
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Mild
	[Degeneration TGLS = 6-NCL]		
* Lung		Congestion	Moderate
	[Congestion TGLS = 7-7]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 4-13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 65	TRT#: 11	SEX: Male	DAY ON TEST: 693
	DOSE: SHAM CONTROL	DISP: Natural Death	HISTO: 94-5216-065

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Basophilic Focus	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Adenoma	
Note: It is unclear from the section if one or 2 masses are represented. [Adenoma TGLS = 1-12]			
* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hemorrhage	Mild
[Hemorrhage TGLS = 5-15]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Heart Atrium Thrombosis

Animal Note: Cavities, Thoracic, Fluid, 10ml, Clear, TGL 2-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 66

TRT#: 11

SEX: Male

DAY ON TEST: 527

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-066

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Thyroid Gland
* Trachea			

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Pancreas
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OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for examination.			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-7]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-3]			
[Leukemia Mononuclear TGLS = 6-2]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Mild
* Preputial GI			
Note: Only one of pair available for examination.			
Note: One of pair examined.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 66	TRT#: 11	SEX: Male	DAY ON TEST: 527
	DOSE: SHAM CONTROL	DISP: Natural Death	HISTO: 94-5216-066

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Acute, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Mild Chronic, Mild
[Inflammation TGLS = 11-14]			
* Stomach, Glandular		Erosion	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,9,10-9]			
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Edema	Moderate
Note: TGL 4-NCL			
Note: TGL 2-NCL			
Note: TGL 3-NST			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 67

TRT#: 11

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-067

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Adenoma	
	[Adenoma TGLS = 1-12]		
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
	[Atrophy TGLS = 4-9a]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2,3-9]		
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 67

TRT#: 11

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-067

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:19

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 68

TRT#: 11

SEX: Male

DAY ON TEST: 722

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Trachea	* Urinary Bladder		

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Note: Axillary Lymph Node is Normal		
	[Leukemia Mononuclear TGLS = 6-14]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
	Epithelium	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 68	TRT#: 11	SEX: Male	DAY ON TEST: 722
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-068

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 2-12]	Fat	Necrosis	Mild
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Adenoma	
	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
* Seminal Vesicle [Atrophy TGLS = 4-9a]	Bilateral	Atrophy	Marked
* Skin [Keratoacanthoma TGLS = 1-13]		Keratoacanthoma	
* Spleen [Leukemia Mononuclear TGLS = 5-6]		Leukemia Mononuclear	
* Stomach, Forestomach		Edema	Mild
		Leukemia Mononuclear	
* Stomach, Glandular [Leukemia Mononuclear TGLS = 8-15]		Erosion	Focal, Mild
		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 69

TRT#: 11

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-069

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Eosinophilic Focus	Minimal
		Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-2]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
* Seminal Vesicle	Bilateral	Atrophy	Marked
	[Atrophy TGLS = 5-9a,13]		
* Skin	Subcut Tiss	Fibroma	
		Squamous Cell Papilloma	
	[Fibroma TGLS = 1-12]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 69	TRT#: 11	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-069

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 2-6]		Leukemia Mononuclear	
* Stomach, Glandular	Glands	Cyst	Minimal
* Testes [Adenoma TGLS = 3,4-9]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as oc curring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 70

TRT#: 11

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-070

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Hyperplasia	Focal, Mild
		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Tension Lipidosis	Marked
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Tension Lipidosis TGLS = 6-6]		
	[Vacuolization Cytoplasmic TGLS = 7-6]		
* Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
	[Inflammation TGLS = 2-14]	Inflammation	Chronic Active, Marked
* Nose		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Moderate
* Prostate		Atrophy	Moderate
* Seminal Vesicle	Bilateral	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 70	TRT#: 11	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-070

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 3-9a, 12]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-13]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4,5-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 2 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 71

TRT#: 11

SEX: Male

DAY ON TEST: 647

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-071

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea		

OBSERVATIONS

* Adren Medulla			
Note: One of pair examined.			
* Adrenal Cortex	Bilateral	Pigmentation	Minimal
	Bilateral	Vacuolization Cytoplasmic	Focal, Moderate
Note: One of pair examined.			
* Bone Marrow		Depletion Cellular	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Marked
[Nephropathy TGLS = 1-8,12; 6-8; 7-12]			
* Liver		Clear Cell Focus	Mild
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Vacuolization Cytoplasmic TGLS = 5-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Nasolacrim Dct	Inflammation	Chronic Active, Moderate
* Pancreas		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Hyperplasia	Focal, Mild
* Prostate		Atrophy	Mild
* Seminal Vesicle		Atrophy	Minimal
* Spleen		Pigmentation	Minimal
Note: TGL 4-NCL			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 71	TRT#: 11	SEX: Male	DAY ON TEST: 647
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-071

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach [Ulcer TGLS = 8-4]		Inflammation Ulcer	Chronic Active, Mild Mild
* Testes [Atrophy TGLS = 2-9] [Mineralization TGLS = 3-9]	Bilateral, Germinal Epith Bilateral	Atrophy Mineralization	Marked Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
* Urinary Bladder		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH - Kidney Bilateral Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 72

TRT#: 11

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-072

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Hematopoietic Cell Proliferation Vacuolization Cytoplasmic	Minimal Focal, Minimal
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver		Clear Cell Focus	Mild
		Degeneration	Cystic, Focal, Minimal
		Hematopoietic Cell Proliferation	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Mixed Cell Focus	Moderate
[Hyperplasia TGLS = 6-6]			
* Lung		Congestion	Minimal
[Congestion TGLS = 7-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Marked
* Mammary Gland		Fibroadenoma	
	Epithelium	Hyperplasia	Mild
[Fibroadenoma TGLS = 1-14]			
* Pancreas	Acinus	Hyperplasia	Focal, Mild
		Mesothelioma Malignant	
Peritoneum	Tunica Vaginal	Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 72	TRT#: 11	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-072

ORGAN AND ACCOUNTABLE SITE STATUS

[Mesothelioma Malignant TGLS = 3-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Moderate
	Epithelium	Hyperplasia	Focal, Minimal
		Mesothelioma Malignant	
* Seminal Vesicle		Atrophy	Marked
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Necrosis	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
[Adenoma TGLS = 4,5-12]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Diffuse, Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: Cavity, Abdominal, Fluid, Red, TGL 2-NST

Animal Note: Lesion 3 identified grossly as Cavity is microscopically identified as occurring in Peritoneum.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 73

TRT#: 11

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-073

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Nose	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone	Cranium	Hyperostosis	Mild
Note: Femur is Normal [Hyperostosis TGLS = 3-13]			
* Brain			
Note: TGL 4-NCL			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland	Epithelium	Hyperplasia	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 73	TRT#: 11	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-073

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy	Moderate
* Seminal Vesicle		Atrophy	Marked
[Atrophy TGLS = 1-9a,13]			
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Mild
* Trachea		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 74

TRT#: 11

SEX: Male

DAY ON TEST: 710

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-074

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder	

INSUFFICIENT TISSUE

* Pineal Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
Note: Only one of pair available for evaluation.			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: Hyperplasia and cystic degeneration were considered leukemia related and not diagnosed.			
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Mild
* Nose	Respirat Epith	Cytoplasmic Alteration	Minimal
* Pituitary Gl			
Note: TGL 5-NCL			
* Prostate		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 74	TRT#: 11	SEX: Male	DAY ON TEST: 710
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-074

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 3-9a,12]	Bilateral	Atrophy	Moderate
* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2,6-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 75 **TRT#:** 11 **SEX:** Male **DAY ON TEST:** 736
DOSE: SHAM CONTROL **DISP:** Terminal Sacrifice **HISTO:** 94-5216-075

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Hepatocyte	Hypertrophy	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Adenoma	
		Inflammation	Chronic Active, Minimal
[Adenoma TGLS = 1-12]			
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a]			
* Skin	Subcut Tiss	Fibroma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-9]			
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 75

TRT#: 11

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-075

ORGAN AND ACCOUNTABLE SITE STATUS

Tissue NOS

Abdominal

Sarcoma

[Sarcoma TGLS = 2-13]

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 2 identified grossly as Cavity is microscopically identified as occurring in Tissue NOS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 76

TRT#: 11

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-076

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Cyst	Minimal
		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Respirat Epith	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Acute, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 76	TRT#: 11	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-076

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Minimal
* Prostate		Atrophy	Minimal
		Inflammation	Chronic, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Minimal
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 77

TRT#: 11

SEX: Male

DAY ON TEST: 696

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-077

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Prostate	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Adrenal Medulla	* Parathyroid Gland
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OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Eosinophilic Focus	Moderate
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
		[Eosinophilic Focus TGLS = 6-6]	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hypertrophy	Focal, Minimal
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
		[Adenoma TGLS = 2-12]	
* Seminal Vesicle	Bilateral	Atrophy	Moderate
		[Atrophy TGLS = 5-9a]	
* Skin	Subcut Tiss	Fibroma	
		[Fibroma TGLS = 1-13]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 77	TRT#: 11	SEX: Male	DAY ON TEST: 696
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-077

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

Animal Note: Carcass, Thin, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 78

TRT#: 11

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-078

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Pineal Gland

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Hyperplasia	Focal, Moderate
		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
		Schwannoma Malignant	
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
Note: See slide 5 for lesion.			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Minimal
[Atrophy TGLS = 2-9a]			
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 78	TRT#: 11	SEX: Male	DAY ON TEST: 736
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-078

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 79

TRT#: 11

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
* Pineal Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 4-3]			
* Brain	Cerebrum, Chor Plexus	Infiltration Cellular	Lymphocyte, Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Hyperplasia	Focal, Mild
* Preputial Gland		Adenoma	
	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
* Sem Ves			
Note: TGL 3-NCL			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 79	TRT#: 11	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-079

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1,2-9]	Bilateral, Interstit Cell	Adenoma
* Thyroid Gland	C Cell	Adenoma
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 80

TRT#: 11

SEX: Male

DAY ON TEST: 695

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-080

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Pineal Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Brain	Cerebrum	Astrocytoma Malignant	
[Astrocytoma Malignant TGLS = 5-1]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Necrosis	Minimal
* Lung		Congestion	Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Preputial Gland	Bilateral	Adenoma	
Note: Bilateral neoplasms were present in section 12. One probably represents the inguinal skin mass.			
[Adenoma TGLS = 1,3-12]			
* Seminal Vesicle	Bilateral	Atrophy	Mild
[Atrophy TGLS = 2-9a]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 80

TRT#: 11

SEX: Male

DAY ON TEST: 695

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-080

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-9]

* Thymus

Hemorrhage

Mild

PRIMARY CAUSE OF DEATH

- Brain Cerebrum Astrocytoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 81

TRT#: 11

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland	* Pineal Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Epithelium	Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 1-9a]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 81	TRT#: 11	SEX: Male	DAY ON TEST: 736
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-081

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Minimal
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PRIMARY CAUSE OF DEATH	-		
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 82 **TRT#:** 11 **SEX:** Male **DAY ON TEST:** 737
DOSE: SHAM CONTROL **DISP:** Terminal Sacrifice **HISTO:** 94-5216-082

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adren Cortex			
Note: One of pair examined.			
* Adren Medulla			
Note: One of pair examined.			
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 3-1]			
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Moderate
* Liver		Clear Cell Focus	Minimal
		Mixed Cell Focus	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
* Nose		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 82	TRT#: 11	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-082

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 83 **TRT#:** 11 **SEX:** Male **DAY ON TEST:** 701
DOSE: SHAM CONTROL **DISP:** Moribund Sacrifice **HISTO:** 94-5216-083

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	Lymph Node
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Necrosis	Focal, Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Clear Cell Focus	Minimal
		Degeneration	Cystic, Focal, Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung	Artery	Inflammation	Chronic, Minimal
Lymph Node			
Note: Axillary Lymph Node is Normal			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Mild
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Moderate
[Angiectasis TGLS = 6-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
	Epithelium	Hyperplasia	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 83	TRT#: 11	SEX: Male	DAY ON TEST: 701
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-083

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Atrophy	Marked
[Fibroma TGLS = 1-12]		Fibroma	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Stomach, Glandular		Edema	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			
* Thymus		Hemorrhage	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked
		Ultimobranchial Cyst	Minimal
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 5-13]			

PRIMARY CAUSE OF DEATH - Zymbal's Gland Carcinoma

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 84 **TRT#:** 11 **SEX:** Male **DAY ON TEST:** 628
DOSE: SHAM CONTROL **DISP:** Moribund Sacrifice **HISTO:** 94-5216-084

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	Peripheral Nerve	* Salivary Glands	Skeletal Muscle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Marked
[Pigmentation TGLS = 4-8]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-5]			
* Nose		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Minimal
Perph Nerve			
Note: Sciatic Nerve is Normal			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 84	TRT#: 11	SEX: Male	DAY ON TEST: 628
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-084

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 85 **TRT#:** 11 **SEX:** Male **DAY ON TEST:** 737
DOSE: SHAM CONTROL **DISP:** Terminal Sacrifice **HISTO:** 94-5216-085

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Hyperplasia	Focal, Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Epithelium	Hyperplasia	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Moderate
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Moderate
* Seminal Vesicle	Bilateral	Atrophy	Moderate
	[Atrophy TGLS = 2-9a,12]		
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Squamous Cell Papilloma	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-9]		
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 85

TRT#: 11

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-085

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 86

TRT#: 11

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-086

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adren Cortex			
Note: One of pair examined.			
* Adren Medulla			
Note: One of pair examined.			
* Epididymis		Atrophy	Moderate
	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 86	TRT#: 11	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-086

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Cyst	Minimal
Note: For lesion see slide 5.			
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Marked
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a,12]			
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5,6-9]			
* Thyroid Gland	Follicle	Cyst	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:19
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 87

TRT#: 11

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-087

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Brain			
Note: TGL 4-NCL			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
[Hepatodiaphragmatic Nodule TGLS = 3-6]			
[Mixed Cell Focus TGLS = 6-13]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland	Epithelium	Hyperplasia	Mild
* Pancreas	Acinus	Hyperplasia	Focal, Mild
		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 87	TRT#: 11	SEX: Male	DAY ON TEST: 736
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-087

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Acinar cell hyperplasia also present in slide 5.

* Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Moderate
* Prostate		Atrophy	Moderate
* Seminal Vesicle [Atrophy TGLS = 2-9a,12]	Bilateral	Atrophy	Mild
* Spleen		Pigmentation	Minimal
* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	Follicle	Cyst	Minimal

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 88

TRT#: 11

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-088

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder	

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Moderate
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Lymph Node			
Note: Inguinal Lymph Node is Missing			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	Epithelium	Hyperplasia	Minimal
[Fibroadenoma TGLS = 1-12]			
* Nose		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 88	TRT#: 11	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-088

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
* Skin	Dermis	Fibroma	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			
* Thymus		Atrophy	Minimal
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 89

TRT#: 11

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-089

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Cortex Note: One of pair examined.		Hyperplasia	Focal, Minimal
* Adrenal Medulla Note: One of pair examined.		Hyperplasia	Focal, Minimal
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-12]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
* Pancreas	Acinus	Hyperplasia	Focal, Marked
		Infiltration Cellular	Lymphocyte, Minimal
Note: See slide 5 for Acinar Cell Hyperplasia.			
* Pituitary Gland	Pars Distalis	Hypertrophy	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 89	TRT#: 11	SEX: Male	DAY ON TEST: 736
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-089

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Carcinoma	
[Adenoma TGLS = 2-9]			
[Carcinoma TGLS = 2-9]			
* Urinary Bladder		Edema	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Cavity, Abdominal, Fluid, 2cc, Red, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 90

TRT#: 11

SEX: Male

DAY ON TEST: 689

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-090

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pituitary Gland	* Salivary Glands	* Skin	* Trachea

MISSING

* Parathyroid Gland	* Urinary Bladder
---------------------	-------------------

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Mild
	[Atrophy TGLS = 3-9a]		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 90	TRT#: 11	SEX: Male	DAY ON TEST: 689
	DOSE: SHAM CONTROL	DISP: Natural Death	HISTO: 94-5216-090

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
* Stomach, Glandular		Erosion	Focal, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3,3.1]			
* Thyroid Gland	Follicular Cel	Adenoma	
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Cavities, Thoracic, Fluid, ~ 10 ML, Brown, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 91

TRT#: 11

SEX: Male

DAY ON TEST: 406

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-091

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	Larynx
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Heart	Epicardium	Inflammation	Chronic, Moderate
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
Larynx			
Note: TGL 3-NCL			
* Liver	Bile Duct	Hyperplasia	Minimal
		Necrosis	Marked
Lymph Node	Mediastinal	Hemorrhage	Moderate
[Hemorrhage TGLS = 5-13]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Inflammation	Acute, Minimal
Note: Fungi present in nasal exudate.			
* Thymus		Atrophy	Marked
Tissue NOS	Mediastinum	Schwannoma Malignant	
[Schwannoma Malignant TGLS = 4-14]			

PRIMARY CAUSE OF DEATH

- Tissue NOS Mediastinum Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 91

TRT#: 11

SEX: Male

DAY ON TEST: 406

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-091

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Cavities, Thoracic, Fluid, Approximately 2ml, red, TGL 2-NST

Animal Note: Lesion 4 identified grossly as Cavity is microscopically identified as occurring in Tissue NOS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 92

TRT#: 11

SEX: Male

DAY ON TEST: 641

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-092

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	Peripheral Nerve	* Pineal Gland
* Salivary Glands	Skeletal Muscle	* Skin	* Stomach, Forestomach
* Trachea			

OBSERVATIONS

* Adrenal Medulla	Bilateral	Hyperplasia	Focal, Marked
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-1]			
* Epididymis		Granuloma Sperm	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
[Leukemia Mononuclear TGLS = 5-13]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pituitary Gland	Pars Distalis	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 92	TRT#: 11	SEX: Male	DAY ON TEST: 641
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-092

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Leukemia Mononuclear	
* Seminal Vesicle	Bilateral	Atrophy	Marked
Spinal Cord		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Stomach, Glandular		Erosion	Focal, Minimal
[Erosion TGLS = 8-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 5 identified grossly as Mesentery is identified microscopically as occurring in Lymph Node (NOS).

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 93

TRT#: 11

SEX: Male

DAY ON TEST: 581

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-093

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	Larynx
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
--------------------------	--------------------------	----------------------------

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain			
Note: TGL 2-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Mammary Gland		Cyst	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-12]			
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Stom Forestom			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 93	TRT#: 11	SEX: Male	DAY ON TEST: 581
	DOSE: SHAM CONTROL	DISP: Natural Death	HISTO: 94-5216-093

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 4-NCL

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-9]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 1 identified grossly as Cavity is identified microscopically as occurring in Mesentery.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 94

TRT#: 11

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-094

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: Large areas of hyperplasia present but not diagnosed separately in the liver of this leukemic rat. [Leukemia Mononuclear TGLS = 5-6]			
* Lung		Hemorrhage	Minimal
			[Hemorrhage TGLS = 6-7]
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Adenoma	
	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Minimal
* Spleen		Fibrosis	Marked
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 94	TRT#: 11	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-094

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2,3-9]			
* Thymus		Thymoma Benign	
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 95

TRT#: 11

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-095

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Lung	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Depletion Cellular	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Small, Ileum		Inflammation	Chronic, Mild
* Islets, Pancreatic		Adenoma	
Note: See slide 5 for lesion.			
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Minimal
* Testes	Bilateral, Germinal Epith	Atrophy	Moderate
	Bilateral, Interstit Cell	Hyperplasia	Focal, Moderate
[Atrophy TGLS = 1-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 96

TRT#: 11

SEX: Male

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-096

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain			
Note: TGL 4-NCL			
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Mineralization	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	Pars Intermed	Cyst	Mild
[Adenoma TGLS = 3-3]			
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 96	TRT#: 11	SEX: Male	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-096

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Stomach, Glandular		Edema	Minimal
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 97 **TRT#:** 11 **SEX:** Male **DAY ON TEST:** 619
DOSE: SHAM CONTROL **DISP:** Moribund Sacrifice **HISTO:** 94-5216-097

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pancreas	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Chronic Active, Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 4-8]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-7]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Parathyroid Gland		Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Intermed	Cyst	Moderate
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 97	TRT#: 11	SEX: Male	DAY ON TEST: 619
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-097

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy Inflammation	Mild Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 98 **TRT#:** 11 **SEX:** Male **DAY ON TEST:** 736
DOSE: SHAM CONTROL **DISP:** Terminal Sacrifice **HISTO:** 94-5216-098

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
	[Inflammation TGLS = 1-9a]		
* Seminal Vesicle		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-9]		
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 99

TRT#: 11

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-099

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Moderate
* Seminal Vesicle	Bilateral	Atrophy	Moderate
	[Atrophy TGLS = 3-9a]		
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1,2-9]		
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
	Follicular Cel	Hyperplasia	Focal, Mild

Note: One of the hyperplastic foci appears consistent with Hurthle's (oxyphil) cell origin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 99

TRT#: 11

SEX: Male

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-099

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 100

TRT#: 11
DOSE: SHAM CONTROL

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 737
HISTO: 94-5216-100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Mild
[Mixed Cell Focus TGLS = 2-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 101

TRT#: 3

SEX: Male

DAY ON TEST: 720

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Lung
* Mammary Gland	* Pancreas	* Pineal Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland	* Pituitary Gland
---------------------	-------------------

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Harderian Gland		Hyperplasia	Focal, Mild
		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
		Schwannoma Malignant	
		Carcinoma	
* Islets, Pancreatic			
Note: See slide 5 for lesion.			
[Carcinoma TGLS = 2-5]			
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 3-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 2-12]			
* Nose		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Preputial Gland		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 101	TRT#: 3	SEX: Male	DAY ON TEST: 720
	DOSE: 0.02 GAUSS	DISP: Natural Death	HISTO: 94-5216-101

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle		Atrophy	Mild
* Skin	Dermis	Fibroma	
* Spleen	Lymph Follic	Atrophy	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 4-2]			

PRIMARY CAUSE OF DEATH - Islets, Pancreatic Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 102

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Pineal Gland	* Prostate	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Mild
	[Thrombosis TGLS = 5,6-4]		
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Pancreas	Acinus	Atrophy	Diffuse, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Hyperplasia	Focal, Moderate
	Bilateral	Inflammation	Chronic, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
	[Atrophy TGLS = 3-9a,12]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 102	TRT#: 3	SEX: Male	DAY ON TEST: 736
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-102

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibroma TGLS = 1-5]	Subcut Tiss	Fibroma	
* Spleen [Leukemia Mononuclear TGLS = 4-6]		Fibrosis Leukemia Mononuclear	Moderate
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Mammary Gland is identified microscopically as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 103 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 619
DOSE: 0.02 GAUSS **DISP:** Moribund Sacrifice **HISTO:** 94-5216-103

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Pancreas	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
	Bilateral	Vacuolization Cytoplasmic	Focal, Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Clear Cell Focus	Minimal
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Parathyroid Gland		Carcinoma	Metastatic (Skin)
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Vacuolization Cytoplasmic	Focal, Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
		Inflammation	Chronic, Minimal
* Seminal Vesicle		Atrophy	Marked
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 103	TRT#: 3	SEX: Male	DAY ON TEST: 619
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-103

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 1-12]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			
* Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

Animal Note: Carcass, Thin, Observed at Trim, TGL 4-NST

Animal Note: Lesion 1 identified grossly as Mammary Gland is identified microscopically as oc curring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:20

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 104

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-104

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Hematopoietic Cell Proliferation	Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Moderate
	Valve	Inflammation	Chronic, Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	Mild
Note: Several regenerative nodules are also present that were considered leukemia related. [Leukemia Mononuclear TGLS = 5-6,13, 6-13]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
		Mixed Tumor Benign	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 104	TRT#: 3	SEX: Male	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-104

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a,12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 105

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-105

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Hematopoietic Cell Proliferation	Mild
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Moderate
		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
	[Atrophy TGLS = 6-9a,13]		
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-12]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 105	TRT#: 3	SEX: Male	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-105

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 2,3-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 4,5-9]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell Follicle	Adenoma Cyst	Mild
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 106 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 737
DOSE: 0.02 GAUSS **DISP:** Terminal Sacrifice **HISTO:** 94-5216-106

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
[Adenoma TGLS = 1-9a]			
* Prostate		Inflammation	Chronic Active, Mild
* Salivary Glands	Parotid GI	Atrophy	Mild
* Seminal Vesicle		Atrophy	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3,4,5-9]			
* Thymus		Thymoma Benign	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 107

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex		Adenoma	
* Epididymis		Fibrosarcoma	
[Fibrosarcoma TGLS = 2-9]			
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Parathyroid Gland		Adenoma	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 107	TRT#: 3	SEX: Male	DAY ON TEST: 736
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-107

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 1-9]			
[Atrophy TGLS = 3-9]			
* Thymus		Atrophy	Minimal
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 108

TRT#: 3

SEX: Male

DAY ON TEST: 490

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Pineal Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis			
Note: TGL 1-NCL			
* Harderian Gland		Inflammation	Chronic, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Necrosis	Minimal
* Lung		Congestion	Mild
[Congestion TGLS = 2-7]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
[Hemorrhage TGLS = 3-12]			
Mesentery	Artery	Hemorrhage	Marked
[Hemorrhage TGLS = 4-5,12]			
* Pancreas	Artery	Inflammation	Chronic, Moderate
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Moderate
* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Mild
* Spleen	Lymph Follic	Atrophy	Moderate
* Stomach, Glandular	Artery	Inflammation	Chronic, Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Mesentery Artery Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 108

TRT#: 3

SEX: Male

DAY ON TEST: 490

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-108

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Carcass, Thin, Observed, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 109

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Mild
* Brain			
Note: TGL 6-NCL			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Pancreas	Acinus	Adenoma	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Preputial Gland		Hyperplasia	Focal, Moderate
	Bilateral	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 109	TRT#: 3	SEX: Male	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-109

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy	Moderate
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a,12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 110 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 596
DOSE: 0.02 GAUSS **DISP:** Moribund Sacrifice **HISTO:** 94-5216-110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 2-12]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Diffuse, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-9]		
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 111

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-111

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Nose
* Parathyroid Gland	* Pineal Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Trachea			

MISSING

* Adrenal Medulla

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration Inflammation	Mucoid, Minimal Chronic, Mild
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
	[Atrophy TGLS = 2-9a,12]		
* Stomach, Glandular	Glands	Cyst	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-9]		
* Thyroid Gland		Ultimobranchial Cyst	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 111

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-111

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 112

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-112

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Adrenal Medulla	* Pineal Gland
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OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Brain	Hypothalamus	Compression	Minimal
[Compression TGLS = 4-1]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Infiltration Cellular	Mixed Cell, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
* Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 2-9a,12]			
* Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 112	TRT#: 3	SEX: Male	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-112

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	Interstit Cell	Hyperplasia	Focal, Moderate
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 113

TRT#: 3

SEX: Male

DAY ON TEST: 712

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Focal, Marked
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
Note: TGL 5-NCL			
* Lung		Congestion	Mild
[Congestion TGLS = 6-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 9-17]			
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 8-9a,14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 113	TRT#: 3	SEX: Male	DAY ON TEST: 712
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-113

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Dermis	Fibroma	Multiple
	Subcut Tiss	Fibroma Squamous Cell Papilloma	

Note: It appears that both of the sections observed in slide 12 are from one lesion.

[Fibroma TGLS = 1-12]

[Squamous Cell Papilloma TGLS = 7-13]

* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	Marked
	Germinal Epith	Atrophy	

[Adenoma TGLS = 3,4-9]

[Atrophy TGLS = 2-9]

* Thyroid Gland	C Cell	Adenoma
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PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

Animal Note: Lesion 9 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 114

TRT#: 3

SEX: Male

DAY ON TEST: 396

DOSE: 0.02 GAUSS

DISP: Other

HISTO: 94-5216-114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis	Bilateral	Inflammation	Chronic, Marked
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Vacuolization Cytoplasmic	Moderate
* Preputial Gland		Adenoma	
	[Adenoma TGLS = 3-12]		
* Prostate		Atrophy	Marked
* Seminal Vesicle		Atrophy	Marked
	[Atrophy TGLS = 1-9a.1]		
* Skin			
	Note: TGL 4-NCL		
* Spleen		Hematopoietic Cell Proliferation	Mild
	[Hematopoietic Cell Proliferation TGLS = 5-6]		
* Testes	Bilateral	Inflammation	Chronic, Marked
	Bilateral	Necrosis	Marked
	[Necrosis TGLS = 2-9]		
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 114

TRT#: 3

SEX: Male

DAY ON TEST: 396

DOSE: 0.02 GAUSS

DISP: Other

HISTO: 94-5216-114

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 3 identified grossly as Skin is microscopically identified as occurring in Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 115

TRT#: 3

SEX: Male

DAY ON TEST: 706

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Salivary Glands	* Skin	Spinal Cord
* Stomach, Glandular	* Thyroid Gland	* Trachea	

MISSING

* Adrenal Medulla	* Pineal Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Brain			
Note: TGL 3-NCL			
* Epididymis	Bilateral, Epithelium	Degeneration Mesothelioma Malignant	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Inflammation	Chronic Active, Mild
		Vacuolization Cytoplasmic	Moderate
	[Vacuolization Cytoplasmic TGLS = 2-6]		
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
* Mammary Gland		Cyst	Mild
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-3]		
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 115

TRT#: 3

SEX: Male

DAY ON TEST: 706

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-115

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle		Atrophy	Marked
Skeletal Muscle		Infiltration Cellular	Lymphocyte, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Ulcer	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 116

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adren Medulla			
Note: Only one available for evaluation.			
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 3,4-6; 5-12]	Hyperplasia	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 116	TRT#: 3	SEX: Male	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-116

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1,2-9]

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 5 identified grossly as Skeletal Muscle is microscopically identified as occurring in Liver.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 117

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Basophilic Focus	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Minimal
[Adenoma TGLS = 1-12]			
* Prostate		Atrophy	Mild
* Seminal Vesicle		Atrophy	Marked
* Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 117

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-117

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 118

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-13]			
* Nose		Inflammation	Chronic, Mild
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
		Infiltration Cellular	Lymphocyte, Minimal
Note: See slide 5 for Hyperplasia.			
* Pineal Gland		Mineralization	Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a,12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 118	TRT#: 3	SEX: Male	DAY ON TEST: 736
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-118

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Inflammation	Acute, Minimal
* Testes [Adenoma TGLS = 1,2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 119

TRT#: 3

SEX: Male

DAY ON TEST: 647

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	Tissue NOS	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mesenteric

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Focal, Marked
* Bone Marrow		Hyperplasia	Marked
* Epididymis		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 5-9,12]			
* Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	Marked
[Thrombosis TGLS = 6-4]			
* Kidney	Bilateral, Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 1-8]			
* Liver		Hematopoietic Cell Proliferation	Moderate
		Necrosis	Moderate
[Necrosis TGLS = 2-6]			
* Lung		Alveolar/Bronchiolar Adenoma	
Mesentery		Mesothelioma Malignant	
Note: The fat present in slide 13 (mesentery) appears normal.			
[Mesothelioma Malignant TGLS = 9-13]			
* Pancreas		Mesothelioma Malignant	
* Pineal Gland		Mineralization	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 119	TRT#: 3	SEX: Male	DAY ON TEST: 647
	DOSE: 0.02 GAUSS	DISP: Natural Death	HISTO: 94-5216-119

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Acute, Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	

[Adenoma TGLS = 3,4-9]

Tissue NOS

Note: TGL 7-NCL

PRIMARY CAUSE OF DEATH - Epididymis Mesothelioma Malignant

Animal Note: Cavities, Abdominal, Fluid, 40ml, Red, Adominal area, TGL 8NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 120

TRT#: 3

SEX: Male

DAY ON TEST: 725

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-120

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Pineal Gland

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart	Atrium	Cardiomyopathy	Moderate
		Thrombosis	Marked
	[Thrombosis TGLS = 5-4]		
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-7]		
Lymph Node		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-13]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Atrophy	Mild
		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 120	TRT#: 3	SEX: Male	DAY ON TEST: 725
	DOSE: 0.02 GAUSS	DISP: Natural Death	HISTO: 94-5216-120

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1,2-9]	Bilateral, Interstit Cell	Adenoma
* Thymus		Leukemia Mononuclear
* Thyroid Gland	C Cell	Adenoma

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 4 identified grossly as Mesentery is microscopically identified as occurring in Lymph Node (NOS).

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 121

TRT#: 3

SEX: Male

DAY ON TEST: 533

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Rectum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Preputial Gland
* Skin	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-8]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
	Nasolacrim Dct	Inflammation	Chronic, Mild
		Inflammation	Chronic Active, Minimal
* Pancreas		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-2]			
* Parathyroid Gland		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 121	TRT#: 3	SEX: Male	DAY ON TEST: 533
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-121

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 2,3-6]		Leukemia Mononuclear
* Stomach, Forestomach		Leukemia Mononuclear
* Testes [Adenoma TGLS = 6,7-9]	Bilateral, Interstit Cell	Adenoma
* Thymus		Leukemia Mononuclear
* Thyroid Gland		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 122

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hemorrhage	Minimal
		Vacuolization Cytoplasmic	Focal, Mild
		Degeneration	Cystic, Marked
* Adrenal Medulla			
* Brain			
Note: TGL 6-NCL			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
[Cataract TGLS = 4-13]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 3-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-12]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 122	TRT#: 3	SEX: Male	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-122

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Skin	Dermis	Fibrosis	Focal, Mild
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,7-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Mild
* Trachea		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 2 identified grossly as Pancreas is microscopically identified as occurring in Mesentery.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 123

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-123

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
	Bilateral	Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Focal, Moderate
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Marked
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 4-9a,13]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 123	TRT#: 3	SEX: Male	DAY ON TEST: 736
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-123

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 2,3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 124

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-124

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Urinary Bladder		

MISSING

* Parathyroid Gland	* Pineal Gland
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Eosinophilic Focus	Moderate
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
[Eosinophilic Focus TGLS = 5-13]			
* Lung		Carcinoma	Metastatic (Thyroid Gland)
[Carcinoma TGLS = 4-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Mammary Gland	Epithelium	Hyperplasia	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Hyperplasia	Focal, Mild
* Skin		Trichoepithelioma	
[Trichoepithelioma TGLS = 1-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 124	TRT#: 3	SEX: Male	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-124

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	Bilateral, C Cell	Carcinoma	
* Trachea		Inflammation	Chronic, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 125

TRT#: 3

SEX: Male

DAY ON TEST: 589

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5215-125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-8]		
* Liver	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
	Note: Necrosis of fat is included with the leukemic infiltrate.		
	[Leukemia Mononuclear TGLS = 4-12]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Foreign Body	
		Inflammation	Chronic Active, Mild
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Moderate
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 125	TRT#: 3	SEX: Male	DAY ON TEST: 589
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5215-125

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands	Parotid GI	Vacuolization Cytoplasmic	Diffuse, Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-9]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-3]			
* Thyroid Gland	Bilateral, C Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed at Trim, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 126	TRT#: 3	SEX: Male	DAY ON TEST: 684
	DOSE: 0.02 GAUSS	DISP: Natural Death	HISTO: 94-5216-126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Pineal Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
Note: Only one of pair available for evaluation.			
* Brain			
Note: TGL 5-NCL			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 3-14]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Moderate
* Lung		Infiltration Cellular	Lymphocyte, Mild
* Mammary Gland		Cyst	Moderate
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-13]			
* Nose		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 126	TRT#: 3	SEX: Male	DAY ON TEST: 684
	DOSE: 0.02 GAUSS	DISP: Natural Death	HISTO: 94-5216-126

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Fungi present in nasal exudate.

* Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Acute, Mild
* Spleen [Fibrosis TGLS = 1-12]		Fibrosis	Mild
* Testes	Interstit Cell	Hyperplasia	Focal, Minimal
* Thymus Note: TGL 6-NCL		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 127

TRT#: 3

SEX: Male

DAY ON TEST: 534

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Pineal Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Inflammation	Chronic, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-9]		
* Thymus		Atrophy	Moderate
Tooth		Odontoma	
	[Odontoma TGLS = 1-10,12]		

PRIMARY CAUSE OF DEATH

- Tooth Odontoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 127

TRT#: 3

SEX: Male

DAY ON TEST: 534

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-127

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Lesion 1 identified grossly as Bone is microscopically identified as occurring i n Tooth.

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 128

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-128

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Clear Cell Focus	Minimal
		Hyperplasia	Mild
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 3-12]			
* Nose		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle		Atrophy	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 128

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-128

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 129 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 737
DOSE: 0.02 GAUSS **DISP:** Terminal Sacrifice **HISTO:** 94-5216-129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Marked
* Bone Marrow		Hyperplasia	Moderate
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-14]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-13]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
* Preputial Gland		Hyperplasia	Focal, Mild
		Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 129	TRT#: 3	SEX: Male	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-129

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 3-9a,13]	Bilateral	Atrophy	Marked
* Spleen [Leukemia Mononuclear TGLS = 4-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 1,2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Hemorrhage	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 130

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-130

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Preputial Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Vacuolization Cytoplasmic	Minimal Focal, Moderate Focal, Minimal
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Clear Cell Focus Hyperplasia Leukemia Mononuclear	Minimal Minimal Histiocyte, Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Intermed Pars Distalis	Atypia Cellular Hyperplasia	Minimal Focal, Minimal
Note: The lesion of the pars intermed was considered gliosis but unable to enter as such.			
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a,12]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 130

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-130

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Focal, Mild

* Trachea

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 131

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
		Hyperplasia	Focal, Moderate
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Moderate
		Mixed Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
Note: See slide 5 for hyperplasia			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 2-9a,12]			
* Skin	Dermis	Fibrosis	Focal, Moderate
		Hyperkeratosis	Marked
[Hyperkeratosis TGLS = 3-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 131	TRT#: 3	SEX: Male	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-131

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 132

TRT#: 3

SEX: Male

DAY ON TEST: 616

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Brain [Compression TGLS = 2-1]	Hypothalamus	Compression	Mild
* Epididymis		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Pelvis, Transit Epithe Bilateral	Hyperplasia	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
* Lung [Congestion TGLS = 1-7]		Congestion	Moderate
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Moderate
		Mineralization	Mild
* Nose Note: Fungi present in nasal exudate.		Inflammation	Chronic Active, Moderate
* Pituitary Gland [Adenoma TGLS = 3-3]	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 132	TRT#: 3	SEX: Male	DAY ON TEST: 616
	DOSE: 0.02 GAUSS	DISP: Natural Death	HISTO: 94-5216-132

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy	Minimal
* Spleen		Pigmentation	Mild
* Testes	Interstitial Cell	Adenoma	
* Thymus		Thymoma Malignant	

Note: TGL 2-NCL

[Thymoma Malignant TGLS = 1-3, 4-3,12]

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Cavities, Thoracic, Fluid, Red, Blood was found, TGL 3-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 133

TRT#: 3

SEX: Male

DAY ON TEST: 696

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Salivary Glands	* Stomach, Glandular	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Focal, Moderate
Note: Only one adrenal available for evaluation			
* Bone Marrow		Leukemia Mononuclear	
* Brain	Hypothalamus	Compression	Minimal
		Leukemia Mononuclear	
		[Compression TGLS = 10-1]	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
		Inflammation	Chronic Active, Moderate
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Hepatodiaphragmatic Nodule TGLS = 4-6]	
		[Leukemia Mononuclear TGLS = 3-6]	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 7-13]	
* Lymph Node, Mandibular		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 9-2]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 133 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 696
DOSE: 0.02 GAUSS **DISP:** Moribund Sacrifice **HISTO:** 94-5216-133

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 5-5]			
* Mammary Gland		Cyst	Mild
Mesentery		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-12]			
* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-3]			
* Preputial Gland		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
* Prostate		Leukemia Mononuclear	
* Seminal Vesicle		Atrophy	Marked
* Skin	Sebaceous Gl	Adenoma	
		Cyst Epithelial Inclusion	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 11-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 134

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Urinary Bladder

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
* Lung	Interstitial	Inflammation	Chronic, Moderate
* Lymph Node, Mesenteric		Degeneration	Cystic, Moderate
		Hyperplasia	Lymphoid, Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-5]			
* Nose		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Mild
	Artery	Inflammation	Chronic, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 134	TRT#: 3	SEX: Male	DAY ON TEST: 736
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-134

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy Inflammation	Mild Chronic Active, Mild
* Seminal Vesicle [Atrophy TGLS = 2-9a,12]	Bilateral	Atrophy	Marked
* Stomach, Glandular	Glands	Cyst	Minimal
* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked
* Trachea		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 3 identified grossly as Mesenteric Lymph Node is microscopically identified as occurring in Mesentery.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 135

TRT#: 3

SEX: Male

DAY ON TEST: 461

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Pineal Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Liver	Bile Duct	Hyperplasia Mixed Cell Focus	Mild Mild
	Hepatocyte	Vacuolization Cytoplasmic Infiltration Cellular Inflammation	Minimal Histiocyte, Mild Chronic Active, Mild
* Lymph Node, Mesenteric			
* Nose			
Note: Fungi present in nasal exudate.			
* Pituitary Gland	Pars Intermed	Hyperplasia Inflammation	Focal, Marked Chronic Active, Mild
* Prostate			
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 2,3-9]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: Due to recording error on Individual Animal Necropsy Record there is no TGL 1.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 136

TRT#: 3

SEX: Male

DAY ON TEST: 602

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Rathkes Cleft	Cyst	Mild
		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
* Seminal Vesicle		Atrophy	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-9]		
* Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 136

TRT#: 3

SEX: Male

DAY ON TEST: 602

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-136

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Focal, Mild

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:20

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 137

TRT#: 3

SEX: Male

DAY ON TEST: 466

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-137

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Moderate
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Hyperplasia	Focal, Mild
* Thymus		Thymoma Malignant	

Note: TGL 2-NCL

[Thymoma Malignant TGLS = 1-3, 4-3,12]

PRIMARY CAUSE OF DEATH

- Thymus Thymoma Malignant

Animal Note: Cavities, Thoracic, Fluid, Red, Blood was Found, TGL 3-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 138

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-138

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Carcinoma	
[Carcinoma TGLS = 1-12]			
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pineal Gland		Mineralization	Moderate
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
		Inflammation	Chronic, Minimal
* Salivary Glands	Parotid GI	Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a,13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 138

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-138

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 139

TRT#: 3

SEX: Male

DAY ON TEST: 685

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-139

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 3-3]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Moderate
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lung		Congestion	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
[Congestion TGLS = 2-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 139	TRT#: 3	SEX: Male	DAY ON TEST: 685
	DOSE: 0.02 GAUSS	DISP: Natural Death	HISTO: 94-5216-139

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
		Inflammation	Acute, Mild
* Seminal Vesicle		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 5-2]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 140

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-140

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic, Mild
* Pancreas	Acinus	Adenoma	
Note: See slide 5 for lesion			
* Pituitary Gland	Pars Distalis	Hypertrophy	Focal, Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
	Epithelium	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 140

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-140

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Atrophy	Moderate
[Adenoma TGLS = 1,2,3-9]		Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 141

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-141

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Mammary Gland	* Nose	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for examination.			
* Adrenal Cortex		Angiectasis	Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	Multiple
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Nervosa	Atypia Cellular	Marked
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 141	TRT#: 3	SEX: Male	DAY ON TEST: 736
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-141

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 2-9a,12]		
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 1-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 142

TRT#: 3

SEX: Male

DAY ON TEST: 713

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	Peripheral Nerve
* Pineal Gland	Skeletal Muscle	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Cyst	Mild
		Leukemia Mononuclear	
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6, 6-14]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-2]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-5]		
* Mammary Gland		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Leukemia Mononuclear	
* Parathyroid Gland		Carcinoma	Metastatic (Thyroid Gland)
Perph Nerve			
Note: Sciatic Nerve is Normal			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 142 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 713
DOSE: 0.02 GAUSS **DISP:** Moribund Sacrifice **HISTO:** 94-5216-142

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
* Prostate		Inflammation	Acute, Mild
		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Atrophy	Marked
* Skin		Keratoacanthoma	
		Leukemia Mononuclear	
	[Keratoacanthoma TGLS = 7-13]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1,2-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3,4-9]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH - Thyroid Gland C Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 143

TRT#: 3

SEX: Male

DAY ON TEST: 550

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Pineal Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Bone Note: Femur is Normal	Maxilla	Osteomalacia	Moderate
* Bone Marrow		Hyperplasia	Mild
* Liver [Necrosis TGLS = 5-6]		Necrosis	Mild
* Lymph Node, Mesenteric Mesentery [Necrosis TGLS = 4-5]	Fat	Infiltration Cellular Necrosis	Histiocyte, Mild Moderate
* Pancreas	Acinus	Atrophy	Focal, Mild
* Preputial Gland [Adenoma TGLS = 1,6-12]		Adenoma	
* Prostate		Atrophy	Mild
* Seminal Vesicle		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Muscularis	Mineralization	Mild
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 143

TRT#: 3

SEX: Male

DAY ON TEST: 550

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-143

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Preputial Gland Adenoma

Animal Note: Lesions 1 and 6 identified grossly as Skin are microscopically identified as occurring in Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 144

TRT#: 3

SEX: Male

DAY ON TEST: 557

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:20

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 145

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-145

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Nephropathy	Minimal
		Atypia Cellular	Focal, Moderate
		Eosinophilic Focus	Minimal
	Bile Duct	Hepatocellular Adenoma	
		Hyperplasia	Mild
		Mixed Cell Focus	Marked
[Atypia Cellular TGLS = 6-14]			
[Hepatocellular Adenoma TGLS = 7-6]			
[Mixed Cell Focus TGLS = 6-14]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate	Epithelium	Atrophy	Mild
		Hyperplasia	Focal, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 145	TRT#: 3	SEX: Male	DAY ON TEST: 736
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-145

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 5-9a,13]	Bilateral	Inflammation Atrophy	Chronic Active, Mild Moderate
* Skin [Fibrosarcoma TGLS = 1-12]	Subcut Tiss	Fibrosarcoma	
* Testes [Adenoma TGLS = 2,3,4-9]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 146

TRT#: 3

SEX: Male

DAY ON TEST: 612

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-146

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Pineal Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum

OBSERVATIONS

* Adren Cortex			
Note: One of pair examined.			
* Adren Medulla			
Note: One of pair examined.			
* Bone	Femur	Hyperostosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 4-12]		
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 146	TRT#: 3	SEX: Male	DAY ON TEST: 612
	DOSE: 0.02 GAUSS	DISP: Natural Death	HISTO: 94-5216-146

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
	Epithelium	Hyperplasia	Focal, Moderate
* Seminal Vesicle		Atrophy	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Glandular		Erosion	Focal, Mild
[Erosion TGLS = 5-4]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 147

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Pineal Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adren Medulla

Note: Only one of pair available for examination.

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Vacuolization Cytoplasmic	Minimal Focal, Mild Focal, Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus Eosinophilic Focus	Minimal Minimal
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-5]		
* Nose		Inflammation	Chronic Active, Mild
	Note: Fungi present in nasal exudate.		
* Pancreas	Acinus	Hyperplasia Infiltration Cellular	Focal, Moderate Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 147	TRT#: 3	SEX: Male	DAY ON TEST: 736
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-147

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate	Bilateral	Inflammation	Chronic, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 4-9a,12]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			
* Urinary Bladder		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 148

TRT#: 3

SEX: Male

DAY ON TEST: 652

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-148

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla	Bilateral	Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-1]		
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
	[Cataract TGLS = 7-13]		
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-14]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-16]		
* Mammary Gland		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 148	TRT#: 3	SEX: Male	DAY ON TEST: 652
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-148

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose Note: Fungi present in nasal exudate.		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Atrophy Inflammation	Mild Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy Leukemia Mononuclear	Marked
[Atrophy TGLS = 4-9a,15]			
[Leukemia Mononuclear TGLS = 4-9a,15]			
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
* Stomach, Forestomach		Edema	Mild
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 149

TRT#: 3

SEX: Male

DAY ON TEST: 613

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-149

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-3]			
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain	Hypothalamus	Compression	Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Moderate
	Bilateral, Renal Tubule	Pigmentation	Mild
[Leukemia Mononuclear TGLS = 2-8]			
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
[Leukemia Mononuclear TGLS = 6-6]		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
* Pancreas	Acinus	Atrophy	Diffuse, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
* Preputial Gland		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 149	TRT#: 3	SEX: Male	DAY ON TEST: 613
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-149

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 5-9a,12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Testes	Bilateral, Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 4-9]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed at Trim, TGL 8-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 150

TRT#: 3

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-150

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

MISSING

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Hyperplasia	Focal, Minimal
	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Moderate
		Mixed Cell Focus	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate	Epithelium	Hyperplasia	Focal, Mild
		Inflammation	Chronic Active, Moderate
Note: See slide 8 for hyperplasia.			
* Salivary Glands	Sublingual GI	Inflammation	Chronic, Minimal
		Mineralization	Minimal
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 150	TRT#: 3	SEX: Male	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-150

ORGAN AND ACCOUNTABLE SITE STATUS

	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Focal, Moderate
[Adenoma TGLS = 1-9]			
[Atrophy TGLS = 2-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 151

TRT#: 13

SEX: Male

DAY ON TEST: 680

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-151

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Salivary Glands
Skeletal Muscle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 4,5-3]			
* Bone	Femur	Hyperostosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Moderate
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Inflammation	Chronic, Focal, Moderate
		Leukemia Mononuclear	
[Inflammation TGLS = 6-13]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
Perph Nerve			
Note: Sciatic Nerve is Normal			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 151	TRT#: 13	SEX: Male	DAY ON TEST: 680
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-151

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Moderate
* Seminal Vesicle		Atrophy	Marked
* Spleen		Fibrosis	Marked
		Leukemia Mononuclear	
	[Fibrosis TGLS = 3-6]		
	[Leukemia Mononuclear TGLS = 2-6]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Focal, Mild
	[Adenoma TGLS = 1-9]		
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 152

TRT#: 13

SEX: Male

DAY ON TEST: 670

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-152

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach			

MISSING

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla	Bilateral	Hyperplasia	Focal, Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
		Inflammation	Chronic, Moderate
		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Mesothelioma Malignant	
* Intestine Small, Duodenum		Mesothelioma Malignant	
* Intestine Small, Ileum		Mesothelioma Malignant	
* Intestine Small, Jejunum		Mesothelioma Malignant	
* Kidney		Leukemia Mononuclear	
		Mesothelioma Malignant	
		Mineralization	Minimal
* Liver	Bilateral	Nephropathy	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mesothelioma Malignant	
		[Leukemia Mononuclear TGLS = 1-6]	
* Lung			
		Note: TGL 5-NCL	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Atrophy	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 152 **TRT#:** 13 **SEX:** Male **DAY ON TEST:** 670
DOSE: 0.02 GAUSS **DISP:** Moribund Sacrifice **HISTO:** 94-5216-152

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland Note: TGL 8-NCL		Mesothelioma Malignant Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Leukemia Mononuclear Inflammation	Acute, Moderate
* Seminal Vesicle [Atrophy TGLS = 2-9a]		Leukemia Mononuclear Atrophy	Marked
* Spleen		Leukemia Mononuclear Mesothelioma Malignant	
* Stomach, Glandular	Glands	Cyst	Minimal
* Testes [Adenoma TGLS = 3,4-9]	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant	
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Cyst	Minimal
Tissue NOS [Carcinoma TGLS = 7-12]	C Cell	Hyperplasia	Focal, Mild
* Trachea	Abdominal	Carcinoma	
		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH - Tissue NOS Abdominal Carcinoma

Animal Note: Cavities, Abdominal, Fluid, Green/Yellow, Viscous Green Yellowish Fluid, TGL 6-N ST

Animal Note: Lesion 7 identified grossly as Mesentery is microscopically identified as occurring in Tissue NOS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 153

TRT#: 13

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pineal Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 4-3]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Mild
* Lung		Pheochromocytoma Malignant	Metastatic (Adrenal Medulla)
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 5-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 153	TRT#: 13	SEX: Male	DAY ON TEST: 736
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-153

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Infiltration Cellular Adenoma	Lymphocyte, Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy Inflammation	Minimal Chronic Active, Mild
* Seminal Vesicle [Atrophy TGLS = 1-9a,12]	Bilateral	Atrophy	Marked
* Testes [Adenoma TGLS = 2,3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 154

TRT#: 13

SEX: Male

DAY ON TEST: 711

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla	Bilateral	Hyperplasia	Focal, Moderate
* Bone	Turbinate	Hyperostosis	Mild
Note: Femur is Normal.			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-1,15]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Adenoma	
		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
[Hepatocellular Adenoma TGLS = 4-13, 5-14]			
[Leukemia Mononuclear TGLS = 9-17]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:20

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 154

TRT#: 13

SEX: Male

DAY ON TEST: 711

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-154

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 3-12]

* Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Parathyroid Gl			
Note: TGL 8-NST			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Mild
* Urinary Bladder		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-8]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 155

TRT#: 13

SEX: Male

DAY ON TEST: 732

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 3-1]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Prostate		Atrophy	Marked
* Seminal Vesicle		Atrophy	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 155

TRT#: 13

SEX: Male

DAY ON TEST: 732

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-155

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-9]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, TGL 4-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 156

TRT#: 13
DOSE: 0.02 GAUSS

SEX: Male
DISP: Natural Death

DAY ON TEST: 606
HISTO: 94-5216-156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-12]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
* Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 2-9a]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 156

TRT#: 13

SEX: Male

DAY ON TEST: 606

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-156

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-9]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:20

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 157

TRT#: 13

SEX: Male

DAY ON TEST: 639

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-157

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Brain
* Intestine Small, Duodenum
* Parathyroid Gland
* Stomach, Glandular
* Urinary Bladder

* Blood Vessel
* Esophagus
* Islets, Pancreatic
* Salivary Glands
* Thymus

* Bone
* Intestine Large, Cecum
* Lung
* Spleen
* Thyroid Gland

* Bone Marrow
* Intestine Large, Rectum
* Lymph Node, Mandibular
* Stomach, Forestomach
* Trachea

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Colon

* Intestine Small, Ileum

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex

Adenoma

* Epididymis

Bilateral, Epithelium

Hyperplasia

Focal, Moderate

* Harderian Gland

Bilateral

Degeneration

Mucoid, Minimal

* Heart

Inflammation

Chronic, Mild

* Kidney

Cardiomyopathy

Mild

* Liver

Bilateral

Mineralization

Minimal

* Lymph Node, Mesenteric

Bile Duct

Nephropathy

Minimal

* Nose

Basophilic Focus

Minimal

Hyperplasia

Moderate

Infiltration Cellular

Histiocyte, Minimal

Inflammation

Chronic Active, Mild

Note: Fungi present in nasal exudate

* Pancreas

Acinus

Atrophy

Focal, Mild

* Pineal Gland

Mineralization

Minimal

* Pituitary Gland

Pars Distalis

Adenoma

* Preputial Gland

Bilateral

Inflammation

Chronic, Minimal

Note: TGL 2-NCL

* Prostate

Inflammation

Chronic Active, Moderate

* Seminal Vesicle

Atrophy

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 157

TRT#: 13

SEX: Male

DAY ON TEST: 639

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-157

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Cyst Epithelial Inclusion
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 1-9]		

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 158

TRT#: 13

SEX: Male

DAY ON TEST: 267

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-158

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Nose	* Pancreas	* Pineal Gland
* Preputial Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Depletion Cellular	Marked
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral, Renal Tubule	Crystals	Mild
	Bilateral, Renal Tubule	Degeneration	Moderate
	Papilla	Necrosis	Marked
* Liver		Basophilic Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lymph Node, Mandibular		Atrophy	Mild
* Lymph Node, Mesenteric		Atrophy	Mild
		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-12]			
* Pituitary Gland	Pars Distalis	Vacuolization Cytoplasmic	Moderate
* Prostate		Atrophy	Moderate
* Seminal Vesicle		Atrophy	Moderate
* Spleen	Lymph Follic	Atrophy	Moderate
[Atrophy TGLS = 2-6]			
* Testes	Bilateral, Germinal Epith	Atrophy	Moderate
		Mineralization	Minimal
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 158

TRT#: 13

SEX: Male

DAY ON TEST: 267

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-158

ORGAN AND ACCOUNTABLE SITE STATUS

Hemorrhage

Mild

[Hemorrhage TGLS = 1-3]

PRIMARY CAUSE OF DEATH

- Kidney Papilla Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:20

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 159

TRT#: 13

SEX: Male

DAY ON TEST: 718

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-159

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

MISSING

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla	Bilateral	Hyperplasia	Focal, Moderate
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart	Atrium	Cardiomyopathy	Mild
		Thrombosis	Mild
	[Thrombosis TGLS = 4-4]		
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Marked
* Seminal Vesicle	Bilateral	Dilatation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 159	TRT#: 13	SEX: Male	DAY ON TEST: 718
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-159

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 2-9a,12]			
* Skin	Dermis	Fibroma	
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Marked
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 160

TRT#: 13

SEX: Male

DAY ON TEST: 659

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-160

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Parathyroid Gland	Peripheral Nerve	* Seminal Vesicle
Skeletal Muscle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Adrenal Medulla	* Pineal Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia Vacuolization Cytoplasmic	Focal, Moderate Focal, Minimal
* Brain			
Note: Brain, Deformity, TGL, 2-NCL			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear Mixed Cell Focus	Moderate Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Galactoceles	Moderate
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate			
* Pancreas	Acinus	Atrophy	Focal, Mild
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 160	TRT#: 13	SEX: Male	DAY ON TEST: 659
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-160

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Salivary Glands	Sublingual GI	Infiltration Cellular	Lymphocyte, Minimal
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 3-2]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, TGL 4-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 161

TRT#: 13

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-161

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Brain			
Note: TGL 4-NCL			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
	Epithelium	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 161	TRT#: 13	SEX: Male	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-161

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 3-9a]		Inflammation	Chronic Active, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Mild
[Atrophy TGLS = 7-9a,12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 162

TRT#: 13

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Preputial Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Nose	* Pituitary Gland
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
Note: Only one available for evaluation.			
[Pheochromocytoma Malignant TGLS = 2-3]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
[Mixed Cell Focus TGLS = 3-6]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose			
Note: 2 original blocks labels #10 unable to define source so did not enter any finding.			
* Prostate		Atrophy	Mild
* Seminal Vesicle		Atrophy	Mild
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 162

TRT#: 13

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-162

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 163

TRT#: 13

SEX: Male

DAY ON TEST: 719

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Skin	* Stomach, Glandular	* Thyroid Gland
Tongue	* Trachea		

MISSING

* Nose	* Pineal Gland
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 163	TRT#: 13	SEX: Male	DAY ON TEST: 719
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-163

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy	Moderate
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	Interstit Cell	Hyperplasia	Focal, Mild
[Adenoma TGLS = 7-9]			
* Thymus		Leukemia Mononuclear	
Tongue			
Note: TGL 5-NCL			
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 164

TRT#: 13

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for examination.			
* Adrenal Cortex		Hyperplasia	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Myelofibrosis	Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Degeneration	Cystic, Focal, Minimal
		Eosinophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
[Hepatodiaphragmatic Nodule TGLS = 4-14]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Marked
		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 164	TRT#: 13	SEX: Male	DAY ON TEST: 736
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-164

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Minimal
[Atrophy TGLS = 2-9a,13]			
* Skin		Cyst Epithelial Inclusion	
	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-12]			
* Spleen		Pigmentation	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	Interstit Cell	Hyperplasia	Focal, Moderate
[Adenoma TGLS = 3-9]			
[Hyperplasia TGLS = 5-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 165

TRT#: 13

SEX: Male

DAY ON TEST: 729

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Int Lg Cecum			
Note: TGL 3-NCL			
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
* Seminal Vesicle		Atrophy	Marked
[Atrophy TGLS = 2-9a,12]			
* Spleen		Congestion	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 165	TRT#: 13	SEX: Male	DAY ON TEST: 729
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-165

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 166

TRT#: 13

SEX: Male

DAY ON TEST: 581

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Moderate
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Necrosis	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Vacuolization Cytoplasmic TGLS = 3-6]		
	Mesentery	Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 6-12]		
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hypertrophy	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Moderate
		Mesothelioma Malignant	
* Seminal Vesicle		Atrophy	Mild
* Spleen	Capsule	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 166	TRT#: 13	SEX: Male	DAY ON TEST: 581
	DOSE: 0.02 GAUSS	DISP: Natural Death	HISTO: 94-5216-166

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 2-6] [Pigmentation TGLS = 2-6]	Capsule	Pigmentation	Focal, Moderate
* Stomach, Glandular [Erosion TGLS = 7-4]		Erosion	Focal, Mild
* Testes [Adenoma TGLS = 4,5-9]	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant	
* Thymus		Hemorrhage	Moderate

PRIMARY CAUSE OF DEATH - Mesentery Mesothelioma Malignant

Animal Note: Lesion 6 identified grossly as Cavities is microscopically identified as occurring in Mesentery.

Animal Note: Cavities, Abdominal, Fluid, ~ 40cc, Brown TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 167

TRT#: 13

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Cyst	Moderate
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	[Alveolar/Bronchiolar Carcinoma TGLS = 5-7]		
* Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 1-2]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Hyperplasia	Focal, Marked
Note: See Slide 5 for Hyperplasia.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 167	TRT#: 13	SEX: Male	DAY ON TEST: 736
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-167

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Hyperplasia	Focal, Marked
	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 4-9a,12]			
* Spleen		Congestion	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 168

TRT#: 13

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	* Pineal Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
Note: Only one Adrenal is available for evaluation.			
[Pheochromocytoma Benign TGLS = 5-3]			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Clear Cell Focus	Minimal
		Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Hyperplasia	Focal, Mild
		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-9a]			
* Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 168	TRT#: 13	SEX: Male	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-168

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands	Parotid G1	Hyperplasia	Focal, Marked
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 169

TRT#: 13

SEX: Male

DAY ON TEST: 729

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
	Bilateral	Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Leukemia Mononuclear	
* Harderian Gland		Degeneration	Mucoid, Mild
		Atrophy	Focal, Mild
* Heart		Leukemia Mononuclear	
		Cardiomyopathy	Moderate
* Kidney	Bilateral	Leukemia Mononuclear	
	Bilateral	Mineralization	Minimal
	Bilateral, Renal Tubule	Nephropathy	Mild
* Liver	Bile Duct	Pigmentation	Moderate
		Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-12]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 169

TRT#: 13

SEX: Male

DAY ON TEST: 729

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-169

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 7-13]

* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	

[Leukemia Mononuclear TGLS = 2-6]

* Testes	Bilateral, Interstit Cell	Adenoma	
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[Adenoma TGLS = 3,4-9]

* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 170

TRT#: 13

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-170

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

MISSING

* Prostate	* Seminal Vesicle	* Urinary Bladder
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia Vacuolization Cytoplasmic	Focal, Marked Focal, Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Pelvis Bilateral	Inflammation Nephropathy	Chronic, Minimal Minimal
* Liver		Angiectasis Basophilic Focus Clear Cell Focus	Focal, Minimal Minimal Mild
	Bile Duct	Hyperplasia Infiltration Cellular Mixed Cell Focus	Minimal Mixed Cell, Minimal Minimal
* Lung		Alveolar/Bronchiolar Carcinoma Infiltration Cellular	Histiocyte, Minimal
	[Alveolar/Bronchiolar Carcinoma TGLS = 1-7]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Acinus	Hyperplasia Infiltration Cellular	Focal, Moderate Lymphocyte, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 170	TRT#: 13	SEX: Male	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-170

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Sem Ves Note: TGL 4-NST			
* Skin [Fibroma TGLS = 3-12]	Subcut Tiss	Fibroma	
* Testes [Adenoma TGLS = 5-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Thyroid Gland [Carcinoma TGLS = 2-2]	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 171

TRT#: 13
DOSE: 0.02 GAUSS

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 526
HISTO: 94-5216-171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Pineal Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Pituitary Gland	* Salivary Glands
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OBSERVATIONS

* Bone Marrow		Depletion Cellular	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung	Interstitial	Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Degeneration	Cystic, Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Marked
* Spleen	Capsule	Inflammation	Chronic, Minimal
		Pigmentation	Mild
[Inflammation TGLS = 1-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Interstitial Cell	Adenoma	
	Interstitial Cell	Hyperplasia	Focal, Moderate
* Thymus		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 172

TRT#: 13

SEX: Male

DAY ON TEST: 544

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-172

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Pineal Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Blood Vessel

OBSERVATIONS

* Adrenal Medulla		Infiltration Cellular	Lymphocyte, Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Metaplasia	Osseous, Focal, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Inflammation	Chronic, Mild
* Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Marked
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Cyst	Minimal
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-12]			
* Stom Gland			
Note: TGL 2-NCL			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 172	TRT#: 13	SEX: Male	DAY ON TEST: 544
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-172

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Mild
	Epithel Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Preputial Gland Adenoma

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as Preputial G land.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 173

TRT#: 13

SEX: Male

DAY ON TEST: 733

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla	Bilateral	Hyperplasia	Focal, Moderate
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Marked
* Skin		Cyst Epithelial Inclusion	Moderate

Note: The cyst was located near the tooth in slide 10 but unable to site the lesion to the gingiva.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 173	TRT#: 13	SEX: Male	DAY ON TEST: 733
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-173

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 2,3-9]	Bilateral, Interstit Cell	Adenoma
Zymbal's Gland [Carcinoma TGLS = 1-12]		Carcinoma

PRIMARY CAUSE OF DEATH - Zymbal's Gland Carcinoma

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Zymbals Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 174

TRT#: 13

SEX: Male

DAY ON TEST: 715

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Pituitary Gland
* Salivary Glands	* Skin		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Nose		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Mild
	Note: Fungi present in nasal exudate.		
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 174	TRT#: 13	SEX: Male	DAY ON TEST: 715
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-174

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Erosion Hyperplasia Inflammation	Focal, Minimal Moderate Chronic Active, Mild
* Stomach, Glandular		Inflammation	Chronic Active, Mild
* Testes [Adenoma TGLS = 3,4-9]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
* Trachea		Inflammation	Chronic Active, Mild
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 175

TRT#: 13

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Skin
* Thyroid Gland	* Urinary Bladder		

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-3]			
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 7-3]			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 175	TRT#: 13	SEX: Male	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-175

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Leukemia Mononuclear	
* Prostate		Atrophy	Moderate
		Inflammation	Acute, Minimal
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4,5-6]		
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-9]		
* Thymus		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-3]		
* Trachea		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

Animal Note: Carcass, Thin, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 176 **TRT#:** 13 **SEX:** Male **DAY ON TEST:** 715
DOSE: 0.02 GAUSS **DISP:** Moribund Sacrifice **HISTO:** 94-5216-176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lung	Interstitialium	Inflammation	Chronic, Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Marked
		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 176	TRT#: 13	SEX: Male	DAY ON TEST: 715
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-176

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Focal, Mild
[Adenoma TGLS = 6-3]			
* Preputial Gland		Adenoma	
	Bilateral	Inflammation	Chronic, Minimal
[Adenoma TGLS = 2-9a]			
* Prostate		Atrophy	Mild
		Inflammation	Chronic Active, Moderate
* Seminal Vesicle		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Capsule	Inflammation	Chronic, Mild
[Inflammation TGLS = 3-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4,5,7-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: Lesion 1 grossly identified in Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 177

TRT#: 13

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Marked
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus Clear Cell Focus	Minimal Mild
	Bile Duct	Hyperplasia Mixed Cell Focus	Mild Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-13]			
* Pancreas	Acinus	Adenoma	
	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Marked
[Hyperplasia TGLS = 5-3]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a,14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 177	TRT#: 13	SEX: Male	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-177

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Hyperplasia TGLS = 1-12]	Epidermis	Hyperplasia	Mild
* Spleen		Depletion Cellular	Focal, Mild
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Nose is microscopically identified as occurring i n Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 178

TRT#: 13

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for examination.			
* Epididymis	Bilateral, Epithelium	Degeneration Inflammation	Mucoid, Mild Chronic, Mild
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
* Liver	Bilateral	Nephropathy Basophilic Focus Clear Cell Focus	Minimal Minimal Mild
	Bile Duct	Hyperplasia Mixed Cell Focus	Moderate Minimal
	[Clear Cell Focus TGLS = 4-6]		
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Focal, Mild Lymphocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland		Hyperplasia	Focal, Marked
* Prostate	Bilateral	Inflammation Atrophy	Chronic, Minimal Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 178

TRT#: 13
DOSE: 0.02 GAUSS

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 736
HISTO: 94-5216-178

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 3-9a,12]	Bilateral	Inflammation Atrophy	Chronic Active, Minimal Marked
* Testes [Adenoma TGLS = 1,2-9]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 179

TRT#: 13

SEX: Male

DAY ON TEST: 734

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
	Bilateral	Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 6-1]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Carcinoma	
		Hyperplasia	Focal, Marked
Note: See Slide 5 for Carcinoma.			
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 4-8]			
* Liver		Eosinophilic Focus	Moderate
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Mammary Gland		Cyst	Mild
[Cyst TGLS = 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 179	TRT#: 13	SEX: Male	DAY ON TEST: 734
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-179

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
* Preputial Gland		Hyperplasia	Focal, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Skin		Keratoacanthoma	
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 8,9,10-2]			
Zymbal's Gland		Adenoma	
[Adenoma TGLS = 1-12]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, TGL 11-NST

Animal Note: Lesion 9 identified grossly as Parathyroid is microscopically identified as occurring in Thyroid.

Animal Note: Lesion 1 identified grossly as Lacrimal Gland is microscopically identified as occurring in Zymbals Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:20

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 180

TRT#: 13

SEX: Male

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Note: Femur is Normal. [Hyperostosis TGLS = 5-13]	Cranium	Hyperostosis	Mild
* Epididymis	Bilateral, Epithelium	Degeneration Inflammation	Mucoid, Mild Granulomatous, Mild
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus Eosinophilic Focus	Minimal Minimal
	Bile Duct	Hyperplasia Infiltration Cellular Mixed Cell Focus	Moderate Mixed Cell, Minimal Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland [Fibroadenoma TGLS = 1-12]		Fibroadenoma	
* Nose	Olfactory Epi	Cytoplasmic Alteration Inflammation	Minimal Chronic, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Inflammation	Granulomatous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 180	TRT#: 13	SEX: Male	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-180

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 4-9a,14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 181

TRT#: 13

SEX: Male

DAY ON TEST: 680

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Diffuse, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-7]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-12]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-2]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-5,14]		
* Mammary Gland		Cyst	Minimal
Perph Nerve			
Note: Sciatic Nerve is Normal.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 181	TRT#: 13	SEX: Male	DAY ON TEST: 680
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-181

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
Skeletal Muscle		Mineralization	Minimal
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6,12; 4-13]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 6,8-9]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 182

TRT#: 13

SEX: Male

DAY ON TEST: 593

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland	* Pineal Gland
---------------------	----------------

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
	[Pigmentation TGLS = 2-8]		
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung	Interstitial	Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Inflammation	Chronic, Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Moderate
* Salivary Glands	Bilateral	Pigmentation	Mild
	Note: Pigment of Salivary Gland represents hemorrhage.		
	[Pigmentation TGLS = 5-2, 12]		
* Seminal Vesicle		Atrophy	Moderate
	[Atrophy TGLS = 3-9a, 13]		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 182	TRT#: 13	SEX: Male	DAY ON TEST: 593
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-182

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-6]			
* Stomach, Glandular		Erosion	Focal, Mild
[Erosion TGLS = 8-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-9]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed at trim, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 183

TRT#: 13

SEX: Male

DAY ON TEST: 682

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Preputial Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Pituitary Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
--------------------------	-----------------------------	--------------------------	----------------------------

OBSERVATIONS

* Adren Cortex			
Note: Only one of pair available for evaluation.			
* Adrenal Medulla		Pheochromocytoma Benign	
Note: Only one of pair available for evaluation.			
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Moderate
Note: TGL 9-NCL			
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
		Necrosis	Marked
[Hepatodiaphragmatic Nodule TGLS = 8-12]			
[Necrosis TGLS = 6-6]			
Lymph Node	Mediastinal	Hemorrhage	Moderate
[Hemorrhage TGLS = 5-13]			
* Lymph Node, Mandibular		Hemorrhage	Mild
[Hemorrhage TGLS = 1-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 183	TRT#: 13	SEX: Male	DAY ON TEST: 682
	DOSE: 0.02 GAUSS	DISP: Natural Death	HISTO: 94-5216-183

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Fungi present in nasal exudate.		Metaplasia	Squamous, Moderate
* Prostate		Atrophy Inflammation	Mild Chronic Active, Mild
* Saliv Glands			
Note: Only parotid portion available for evaluation.			
* Seminal Vesicle		Atrophy	Moderate
* Spleen	Lymph Follic	Atrophy	Mild
[Atrophy TGLS = 4-6]			
* Testes	Interstit Cell Germinal Epith	Adenoma Atrophy	Mild
Note: Only one of pair available had a lesion that corresponded to the bilateral, focus.			
[Adenoma TGLS = 2-9]			
[Atrophy TGLS = 3-9]			
* Thymus		Atrophy	Mild
Note: TGL 7-NCL			

PRIMARY CAUSE OF DEATH - Liver Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 184

TRT#: 13

SEX: Male

DAY ON TEST: 688

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
Skeletal Muscle	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Adrenal Medulla

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-5,13]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Moderate
		Leukemia Mononuclear	
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-3]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 184

TRT#: 13

SEX: Male

DAY ON TEST: 688

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-184

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy Inflammation	Minimal Chronic Active, Moderate
* Seminal Vesicle		Atrophy	Marked
* Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 5-14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-9]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 185

TRT#: 13

SEX: Male

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
		Hematopoietic Cell Proliferation	Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland			
Note: Best section available for examination.			
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Saliv Glands			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 185	TRT#: 13	SEX: Male	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-185

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 1-NCL			
* Seminal Vesicle [Atrophy TGLS = 4-9a,12]	Bilateral	Atrophy	Marked
* Spleen		Pigmentation	Minimal
* Testes [Adenoma TGLS = 2,3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy Cyst	Mild Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 186

TRT#: 13

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Adrenal Medulla

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pineal Gland		Hyperplasia	Focal, Mild
		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-3]		
* Preputial Gland		Hyperplasia	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 186	TRT#: 13	SEX: Male	DAY ON TEST: 736
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-186

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation Atrophy	Acute, Mild Minimal
* Spleen		Inflammation Leukemia Mononuclear	Chronic Active, Mild
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:20
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 187

TRT#: 13

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for examination.			
* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Cyst	Mild
		Leukemia Mononuclear	
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Minimal
[Cyst TGLS = 4-8]			
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Parathyroid Gland		Hyperplasia	Focal, Mild
* Pineal Gland		Mineralization	Mild
* Pituitary Gland		Inflammation	Granulomatous, Mild
[Inflammation TGLS = 6-3]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 187	TRT#: 13	SEX: Male	DAY ON TEST: 736
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-187

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Marked
[Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear	
* Stomach, Glandular	Glands	Cyst	Minimal
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]	Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 2-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 188

TRT#: 13

SEX: Male

DAY ON TEST: 631

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Ileum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Pineal Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adren Cortex			
Note: One of pair examined.			
* Adren Medulla			
Note: One of pair examined.			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
		Mesothelioma Malignant	
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Mesothelioma Malignant	
Note: See slide 12 for tissue.			
* Intestine Small, Duodenum		Mesothelioma Malignant	
* Intestine Small, Jejunum		Mesothelioma Malignant	
* Kidney	Bilateral	Hydronephrosis	Mild
		Mesothelioma Malignant	
		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Marked
[Hydronephrosis TGLS = 2-8]			
* Liver	Bile Duct	Hyperplasia	Minimal
		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 6-6]			
* Lung		Mesothelioma Malignant	
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 188

TRT#: 13

SEX: Male

DAY ON TEST: 631

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-188

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric Mesentery [Mesothelioma Malignant TGLS = 7-12]		Mesothelioma Malignant Mesothelioma Malignant	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas Note: See slide 5 for organ.		Mesothelioma Malignant	
* Preputial Gland	Bilateral Bilateral	Atrophy Inflammation	Mild Chronic, Mild
* Prostate		Mesothelioma Malignant	
* Seminal Vesicle		Atrophy Mesothelioma Malignant Mesothelioma Malignant	Marked
* Spleen Note: TGL 3-NCL [Mesothelioma Malignant TGLS = 4-6]			
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Minimal
* Testes [Adenoma TGLS = 5-9]	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant	
* Thymus		Atrophy	Moderate
* Thyroid Gland		Mineralization	Minimal

PRIMARY CAUSE OF DEATH - Epididymis Mesothelioma Malignant

Animal Note: Carcass, Thin, TGL 8-NST

Animal Note: Cavities, Abdominal, Fluid, Brown, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 189

TRT#: 13

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Preputial Gland

OBSERVATIONS

* Brain [Compression TGLS = 6-1]	Hypothalamus	Compression	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Nephropathy	Minimal
		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland Note: Also see slide 9a for lesion thought to involve inguinal lymph node (L4). [Galactocele TGLS = 3-5, 4-9a]		Galactocele	Moderate
* Pineal Gland		Infiltration Cellular	Lymphocyte, Minimal
		Mineralization	Moderate
* Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma	
* Prostate		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 189	TRT#: 13	SEX: Male	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-189

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Inflammation	Chronic Active, Mild
		Keratoacanthoma	Multiple
	[Keratoacanthoma TGLS = 1-12, 2-13]		
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Germinal Epith	Atrophy	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 190

TRT#: 13

SEX: Male

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1-12, 2-13]		
* Nose		Inflammation	Chronic Active, Mild
	Note: Fungi present in nasal exudate.		
* Pancreas	Acinus	Adenoma	
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-3]		
* Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 190	TRT#: 13	SEX: Male	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-190

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Thymus		Atrophy	Minimal
		Cyst	Minimal
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 191

TRT#: 13
DOSE: 0.02 GAUSS

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 736
HISTO: 94-5216-191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Nose	* Pineal Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic Hyperplasia	Focal, Moderate Focal, Marked
* Adrenal Medulla			
* Brain			
Note: TGL 4-NCL			
* Harderian Gland	Bilateral	Infiltration Cellular Cardiomyopathy	Lymphocyte, Minimal Mild
* Heart			
* Islets, Pancreatic		Adenoma	
* Kidney	Bilateral	Nephropathy	Moderate
[Nephropathy TGLS = 3-8]			
* Liver		Clear Cell Focus Eosinophilic Focus	Minimal Minimal
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Mammary Gland		Cyst	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 191	TRT#: 13	SEX: Male	DAY ON TEST: 736
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-191

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-6]		
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 1-9]		
* Thyroid Gland	C Cell	Adenoma
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 192

TRT#: 13

SEX: Male

DAY ON TEST: 505

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Mild
Note: TGL 3-NCL			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Mild
* Preputial Gland	Bilateral	Adenoma	
[Adenoma TGLS = 1-9a]			
* Seminal Vesicle		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 2-6]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Mild
* Thymus	Epithel Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Preputial Gland Bilateral Adenoma

Animal Note: Carcass, Thin, Found at Retrim, TGL 4-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 193

TRT#: 13

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Necrosis	Mild
		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 9-3]		
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Mesothelioma Malignant	
	Bilateral	Mineralization	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
		Mesothelioma Malignant	
	[Leukemia Mononuclear TGLS = 10-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-7]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 17-16]		
	[Leukemia Mononuclear TGLS = 5-15]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 193

TRT#: 13

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-193

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 16-5]			
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 15-2,15]			
* Nose		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate			
Peritoneum		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 12-16, 4-14, 3-13]			
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Minimal
[Adenoma TGLS = 2-9a]			
* Prostate		Atrophy	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 14-9a,14]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
		Mesothelioma Malignant	
[Leukemia Mononuclear TGLS = 7-6]			
[Mesothelioma Malignant TGLS = 8-6]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
[Adenoma TGLS = 11,13-9]			
* Thyroid Gland	Bilateral, C Cell	Adenoma	
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 12 grossly identified as Cavities is microscopically identified as occurring in Peritoneum.

Animal Note: Lesion 4 grossly identified as Cavities is microscopically identified as Peritoneum.

Animal Note: Lesion 3 grossly identified as Skeletal Muscle is microscopically identified as Peritoneum.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 194

TRT#: 13

SEX: Male

DAY ON TEST: 726

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Adrenal Medulla	* Pituitary Gland
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AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Moderate
* Harderian Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver	Bilateral, Renal Tubule Bile Duct	Pigmentation Hyperplasia Leukemia Mononuclear	Mild Moderate
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-5]		
* Mammary Gland		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Mild
* Preputial Gland		Leukemia Mononuclear	
Note: Only one preputial gland examined			
* Prostate		Atrophy	Moderate
* Seminal Vesicle		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 194	TRT#: 13	SEX: Male	DAY ON TEST: 726
	DOSE: 0.02 GAUSS	DISP: Natural Death	HISTO: 94-5216-194

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear	
* Stomach, Forestomach		Leukemia Mononuclear Ulcer	Moderate
* Stomach, Glandular		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 1-9] [Atrophy TGLS = 2-9]	Interstit Cell Germinal Epith	Adenoma Atrophy	Moderate
* Thymus [Leukemia Mononuclear TGLS = 6-3]		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Cavity, Thoracic, Fluid, Red, TGL NST-4

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 195

TRT#: 13

SEX: Male

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
		Necrosis	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-13]			
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 195	TRT#: 13	SEX: Male	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-195

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Mild Chronic Active, Mild
* Seminal Vesicle [Atrophy TGLS = 3-9a,14]	Bilateral	Atrophy	Moderate
* Testes [Adenoma TGLS = 4,5-9]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 196

TRT#: 13

SEX: Male

DAY ON TEST: 624

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-196

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hematopoietic Cell Proliferation	Minimal Minimal
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus Eosinophilic Focus	Minimal Minimal
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Fibrosis	Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Atrophy	Moderate
* Seminal Vesicle	Bilateral	Atrophy	Marked
	[Atrophy TGLS = 4-9a,12]		
* Skin	Subcut Tiss	Inflammation	Chronic, Mild
	Subcut Tiss	Sarcoma	
	[Sarcoma TGLS = 1-13]		
* Spleen		Fibrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 196	TRT#: 13	SEX: Male	DAY ON TEST: 624
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-196

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 5-6]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 3-9]			
[Atrophy TGLS = 2-9]			
* Thymus	Epithel Cell	Hyperplasia	Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Sarcoma

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as oc curring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 197

TRT#: 13

SEX: Male

DAY ON TEST: 736

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
[Mixed Cell Focus TGLS = 3-6]			
* Lung		Melanoma Malignant	Metastatic (Skin)
[Melanoma Malignant TGLS = 4-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pituitary Gland			
Note: Best Section of Tissue.			
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Marked
* Skin	Subcut Tiss	Melanoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 197	TRT#: 13	SEX: Male	DAY ON TEST: 736
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-197

ORGAN AND ACCOUNTABLE SITE STATUS

[Melanoma Malignant TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 198

TRT#: 13

SEX: Male

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-198

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-12]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Atrophy	Mild
	Epithelium	Hyperplasia	Focal, Moderate
		Inflammation	Chronic, Minimal
* Seminal Vesicle		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 198	TRT#: 13	SEX: Male	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-198

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Fibrosis	Mild
		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 199

TRT#: 13

SEX: Male

DAY ON TEST: 329

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	* Pineal Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea

MISSING

* Thymus

OBSERVATIONS

* Blood Vessel		Mineralization	Mild
* Heart		Cardiomyopathy	Mild
	Artery	Mineralization	Mild
* Kidney	Bilateral, Renal Tubule	Degeneration	Moderate
	Bilateral, Papilla	Necrosis	Moderate
* Lung		Congestion	Mild
	[Congestion TGLS = 2-7]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Respirat Epith	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Marked
	Note: The section of urinary bladder includes inflamed prostate as does the tissues in 12RT identified at retrim as possible thymus.		
* Seminal Vesicle		Inflammation	Acute, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Thymus			
	Note: TGL 1-NST		
* Urinary Bladder		Ulcer	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 199

TRT#: 13

SEX: Male

DAY ON TEST: 329

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-199

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 3,4-8,12]

PRIMARY CAUSE OF DEATH

- Prostate Inflammation

Animal Note: Cavities, Abdominal, Fluid, Dark, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 200

TRT#: 13

SEX: Male

DAY ON TEST: 630

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney	Bilateral	Mineralization	Minimal
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibrosis	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Minimal
* Seminal Vesicle		Atrophy	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2,3,4-9]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 200

TRT#: 13

SEX: Male

DAY ON TEST: 630

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-200

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 201

TRT#: 5

SEX: Male

DAY ON TEST: 696

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-201

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Preputial Gland	* Salivary Glands	* Skin
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Moderate
* Harderian Gland		Atrophy	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Edema	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hepatocellular Adenoma TGLS = 4-6]		
	[Leukemia Mononuclear TGLS = 3-6]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Nose		Inflammation	Chronic Active, Moderate
	Note: Fungi present in nasal exudate		
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 201	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Natural Death	DAY ON TEST: 696 HISTO: 94-5216-201
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 2-9a,12]	Bilateral	Inflammation Atrophy	Chronic Active, Minimal Moderate
* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Stomach, Glandular		Erosion	Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	Bilateral, C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 202

TRT#: 5

SEX: Male

DAY ON TEST: 725

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-202

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Parathyroid Gland
Peripheral Nerve	* Salivary Glands	Skeletal Muscle	* Skin
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Focal, Marked
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Moderate
[Thrombosis TGLS = 6-4]			
* Islets, Pancreatic		Hyperplasia	Focal, Marked
* Kidney		Leukemia Mononuclear	
	Bilateral	Mineralization	Minimal
	Bilateral, Renal Tubule	Nephropathy	Mild
* Liver	Bile Duct	Pigmentation	Moderate
		Hyperplasia	Marked
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6,13; 5-13]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 202	TRT#: 5	SEX: Male	DAY ON TEST: 725
	DOSE: 2 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-202

ORGAN AND ACCOUNTABLE SITE STATUS

Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Moderate
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 1-9]			
[Atrophy TGLS = 2-9]			
* Thymus		Atrophy	Marked
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 203

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Hematopoietic Cell Proliferation Hyperplasia	Minimal Focal, Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular Inflammation	Lymphocyte, Minimal Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral Bilateral	Mineralization Nephropathy	Minimal Mild
* Liver		Basophilic Focus Clear Cell Focus Bile Duct Hepatocyte	Minimal Mild Mild Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus Acinus	Atrophy Hyperplasia Infiltration Cellular	Focal, Minimal Focal, Moderate Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Preputial Gland		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 203

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-203

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy	Mild
* Seminal Vesicle		Atrophy	Mild
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 5-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2,3-9]			
* Thymus		Atrophy	Moderate
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 204

TRT#: 5

SEX: Male

DAY ON TEST: 539

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	Skeletal Muscle	Spinal Cord	* Thyroid Gland
* Trachea			

MISSING

* Pineal Gland

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 6-12]			
* Harderian Gland		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-5]			
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5,7-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
Note: Fungi present in nasal exudate.			
* Pancreas		Leukemia Mononuclear	
Perph Nerve			
Note: Sciatic Nerve is normal.			
* Preputial Gland		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 204	TRT#: 5	SEX: Male	DAY ON TEST: 539
	DOSE: 2 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-204

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Atrophy	Mild
Note: Only one available for evaluation. [Atrophy TGLS = 3-9a]			
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Erosion	Focal, Mild
[Leukemia Mononuclear TGLS = 11-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 8-9]			
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: No TGL 4 due to recording error on Individual Animal Necropsy Record.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 205

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Parathyroid Gland	* Pineal Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Marked
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Adenoma	
	Acinus	Hyperplasia	Focal, Mild
	Note: For Acinar Cell Hyperplasia see slide 5.		
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
	[Atrophy TGLS = 3-9a,12]		
* Skin	Dermis	Fibroma	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 205

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-205

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 4-9]	Bilateral, Interstit Cell	Adenoma
* Thymus		Leukemia Mononuclear
* Thyroid Gland	Bilateral, C Cell	Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 206

TRT#: 5

SEX: Male

DAY ON TEST: 621

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Marked
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Mesothelioma Malignant	
* Heart	Atrium	Thrombosis	Minimal
* Intestine Large, Rectum		Mesothelioma Malignant	
* Intestine Small, Duodenum		Mesothelioma Malignant	
* Kidney	Bilateral, Renal Tubule	Degeneration	Mild
	Bilateral, Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 1-8]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Necrosis	Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Vacuolization Cytoplasmic TGLS = 2-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 4-12]			
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in lumen.			
* Pancreas		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 3-2]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Preputial Gland		Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 206	TRT#: 5	SEX: Male	DAY ON TEST: 621
	DOSE: 2 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-206

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy Mesothelioma Malignant	Marked
* Seminal Vesicle		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation Mesothelioma Malignant	Mild
* Stomach, Glandular		Mesothelioma Malignant	
* Testes	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant	
	[Adenoma TGLS = 7-9]		
* Thymus		Atrophy	Moderate
	Epithel Cell	Hyperplasia	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH - Mesentery Mesothelioma Malignant

Animal Note: Cavities, Abdominal, Fluid, 150cc, Red, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 207

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Pineal Gland

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
	[Mixed Cell Focus TGLS = 4-15]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 1-12]		
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Atrophy	Minimal
	Epithelium	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 207	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-207
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 3-9a,13]	Bilateral	Inflammation Atrophy	Chronic Active, Minimal Moderate
* Spleen		Congestion	Minimal
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy Cyst	Mild Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 208

TRT#: 5

SEX: Male

DAY ON TEST: 718

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	Peripheral Nerve	* Salivary Glands	Skeletal Muscle
* Skin	Spinal Cord	* Trachea	* Urinary Bladder

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla	Bilateral	Hyperplasia	Focal, Marked
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-6]	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	

Note: See slide 5 for acinar cell hyperplasia.

Perph Nerve

Note: Sciatic Nerve is Normal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 208

TRT#: 5

SEX: Male

DAY ON TEST: 718

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-208

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
Note: TGL 2-NCL			
[Leukemia Mononuclear TGLS = 1-6,14]			
* Stomach, Forestomach		Edema	Mild
* Stomach, Glandular		Edema	Minimal
		Erosion	Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 209

TRT#: 5

SEX: Male

DAY ON TEST: 652

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-8]			
* Liver	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 6-13]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 2-9a,12]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 209

TRT#: 5

SEX: Male

DAY ON TEST: 652

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-209

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 5-9]

* Thymus

Leukemia Mononuclear

* Trachea

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 210

TRT#: 5

SEX: Male

DAY ON TEST: 687

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Marked
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 4-13]		
* Nose		Foreign Body	
	Nasolacrim Dct	Inflammation	Chronic, Mild
		Inflammation	Chronic, Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 210	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 687 HISTO: 94-5216-210
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Pars Distalis	Hypertrophy Hyperplasia	Focal, Minimal Focal, Marked
* Prostate	Bilateral	Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Minimal
[Atrophy TGLS = 2-9a,12]		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 4 identified grossly as Tissue NOS is microscopically identified as occur ring in Mesentery.

Animal Note: Carcass, Thin, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 211

TRT#: 5

SEX: Male

DAY ON TEST: 649

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-211

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Atrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Mild
	Bile Duct	Hyperplasia	Mild
		Necrosis	Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
[Necrosis TGLS = 4-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Minimal
* Seminal Vesicle		Atrophy	Marked
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-12]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 211

TRT#: 5

SEX: Male

DAY ON TEST: 649

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-211

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2,3-9]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 212

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-212

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign Pheochromocytoma Complex	
[Pheochromocytoma Complex TGLS = 3-3]			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-5]			
* Mammary Gland		Fibroadenoma	
* Nose	Olfactory Epi	Cytoplasmic Alteration Inflammation	Minimal Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy Leukemia Mononuclear	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 212	TRT#: 5	SEX: Male	DAY ON TEST: 731
	DOSE: 2 GAUSS	DISP: Natural Death	HISTO: 94-5216-212

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Moderate
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Minimal
		Inflammation	Acute, Minimal
		Leukemia Mononuclear	
* Seminal Vesicle	Bilateral	Atrophy	Marked
		Leukemia Mononuclear	
[Atrophy TGLS = 8-9a,12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Glandular		Erosion	Focal, Mild
[Erosion TGLS = 10-13]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Focal, Minimal
[Adenoma TGLS = 6,7-9]			
[Atrophy TGLS = 5-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	Bilateral, C Cell	Adenoma	
* Trachea		Inflammation	Chronic, Mild
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 213

TRT#: 5

SEX: Male

DAY ON TEST: 724

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland			

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
		Inflammation	Chronic Active, Mild
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Note: The lymph node represented is the pancreatic lymph node.		
	[Leukemia Mononuclear TGLS = 9-12]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 8-3]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 213

TRT#: 5

SEX: Male

DAY ON TEST: 724

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-213

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Preputial Gland		Adenoma Inflammation	Chronic, Mild
[Adenoma TGLS = 1-9a]			
* Prostate		Atrophy	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 7-9a,12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4,5,6-9]			
* Thymus		Leukemia Mononuclear	
* Trachea		Inflammation	Chronic, Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 214

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-214

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland		

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Marked
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Minimal
		[Hyperplasia TGLS = 5-7]	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
		[Hyperplasia TGLS = 4-2]	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 2-13]	
Mesentery	Fat	Necrosis	Moderate
		[Necrosis TGLS = 6-14]	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 214	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-214
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
* Seminal Vesicle		Atrophy	Moderate
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-12]			
* Spleen		Congestion	Mild
		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Trachea		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 6 identified grossly as Mesenteric Lymph Node is microscopically identified as occurring in Mesentery.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 215

TRT#: 5
DOSE: 2 GAUSS

SEX: Male
DISP: Natural Death

DAY ON TEST: 672
HISTO: 94-5216-215

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain	Cerebrum	Necrosis	Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Moderate
		Mesothelioma Malignant	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Marked
	[Cardiomyopathy TGLS = 1-4]		
	[Thrombosis TGLS = 9-4]		
* Kidney	Bilateral	Nephropathy	Moderate
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-7]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 215	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Natural Death	DAY ON TEST: 672 HISTO: 94-5216-215
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy Mesothelioma Malignant	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Marked
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 4-9a,12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Testes	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant	
[Adenoma TGLS = 6,7-9]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Cavities, Abdominal, Fluid, Red, TGL 8-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 216

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia Vacuolization Cytoplasmic	Focal, Minimal Focal, Minimal
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Int Sm Jejunum			
Note: TGL 4-NCL			
* Kidney	Bilateral Bilateral	Mineralization Nephropathy	Minimal Minimal
* Liver		Basophilic Focus Clear Cell Focus Eosinophilic Focus	Minimal Minimal Minimal
	Bile Duct	Hyperplasia	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-9a]			
* Prostate		Inflammation	Chronic, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a,12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 216

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-216

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 2-9]		
* Thyroid Gland	C Cell	Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 217

TRT#: 5

SEX: Male

DAY ON TEST: 726

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-217

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Epithelium	Hyperplasia	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Inflammation	Chronic, Mild
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Carcinoma	
	[Carcinoma TGLS = 4-3]		
* Preputial Gland		Adenoma	
* Prostate		Inflammation	Chronic Active, Moderate
* Skin		Keratoacanthoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 217

TRT#: 5

SEX: Male

DAY ON TEST: 726

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-217

ORGAN AND ACCOUNTABLE SITE STATUS

Note: (tail)

[Keratoacanthoma TGLS = 1-12]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 5-9]

* Trachea

Inflammation

Chronic, Minimal

* Urin Bladder

Note: See slide 5 for tissue.

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 218

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-218

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
Note: See Slide 5 for Lesion			
* Kidney	Bilateral	Leukemia Mononuclear	
	Bilateral	Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hepatocellular Adenoma	
		Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
[Hepatocellular Adenoma TGLS = 7-12]			
[Leukemia Mononuclear TGLS = 6-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 218	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-218
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ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Atrophy Hyperplasia Inflammation	Moderate Focal, Mild Chronic Active, Mild
* Seminal Vesicle	Bilateral	Adenoma Atrophy	Marked
[Atrophy TGLS = 3-9a,12]			
* Skin	Sebaceous Gl	Adenoma	
[Adenoma TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Testes	Interstit Cell Germinal Epith	Adenoma Atrophy Mineralization	Marked Mild
[Adenoma TGLS = 4-9]			
[Atrophy TGLS = 2-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 219

TRT#: 5

SEX: Male

DAY ON TEST: 720

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-219

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Bone	Femur	Hyperostosis	Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Mild
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Necrosis	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
* Nose		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Mild
* Seminal Vesicle		Atrophy	Marked
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-12]			
* Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 219	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Natural Death	DAY ON TEST: 720 HISTO: 94-5216-219
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ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell Germinal Epith Interstit Cell	Adenoma Atrophy Hyperplasia	Mild Focal, Mild
[Adenoma TGLS = 3-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia Ultimobranchial Cyst	Focal, Moderate Marked
[Ultimobranchial Cyst TGLS = 4-2]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Lesion 4 identified grossly as Parathyroid is microscopically identified as occu rring in Thyroid.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 220

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
	Bilateral	Hypertrophy	Focal, Mild
		Pigmentation	Minimal
		Vacuolization Cytoplasmic	Focal, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle		Atrophy	Moderate
* Testes	Bilateral, Germinal Epith	Atrophy	Marked
* Thymus			
Note: Only a limited sample was available for examination.			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 221

TRT#: 5

SEX: Male

DAY ON TEST: 477

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hematopoietic Cell Proliferation	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 1-12]			
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 3-6]			
* Testes	Bilateral, Interstit Cell	Hyperplasia	Focal, Moderate
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Preputial Gland Carcinoma

Animal Note: Lesion 2 identified grossly as Tissue NOS is microscopically identified as occur ring in Mesentery.

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 222

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-222

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Moderate
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Respirat Epith	Cyst	Minimal
* Pineal Gland		Infiltration Cellular	Lymphocyte, Minimal
		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-6,12, 4-12]	
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 222	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-222
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1,2-9]			
* Thymus		Atrophy	Minimal
	Epithel Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Trachea	Glands	Cyst	Mild
		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 223

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-223

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Atrophy	Focal, Mild
	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 3-13]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Degeneration	Cystic, Minimal
		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Moderate
		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 223	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-223
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Minimal
	Epithelium	Hyperplasia	Focal, Mild
* Seminal Vesicle		Atrophy	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thyroid Gland	C Cell	Adenoma	
Tooth	Gingiva	Inflammation	Chronic Active, Mild
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 224

TRT#: 5

SEX: Male

DAY ON TEST: 694

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-224

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
		Leukemia Mononuclear	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Leukemia Mononuclear	
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 7-6]	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	Epithelium	Hyperplasia	Mild
		Leukemia Mononuclear	
		[Fibroadenoma TGLS = 8-13]	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Rathkes Cleft	Cyst	Mild
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 9-3]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 224	TRT#: 5	SEX: Male	DAY ON TEST: 694
	DOSE: 2 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-224

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic, Moderate
* Prostate		Atrophy	Minimal
[Atrophy TGLS = 6-9a]			
* Seminal Vesicle		Atrophy	Marked
[Atrophy TGLS = 5-9a]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Mild
[Hyperplasia TGLS = 11-13]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 2-9,12, 3-9]			
[Atrophy TGLS = 4-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 10-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 225

TRT#: 5

SEX: Male

DAY ON TEST: 606

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-225

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

* Bone	Femur	Osteosarcoma	Metastatic (Bone)
	Maxilla	Osteosarcoma	
	[Osteosarcoma TGLS = 2-12]		
* Bone Marrow		Necrosis	Marked
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
		Osteosarcoma	Metastatic (Bone)
* Liver		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
	[Eosinophilic Focus TGLS = 5-13]		
* Lung		Osteosarcoma	Metastatic (Bone)
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Nose	Nasolacrim Dct	Inflammation	Acute, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 225	TRT#: 5	SEX: Male	DAY ON TEST: 606
	DOSE: 2 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-225

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1,3-9]

* Thyroid Gland Zymbals GI	C Cell	Hyperplasia	Focal, Minimal
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Note: The lesion (mass) identified at necropsy as involving the Zymbals Gland actually involved bone, probably maxilla.

PRIMARY CAUSE OF DEATH - Bone Femur Osteosarcoma Bone

Animal Note: Carcass, Thin, Observed at Trim, TGL 4-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 226

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 2-3]		
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 6-12]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Inflammation	Chronic Active, Mild
	Note: Fungi present in nasal exudate.		
* Pancreas	Acinus	Adenoma	
	Acinus	Atrophy	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 226	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-226
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ORGAN AND ACCOUNTABLE SITE STATUS

	Acinus	Hyperplasia	Focal, Mild
		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
		Inflammation	Chronic, Mild
* Seminal Vesicle		Atrophy	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3,4,5-9]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 227

TRT#: 5

SEX: Male

DAY ON TEST: 405

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pineal Gland
* Preputial Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Trachea	

MISSING

* Blood Vessel	* Islets, Pancreatic	* Pancreas
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Jejunum
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OBSERVATIONS

* Bone Marrow		Depletion Cellular	Moderate
* Brain			
Note: Portion of brain missing (cerebellum).			
* Epididymis	Bilateral	Inflammation	Acute, Moderate
* Kidney			
Note: TGL 1-NCL			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-2]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Marked
* Prostate		Inflammation	Acute, Marked
* Seminal Vesicle		Atrophy	Moderate
		Inflammation	Acute, Mild
* Spleen			
Note: TGL 3-NCL			
* Stomach, Forestomach		Inflammation	Acute, Mild
[Inflammation TGLS = 4-4]			
* Testes	Bilateral, Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 5-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 227

TRT#: 5

SEX: Male

DAY ON TEST: 405

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-227

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

Hemorrhage

Mild

* Urinary Bladder

Inflammation

Acute, Marked

PRIMARY CAUSE OF DEATH

- Prostate Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 228

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Bone	Femur	Hyperostosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Marked
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Degeneration	Cystic, Focal, Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	Mild
[Eosinophilic Focus TGLS = 5-15]			
[Mixed Cell Focus TGLS = 4-14]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 228	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-228
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ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 9a,13]			
* Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 229

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Atrophy	Focal, Minimal
	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Focal, Marked
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Hepatocellular Adenoma TGLS = 6-14]		
	[Leukemia Mononuclear TGLS = 5,7-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Degeneration	Cystic, Marked
		Hyperplasia	Lymphoid, Mild
	[Degeneration TGLS = 2-2]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 229	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-229
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Seminal Vesicle [Atrophy TGLS = 8-9a,15]	Bilateral	Atrophy	Mild
Skeletal Muscle Note: The lesion has histological features of a fibroma; however, term not available. [Sarcoma TGLS = 3-13]		Sarcoma	
* Skin Note: This lesion involves a digit. [Keratoacanthoma TGLS = 1-12]		Keratoacanthoma	
* Spleen [Leukemia Mononuclear TGLS = 4-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 9,10-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 230

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Hyperplasia	Focal, Marked
		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 5-6]			
[Hyperplasia TGLS = 5-6]			
* Lung	Bronchus	Inflammation	Chronic Active, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Marked
[Degeneration TGLS = 1-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Adenoma	
[Adenoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 230	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-230
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Marked
* Seminal Vesicle [Atrophy TGLS = 2-9a,12]	Bilateral	Atrophy	Marked
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes [Adenoma TGLS = 3,4-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Minimal
* Thyroid Gland [Adenoma TGLS = 7-2]	C Cell C Cell	Adenoma Hyperplasia	Focal, Moderate
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 231

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Atrophy	Focal, Mild
		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Angiectasis	Focal, Moderate
		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6,14]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 231	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-231
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Moderate
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 4-9a,12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 232

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Degeneration	Cystic, Focal, Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Infiltration Cellular	Lymphocyte, Minimal
		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Marked
* Seminal Vesicle		Adenoma	
		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 232

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-232

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thymus		Thymoma Benign	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 233

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Hyperplasia	Focal, Minimal
	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Marked
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Parathyroid Gland		Adenoma	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Fibroma	
Note: One of pair examined.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 233	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-233
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ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy	Minimal
* Seminal Vesicle Note: TGL 5-NCL	Bilateral	Atrophy	Marked
* Spleen		Pigmentation	Moderate
* Testes [Adenoma TGLS = 4-9] [Atrophy TGLS = 3-9]	Interstit Cell Germinal Epith	Adenoma Atrophy	Marked
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 234

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-234

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Brain			
Note: TGL 5-NCL			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Mixed Cell Focus	Minimal
[Vacuolization Cytoplasmic TGLS = 6-15]		Vacuolization Cytoplasmic	Focal, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
Note: TGL 4-NCL			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 234	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-234
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Accessory Spleen TGLS = 2-13]		Accessory Spleen Pigmentation	Mild
* Testes [Adenoma TGLS = 3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 235

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular		

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain	Hypothalamus	Compression	Minimal
		Leukemia Mononuclear	
		[Compression TGLS = 8-1]	
		[Leukemia Mononuclear TGLS = 9-13]	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 6-6]	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Galactocele	Marked
		[Galactocele TGLS = 1-12]	
Mesentery	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:21

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 235

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-235

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 11-15]

* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	

[Carcinoma TGLS = 7-3,3.1]

* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Seminal Vesicle		Atrophy	Marked
* Skin	Subcut Tiss	Sarcoma	

[Sarcoma TGLS = 10-14]

* Spleen		Leukemia Mononuclear	
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[Leukemia Mononuclear TGLS = 5-6]

* Testes	Bilateral, Interstit Cell	Adenoma	
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[Adenoma TGLS = 2,3,4-9]

* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Trachea		Inflammation	Chronic, Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 236

TRT#: 5

SEX: Male

DAY ON TEST: 489

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-236

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea			

MISSING

* Pineal Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Mixed Cell Focus TGLS = 4-13]		
* Lung		Congestion	Moderate
	[Congestion TGLS = 1-7]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Adenoma	
	[Adenoma TGLS = 2-9a]		
* Prostate		Inflammation	Chronic Active, Mild
* Spleen	Lymph Follic	Atrophy	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Inflammation	Acute, Mild
	[Inflammation TGLS = 3-8]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 236

TRT#: 5

SEX: Male

DAY ON TEST: 489

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-236

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Preputial Gland Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:21

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 237

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-237

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea			

MISSING

* Parathyroid Gland	* Pituitary Gland
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OBSERVATIONS

* Adren Cortex			
Note: Only One Adrenal Cortex Examined			
* Adren Medulla			
Note: Only One Adrenal Medulla Examined			
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
[Basophilic Focus TGLS = 4-6]			
[Hepatodiaphragmatic Nodule TGLS = 5-6]			
* Lymph Node, Mandibular		Degeneration	Cystic, Marked
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic, Mild
		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate			
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 237	TRT#: 5	SEX: Male	DAY ON TEST: 737
	DOSE: 2 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-237

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Hyperplasia	Focal, Moderate
	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Marked
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a,12]			
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 6-13]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 238

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Pineal Gland

OBSERVATIONS

* Epididymis	Epithelium	Degeneration Inflammation	Mucoid, Minimal Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral Bilateral, Renal Tubule	Nephropathy Pigmentation	Mild Minimal
* Liver		Basophilic Focus Clear Cell Focus Eosinophilic Focus	Mild Mild Minimal
	Bile Duct	Hyperplasia Infiltration Cellular Mixed Cell Focus	Mild Mixed Cell, Minimal Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Nasolacrim Dct	Inflammation Inflammation	Chronic, Mild Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 238

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-238

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 3-9a,12]

* Spleen

Note: TGL 4-NCL

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1,2-9]

* Urin Bladder

Note: See slide 9a for tissue.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 239

TRT#: 5

SEX: Male

DAY ON TEST: 617

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-239

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Mild
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-12]			
* Prostate		Atrophy	Mild
* Seminal Vesicle		Atrophy	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3,4-6]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus	Epithel Cell	Atrophy	Mild
	C Cell	Hyperplasia	Minimal
* Thyroid Gland		Adenoma	
		Ultimobranchial Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 239

TRT#: 5

SEX: Male

DAY ON TEST: 617

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-239

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Preputial Gland Adenoma

Animal Note: Lesion 1 grossly identified as Mammary Gland is microscopically identified as occurring in Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 240	TRT#: 5	SEX: Male	DAY ON TEST: 687
	DOSE: 2 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-240

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone	Femur	Hyperostosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
		Mesothelioma Malignant	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Atrophy	Moderate
* Seminal Vesicle	Bilateral	Atrophy	Moderate
	[Atrophy TGLS = 1-9a,12]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 240	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 687 HISTO: 94-5216-240
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ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Dermis	Fibroma	
* Spleen [Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 241

TRT#: 5

SEX: Male

DAY ON TEST: 568

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Diffuse, Minimal
* Adrenal Medulla		Thrombosis	Minimal
* Bone Marrow		Hyperplasia	Mild
		Necrosis	Minimal
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Mesothelioma Malignant	
* Intestine Small, Duodenum		Inflammation	Acute, Minimal
		Mesothelioma Malignant	
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Moderate
	[Pigmentation TGLS = 4-8]		
* Liver		Necrosis	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Vacuolization Cytoplasmic TGLS = 3-6]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 7-12]		
* Nose		Inflammation	Chronic Active, Mild
* Pineal Gland		Mineralization	Mild
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 241	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 568 HISTO: 94-5216-241
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy Mesothelioma Malignant	Moderate
* Spleen Note: TGL 2-NCL		Mesothelioma Malignant	
* Stomach, Forestomach		Mesothelioma Malignant	
* Stomach, Glandular		Erosion Mesothelioma Malignant	Focal, Minimal
* Testes Note: TGL 6-NST [Adenoma TGLS = 5-9]	Interstit Cell Interstit Cell	Adenoma Hyperplasia Mesothelioma Malignant	Focal, Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH - Mesentery Mesothelioma Malignant

Animal Note: Cavities, Abdominal, Fluid, 150ml, Brown, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 242

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-242

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
	Epithelium	Hyperplasia	Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Mild
		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Mild
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 5-12]			
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 242	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-242
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ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1,2,3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Minimal
* Thyroid Gland	Bilateral, C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 243

TRT#: 5

SEX: Male

DAY ON TEST: 496

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-243

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Pineal Gland

OBSERVATIONS

* Bone Marrow		Depletion Cellular	Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart	Atrium	Thrombosis	Marked
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Vacuolization Cytoplasmic TGLS = 1-6]		
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
	Interstitialium	Inflammation	Chronic, Mild
	[Inflammation TGLS = 2-7]		
* Lymph Node, Mandibular		Fibrosis	Minimal
* Nose	Respirat Epith	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
* Seminal Vesicle		Atrophy	Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 243

TRT#: 5

SEX: Male

DAY ON TEST: 496

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-243

ORGAN AND ACCOUNTABLE SITE STATUS

Note: The size reduction described at necropsy was evident bilaterally.

[Adenoma TGLS = 4-9]

* Thymus

Atrophy

Moderate

Note: TGL 3-NCL

PRIMARY CAUSE OF DEATH

- Heart Atrium Thrombosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 244

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Pineal Gland

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Hyperplasia	Focal, Moderate
		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland			
Note: TGL 3-NST			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 2-9a,12]			
* Skin	Dermis	Fibroma	
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 244

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-244

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes
[Adenoma TGLS = 1-9]

Bilateral, Interstit Cell

Adenoma

* Thymus

Atrophy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 245

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-245

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Salivary Glands	Skeletal Muscle	Spinal Cord
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
[Degeneration TGLS = 4-NCL]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart	Atrium	Cardiomyopathy	Mild
[Thrombosis TGLS = 6-4]		Thrombosis	Moderate
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral, Renal Tubule	Nephropathy	Minimal
		Pigmentation	Moderate
* Liver	Bile Duct	Degeneration	Cystic, Focal, Minimal
		Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Marked
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Cyst	Minimal
		Hyperplasia	Focal, Moderate
Perph Nerve			
Note: Sciatic Nerve is Normal			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 245	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 728 HISTO: 94-5216-245
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 2-9a,13]			
* Skin		Keratoacanthoma	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Stomach, Glandular		Erosion	Focal, Mild
[Erosion TGLS = 8-15]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,5-9]			
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Heart Atrium Thrombosis

Animal Note: Carcass, Thin, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 246

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Mammary Gland	* Parathyroid Gland	* Pineal Gland	* Prostate
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Marked
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	Moderate
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 246	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-246
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 3-9a,13]	Bilateral	Atrophy	Marked
* Skin [Inflammation TGLS = 4-12]		Inflammation	Chronic Active, Mild
* Spleen [Leukemia Mononuclear TGLS = 1-6a]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 247

TRT#: 5

SEX: Male

DAY ON TEST: 645

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Parathyroid Gland
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone	Cranium	Hyperostosis	Minimal
	Femur	Hyperostosis	Minimal
[Hyperostosis TGLS = 9-13]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral, Renal Tubule	Pigmentation	Marked
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
* Mammary Gland		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 247

TRT#: 5

SEX: Male

DAY ON TEST: 645

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-247

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Cytoplasmic Alteration Inflammation	Minimal Chronic, Mild
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-3]			
* Preputial Gland	Bilateral	Inflammation Leukemia Mononuclear	Chronic, Mild
* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-12]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Focal, Minimal
[Adenoma TGLS = 2-9]			
[Hyperplasia TGLS = 2-9]			
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3,4-8]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Found at Trim, TGL 10-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 248

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 5-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Atrophy	Marked
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 4-9a,13]			
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 1-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 248

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-248

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2,3-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 249

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 6-3]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Degeneration	Cystic, Focal, Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Mild
Mesentery		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Hyperplasia	Focal, Marked
		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 249	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-249
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle [Atrophy TGLS = 4-9a,14]	Bilateral	Atrophy	Marked
* Skin [Adenoma TGLS = 2-13] [Cyst Epithelial Inclusion TGLS = 1-12.1]	Sebaceous Gl	Adenoma Cyst Epithelial Inclusion	
* Spleen [Hemangiosarcoma TGLS = 5-15,16]		Hemangiosarcoma	
* Testes [Adenoma TGLS = 3-9]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 250

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Lung	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
	Bilateral	Vacuolization Cytoplasmic	Focal, Moderate
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Atrophy	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 5-6]	
* Lymph Node, Mandibular		Degeneration	Cystic, Moderate
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 1-12]	
* Nose		Inflammation	Chronic Active, Moderate
		Note: Fungi present in nasal exudate	
* Pancreas	Acinus	Adenoma	
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 250	TRT#: 5 DOSE: 2 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 729 HISTO: 94-5216-250
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Fibroma Leukemia Mononuclear	
[Fibroma TGLS = 4-13]			
[Leukemia Mononuclear TGLS = 3-6,13]			
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 1 grossly identified as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 251

TRT#: 15

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
* Pineal Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Adenoma	
		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
Note: See slide 5 for lesion.			
* Prostate		Atrophy	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Minimal
[Atrophy TGLS = 4-9a,14]			
* Skin		Basal Cell Adenoma	
		Keratoacanthoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 251	TRT#: 15	SEX: Male	DAY ON TEST: 737
	DOSE: 2 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-251

ORGAN AND ACCOUNTABLE SITE STATUS

[Basal Cell Adenoma TGLS = 2-13] [Keratoacanthoma TGLS = 1-12]			
* Testes	Interstit Cell Germinal Epith Interstit Cell	Adenoma Atrophy Hyperplasia	Mild Focal, Minimal
[Adenoma TGLS = 3-9] [Hyperplasia TGLS = 3-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 252

TRT#: 15

SEX: Male

DAY ON TEST: 610

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-4]			
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-12]			
* Nose		Inflammation	Chronic Active, Mild
* Pancreas			
Note: TGL 2-NCL			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Skin		Keratoacanthoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 252

TRT#: 15

SEX: Male

DAY ON TEST: 610

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-252

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 3,4-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 253

TRT#: 15

SEX: Male

DAY ON TEST: 715

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-253

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Hematopoietic Cell Proliferation	Minimal
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Degeneration	Cystic, Focal, Minimal
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Mild
		Necrosis	Moderate
Note: TGL 6-NCL			
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
* Seminal Vesicle		Atrophy	Marked

[Atrophy TGLS = 4-9a,13]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 253	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 715 HISTO: 94-5216-253
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ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibroma TGLS = 1-12]	Subcut Tiss	Fibroma	
* Spleen [Hematopoietic Cell Proliferation TGLS = 5-6]		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular [Erosion TGLS = 7-15]		Erosion	Focal, Minimal
* Testes [Adenoma TGLS = 2,3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:21

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 254

TRT#: 15

SEX: Male

DAY ON TEST: 682

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-254

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-6]		
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hypertrophy	Focal, Minimal
* Preputial Gland		Adenoma	
		Carcinoma	
	[Adenoma TGLS = 2-9a]		
	[Carcinoma TGLS = 1-12]		
* Prostate		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 254	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 682 HISTO: 94-5216-254
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Focal, Marked
[Adenoma TGLS = 4-9]			
[Atrophy TGLS = 3-9]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 1 grossly identified as Skin is microscopically identified as occurring i n Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 255

TRT#: 15

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-255

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Hyperplasia	Focal, Mild
		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Degeneration	Cystic, Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-9]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 255

TRT#: 15

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-255

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 256

TRT#: 15

SEX: Male

DAY ON TEST: 729

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-256

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adren Medulla			
Note: Only One Adrenal Medulla Examined			
* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Mild
	Bilateral	Nephropathy	Mild
[Nephropathy TGLS = 3-NCL]			
* Liver	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Inflammation	Chronic Active, Mild
Note: Fungi present in Nasal Exudate			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 5-9a,12]			
* Spleen	Lymph Follic	Atrophy	Mild
		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 256	TRT#: 15	SEX: Male	DAY ON TEST: 729
	DOSE: 2 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-256

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 2-6]			
* Testes	Interstit Cell Germinal Epith	Adenoma Atrophy Mineralization	Marked Mild
[Atrophy TGLS = 4-9]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell C Cell	Carcinoma Hyperplasia	Focal, Moderate
[Carcinoma TGLS = 1-2]			

PRIMARY CAUSE OF DEATH - Thyroid Gland C Cell Carcinoma

Animal Note: Carcass, Thin, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 257

TRT#: 15

SEX: Male

DAY ON TEST: 733

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Moderate
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Hyperplasia	Focal, Moderate
Note: Also Found Focal Acinar Cell Hyperplasia in Section 5.			
* Pineal Gland		Mineralization	Mild
* Prostate		Atrophy	Minimal
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 257

TRT#: 15

SEX: Male

DAY ON TEST: 733

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-257

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3,4-9]

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 258 **TRT#:** 15 **SEX:** Male **DAY ON TEST:** 736
DOSE: 2 GAUSS **DISP:** Terminal Sacrifice **HISTO:** 94-5216-258

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Mild
[Mixed Cell Focus TGLS = 2-6]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibrosis	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 258

TRT#: 15

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-258

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	
	Follicle	Cyst	Minimal
	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 259

TRT#: 15

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-259

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
	[Leukemia Mononuclear TGLS = 3-13]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Galactocele	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Marked
		Inflammation	Chronic Active, Mild
	Note: Fungi present in nasal exudate		
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-3]		
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle		Atrophy	Minimal
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 259	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-259
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ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 260

TRT#: 15

SEX: Male

DAY ON TEST: 635

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Focal, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
* Lung	Serosa	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
		Inflammation	Acute, Minimal
* Seminal Vesicle		Atrophy	Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-13]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 260

TRT#: 15

SEX: Male

DAY ON TEST: 635

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-260

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2,3,4-9]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

Animal Note: Lesion 5 identified grossly as Mesenteric Lymph Node is microscopically identified as occurring in Mesentery.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 261

TRT#: 15

SEX: Male

DAY ON TEST: 586

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-261

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain			
Note: TGL 8-NCL			
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
Note: TGL 1-NCL			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-6]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-2]			
[Leukemia Mononuclear TGLS = 5,10-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 4-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 261	TRT#: 15	SEX: Male	DAY ON TEST: 586
	DOSE: 2 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-261

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Fungi present in nasal exudate.

* Pancreas	Acinus	Atrophy	Diffuse, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Minimal
* Seminal Vesicle		Atrophy	Moderate
* Skin		Basal Cell Adenoma	
		Cyst Epithelial Inclusion	
[Basal Cell Adenoma TGLS = 6-13]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 9 identified grossly as Pancreas is microscopically identified as Pancrea tic Lymph Node.

Animal Note: Lesion 4 identified grossly as Cavities is microscopically identified as occurri ng in Mesentery.

Animal Note: Carcass, Thin, TGL 11-NST

Animal Note: Lesion 5 identified grossly as Thymus is microscopically identified as occurring in Mediastinal Lymph Node.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 262

TRT#: 15

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-262

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-12]			
* Pancreas	Acinus	Adenoma	
	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Minimal
* Sem Ves			
Note: TGL 3-NCL			
* Skin		Cyst Epithelial Inclusion	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 262

TRT#: 15

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-262

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Bilateral, Interstit Cell	Hyperplasia	Diffuse, Moderate
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 263

TRT#: 15

SEX: Male

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-263

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Mammary Gland	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Adenoma	
	Bilateral	Vacuolization Cytoplasmic	Focal, Mild
[Adenoma TGLS = 5-3]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Metaplasia	Focal, Minimal
Note: Hepatocytes surround a single islet.			
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
[Mixed Cell Focus TGLS = 7-14; 8-15]			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Nervosa	Degeneration	Focal, Mild
Note: TGL 6-NCL			
* Preputial Gland		Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 263	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-263
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-12]		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Mild
* Sem Ves			
Note: TGL 4-NCL			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Mammary Gland is identified microscopically identified as occurring in Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 264

TRT#: 15

SEX: Male

DAY ON TEST: 659

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-264

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Vacuolization Cytoplasmic TGLS = 2-12]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic, Minimal
		Inflammation	Chronic Active, Mild
	Note: Fungi in Nasal Exudate		
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Prostate		Inflammation	Acute, Minimal
* Seminal Vesicle		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 264	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 659 HISTO: 94-5216-264
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Congestion	Minimal
* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy Hyperplasia	Mild Lymphoid, Minimal
* Thyroid Gland	Follicle	Cyst	Minimal

PRIMARY CAUSE OF DEATH	- UNCERTAIN
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 265

TRT#: 15

SEX: Male

DAY ON TEST: 666

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-265

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	Peripheral Nerve	* Pineal Gland
* Pituitary Gland	* Salivary Glands	Skeletal Muscle	* Skin
Spinal Cord	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone	Femur	Hyperostosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 7-6]	
* Lung		Leukemia Mononuclear	
Lymph Node	Lumbar	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 6-14]	
		[Leukemia Mononuclear TGLS = 5-13]	
* Lymph Node, Mandibular		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-2]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:21

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 265

TRT#: 15

SEX: Male

DAY ON TEST: 666

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-265

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Basophilic Focus	Mild
		Leukemia Mononuclear	
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 2-12]			
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Stomach, Forestomach		Edema	Minimal
* Stomach, Glandular		Erosion	Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 8-NST

Animal Note: Lesion 2 identified grossly as Skin is microscopically identified as occurring i n Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 266

TRT#: 15

SEX: Male

DAY ON TEST: 729

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-266

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Trachea			

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla	Bilateral	Hyperplasia	Focal, Marked
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyperplasia	Focal, Moderate
	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Moderate
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle	Bilateral	Atrophy	Moderate
	[Atrophy TGLS = 4-9a,12]		
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 266	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 729 HISTO: 94-5216-266
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ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Moderate Chronic Active, Moderate
* Testes [Adenoma TGLS = 1,2,3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Minimal
* Thyroid Gland	Bilateral, C Cell	Hyperplasia	Focal, Mild
* Urinary Bladder		Edema	Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: Carcass, Thin, NST-5

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:21

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 267

TRT#: 15

SEX: Male

DAY ON TEST: 718

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-267

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Rectum	* Intestine Small, Ileum	* Lymph Node, Mandibular
* Salivary Glands	* Skin	* Thyroid Gland	* Trachea

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Diffuse, Moderate
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
		Leukemia Mononuclear	
* Harderian Gland		Atrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-5,14]		
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-13]		
* Mammary Gland		Galactocele	Moderate
	[Galactocele TGLS = 1-12]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 267	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 718 HISTO: 94-5216-267
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: Fungi present in nasal exudate.		Inflammation	Chronic Active, Mild
* Pancreas		Leukemia Mononuclear	
Note: Organ represented in section 13.			
* Pineal Gland		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 5-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach	Epithelium	Hyperplasia Leukemia Mononuclear	Mild
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Interstitial Cell Germinal Epith Interstitial Cell	Adenoma Atrophy Hyperplasia Mineralization	Marked Focal, Mild Minimal
[Adenoma TGLS = 2-9]			
[Hyperplasia TGLS = 2-9]			
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-8]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 268

TRT#: 15

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-268

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
[Hyperplasia TGLS = 2-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Epithelium	Hyperplasia	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Moderate
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Inflammation	Chronic, Mild
Note: Only one of pair available for evaluation, TGL 1-NCL.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 268

TRT#: 15

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-268

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Mild
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 269

TRT#: 15

SEX: Male

DAY ON TEST: 695

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-269

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Kidney	Bilateral	Leukemia Mononuclear	
	Bilateral, Renal Tubule	Nephropathy	Mild
* Liver	Bile Duct	Pigmentation	Mild
		Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 269	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Natural Death	DAY ON TEST: 695 HISTO: 94-5216-269
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ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Acute, Minimal
* Seminal Vesicle	Bilateral	Atrophy Leukemia Mononuclear	Marked
[Atrophy TGLS = 2-9a,13]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as oc curring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 270

TRT#: 15

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-270

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Focal, Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Moderate
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
Note: TGL 5-NCL			
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
		Hematopoietic Cell Proliferation	Mild
	Bile Duct	Hyperplasia	Mild
* Lung			
Note: TGL 6-NCL			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-13]			
* Preputial Gland		Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 270	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-270
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ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 1-9a,12]		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Preputial Gland.

Animal Note: Cavity, Thoracic, Fluid, Red, TGL, 4-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 271

TRT#: 15

SEX: Male

DAY ON TEST: 724

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Parathyroid Gland	* Pineal Gland	* Preputial Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Cyst	Mild
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
Note: TGL 4-NCL			
Lymph Node	Mediastinal	Hemorrhage	Moderate
[Hemorrhage TGLS = 5-14]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Mild
		Hemorrhage	Marked
	Acinus	Hyperplasia	Focal, Mild
[Hemorrhage TGLS = 3-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 271	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Natural Death	DAY ON TEST: 724 HISTO: 94-5216-271
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Intermed	Cyst	Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle [Atrophy TGLS = 2-9a,12]	Bilateral	Atrophy	Minimal
* Spleen		Pigmentation	Minimal
* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle C Cell	Cyst Hyperplasia	Minimal Focal, Moderate
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH - Pancreas Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 272

TRT#: 15
DOSE: 2 GAUSS

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 736
HISTO: 94-5216-272

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Brain			
Note: TGL 8-NCL			
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney	Bilateral	Nephropathy	Moderate
[Nephropathy TGLS = 6-8]			
* Liver		Angiectasis	Focal, Minimal
		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Moderate
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 1-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Galactocele	Moderate
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-13]			
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 272	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-272
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 9-3]	Pars Distalis	Adenoma	
* Preputial Gland		Adenoma	
* Prostate		Inflammation	Chronic Active, Mild
		Inflammation	Chronic, Mild
* Skin [Fibroma TGLS = 2-12]	Subcut Tiss	Fibroma	
* Spleen [Congestion TGLS = 5-6]		Congestion	Mild
* Testes [Atrophy TGLS = 4-9]	Germinal Epith Bilateral, Interstit Cell	Atrophy Hyperplasia	Minimal Focal, Minimal
* Thyroid Gland [Carcinoma TGLS = 7-2]	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 2 identified grossly as Mammary Gland is microscopically identified as oc curring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 273

TRT#: 15

SEX: Male

DAY ON TEST: 604

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-273

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Trachea

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
		Necrosis	Mild
* Brain	Cerebrum	Necrosis	Moderate
	Artery	Thrombosis	Marked
* Heart	Myocardium	Necrosis	Mild
* Kidney		Infarct	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Chronic Active, Mild
	Note: Fungi present in nasal exudate.		
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-3]		
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Acute, Marked
* Seminal Vesicle		Atrophy	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 273	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 604 HISTO: 94-5216-273
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ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Edema	Mild
* Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia Mineralization	Focal, Minimal Minimal
[Adenoma TGLS = 3-9] [Hyperplasia TGLS = 3-9]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Inflammation	Acute, Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed at Trim, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 274

TRT#: 15

SEX: Male

DAY ON TEST: 557

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-274

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Salivary Glands	Skeletal Muscle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Atrophy	Diffuse, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Edema	Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Inflammation	Chronic, Moderate
Perph Nerve			
Note: Sciatic Nerve is normal.			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Moderate
[Atrophy TGLS = 2-9a]			
* Spleen		Sarcoma	
[Sarcoma TGLS = 4-6,14,15]			
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 274	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 557 HISTO: 94-5216-274
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1,5-9] [Hyperplasia TGLS = 1,5-9] * Thymus * Thyroid Gland	Interstit Cell C Cell	Hyperplasia Atrophy Hyperplasia	Focal, Minimal Marked Focal, Minimal
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PRIMARY CAUSE OF DEATH - Spleen Sarcoma

Animal Note: Carcass, Thin, Noted at Trim, TGL 6-NST

Animal Note: Sample of mass described in clinical observations appears to involve the spleen. Examination of wet tissue did not reveal an additional mass.

Animal Note: Due to recording error on individual animal necropsy record there is no TGL 3.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 275

TRT#: 15

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-275

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Brain			
Note: TGL 3-NCL			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Mild
* Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 275	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-275
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy	Marked
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
		Ultimobranchial Cyst	Minimal
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 276

TRT#: 15

SEX: Male

DAY ON TEST: 561

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-276

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Pituitary Gland	* Salivary Glands	Skeletal Muscle
* Skin	Spinal Cord	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis	Epithelium	Degeneration	Mucoid, Mild
Eye	Retina	Atrophy	Mild
	Iris	Inflammation	Chronic, Mild
Note: TGL 7-NCL			
* Intestine Large, Colon		Inflammation	Chronic, Minimal
Note: Focal material not sectioned, TGL 3-NST			
Note: TGL 3-NST			
[Inflammation TGLS = 4-13]			
* Intestine Large, Rectum		Ulcer	Marked
[Ulcer TGLS = 9-5]			
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Necrosis	Marked
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
[Necrosis TGLS = 5-13]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pineal Gland		Mineralization	Moderate
* Preputial Gland		Inflammation	Chronic Active, Mild
Note: One only examined			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 276	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 561 HISTO: 94-5216-276
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ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle		Inflammation	Chronic Active, Marked
* Spleen		Pigmentation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Ulcer	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,6-9]			
* Thymus		Atrophy	Moderate
* Urin Bladder			
Note: TGL 1-NCL			

PRIMARY CAUSE OF DEATH - Intestine Large, Rectum Ulcer

Animal Note: Carcass, Thin, Observed at Trim, TGL 8-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 277

TRT#: 15
DOSE: 2 GAUSS

SEX: Male
DISP: Natural Death

DAY ON TEST: 463
HISTO: 94-5216-277

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Infiltration Cellular	Mixed Cell, Minimal
		Vacuolization Cytoplasmic	Mild
Note: TGL 1-NCL			
* Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 278

TRT#: 15

SEX: Male

DAY ON TEST: 520

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adren Cortex			
Note: One of pair examined.			
* Adren Medulla			
Note: One of pair examined.			
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
		Sarcoma	
Note: The sarcoma has areas suggestive of osteosarcoma and others of hemangiosarcoma; however, osteosarcoma is unavailable as primary neoplasm for kidney.			
[Sarcoma TGLS = 3-8]			
* Liver		Hematopoietic Cell Proliferation	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Vacuolization Cytoplasmic TGLS = 5-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery		Osteosarcoma	Metastatic (Kidney)
[Osteosarcoma TGLS = 4-12]			
* Pineal Gland		Mineralization	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 278	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 520 HISTO: 94-5216-278
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Hematopoietic Cell Proliferation TGLS = 2-6]		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Moderate Chronic Active, Mild
* Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Focal, Mild
* Thymus Note: TGL 1-NCL		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Kidney Sarcoma

Animal Note: Lesion 4 identified grossly as Cavities is microscopically identified as occurring in Mesentery.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 279

TRT#: 15

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-279

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate			
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Mild
* Parathyroid Gland		Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 279	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-279
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 3-9a,13]	Bilateral	Atrophy	Mild
* Skin [Fibroma TGLS = 2-12]	Dermis Subcut Tiss	Basal Cell Adenoma Fibroma Fibroma	
* Testes [Adenoma TGLS = 4-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin, TGL, 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 280

TRT#: 15

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-280

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
[Degeneration TGLS = 2-9]			
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Moderate
		Mixed Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial GI			
Note: Only one available for evaluation.			
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Marked
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 280

TRT#: 15

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-280

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Lesion 2 identified grossly as Testes is microscopically identified as occurring in Epididymis.

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 281

TRT#: 15

SEX: Male

DAY ON TEST: 535

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-281

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Parathyroid Gland	* Pineal Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Mild
Note: TGL 4-NCL			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-14]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-13]			
* Prostate		Inflammation	Acute, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Mild
[Atrophy TGLS = 2-9a, 14]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 5-12]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 281	TRT#: 15	SEX: Male	DAY ON TEST: 535
	DOSE: 2 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-281

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-9]

* Thymus	Atrophy	Minimal
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PRIMARY CAUSE OF DEATH - Preputial Gland Adenoma

Animal Note: Lesion 3 identified grossly as Cavities is microscopically identified as occurring in Mesentery.

Animal Note: Carcass, Thin, Noted at Trim, TGL 7-NST

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 282 **TRT#:** 15 **SEX:** Male **DAY ON TEST:** 736
DOSE: 2 GAUSS **DISP:** Terminal Sacrifice **HISTO:** 94-5216-282

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	

Note: Several regenerative nodules, considered leukemia related, were also present in the liver sections.

[Leukemia Mononuclear TGLS = 5-6]

* Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
* Pancreas	Acinus	Hyperplasia	Focal, Marked
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
* Spleen		Leukemia Mononuclear	

[Atrophy TGLS = 3-9a,12]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 282	TRT#: 15	SEX: Male	DAY ON TEST: 736
	DOSE: 2 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-282

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Cyst	Minimal
	C Cell	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 283

TRT#: 15

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-283

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Moderate
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	Multiple
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
[Mixed Cell Focus TGLS = 5-13]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Minimal
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:21
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 283	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-283
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2,3-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 284

TRT#: 15

SEX: Male

DAY ON TEST: 730

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-284

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Marked
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney	Bilateral, Renal Tubule	Degeneration	Mild
	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung	Interstitial	Inflammation	Chronic, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
* Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 284	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 730 HISTO: 94-5216-284
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Minimal
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-9]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 285

TRT#: 15

SEX: Male

DAY ON TEST: 693

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-285

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Infiltration Cellular	Mixed Cell, Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Atrophy	Focal, Mild
* Heart		Cardiomyopathy	Mild
Note: TGL 6-NCL			
* Kidney	Bilateral	Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Note: TGL 4-NCL			
* Lung		Congestion	Mild
[Congestion TGLS = 5-7]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 2-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Mineralization	Minimal
* Nose		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Prostate		Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 285	TRT#: 15	SEX: Male	DAY ON TEST: 693
	DOSE: 2 GAUSS	DISP: Natural Death	HISTO: 94-5216-285

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy	Moderate
* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,3-9]			

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: Autolysis precluded critical evaluation of all tissues.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 286

TRT#: 15

SEX: Male

DAY ON TEST: 725

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-286

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Parathyroid Gland	* Pineal Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
		Schwannoma Malignant	
* Kidney	Bilateral	Leukemia Mononuclear	
	Bilateral, Renal Tubule	Nephropathy	Minimal
	Bile Duct	Pigmentation	Mild
* Liver		Hyperplasia	Marked
		Leukemia Mononuclear	
Note: A regenerative nodule, considered leukemia related, was present in the section of liver. [Leukemia Mononuclear TGLS = 6,7,8-6]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-14]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 286	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Natural Death	DAY ON TEST: 725 HISTO: 94-5216-286
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 5-9a,13]	Bilateral	Atrophy	Marked
* Spleen [Leukemia Mononuclear TGLS = 2,3-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 4,9-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 287

TRT#: 15

SEX: Male

DAY ON TEST: 583

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 95-5416-287

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum
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OBSERVATIONS

* Bone Marrow		Depletion Cellular	Minimal
* Brain	Chor Plexus	Mineralization	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
* Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Atrophy	Minimal
		Inflammation	Chronic, Minimal
* Seminal Vesicle		Atrophy	Minimal
* Spleen		Congestion	Mild
		Pigmentation	Mild
[Congestion TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 287	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Natural Death	DAY ON TEST: 583 HISTO: 95-5416-287
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ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Cyst	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:22

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 288

TRT#: 15

SEX: Male

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-288

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Blood Vessel | * Bone | * Brain | * Esophagus |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Parathyroid Gland |
| * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--|------------|------------------------------|---------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | Epithelium | Leukemia Mononuclear | |
| * Harderian Gland | | Degeneration | Mucoid, Minimal |
| * Heart | | Infiltration Cellular | Lymphocyte, Minimal |
| | | Cardiomyopathy | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | Bilateral | Mineralization | Minimal |
| * Liver | | Nephropathy | Minimal |
| | | Basophilic Focus | Minimal |
| | | Clear Cell Focus | Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 5-6] | | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Leukemia Mononuclear | |
| [Alveolar/Bronchiolar Adenoma TGLS = 7-15] | | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Infiltration Cellular | Histiocyte, Mild |
| | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-12] | | | |
| Mesentery | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 288

TRT#: 15
DOSE: 2 GAUSS

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 737
HISTO: 94-5216-288

ORGAN AND ACCOUNTABLE SITE STATUS

	Fat	Necrosis	Moderate
[Necrosis TGLS = 6-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Hypertrophy	Focal, Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle		Atrophy	Marked
[Atrophy TGLS = 4-9a,13]			
* Skin	Hair Follicle	Hyperplasia	Focal, Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 289

TRT#: 15

SEX: Male

DAY ON TEST: 701

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-289

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Mild
		Pheochromocytoma Benign	
* Bone Marrow		Necrosis	Moderate
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
Note: TGL 5-NCL			
* Liver		Angiectasis	Focal, Marked
	Bile Duct	Hyperplasia	Moderate
[Angiectasis TGLS = 7-6]			
[Hyperplasia TGLS = 6-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hemorrhage	Minimal
* Preputial Gland		Adenoma	
		Carcinoma	
		Inflammation	Chronic, Mild
[Carcinoma TGLS = 1-12]			
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Marked
* Spleen		Fibrosis	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 289	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Natural Death	DAY ON TEST: 701 HISTO: 94-5216-289
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ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 4,8-6] * Stomach, Glandular		Hematopoietic Cell Proliferation	Minimal
* Testes [Adenoma TGLS = 2,3-9]	Bilateral, Interstit Cell	Inflammation Ulcer Adenoma	Chronic Active, Mild Moderate
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Preputial Gland Carcinoma

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 290

TRT#: 15

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-290

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Vacuolization Cytoplasmic	Mild Focal, Mild
Note: For Accessory Cortical Nodule see slide 5.			
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 5-3]			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 2-13]			
* Nose	Olfactory Epi Nasolacrim Dct	Cytoplasmic Alteration Inflammation	Minimal Chronic, Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Marked
* Pineal Gland		Mineralization	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 4-12]			
* Prostate		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 290	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-290
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 291 **TRT#:** 15 **SEX:** Male **DAY ON TEST:** 736
DOSE: 2 GAUSS **DISP:** Terminal Sacrifice **HISTO:** 94-5216-291

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia Vacuolization Cytoplasmic	Focal, Mild Focal, Mild
* Brain Note: TGL 6-NCL			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus Degeneration Eosinophilic Focus	Minimal Cystic, Focal, Mild Minimal
	Bile Duct	Hyperplasia Infiltration Cellular	Mild Mixed Cell, Minimal
[Degeneration TGLS = 9-17]			
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 8-15]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst Inflammation	Mild Chronic, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-13]			
* Nose	Nasolacrim Dct	Inflammation Inflammation	Chronic, Minimal Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 291	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-291
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: Fungi present in nasal exudate.

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle		Atrophy	Marked
[Atrophy TGLS = 3-9a,12]			
Skeletal Muscle		Mesothelioma Malignant	
Note: Mesothelioma involves Diaphragm			
[Mesothelioma Malignant TGLS = 5-14]			
* Spleen	Capsule	Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 292

TRT#: 15

SEX: Male

DAY ON TEST: 726

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-292

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland
* Parathyroid Gland	Peripheral Nerve	Skeletal Muscle	* Skin
Spinal Cord	* Stomach, Forestomach	* Trachea	

MISSING

* Pituitary Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia Leukemia Mononuclear	Focal, Minimal
Note: Only one available for evaluation.			
* Adrenal Medulla		Leukemia Mononuclear	
Note: Only one available for evaluation.			
* Bone	Femur	Hypertrophy	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain	Meninges	Hyperplasia	Moderate
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Hyperplasia Inflammation	Focal, Minimal Chronic, Minimal
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Moderate
[Thrombosis TGLS = 6-4]			
* Intestine Large, Colon		Leukemia Mononuclear	
* Islets, Pancreatic		Hyperplasia	Focal, Marked
Note: See slide 5 for neoplasm.			
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Moderate
[Leukemia Mononuclear TGLS = 3-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 292

TRT#: 15

SEX: Male

DAY ON TEST: 726

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-292

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-14]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cyst	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
		Leukemia Mononuclear	
Perph Nerve			
Note: Sciatic Nerve is Normal.			
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 1-9a,13]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Glandular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-17]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-9]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:22

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 293

TRT#: 15

SEX: Male

DAY ON TEST: 479

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-293

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla | * Blood Vessel | * Bone | * Epididymis |
| * Esophagus | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Pineal Gland | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

AUTO PRECLUDES DIAG.

- * Intestine Small, Ileum

OBSERVATIONS

- | | | | |
|-------------------------------------|-----------|-----------------------|----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 5-1] | | | |
| * Kidney | Bilateral | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-7] | | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Infiltration Cellular | Histiocyte, Mild |
| Mesentery | Fat | Necrosis | Moderate |
| [Necrosis TGLS = 6-12] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | | Infiltration Cellular | Lymphocyte, Minimal |
| * Prostate | | Inflammation | Chronic Active, Mild |
| * Seminal Vesicle | | Atrophy | Mild |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 1-6] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 293	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Natural Death	DAY ON TEST: 479 HISTO: 94-5216-293
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ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Minimal
[Adenoma TGLS = 2-9]			
* Thymus		Hemorrhage	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 294

TRT#: 15

SEX: Male

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-294

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Brain			
Note: TGL 6-NCL			
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Moderate
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
		Pigmentation	Minimal
[Hyperplasia TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Degeneration	Cystic, Mild
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Galactocele	Mild
[Galactocele TGLS = 2-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic, Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Marked
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Preputial Gland		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 294

TRT#: 15
DOSE: 2 GAUSS

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 738
HISTO: 94-5216-294

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic Active, Moderate
* Skin	Subcut Tiss	Hemorrhage Keratoacanthoma	Marked
	[Hemorrhage TGLS = 3-13]		
	[Keratoacanthoma TGLS = 1-12]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Germinal Epith Bilateral, Interstit Cell	Atrophy Hyperplasia	Minimal Focal, Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 295

TRT#: 15

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-295

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Pancreas	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
	[Mixed Cell Focus TGLS = 3-14]		
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 295	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-295
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy	Mild
* Skin		Congestion	Mild
	Dermis	Fibrosis	Focal, Mild
Note: The lesion involves the tactile hair follicles. [Congestion TGLS = 2-12.1]			
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 296

TRT#: 15

SEX: Male

DAY ON TEST: 736

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-296

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
Ear	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Mild
		Degeneration	Cystic, Focal, Minimal
		Eosinophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
[Clear Cell Focus TGLS = 3-13]			
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic Active, Mild
		Inflammation	Chronic, Minimal
* Pancreas	Acinus	Adenoma	
* Pineal Gland		Mineralization	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 296	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-296
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 1-9a,12]	Bilateral	Atrophy	Mild
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 297

TRT#: 15

SEX: Male

DAY ON TEST: 393

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-297

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Pineal Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adren Cortex			
Note: Only one examined.			
* Adren Medulla			
Note: Only one examined.			
* Heart		Cardiomyopathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mesenteric		Angiectasis	Mild
		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-12]			
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Pigmentation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Hyperplasia	Focal, Minimal
Note: TGL 3-NCL			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 297	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 393 HISTO: 94-5216-297
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ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus [Atrophy TGLS = 1-3]	Atrophy	Marked
* Thyroid Gland	Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: Carcass, Thin, Found at Retrim, TGL 4-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 298

TRT#: 15

SEX: Male

DAY ON TEST: 653

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-298

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Mammary Gland
* Nose	* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland
* Salivary Glands	Skeletal Muscle	* Skin	Spinal Cord
* Stomach, Forestomach	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-13]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pineal Gland		Mineralization	Moderate
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 298	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 653 HISTO: 94-5216-298
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Glandular		Erosion	Focal, Mild
[Erosion TGLS = 4-15]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 299

TRT#: 15
DOSE: 2 GAUSS

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 737
HISTO: 94-5216-299

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Pineal Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
[Mixed Cell Focus TGLS = 3-13]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
		Inflammation	Chronic, Minimal
	Olfactory Epi	Mineralization	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gl			
Note: TGL 2-NCL			
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 299	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-299
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy	Mild
* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 300

TRT#: 15

SEX: Male

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-300

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7,8-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 1-12]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Adenoma	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Acute, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 300	TRT#: 15 DOSE: 2 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-300
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 4-9a,13]	Bilateral	Atrophy	Mild
* Spleen [Leukemia Mononuclear TGLS = 2,3-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 5,6-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 301

TRT#: 7

SEX: Male

DAY ON TEST: 600

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-301

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney	Bilateral, Renal Tubule	Leukemia Mononuclear Pigmentation	Moderate
[Pigmentation TGLS = 5-8]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-7]			
Lymph Node	Inguinal Mediastinal	Leukemia Mononuclear Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-5]			
[Leukemia Mononuclear TGLS = 9-13]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-5]			
* Nose	Olfactory Epi Nasolacrim Dct	Cytoplasmic Alteration Inflammation	Minimal Chronic Active, Mild
* Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 301	TRT#: 7	SEX: Male	DAY ON TEST: 600
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-301

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
* Salivary Glands	Sublingual GI	Atrophy	Moderate
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1,4-12]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Moderate
[Adenoma TGLS = 3-9]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed at Trim, TGL 13-NST

Animal Note: Due to recording error on Individual Animal Necropsy Record, there is no TGL 8.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 302

TRT#: 7

SEX: Male

DAY ON TEST: 582

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-302

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Bone Marrow		Hemorrhage	Mild
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 3-1]			
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral, Pelvis	Inflammation	Acute, Mild
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
Mesentery	Artery	Inflammation	Chronic, Moderate
	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-12]			
* Pancreas	Artery	Inflammation	Chronic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 302	TRT#: 7	SEX: Male	DAY ON TEST: 582
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-302

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 4-9a,12]	Bilateral	Atrophy	Marked
* Skin		Basal Cell Adenoma	
* Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Focal, Minimal
Note: TGL 6-NCL [Adenoma TGLS = 5-9]			
* Thymus		Atrophy	Marked
* Urinary Bladder	Transit Epithe	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:22

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 303

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-303

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Pineal Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pituitary Gland	Pars Distalis	Hypertrophy	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Hypertrophy	Mild
		Inflammation	Acute, Minimal
Note: The lesion diagnosed as hypertrophy actually represents a retention of secretion.			
* Seminal Vesicle		Dilatation	Mild
[Dilatation TGLS = 5-9a,12]			
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 1-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 303

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-303

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2,3,4-9]

* Thymus

Atrophy

Marked

* Thyroid Gland

C Cell

Hyperplasia

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 304 **TRT#:** 7 **SEX:** Male **DAY ON TEST:** 737
DOSE: 10 GAUSS INTER. **DISP:** Terminal Sacrifice **HISTO:** 94-5216-304

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Pineal Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone	Femur	Hyperostosis	Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
	[Atrophy TGLS = 2-9a,12]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-9]		
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 305

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
		Mesothelioma Malignant	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 2-12]			
* Pancreas		Cyst	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
	Epithelium	Hyperplasia	Focal, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a,12]			
* Skin		Keratoacanthoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 305	TRT#: 7	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-305

ORGAN AND ACCOUNTABLE SITE STATUS

[Keratoacanthoma TGLS = 1-13]			
* Testes	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant	
[Adenoma TGLS = 4-9]			
* Thyroid Gland	C Cell C Cell	Adenoma Hyperplasia	Focal, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 306

TRT#: 7

SEX: Male

DAY ON TEST: 558

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Bone Marrow		Hyperplasia	Mild
* Brain			
Note: TGL 4-NCL			
* Kidney	Bilateral, Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 3-8]			
* Liver	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Pigmentation	Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 1-12]			
* Prostate		Infiltration Cellular	Lymphocyte, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Moderate
[Atrophy TGLS = 2-9a, 12]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Mild
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 306

TRT#: 7

SEX: Male

DAY ON TEST: 558

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-306

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Preputial Gland Carcinoma

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 307

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-307

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Pineal Gland	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Minimal
Note: Fungi present in nasal exudate.			
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1,2,3-9]		
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 307

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-307

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 308

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-308

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Adrenal Medulla	* Pineal Gland
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OBSERVATIONS

* Adren Cortex			
Note: Only one of pair available for examination.			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Marked
* Lung		Leukemia Mononuclear	
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-7]	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Cyst	Mild
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
		[Atrophy TGLS = 2-9a,14]	
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-12]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 308	TRT#: 7	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-308

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-13]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
Tooth	Gingiva	Inflammation	Chronic Active, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 309

TRT#: 7

SEX: Male

DAY ON TEST: 645

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-309

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 5-1]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Moderate
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Marked
[Vacuolization Cytoplasmic TGLS = 3-6]			
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 4-3]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Atrophy	Moderate
		Inflammation	Chronic Active, Moderate
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 1-9a,12]			
* Spleen		Pigmentation	Minimal
* Stomach, Forestomach		Ulcer	Moderate
* Testes	Bilateral, Germinal Epith	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 309	TRT#: 7	SEX: Male	DAY ON TEST: 645
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-309

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 2-9]	Interstit Cell	Hyperplasia	Focal, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma

Animal Note: Carcass, Thin, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 310

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-310

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 4-3]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	Marked
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6,12]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild
[Adenoma TGLS = 5-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 310	TRT#: 7 DOSE: 10 GAUSS INTER.	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-310
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 3-9a,12]	Bilateral	Atrophy	Marked
* Spleen		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 311

TRT#: 7

SEX: Male

DAY ON TEST: 555

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-311

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	Skeletal Muscle	* Skin	Spinal Cord
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Heart		Leukemia Mononuclear	
* Int Lg Cecum			
Note: TGL 6-NCL			
* Int Sm Ileum			
Note: TGL 5-NCL			
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-6, 12]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 311	TRT#: 7	SEX: Male	DAY ON TEST: 555
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-311

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Stomach, Forestomach		Inflammation	Chronic, Minimal
* Stomach, Glandular		Erosion	Focal, Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Mild
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-3]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Noted at Trim, TGL 9-NST

Animal Note: Due to recording error on Individual Animal Necropsy Record, there is no TGL 8.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 312

TRT#: 7

SEX: Male

DAY ON TEST: 675

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-312

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Medulla	Bilateral	Hyperplasia	Focal, Moderate
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Mild
* Lym Node Mand			
Note: TGL, 1-NCL			
Oral Mucosa		Squamous Cell Carcinoma	
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pituitary Gland	Pars Distalis	Hypertrophy	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Minimal
* Skin	Subcut Tiss	Fibrosis	Moderate
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 312

TRT#: 7

SEX: Male

DAY ON TEST: 675

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-312

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-9]

PRIMARY CAUSE OF DEATH

- Oral Mucosa Squamous Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 313

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-313

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Brain	Hypothalamus	Compression	Mild
	Cerebrum	Infiltration Cellular	Lymphocyte, Minimal
	[Compression TGLS = 6-1]		
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Moderate
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lung	Bronchus	Inflammation	Acute, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Epithelium	Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 313	TRT#: 7	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-313

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle	Bilateral	Atrophy	Marked
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Focal, Minimal
[Adenoma TGLS = 1,3-9]			
[Atrophy TGLS = 2-9]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Moderate
		Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: Due to recording error on Individual Animal Necropsy Record, there is no TGL 4.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 314

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus		

OBSERVATIONS

* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Congestion	Minimal
[Congestion TGLS = 3-7]			
* Nose	Nasolacrim Dct	Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
Note: See slide 5 for lesion.			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thyroid Gland	C Cell	Adenoma	
* Trachea	Glands	Cyst	Mild
		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 315

TRT#: 7

SEX: Male

DAY ON TEST: 687

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-315

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain	Chor Plexus	Hyperplasia	Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-7]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
Mesentery		Accessory Spleen	
	[Accessory Spleen TGLS = 5-13]		
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 315	TRT#: 7	SEX: Male	DAY ON TEST: 687
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-315

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Minimal
* Skin		Cyst Epithelial Inclusion	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Mild
		Cyst	Minimal
Tooth		Malformation	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed at Trim, TGL 6-NST

Animal Note: The observation at necropsy for pancreatic lymph node (Lesion 5) was actually an accessory spleen.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 316

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-316

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea		

MISSING

* Mammary Gland

OBSERVATIONS

* Brain [Compression TGLS = 3-1]	Pons	Compression	Minimal
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Carcinoma	
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Hyperplasia	Focal, Moderate
Note: For acinar cell hyperplasia see slide 5			
* Pituitary Gland [Adenoma TGLS = 2-3]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle		Atrophy	Minimal
* Spleen		Pigmentation	Minimal
* Stomach, Glandular		Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 316	TRT#: 7	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-316

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Mild
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 317

TRT#: 7

SEX: Male

DAY ON TEST: 725

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-317

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-1]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10,11-6,12]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-2]			
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 317

TRT#: 7

SEX: Male

DAY ON TEST: 725

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-317

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Atrophy	Mild
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a,12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
* Stomach, Glandular		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4,5,6,7-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	Bilateral, C Cell	Adenoma	
* Urin Bladder			
Note: TGL 8-NCL			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 318

TRT#: 7

SEX: Male

DAY ON TEST: 716

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-318

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
Peripheral Nerve	* Salivary Glands	Skeletal Muscle	* Skin
* Thyroid Gland	* Trachea		

MISSING

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Hematopoietic Cell Proliferation	Minimal
	Bilateral	Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-1]			
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephroblastoma	
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
[Nephroblastoma TGLS = 2-12]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6,12]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 318	TRT#: 7	SEX: Male	DAY ON TEST: 716
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-318

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 8-13]			
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate			
* Pancreas	Acinus	Atrophy	Focal, Minimal
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
Note: Only One Preputial Gland Examined			
* Prostate		Atrophy	Minimal
* Seminal Vesicle	Bilateral	Adenoma Atrophy	Marked
[Atrophy TGLS = 5-9a,12]			
Spinal Cord			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Stomach, Forestomach		Edema	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
Note: TGL 9-NCL			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,6-9]			
* Thymus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 319

TRT#: 7

SEX: Male

DAY ON TEST: 720

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-319

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Renal Tubule	Hyperplasia	Focal, Moderate
		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver		Angiectasis	Focal, Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6,12]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-5]		
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Atrophy	Minimal
		Inflammation	Chronic, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
	[Atrophy TGLS = 3-9a,12]		
Skeletal Muscle		Inflammation	Chronic, Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 319	TRT#: 7	SEX: Male	DAY ON TEST: 720
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-319

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Stom Gland Note: TGL 6-NCL			
* Stomach, Forestomach [Hyperplasia TGLS = 5-13]	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Not Observed at Trim, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 320

TRT#: 7

SEX: Male

DAY ON TEST: 591

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-320

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Pancreas	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Brain			
Note: TGL 7-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Int Sm Duoden			
Note: TGL 4-NST			
* Int Sm Ileum			
Note: TGL 6-NST			
* Int Sm Jejunum			
Note: TGL 5-NST			
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 2-8]			
* Liver	Bile Duct	Hyperplasia	Minimal
Note: TGL 3-NCL			
* Lung		Congestion	Mild
	Alveolar Epith	Hyperplasia	Focal, Mild
[Congestion TGLS = 1-7]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 320

TRT#: 7

SEX: Male

DAY ON TEST: 591

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-320

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Infiltration Cellular	Histiocyte, Moderate
* Nose		Cyst	Mild
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Acute, Moderate
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland		Hemorrhage	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 321

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Depletion Cellular	Minimal
* Brain			
Note: TGL 4-NCL			
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Pineal Gland		Mineralization	Minimal
Note: TGL 3-NCL			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Acute, Mild
* Seminal Vesicle	Bilateral	Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 321	TRT#: 7	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-321

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 2-9a,12]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	Interstit Cell	Hyperplasia	Focal, Marked
[Adenoma TGLS = 1-9]			
[Hyperplasia TGLS = 1-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 322

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-322

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Nose	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Focal, Marked
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Islets, Pancreatic		Hyperplasia	Focal, Marked
* Kidney	Bilateral	Leukemia Mononuclear	
	Bilateral, Renal Tubule	Nephropathy	Minimal
* Liver	Bile Duct	Pigmentation	Mild
		Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
	[Fibroadenoma TGLS = 1-13]		
* Pancreas	Acinus	Hyperplasia	Focal, Marked
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	[Adenoma TGLS = 8-3]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 322	TRT#: 7	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-322

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 5-9a,12]	Bilateral	Atrophy	Marked
* Skin [Squamous Cell Carcinoma TGLS = 2-9A]	Prepuce	Squamous Cell Carcinoma	
* Spleen [Leukemia Mononuclear TGLS = 6-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 3,4-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 323

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-323

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Focal, Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Cyst	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 324

TRT#: 7

SEX: Male

DAY ON TEST: 554

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-324

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Pineal Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-8]	
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Moderate
		Leukemia Mononuclear	
		[Atrophy TGLS = 2-9,12]	
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 324

TRT#: 7

SEX: Male

DAY ON TEST: 554

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-324

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 4-9]

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 325

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-325

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Atrophy	Mild
		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
Note: Colonies of bacteria are present in the nasal exudate.			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 2-9a]			
* Spleen	Lymph Follic	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 325	TRT#: 7	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-325

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland		Ultimobranchial Cyst	Minimal
Tooth		Malformation	
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 326

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Marked
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung			
Note: TGL 2-NCL			
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
* Seminal Vesicle		Atrophy	Minimal
* Spleen		Depletion Cellular	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 326	TRT#: 7	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-326

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Hematopoietic Cell Proliferation Adenoma	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 327

TRT#: 7

SEX: Male

DAY ON TEST: 470

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-327

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Pigmentation	Minimal
* Bone Marrow		Depletion Cellular	Minimal
* Brain	Hypothalamus	Compression	Moderate
	Cerebrum	Hydrocephalus	Mild
Note: TGL 4-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
	Bilateral	Pigmentation	Minimal
[Pigmentation TGLS = 1-2]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Inflammation	Chronic, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Galactocele	Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Minimal
* Skin		Squamous Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 327	TRT#: 7	SEX: Male	DAY ON TEST: 470
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-327

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 5-NST

* Spleen	Pigmentation	Moderate
* Thymus	Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, TGL 6-NST

Animal Note: Due to recording error on Individual Animal Necropsy Record, there is no TGL 2.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 328

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-328

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Minimal
* Int Sm Duoden			
Note: TGL 4-NCL			
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Acute, Mild
* Seminal Vesicle		Atrophy	Mild
* Skin		Basal Cell Adenoma	
	Subcut Tiss	Fibroma	
[Basal Cell Adenoma TGLS = 1-12]			
[Fibroma TGLS = 2-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 328

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-328

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 329

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-329

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Mild
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-12]			
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Minimal
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 329

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-329

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 2,3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
Tooth		Malformation	

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 330

TRT#: 7

SEX: Male

DAY ON TEST: 621

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
Note: Areas of regeneration present.			
		[Leukemia Mononuclear TGLS = 10-6]	
* Lung		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3,4-7]	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 9-14]	
		[Leukemia Mononuclear TGLS = 12-13]	
* Lymph Node, Mandibular		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-2]	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Adenoma	
	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 330	TRT#: 7	SEX: Male	DAY ON TEST: 621
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-330

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Adenoma Inflammation	Chronic, Minimal
[Adenoma TGLS = 2-15]			
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Moderate
[Atrophy TGLS = 13-9a]			
* Skin	Sebaceous Gl	Adenoma	
[Adenoma TGLS = 11-12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 7,8-9]			
* Thymus		Atrophy	Mild
Note: TGL 5-NCL			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 2 identified grossly as Skin is microscopically identified as occurring i n Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 331

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Focal, Moderate
* Epididymis	Bilateral, Epithelium	Degeneration Inflammation	Mucoid, Mild Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver	Bilateral	Nephropathy Basophilic Focus Clear Cell Focus Infiltration Cellular	Minimal Minimal Mild Mixed Cell, Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Moderate
[Atrophy TGLS = 5-9a]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2,3,4-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 332

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-332

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder	

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
		Vacuolization Cytoplasmic	Focal, Mild
Note: Only one of pair available for evaluation.			
* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
		Hyperplasia	Lymphoid, Mild
			[Hemorrhage TGLS = 6-3]
			[Hyperplasia TGLS = 6-3]
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Moderate
			[Necrosis TGLS = 1-12]
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 332

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-332

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
* Seminal Vesicle		Atrophy	Marked
Note: One of pair examined. [Atrophy TGLS = 4-9a]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Focal, Minimal
		Mineralization	Mild
[Adenoma TGLS = 3-9] [Atrophy TGLS = 2-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 5-2]			
* Trachea		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 333

TRT#: 7

SEX: Male

DAY ON TEST: 726

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Mild
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Marked
* Seminal Vesicle		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 333	TRT#: 7	SEX: Male	DAY ON TEST: 726
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-333

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Stomach, Forestomach		Edema	Mild
		Ulcer	Mild
* Stomach, Glandular		Erosion	Focal, Moderate
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	Bilateral, C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 3-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 334

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Brain			
Note: TGL 6-NCL			
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mandibular		Degeneration	Cystic, Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Preputial Gland		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 334	TRT#: 7	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-334

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic Active, Mild
* Skin	Prepuce	Keratoacanthoma Keratoacanthoma	
Note: The lesion in 12 can be tracked to the prepuce. Tail is unavailable as a site. [Keratoacanthoma TGLS = 7-13] [Keratoacanthoma TGLS = 1-12]			
* Spleen	Lymph Follic	Atrophy Fibrosis	Moderate Moderate
[Fibrosis TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Cyst	Minimal

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 335

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
* Bone Marrow		Depletion Cellular	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Moderate
		Eosinophilic Focus	Marked
	Bile Duct	Hyperplasia	Minimal
	[Basophilic Focus TGLS = 4-6]		
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 1-12]		
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pineal Gland		Mineralization	Mild
* Prostate		Atrophy	Moderate
		Inflammation	Chronic, Mild
* Seminal Vesicle	Bilateral	Dilatation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 335	TRT#: 7	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-335

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 3-9a]			
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 2-9]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 336

TRT#: 7

SEX: Male

DAY ON TEST: 586

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-336

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Pineal Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-3]		
* Preputial Gland		Adenoma	
* Prostate		Inflammation	Acute, Minimal
* Seminal Vesicle		Atrophy	Minimal
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 3-12]		
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 336	TRT#: 7	SEX: Male	DAY ON TEST: 586
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-336

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 4-9]			
* Thymus	Epithel Cell	Atrophy Hyperplasia	Minimal Mild

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 337

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-337

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
	Bilateral	Vacuolization Cytoplasmic	Diffuse, Minimal
* Brain			
Note: TGL 4-NCL			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
	Bronchus	Inflammation	Chronic, Minimal
		Metaplasia	Osseous, Focal, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Chronic Active, Moderate
		Squamous Cell Carcinoma	
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 337	TRT#: 7	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-337

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Adenoma	
	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
		Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 1-9A]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Carcinoma	
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin, Observed at Trim, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 338

TRT#: 7

SEX: Male

DAY ON TEST: 707

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-338

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Glandular	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
Note: One of pair examined.			
[Pheochromocytoma Benign TGLS = 1-3]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Int Lg Cecum			
Note: TGL 5-NCL			
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:22

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 338

TRT#: 7

SEX: Male

DAY ON TEST: 707

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-338

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic Active, Minimal
* Prostate		Atrophy	Mild
		Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 8-9a]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 6-13]			
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 2,7-9]			
[Atrophy TGLS = 3-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: Carcass, Thin, Noted at Trim, TGL 9-NST

Animal Note: Lesion 4 identified grossly as Pancreas is microscopically identified as occurring in Mesentery.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 339

TRT#: 7

SEX: Male

DAY ON TEST: 552

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-339

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-6]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-5]			
* Mammary Gland		Cyst	Minimal
* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Hyperplasia	Focal, Marked
		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 339	TRT#: 7	SEX: Male	DAY ON TEST: 552
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-339

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Leukemia Mononuclear	
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a, 13]			
* Skin	Pinna	Melanoma Malignant	
[Melanoma Malignant TGLS = 8-12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Stomach, Forestomach		Ulcer	Moderate
* Stomach, Glandular		Erosion	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 9-9]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-3]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Not Observed at Trim, TGL 10-NST

Animal Note: Lesion 1 identified grossly as Thymus is microscopically identified as occurring in Mediastinal Lymph Node.

Animal Note: Lesion 8 identified grossly as Ear is microscopically identified as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 340

TRT#: 7

SEX: Male

DAY ON TEST: 714

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-340

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular			

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Leukemia Mononuclear	
Lymph Node			
	Note: Inguinal Lymph Node is Missing; TGL 6-NST		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Moderate
	Note: Fungi present in nasal exudate.		
* Pancreas	Acinus	Atrophy	Focal, Minimal
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 340

TRT#: 7

SEX: Male

DAY ON TEST: 714

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-340

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate	Bilateral	Atrophy	Marked
		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Marked
* Skin	Subcut Tiss	Fibroma	
Note: There is a fibroma involving the subcutis. The tissue taken as Inguinal Lymph Node apparently represents a portin of the fibroma. [Fibroma TGLS = 1-5]			
* Spleen [Leukemia Mononuclear TGLS = 2-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Trachea		Inflammation	Chronic, Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 341

TRT#: 7

SEX: Male

DAY ON TEST: 715

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-341

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Rectum	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Pineal Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Testes	* Thyroid Gland	

AUTO PRECLUDES DIAG.

* Adrenal Medulla	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Blood Vessel		Mineralization	Moderate
* Heart		Cardiomyopathy	Moderate
	Artery	Mineralization	Mild
* Islets, Pancreatic		Carcinoma	
* Kidney	Artery, Bilateral	Mineralization	Moderate
	Bilateral	Mineralization	Marked
	Bilateral, Papilla	Necrosis	Moderate
Note: KIDNEY - RENAL TUBULE - AUTOLYSIS PRECLUDES DIAGNOSIS			
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Marked
* Seminal Vesicle	Bilateral	Dilatation	Moderate
[Dilatation TGLS = 1-9a,12]			
* Spleen		Pigmentation	Minimal
* Stomach, Glandular		Mineralization	Moderate
* Thymus		Atrophy	Marked
* Trachea		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 341

TRT#: 7

SEX: Male

DAY ON TEST: 715

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-341

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Hemorrhage

Moderate

[Hemorrhage TGLS = 2-8]

PRIMARY CAUSE OF DEATH

- Prostate Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 342

TRT#: 7

SEX: Male

DAY ON TEST: 645

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	Peripheral Nerve	* Salivary Glands	Skeletal Muscle
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
	[Leukemia Mononuclear TGLS = 4-3]		
	[Pheochromocytoma Benign TGLS = 4-3]		
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Atrophy	Focal, Mild
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-7]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Leukemia Mononuclear	
Perph Nerve			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 342

TRT#: 7

SEX: Male

DAY ON TEST: 645

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-342

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Sciatic Nerve is Normal

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Minimal
* Prostate		Atrophy	Mild
		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Marked
[Atrophy TGLS = 5-9a,13]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 343

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
		Mesothelioma Malignant	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Marked
		Eosinophilic Focus	Marked
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung	Bronchus	Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Vacuolization Cytoplasmic	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 343

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-343

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Adenoma	
	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
	Epithelium	Hyperplasia	Focal, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a,12]			
* Skin		Melanoma Malignant	
Note: (Tail)			
[Melanoma Malignant TGLS = 1-13]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
Tooth		Malformation	
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 344

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-344

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Respirat Epith	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
Note: TGL 1-NCL			
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 4-9a,12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 345

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-345

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Parathyroid Gland	* Pineal Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	Marked
[Mixed Cell Focus TGLS = 4-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Atrophy	Focal, Moderate
	Acinus	Hyperplasia	Focal, Moderate
* Pineal Gland			
Note: Best section of tissue available.			
* Prostate		Inflammation	Acute, Minimal
* Sem Ves			
Note: TGL 3-NCL			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-5]			
* Spleen		Hemangiosarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 345	TRT#: 7	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-345

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemangiosarcoma TGLS = 5-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 346

TRT#: 7

SEX: Male

DAY ON TEST: 600

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-346

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
	[Pigmentation TGLS = 3-8]		
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-12]		
	[Leukemia Mononuclear TGLS = 7-13]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Moderate
* Seminal Vesicle	Bilateral	Atrophy	Mild
	[Atrophy TGLS = 2-9a]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 346	TRT#: 7	SEX: Male	DAY ON TEST: 600
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-346

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Ulcer	Moderate
* Stomach, Glandular		Erosion	Focal, Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Mild
[Adenoma TGLS = 5-9]			
[Hyperplasia TGLS = 5-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 347

TRT#: 7

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-347

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Nose
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain			
Note: TGL 3-NCL			
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Degeneration	Cystic, Mild
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 2-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 347	TRT#: 7	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-347

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Mild
[Adenoma TGLS = 1-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:22

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 348

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-348

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Mammary Gland	* Pineal Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Hematopoietic Cell Proliferation	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Marked
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
	[Leukemia Mononuclear TGLS = 6-6]		
	[Mixed Cell Focus TGLS = 5-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-7]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Mild
* Seminal Vesicle		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 348	TRT#: 7	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-348

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Hemorrhage TGLS = 1-12]	Lip	Hemorrhage	Mild
* Spleen [Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 349

TRT#: 7

SEX: Male

DAY ON TEST: 306

DOSE: 10 GAUSS INTER.

DISP: Other

HISTO: 94-5216-349

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
Lymph Node	* Lymph Node, Mandibular	* Mammary Gland	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Preputial Gland	* Salivary Glands
Skeletal Muscle	* Skin	Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Pineal Gland

OBSERVATIONS

* Bone Marrow		Depletion Cellular	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Pelvis	Inflammation	Acute, Minimal
	Bilateral	Nephropathy	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Minimal
Lymph Node			
Note: Iliac Lymph Node is Normal			
Note: TGL 3-NCL			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Prostate		Inflammation	Chronic Active, Marked
* Seminal Vesicle		Atrophy	Marked
		Inflammation	Chronic Active, Mild
[Atrophy TGLS = 2-9a]			
* Thymus			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 349

TRT#: 7

SEX: Male

DAY ON TEST: 306

DOSE: 10 GAUSS INTER.

DISP: Other

HISTO: 94-5216-349

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 1-NCL

* Urinary Bladder

Transit Epithe

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 350

TRT#: 7

SEX: Male

DAY ON TEST: 561

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Esophagus

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
		Inflammation	Chronic Active, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
	[Pigmentation TGLS = 3-8]		
* Liver		Hepatocellular Adenoma	
		Leukemia Mononuclear	
	[Hepatocellular Adenoma TGLS = 2-12]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic, Minimal
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pituitary Gland	Pars Intermed	Cyst	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 350	TRT#: 7	SEX: Male	DAY ON TEST: 561
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-350

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-9]			
* Thymus		Atrophy	Mild
Note: TGL 4-NCL			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed at Trim, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:22

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 351

TRT#: 17

SEX: Male

DAY ON TEST: 677

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-351

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 3-3]			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Marked
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-14]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 6-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 351	TRT#: 17	SEX: Male	DAY ON TEST: 677
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-351

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Marked
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 5-9a,12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Glandular		Erosion	Focal, Marked
[Erosion TGLS = 10-4]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4,9-9]			
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 6 identified grossly as Pancreas is microscopically identified as occurring in Mesentery.

Animal Note: Carcass, Thin, Observed at Trim, TGL 11-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 352

TRT#: 17

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Infiltration Cellular	Mixed Cell, Minimal
		Vacuolization Cytoplasmic	Minimal
	[Vacuolization Cytoplasmic TGLS = 3-6]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Marked
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-3]		
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-9]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 352

TRT#: 17

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-352

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 353

TRT#: 17

SEX: Male

DAY ON TEST: 365

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-353

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
		Pigmentation	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Minimal
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Hyperplasia	Focal, Minimal
* Thymus		Atrophy	Moderate
Zymbal's Gland		Carcinoma	

[Carcinoma TGLS = 1-12]

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 354

TRT#: 17

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-354

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Cyst	Minimal
	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
		Degeneration	Cystic, Minimal
* Lymph Node, Mandibular			
Note: TGL 1-NCL			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Basophilic Focus	Minimal
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Atrophy	Mild
	Epithelium	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 354	TRT#: 17	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-354

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 3-9a,12]	Bilateral	Atrophy	Marked
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Minimal
* Thyroid G1 Note: TGL 4-NCL			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 355

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Hyperplasia	Focal, Mild
		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Acute, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-9a]		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 355	TRT#: 17	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-355

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy Inflammation	Minimal Acute, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 356

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Brain	Hypothalamus	Compression	Minimal
[Compression TGLS = 6-1]			
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Interstitialium	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Galactocele	Moderate
	Epithelium	Hyperplasia	Mild
[Galactocele TGLS = 1,2-12]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Preputial Gland		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 356	TRT#: 17	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-356

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Atrophy Hyperplasia Inflammation	Minimal Focal, Mild Chronic Active, Moderate
[Inflammation TGLS = 3-9a]			
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 357

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-357

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Degeneration	Mucoid, Mild
* Epididymis	Bilateral, Epithelium	Infiltration Cellular	Lymphocyte, Minimal
* Harderian Gland	Bilateral	Cardiomyopathy	Mild
* Heart		Mineralization	Minimal
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral	Pigmentation	Mild
	Bilateral, Renal Tubule	Hyperplasia	Moderate
* Liver	Bile Duct	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
		Pigmentation	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Marked
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Inflammation	Chronic, Mild

Note: One of pair examined.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 357	TRT#: 17	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-357

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy Leukemia Mononuclear	Moderate
* Seminal Vesicle [Atrophy TGLS = 5-9a,12]	Bilateral	Atrophy	Marked
* Skin [Basal Cell Adenoma TGLS = 2-12] [Keratoacanthoma TGLS = 1-13]	Lip	Basal Cell Adenoma Keratoacanthoma	
* Spleen [Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear	
* Stomach, Forestomach		Edema	Mild
* Testes [Adenoma TGLS = 4-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 358

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-358

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Pineal Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
		Vacuolization Cytoplasmic	Focal, Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Marked
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
* Skin	Subcut Tiss	Sarcoma	
[Sarcoma TGLS = 1-12]			
* Spleen		Congestion	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 358

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-358

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-9]

* Thyroid Gland

C Cell

Adenoma

* Trachea

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 359

TRT#: 17

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-359

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
[Degeneration TGLS = 1-2]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 359	TRT#: 17	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-359

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 4-9a,12]			
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 360

TRT#: 17

SEX: Male

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-360

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Brain			
Note: TGL 5-NCL			
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Galactocele	Moderate
	Epithelium	Hyperplasia	Minimal
[Galactocele TGLS = 1-12]			
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 360	TRT#: 17	SEX: Male	DAY ON TEST: 738
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-360

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Moderate Chronic Active, Mild
	[Inflammation TGLS = 2-9a,9a.1]		
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-9]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 361

TRT#: 17

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-361

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone	Cranium	Hyperostosis	Mild
Note: Femur is Normal			
[Hyperostosis TGLS = 6-14]			
* Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
	Iris	Synechia	Moderate
[Cataract TGLS = 5-13]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
[Nephropathy TGLS = 1-8]		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 361	TRT#: 17	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-361

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
* Seminal Vesicle		Atrophy	Moderate
		Dilatation	Moderate
[Atrophy TGLS = 4-12]			
[Dilatation TGLS = 3-9a]			
* Testes	Bilateral, Germinal Epith	Atrophy	Marked
[Atrophy TGLS = 2-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 362

TRT#: 17

SEX: Male

DAY ON TEST: 698

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-362

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain			
Note: TGL 5-NCL			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart	Pericardium	Inflammation	Chronic, Marked
	Atrium	Thrombosis	Moderate
[Inflammation TGLS = 8-4]			
* Islets, Pancreatic		Adenoma	
* Kidney	Bilateral	Nephropathy	Moderate
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Mineralization	Minimal
* Nose	Nasolacrim Dct	Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 362	TRT#: 17	SEX: Male	DAY ON TEST: 698
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-362

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy Inflammation	Moderate Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a,12]			
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Leukemia Mononuclear	
		Ulcer	Moderate
* Testes	Interstit Cell Germinal Epith	Adenoma Atrophy	Marked
Note: The Gross Finding of Focus was confirmed for the right Testicle.			
[Adenoma TGLS = 1-9]			
[Atrophy TGLS = 2-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH	- Heart Pericardium Inflammation
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

Animal Note: Cavities, Pericardial, Fluid, 4 ml, Red, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 363

TRT#: 17

SEX: Male

DAY ON TEST: 570

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-363

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands	* Trachea

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic Hyperplasia	Diffuse, Mild Focal, Marked
* Adrenal Medulla			
Note: Only one medulla of pair examined.			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3,4-8]			
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node		Leukemia Mononuclear	
Note: Lymph Nodes represented in block 12 correspond to multiple masses in the abdominal cavity, TGL 5			
[Leukemia Mononuclear TGLS = 5-12]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Leukemia Mononuclear	
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
		Leukemia Mononuclear	
* Preputial Gland		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 363	TRT#: 17	SEX: Male	DAY ON TEST: 570
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-363

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Leukemia Mononuclear	
* Seminal Vesicle		Atrophy	Marked
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Germinal Epith	Atrophy	Marked
	Bilateral, Interstit Cell	Hyperplasia	Focal, Minimal
[Atrophy TGLS = 2-9]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 364

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
[Adenoma TGLS = 1-9a]			
* Prostate		Atrophy	Marked
	Epithelium	Hyperplasia	Focal, Mild
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 364	TRT#: 17	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-364

ORGAN AND ACCOUNTABLE SITE STATUS

	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Focal, Minimal
[Adenoma TGLS = 2-9]			
[Atrophy TGLS = 2-9]			
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 365

TRT#: 17

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Brain			
Note: TGL 7-NCL			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Minimal
[Nephropathy TGLS = 4-8]			
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Moderate
		Mixed Cell Focus	Mild
* Mammary Gland	Epithelium	Hyperplasia	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
	Epithelium	Hyperplasia	Focal, Moderate
		Inflammation	Acute, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 365	TRT#: 17	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-365

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 1-9a,12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
Note: TGL 5-NCL			
[Adenoma TGLS = 6-2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 366

TRT#: 17

SEX: Male

DAY ON TEST: 720

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-366

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Preputial Gland
* Salivary Glands	Skeletal Muscle	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
		Mesothelioma Malignant	
* Harderian Gland		Hyperplasia	Focal, Mild
	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Marked
Note: Both atria are thrombosed [Thrombosis TGLS = 5,6-4]			
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Necrosis	Marked
		Vacuolization Cytoplasmic	Moderate
[Vacuolization Cytoplasmic TGLS = 2-6,12]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-13]			
Perph Nerve			
Note: Sciatic Nerve is Normal			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 366	TRT#: 17	SEX: Male	DAY ON TEST: 720
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-366

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Sciatic Nerve is Normal			
* Pineal Gland		Mineralization	Minimal
* Preputial GI			
Note: Only one of pair available for examination.			
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 4-9a,12]			
* Skin		Cyst Epithelial Inclusion	
	Dermis	Fibroma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes		Adenoma	
[Adenoma TGLS = 1-9]	Bilateral, Interstit Cell		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
PRIMARY CAUSE OF DEATH	- Heart Atrium Thrombosis		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 367

TRT#: 17

SEX: Male

DAY ON TEST: 576

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-367

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
		Mesothelioma Malignant	
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart	Atrium	Cardiomyopathy	Mild
		Thrombosis	Marked
			[Thrombosis TGLS = 6-4]
* Liver	Centrilobular	Necrosis	Moderate
			[Necrosis TGLS = 2-6]
* Lung	Interstitial	Inflammation	Chronic, Mild
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Mild
			Note: Fungi present in nasal exudate.
* Pineal Gland		Mineralization	Minimal
* Prostate		Atrophy	Mild
* Seminal Vesicle		Mesothelioma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Mesothelioma Malignant	
			[Hematopoietic Cell Proliferation TGLS = 1-6]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 367	TRT#: 17	SEX: Male	DAY ON TEST: 576
	DOSE: 10 GAUSS INTER.	DISP: Natural Death	HISTO: 94-5216-367

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular [Erosion TGLS = 7-4]		Erosion	Focal, Minimal
* Testes [Adenoma TGLS = 4,8-9] [Hyperplasia TGLS = 8-9]	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Focal, Mild
* Thymus Tissue NOS [Mesothelioma Malignant TGLS = 5-12]	Pelvic	Atrophy Mesothelioma Malignant	Moderate
* Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH - Epididymis Mesothelioma Malignant

Animal Note: Cavities, Abdominal, Fluid, 80ml, Red, TGL 3-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 368

TRT#: 17

SEX: Male

DAY ON TEST: 636

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-368

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Trachea	* Urinary Bladder

MISSING

* Adrenal Medulla	* Mammary Gland	* Pineal Gland	* Thymus
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 3-1]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Chronic, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Prostate		Inflammation	Chronic Active, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 1-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
		Ulcer	Moderate
[Ulcer TGLS = 4-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 368	TRT#: 17	SEX: Male	DAY ON TEST: 636
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-368

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular		Inflammation	Chronic Active, Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 369

TRT#: 17

SEX: Male

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-369

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Brain			
Note: The pituitary tissue embedded at the base of the brain was considered an artifact.			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Sarcoma	
[Sarcoma TGLS = 3-12]			
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Atrophy	Moderate
* Seminal Vesicle		Atrophy	Marked
* Skin	Dermis	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 369

TRT#: 17

SEX: Male

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-369

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1,2-9]

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 3 identified grossly as Jejunum is microscopically identified Ileum.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:22

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 370

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-370

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Blood Vessel | * Bone | * Brain | * Esophagus |
| * Harderian Gland | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Salivary Glands | * Stomach, Forestomach |
| Tissue NOS | * Trachea | | |

MISSING

- * Pineal Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|-------------------------|-----------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | Bilateral | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | Bilateral, Epithelium | Degeneration | Mucoid, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| | | Leukemia Mononuclear | |
| * Intestine Large, Cecum | | Edema | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | Bilateral | Nephropathy | Mild |
| | Bilateral, Renal Tubule | Pigmentation | Moderate |
| * Liver | | Hepatocellular Adenoma | |
| | Bile Duct | Hyperplasia | Marked |
| | | Leukemia Mononuclear | |
| | [Hepatocellular Adenoma TGLS = 10-6] | | |
| | [Leukemia Mononuclear TGLS = 9-6,12; 10-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 13-3] | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | | Accessory Spleen | |
| | [Accessory Spleen TGLS = 8-13] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 370 **TRT#:** 17 **SEX:** Male **DAY ON TEST:** 736
DOSE: 10 GAUSS INTER. **DISP:** Terminal Sacrifice **HISTO:** 94-5216-370

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	Rathkes Cleft	Cyst	Mild
		Leukemia Mononuclear	
[Adenoma TGLS = 11-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
		Leukemia Mononuclear	
* Prostate		Inflammation	Acute, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 2-9a,12]			
* Skin	Dermis	Fibroma	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6,7-6]			
* Stomach, Glandular		Erosion	Focal, Minimal
[Erosion TGLS = 14-15]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4,5-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Moderate
Tissue NOS			
Note: TGL 12-NCL			
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

Animal Note: Carcass, Thin, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 371

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-371

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Mild Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Marked
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
[Basophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mandibular		Degeneration Hyperplasia	Cystic, Mild Lymphoid, Mild
[Degeneration TGLS = 1-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate			
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy Inflammation	Mild Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 371	TRT#: 17	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-371

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy	Moderate
* Skin	Dermis	Fibroma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 372

TRT#: 17

SEX: Male

DAY ON TEST: 726

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-372

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain			
Note: TGL 8-NCL			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6,12]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 372	TRT#: 17	SEX: Male	DAY ON TEST: 726
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-372

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 9-3]			
* Preputial Gland		Inflammation	Chronic, Mild
Note: Only one of pair available for evaluation.			
* Prostate		Atrophy	Moderate
		Inflammation	Chronic Active, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
		Leukemia Mononuclear	
[Atrophy TGLS = 2-9a,12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Stomach, Glandular		Erosion	Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 373

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-373

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Moderate
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Atrophy	Focal, Mild
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 6-4]	
* Kidney	Bilateral	Leukemia Mononuclear	
		Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-6,12]	
* Lung		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 7,8-7]	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 373	TRT#: 17	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-373

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Leukemia Mononuclear Mineralization	Minimal
* Pituitary Gland [Leukemia Mononuclear TGLS = 9-3]		Leukemia Mononuclear	
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle		Atrophy	Minimal
* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2,3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -
Animal Note: Cavity, Thoracic, Fluid, Red, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 374

TRT#: 17

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-374

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Marked
Note: See slide 5 for lesion.			
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
[Leukemia Mononuclear TGLS = 6-6,12]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 5-12]			
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 374	TRT#: 17	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-374

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 10-9a,12]	Bilateral	Atrophy	Marked
* Skin [Fibroma TGLS = 1-13]	Subcut Tiss	Fibroma	
* Spleen [Leukemia Mononuclear TGLS = 3,4-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 8,9-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as Sk in.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 375

TRT#: 17

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-375

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mandibular [Hyperplasia TGLS = 2-2.1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland [Fibroadenoma TGLS = 1-13]		Cyst	Minimal
		Fibroadenoma	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate			
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 375	TRT#: 17	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-375

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 5-9a,12]	Bilateral	Atrophy	Moderate
* Testes [Adenoma TGLS = 3,4-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Thyroid Gland Note: TGL 6-NCL	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 376

TRT#: 17

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-376

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a,12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 377

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-377

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
Note: TGL 3-NCL			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Prostate		Atrophy	Minimal
		Inflammation	Chronic, Mild
* Seminal Vesicle	Bilateral	Atrophy	Minimal
[Atrophy TGLS = 2-9a,12]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 378

TRT#: 17

SEX: Male

DAY ON TEST: 535

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-378

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Pancreas
Peripheral Nerve	* Pineal Gland	* Salivary Glands	Skeletal Muscle
* Skin	Spinal Cord	* Testes	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Depletion Cellular	Minimal
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 1-1]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Mixed Cell Focus TGLS = 3-6]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Moderate
[Cyst TGLS = 4-5]			
* Nose	Nasolacrim Dct	Inflammation	Chronic Active, Moderate
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 378	TRT#: 17	SEX: Male	DAY ON TEST: 535
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-378

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Acute, Mild
		Ulcer	Moderate
[Ulcer TGLS = 5-13]			
* Stomach, Glandular		Inflammation	Acute, Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Cyst	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 379

TRT#: 17

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-379

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mandibular		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
* Seminal Vesicle		Atrophy	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1,2,3-9]		
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 380

TRT#: 17

SEX: Male

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-380

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6,12]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Galactocele	Minimal
* Pancreas	Acinus	Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-3]		
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
* Seminal Vesicle		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 380	TRT#: 17	SEX: Male	DAY ON TEST: 738
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-380

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
		Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 381

TRT#: 17

SEX: Male

DAY ON TEST: 577

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-381

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Pineal Gland	* Salivary Glands	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Diffuse, Mild
[Vacuolization Cytoplasmic TGLS = 7-3]			
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Inflammation	Acute, Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Inflammation	Chronic, Mild
		Pigmentation	Mild
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 3-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Minimal
	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 2-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 381	TRT#: 17	SEX: Male	DAY ON TEST: 577
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-381

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy Inflammation	Moderate Acute, Minimal
* Seminal Vesicle [Atrophy TGLS = 4-9a,14]	Bilateral	Atrophy	Marked
* Skin		Inflammation	Acute, Mild
* Spleen [Hematopoietic Cell Proliferation TGLS = 1-6]	Lymph Follic	Atrophy Hematopoietic Cell Proliferation	Mild Mild
* Stomach, Glandular		Erosion	Focal, Minimal
* Testes [Adenoma TGLS = 5,6-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Preputial Gland Carcinoma

Animal Note: Carcass, Thin, Observed at Trim, TGL 8-NST

Animal Note: Lesion 2 identified grossly as Mammary Gland is microscopically identified as oc curring in Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:22
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 382

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-382

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Brain			
Note: TGL 8-NCL			
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Carcinoma	
Note: See Slide 5 For Lesion			
* Kidney	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	Marked
[Leukemia Mononuclear TGLS = 6-6,12]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-3]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
		Infiltration Cellular	Lymphocyte, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 382	TRT#: 17	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-382

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 5-9a,12]		
* Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 1-6]		
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 2,3,4-9]		
* Thyroid Gland	C Cell	Carcinoma
[Carcinoma TGLS = 7-2]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 383

TRT#: 17

SEX: Male

DAY ON TEST: 557

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-383

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Marked
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
	[Atrophy TGLS = 1-9a, 12]		
* Skin		Cyst Epithelial Inclusion	
	[Keratoacanthoma TGLS = 6-13]	Keratoacanthoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 383	TRT#: 17	SEX: Male	DAY ON TEST: 557
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-383

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear	
* Stomach, Forestomach		Edema	Minimal
* Testes [Adenoma TGLS = 2,5-9] [Hyperplasia TGLS = 2,5-9]	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Focal, Minimal
* Thymus Tooth		Atrophy Malformation	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed at Trim, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 384

TRT#: 17

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-384

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland		

OBSERVATIONS

* Adren Cortex Note: TGL 5-NCL			
* Adrenal Medulla Note: TGL 5-NCL		Hyperplasia	Focal, Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum	Peyers Patch	Hyperplasia	Lymphoid, Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Moderate
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
[Adenoma TGLS = 6-3]			
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Minimal
[Adenoma TGLS = 1-9]			
* Prostate		Atrophy	Minimal
	Epithelium	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 384	TRT#: 17	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-384

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 3-9a,12]	Bilateral	Atrophy	Moderate
* Skin [Keratoacanthoma TGLS = 2-12]		Keratoacanthoma	
* Spleen		Pigmentation	Minimal
* Testes [Adenoma TGLS = 4-9]	Bilateral, Interstit Cell	Adenoma	
* Trachea		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 385

TRT#: 17

SEX: Male

DAY ON TEST: 579

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-385

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Pineal Gland
* Pituitary Gland	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Brain	Cerebellum	Schwannoma Malignant	Metastatic (Skin)
* Harderian Gland		Atrophy	Diffuse, Mild
		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lung		Foreign Body	
		Inflammation	Acute, Moderate
[Inflammation TGLS = 2-7]			
* Lymph Node, Mandibular		Schwannoma Malignant	Metastatic (Skin)
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Acute, Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Hyperplasia	Focal, Mild
		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Salivary Glands		Schwannoma Malignant	Metastatic (Skin)
[Schwannoma Malignant TGLS = 4-13]			
* Seminal Vesicle		Atrophy	Moderate
* Skin	Subcut Tiss	Schwannoma Malignant	

Note: The schwannoma (Antoni type A pattern) involves the Salivary Gland, Mandibular Lymph Node and internal and middle ear. It may be of trigeminal nerve origin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 385	TRT#: 17	SEX: Male	DAY ON TEST: 579
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-385

ORGAN AND ACCOUNTABLE SITE STATUS

[Schwannoma Malignant TGLS = 3-12,13]			
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Schwannoma Malignant

Animal Note: Lesion 3 identified grossly as Zymbals Gland is microscopically identified as oc curring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 386

TRT#: 17

SEX: Male

DAY ON TEST: 666

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-386

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
* Mammary Gland		Pigmentation	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
	[Atrophy TGLS = 2-9a]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 386	TRT#: 17	SEX: Male	DAY ON TEST: 666
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-386

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 1-12]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 3,5-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Carcinoma	
* Trachea		Inflammation	Chronic, Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 387

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-387

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration Inflammation	Mucoid, Mild Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Mild
* Lung	Interstitialium	Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Minimal
		Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 2-9a]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 387

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-387

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 388

TRT#: 17

SEX: Male

DAY ON TEST: 489

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-388

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow		Depletion Cellular	Minimal
* Brain			
Note: TGL 4-NCL			
* Esophagus			
Note: TGL 1-NST			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
		Pigmentation	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung	Interstitium	Inflammation	Acute, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-5]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Minimal
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 388

TRT#: 17

SEX: Male

DAY ON TEST: 489

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-388

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 389

TRT#: 17

SEX: Male

DAY ON TEST: 559

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-389

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland	* Pineal Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

Mesentery

OBSERVATIONS

* Brain	Cerebrum	Oligodendroglioma Malignant	
	[Oligodendroglioma Malignant TGLS = 2-1,13]		
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung		Congestion	Moderate
		Edema	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
	[Congestion TGLS = 1-7]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Pigmentation	Minimal
Mesentery			
Note: TGL 4-NST			
* Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate			
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 389

TRT#: 17

SEX: Male

DAY ON TEST: 559

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-389

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate [Inflammation TGLS = 5-9a]		Inflammation	Chronic Active, Moderate
* Seminal Vesicle		Atrophy	Marked
* Testes [Adenoma TGLS = 3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Cyst	Mild

PRIMARY CAUSE OF DEATH - Brain Cerebrum Oligodendroglioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 390

TRT#: 17

SEX: Male

DAY ON TEST: 688

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-390

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Pigmentation	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Eosinophilic Focus	Minimal
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Mild
		Necrosis	Marked
		[Hepatodiaphragmatic Nodule TGLS = 3-12]	
		[Necrosis TGLS = 2-6]	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Adenoma	
		[Adenoma TGLS = 1-9a]	
* Prostate		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular		Erosion	Focal, Minimal
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 390	TRT#: 17	SEX: Male	DAY ON TEST: 688
	DOSE: 10 GAUSS INTER.	DISP: Natural Death	HISTO: 94-5216-390

ORGAN AND ACCOUNTABLE SITE STATUS

	Germinal Epith	Atrophy	Minimal
	Interstit Cell	Hyperplasia	Focal, Moderate
[Adenoma TGLS = 4-9]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Preputial Gland Bilateral Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 391

TRT#: 17

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-391

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Hematopoietic Cell Proliferation	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
[Leukemia Mononuclear TGLS = 7-6]			
* Lung		Chordoma	Metastatic (Uncertain Primary Site)
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-12, 5-13]			
* Pineal Gland		Mineralization	Moderate
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 1-9a]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 391

TRT#: 17

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-391

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 6-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2,3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus	Epithel Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 392

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Prostate
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Urinary Bladder			

MISSING

* Adrenal Medulla

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	Interstit Cell	Hyperplasia	Focal, Minimal

[Adenoma TGLS = 1-9]
 [Atrophy TGLS = 2-9]
 [Hyperplasia TGLS = 1-9]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 392	TRT#: 17	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-392

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus	Lymphatic	Lymphoma Malignant	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 393

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-393

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Pancreas
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Adrenal Medulla	* Parathyroid Gland	* Pineal Gland
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OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
	Atrium	Mineralization	Minimal
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Moderate
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Minimal
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-12]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 393

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-393

ORGAN AND ACCOUNTABLE SITE STATUS

Germinal Epith

Atrophy

Marked

Interstit Cell

Hyperplasia

Focal, Minimal

[Adenoma TGLS = 2,3-9]

[Atrophy TGLS = 4-9]

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 394

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Brain			
Note: TGL 5-NCL			
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Moderate
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Galactocele	Mild
[Galactocele TGLS = 1-12]			
* Nose		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 3-9a]			
* Salivary Glands	Submandibul GI	Atrophy	Mild
* Seminal Vesicle		Atrophy	Minimal
* Spleen		Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 394	TRT#: 17	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-394

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 2-6]		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-9]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 395

TRT#: 17

SEX: Male

DAY ON TEST: 527

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-395

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6, 12]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Nose		Inflammation	Chronic Active, Minimal
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Spleen		Accessory Spleen	
	[Accessory Spleen TGLS = 2-14]	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		
* Stomach, Glandular		Erosion	Focal, Mild
	[Erosion TGLS = 4-13]		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Mild
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 395

TRT#: 17

SEX: Male

DAY ON TEST: 527

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-395

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Animal Note: Lesion 2 identified grossly as Mesentery is microscopically identified as Spleen .

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 396

TRT#: 17

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-396

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Clear Cell Focus	Minimal
		Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
		Inflammation	Acute, Mild
* Seminal Vesicle	Bilateral	Atrophy	Moderate
[Atrophy TGLS = 1-9a,12]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 396	TRT#: 17	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-396

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-9]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	
[Carcinoma TGLS = 3-2]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 397

TRT#: 17

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-397

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral, Renal Tubule	Nephropathy	Mild
* Liver		Pigmentation	Minimal
		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Diffuse, Moderate
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Minimal
		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Moderate
[Atrophy TGLS = 2-9a,12]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 397	TRT#: 17	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-397

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Bilateral, C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 398

TRT#: 17

SEX: Male

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-398

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain	Hypothalamus	Compression	Minimal
[Compression TGLS = 4-1]			
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 398

TRT#: 17

SEX: Male

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-398

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 399

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-399

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Pineal Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6,12]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Moderate
	[Atrophy TGLS = 2-9a,12]		
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-13]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 399

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-399

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 400

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-400

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla Note: Only one of pair available for examination.		Hyperplasia	Focal, Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Minimal
[Adenoma TGLS = 1-14]			
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Subcut Tiss	Lipoma	
[Lipoma TGLS = 2-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Trachea		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 400

TRT#: 17

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-400

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 2 identified grossly as Mammary Gland is microscopically identified as occurring in Skin.

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 401

TRT#: 9

SEX: Male

DAY ON TEST: 662

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-401

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy Vacuolization Cytoplasmic	Focal, Minimal Focal, Minimal
* Brain [Compression TGLS = 8-1]	Hypothalamus	Compression	Marked
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Basophilic Focus Hyperplasia Leukemia Mononuclear	Minimal Mild
* Lung [Leukemia Mononuclear TGLS = 6-6]		Congestion	Mild
* Lymph Node, Mandibular [Congestion TGLS = 1,2,3-7]		Degeneration Hyperplasia	Cystic, Mild Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Marked
* Pituitary Gland [Adenoma TGLS = 7-3]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 401	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Natural Death	DAY ON TEST: 662 HISTO: 94-5216-401
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 4-6]		Leukemia Mononuclear	
* Thyroid Gland	Follicle C Cell	Cyst Hyperplasia	Minimal Diffuse, Mild
* Urin Bladder Note: TGL 5-NCL			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 402 **TRT#:** 9 **SEX:** Male **DAY ON TEST:** 725
DOSE: 10 GAUSS **DISP:** Moribund Sacrifice **HISTO:** 94-5216-402

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-9a]		
* Seminal Vesicle	Bilateral	Atrophy	Marked
	[Atrophy TGLS = 4-9a,12]		
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 2-12]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 6,7,8-9]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 402

TRT#: 9

SEX: Male

DAY ON TEST: 725

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-402

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 403

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
[Degeneration TGLS = 2,3-9]			
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 6-6]			
[Clear Cell Focus TGLS = 7-NCL]			
[Hyperplasia TGLS = 6-6]			
* Lymph Node, Mandibular		Hemorrhage	Mild
[Hemorrhage TGLS = 1-2]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-12]			
* Pancreas	Acinus	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 403	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-403
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Minimal Focal, Minimal
* Preputial Gland		Hyperplasia	Focal, Marked
* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle [Atrophy TGLS = 4-9a,12]	Bilateral	Atrophy	Moderate
* Spleen	Lymph Follic	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 2 and 3 identified grossly as Testes are microscopically identified as occurring Epididymis.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 404

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Pineal Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 4-3]			
* Brain			
Note: TGL 6-NCL			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Moderate
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Mild
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Nasolacrim Dct	Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 404	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-404
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Mild
* Seminal Vesicle [Atrophy TGLS = 3-9a,12]	Bilateral	Atrophy	Moderate
* Skin	Subcut Tiss	Lipoma	
* Testes [Adenoma TGLS = 1,2-9]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:23

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 405

TRT#: 9

SEX: Male

DAY ON TEST: 647

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-405

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-2]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
		[Necrosis TGLS = 5-14]	
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 405	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 647 HISTO: 94-5216-405
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 3-9a,13]		Atrophy	Marked
* Spleen [Leukemia Mononuclear TGLS = 1-12]		Leukemia Mononuclear	
* Stomach, Forestomach		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2-9]	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Focal, Mild
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 406

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Focal, Marked
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Moderate
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Marked
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 406	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-406
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 3-9a,12]	Bilateral	Atrophy	Moderate
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:23

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 407

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Parathyroid Gland
* Pineal Gland	* Preputial Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration Inflammation	Mucoid, Minimal Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization Nephropathy	Minimal Mild
* Liver		Basophilic Focus Clear Cell Focus	Minimal Mild
	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
* Lymph Node, Mandibular		Degeneration Hyperplasia	Cystic, Mild Lymphoid, Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
* Nose	Olfactory Epi	Cytoplasmic Alteration Inflammation	Mild Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Leukemia Mononuclear Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 407	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-407
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ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 408

TRT#: 9

SEX: Male

DAY ON TEST: 485

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Brain	Cranial Nerve	Schwannoma Malignant	
	[Schwannoma Malignant TGLS = 1-12]		
* Heart		Cardiomyopathy	Mild
* Kidney			
	Note: TGL 2-NCL		
* Liver	Hepatocyte	Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung		Congestion	Mild
	[Congestion TGLS = 4-7]		
* Lymph Node, Mesenteric	Fat	Infiltration Cellular	Histiocyte, Minimal
		Necrosis	Mild
	[Necrosis TGLS = 3-13]		
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Seminal Vesicle		Atrophy	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Brain Cranial Nerve Schwannoma Malignant

Animal Note: Lesion 1 identified grossly as Cavities is microscopically identified as occurring in Brain.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 409

TRT#: 9

SEX: Male

DAY ON TEST: 551

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pineal Gland	* Pituitary Gland
* Preputial Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
Note: TGL 6-NCL			
* Lung		Congestion	Mild
[Congestion TGLS = 1-7]			
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-12]			
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Prostate		Atrophy	Mild
* Salivary Glands	Parotid GI	Fibrosis	Focal, Moderate
* Seminal Vesicle	Bilateral	Atrophy	Moderate
[Atrophy TGLS = 4-9a]			
* Spleen		Pigmentation	Minimal
Note: TGL 2-NCL			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Minimal
[Adenoma TGLS = 3-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 409

TRT#: 9

SEX: Male

DAY ON TEST: 551

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-409

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 410 **TRT#:** 9 **SEX:** Male **DAY ON TEST:** 565
DOSE: 10 GAUSS **DISP:** Moribund Sacrifice **HISTO:** 94-5216-410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Pineal Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
		Mesothelioma Malignant	
* Heart	Atrium	Thrombosis	Moderate
[Thrombosis TGLS = 10-4]			
* Intestine Large, Colon		Mesothelioma Malignant	
* Kidney	Bilateral	Pigmentation	Moderate
[Pigmentation TGLS = 4-8]			
* Liver	Hepatocyte	Hematopoietic Cell Proliferation	Mild
[Vacuolization Cytoplasmic TGLS = 5-6]		Vacuolization Cytoplasmic	Mild
Lymph Node	Mediastinal	Pigmentation	Mild
[Pigmentation TGLS = 6-3]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 8-13]			
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Adenoma	
		Mesothelioma Malignant	
* Preputial Gland		Inflammation	Chronic Active, Mild
		Mesothelioma Malignant	
* Prostate		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 410	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 565 HISTO: 94-5216-410
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy Mesothelioma Malignant	Moderate
* Spleen [Hematopoietic Cell Proliferation TGLS = 3-6]		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular [Erosion TGLS = 9-4]		Erosion	Focal, Minimal
* Testes [Mesothelioma Malignant TGLS = 1,2-9;11-14]	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant	
* Thymus		Atrophy	Marked
* Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH - Epididymis Mesothelioma Malignant

Animal Note: Cavities, Abdominal, Fluid, Greater than 60 ml, Dark, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 411

TRT#: 9

SEX: Male

DAY ON TEST: 699

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-411

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney	Bilateral	Leukemia Mononuclear	
	Bilateral, Renal Tubule	Nephropathy	Minimal
	Bile Duct	Pigmentation	Mild
* Liver		Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6,12]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Parathyroid Gland		Hyperplasia	Focal, Mild
* Pituitary Gland		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-3]		
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
	[Adenoma TGLS = 1-13]		
* Prostate		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 411	TRT#: 9	SEX: Male	DAY ON TEST: 699
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-411

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle	Bilateral	Inflammation Atrophy Leukemia Mononuclear	Chronic Active, Moderate Marked
[Atrophy TGLS = 2-9a,12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Cyst	Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed, TGL 7-NST

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as oc curring in Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:23

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 412

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain	Chor Plexus	Mineralization	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
[Degeneration TGLS = 1-9]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
		Schwannoma Malignant	
* Kidney	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: Regenerative Nodule present.			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 2-12,13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 412	TRT#: 9	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-412

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear
* Testes	Bilateral, Interstit Cell	Adenoma
* Thymus		Leukemia Mononuclear
* Thyroid Gland	C Cell	Adenoma

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Testes is microscopically identified as occurring in Epididymis.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 413

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Pineal Gland

OBSERVATIONS

* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Moderate
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mandibular		Hemorrhage	Mild
[Hemorrhage TGLS = 2-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Mild
[Atrophy TGLS = 3-9a,12]			
* Skin	Lip	Squamous Cell Papilloma	
Note: The squamous cell papilloma has a prominent sebaceous cell component.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 413	TRT#: 9	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-413

ORGAN AND ACCOUNTABLE SITE STATUS

[Squamous Cell Papilloma TGLS = 1-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-9]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 414

TRT#: 9

SEX: Male

DAY ON TEST: 445

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-414

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adren Cortex			
Note: Only one of pair available for evaluation.			
* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Bone Marrow		Hyperplasia	Mild
* Brain			
Note: TGL 6-NCL			
Eye	Retina	Atrophy	Mild
Note: TGL 5-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Cyst	Mild
	Bilateral, Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 4-8]			
* Liver		Necrosis	Minimal
Note: TGL 2-NCL			
[Necrosis TGLS = 3-6]			
* Lung	Interstitial	Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 1-7]			
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 414	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 445 HISTO: 94-5216-414
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Adenoma	
[Adenoma TGLS = 7-12,14]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Hyperplasia	Focal, Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Preputial Gland Adenoma

Animal Note: Lesion 7 identified grossly as Skin is microscopically identified as occurring i n Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 415

TRT#: 9

SEX: Male

DAY ON TEST: 728

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-415

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Hemorrhage	Mild
[Hemorrhage TGLS = 1-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 5-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic, Minimal
Note: Fungi present in nasal exudate.			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Preputial Gland		Hyperplasia	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 415	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Natural Death	DAY ON TEST: 728 HISTO: 94-5216-415
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ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Bilateral	Inflammation	Chronic, Mild
* Spleen		Inflammation	Chronic Active, Mild
[Leukemia Mononuclear TGLS = 2-6]		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 5 identified grossly as Skin microscopically identified as Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 416

TRT#: 9

SEX: Male

DAY ON TEST: 715

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-416

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Bone Marrow		Hyperplasia	Moderate
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 5-12]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Infiltration Cellular	Lymphocyte, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Note: TGL 6-NCL			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 416	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 715 HISTO: 94-5216-416
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 4-9a,12]	Bilateral	Atrophy	Marked
* Skin [Fibroma TGLS = 1-13]	Dermis Subcut Tiss	Fibroma Fibroma	
* Testes [Adenoma TGLS = 2,3-9]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as oc curring in Skin.

Animal Note: Carcass, Thin, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 417

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Parathyroid Gland	* Pineal Gland	* Pituitary Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
		Hyperplasia	Lymphoid, Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Cytoplasmic Alteration	Mild
	Olfactory Epi	Atrophy	Focal, Mild
	Acinus	Inflammation	Chronic, Minimal
		Inflammation	Chronic Active, Mild
		Atrophy	Mild
	Subcut Tiss	Fibroma	
	Subcut Tiss	Fibrosis	Moderate
		Adenoma	

[Mixed Cell Focus TGLS = 4-14]

[Fibroma TGLS = 3-12]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 417	TRT#: 9	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-417

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1,2-9]			
* Thymus		Atrophy	Mild
	Epithel Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:23

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 418

TRT#: 9

SEX: Male

DAY ON TEST: 650

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|---------------------------|-----------------------------|
| * Blood Vessel | * Bone | * Brain | * Esophagus |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Mammary Gland | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- | | |
|----------------|----------|
| * Pineal Gland | * Thymus |
|----------------|----------|

AUTO PRECLUDES DIAG.

- * Intestine Small, Ileum

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------------------|----------------------|----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | Bilateral, Epithelium | Degeneration | Mucoid, Minimal |
| * Harderian Gland | Bilateral | Inflammation | Chronic, Minimal |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 3-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5-7] | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Moderate |
| | [Necrosis TGLS = 4-12] | | |
| * Nose | | Inflammation | Chronic Active, Mild |
| | Note: Fungi present in nasal exudate. | | |
| * Pancreas | | Leukemia Mononuclear | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 418

TRT#: 9

SEX: Male

DAY ON TEST: 650

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-418

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy Inflammation	Minimal Chronic Active, Mild
* Seminal Vesicle		Atrophy Leukemia Mononuclear	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 419

TRT#: 9

SEX: Male

DAY ON TEST: 505

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-419

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Trachea	* Urinary Bladder

MISSING

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Diffuse, Mild
* Adrenal Medulla		Infiltration Cellular	Lymphocyte, Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Leiomyosarcoma	Metastatic (Spleen)
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
[Leiomyosarcoma TGLS = 5-14]			
* Liver	Bile Duct	Hyperplasia	Mild
		Leiomyosarcoma	Metastatic (Spleen)
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Leiomyosarcoma TGLS = 4-6; 8-15]			
* Lung	Interstitium	Inflammation	Chronic Active, Mild
		Leiomyosarcoma	Metastatic (Spleen)
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
Mesentery		Leiomyosarcoma	Metastatic (Spleen)
[Leiomyosarcoma TGLS = 2-13]			
* Nose		Inflammation	Chronic Active, Minimal
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Leiomyosarcoma	Metastatic (Spleen)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 419	TRT#: 9	SEX: Male	DAY ON TEST: 505
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-419

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy	Moderate
		Leiomyosarcoma	Metastatic (Spleen)
* Skin	Subcut Tiss	Leiomyosarcoma	Metastatic (Spleen)
* Spleen		Leiomyosarcoma	Metastatic (Spleen)
[Leiomyosarcoma TGLS = 3-6]			
* Stomach, Forestomach		Edema	Mild
* Stomach, Glandular		Leiomyosarcoma	Metastatic (Spleen)
[Leiomyosarcoma TGLS = 6-12]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH - Mesentery Leiomyosarcoma Spleen

Animal Note: Carcass, Thin, TGL 7-NST

Animal Note: Cavities, Thoracic, Fluid, Red, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:23

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 420

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-420

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	Lymph Node
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

MISSING

* Mammary Gland	* Pineal Gland
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OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
		Vacuolization Cytoplasmic	Focal, Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
Lymph Node			
Note: Axillary Lymph Node is Normal.			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Parathyroid Gland		Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 420	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-420
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
* Skin		Trichoepithelioma	
[Trichoepithelioma TGLS = 1-12]			
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3,4-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 421

TRT#: 9

SEX: Male

DAY ON TEST: 733

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Pineal Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
* Bone	Femur	Hyperostosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
	Note: Fungi present in nasal exudate.		
* Pancreas	Acinus	Atrophy	Focal, Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 421	TRT#: 9	SEX: Male	DAY ON TEST: 733
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-421

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy	Mild
* Salivary Glands	Sublingual GI	Atrophy	Mild
* Seminal Vesicle		Atrophy	Marked
[Atrophy TGLS = 2-9a]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4,5-9]			
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed at Trim, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 422

TRT#: 9

SEX: Male

DAY ON TEST: 592

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-422

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Parathyroid Gland	Peripheral Nerve	* Pineal Gland
* Salivary Glands	* Seminal Vesicle	Skeletal Muscle	* Skin
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Depletion Cellular	Mild
* Epididymis		Inflammation	Chronic, Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
[Vacuolization Cytoplasmic TGLS = 1-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Minimal
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 422

TRT#: 9

SEX: Male

DAY ON TEST: 592

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-422

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 423

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	Lymph Node	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla Note: Only one adrenal medulla examined.		Hyperplasia	Focal, Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
* Lung	Bile Duct	Hyperplasia	Minimal
Lymph Node	Bronchus	Inflammation	Acute, Minimal
Note: Axillary Lymph Node is Normal			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-13]			
* Pancreas	Acinus	Atrophy	Focal, Moderate
		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 423

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-423

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate	Bilateral	Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Mild
[Atrophy TGLS = 3-9a]		Atrophy	Marked
* Skin		Keratoacanthoma	
Note: Best section of lesion.			
[Keratoacanthoma TGLS = 2-12.2]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 424

TRT#: 9

SEX: Male

DAY ON TEST: 663

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Pineal Gland

OBSERVATIONS

* Adren Cortex			
Note: One of pair examined.			
* Adrenal Medulla		Pheochromocytoma Benign	
Note: One of pair examined.			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
		Metaplasia	Osseous, Focal, Mild
	Atrium	Thrombosis	Marked
[Thrombosis TGLS = 4-4]			
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
		Metaplasia	Osseous, Focal, Mild
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 424	TRT#: 9	SEX: Male	DAY ON TEST: 663
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-424

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Stomach, Forestomach		Edema	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 425

TRT#: 9

SEX: Male

DAY ON TEST: 607

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Prostate
Skeletal Muscle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Fibrosis	Focal, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pineal Gland		Mineralization	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands	Parotid GI	Hyperplasia	Focal, Moderate
* Seminal Vesicle		Atrophy	Moderate
Spinal Cord		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 425	TRT#: 9	SEX: Male	DAY ON TEST: 607
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-425

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

Animal Note: Carcass, Thin, Observed at Retrim, TGL 4-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 426

TRT#: 9

SEX: Male

DAY ON TEST: 664

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Pancreas	* Pineal Gland
* Salivary Glands	* Skin	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Brain			
Note: 4-NCL			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Marked
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
		Inflammation	Chronic Active, Mild
* Seminal Vesicle	Bilateral	Atrophy	Moderate
[Atrophy TGLS = 2-9a,12]			
* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 426	TRT#: 9	SEX: Male	DAY ON TEST: 664
	DOSE: 10 GAUSS	DISP: Natural Death	HISTO: 94-5216-426

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
* Stomach, Glandular	Glands	Cyst	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
PRIMARY CAUSE OF DEATH	- Heart Atrium Thrombosis		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 427

TRT#: 9

SEX: Male

DAY ON TEST: 505

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adren Cortex			
Note: One of pair examined.			
* Adren Medulla			
Note: One of pair examined.			
* Bone Marrow		Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung	Bronchus	Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 2-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland		Hyperplasia	Focal, Moderate
		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 5-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 427	TRT#: 9	SEX: Male	DAY ON TEST: 505
	DOSE: 10 GAUSS	DISP: Natural Death	HISTO: 94-5216-427

ORGAN AND ACCOUNTABLE SITE STATUS

Tissue NOS	Thoracic	Squamous Cell Carcinoma	Metastatic (Lung)
[Squamous Cell Carcinoma TGLS = 3,4-12]			

PRIMARY CAUSE OF DEATH - Lung Bronchus Squamous Cell Carcinoma

Animal Note: Cavities, Thoracic, Fluid, Red, TGL 1-NST

Animal Note: Lesion 3 and 4 identified grossly as Cavities are microscopically identified as occurring in Tissue NOS.

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 428

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder	

OBSERVATIONS

* Adren Medulla			
Note: One of pair examined.			
* Adrenal Cortex		Hypertrophy	Focal, Mild
Note: One of pair examined.			
* Bone Marrow		Hemorrhage	Mild
* Epididymis		Granuloma Sperm	Marked
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Marked
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Mild
		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 428

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-428

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
* Skin		Cyst Epithelial Inclusion	
		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-12]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 429

TRT#: 9

SEX: Male

DAY ON TEST: 516

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-429

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Depletion Cellular	Mild
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 3-1]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Basophilic Focus	Minimal
		Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
[Infiltration Cellular TGLS = 4-14]			
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-12]			
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Spleen		Pigmentation	Mild
* Stomach, Forestomach		Erosion	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 429

TRT#: 9
DOSE: 10 GAUSS

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 516
HISTO: 94-5216-429

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes
* Thymus

Germinal Epith

Inflammation
Hyperplasia
Atrophy

Chronic Active, Moderate
Focal, Minimal
Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 430

TRT#: 9

SEX: Male

DAY ON TEST: 561

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Leukemia Mononuclear	
* Kidney	Bilateral, Renal Tubule	Leukemia Mononuclear	
		Pigmentation	Moderate
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-2]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Inflammation	Chronic Active, Mild
	Note: Fungi present in nasal exudate.		
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Stomach, Forestomach		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-9]		
* Thymus		Atrophy	Marked
	[Atrophy TGLS = 5-NCL]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:23

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 430

TRT#: 9

SEX: Male

DAY ON TEST: 561

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-430

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 431

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-431

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Mammary Gland	* Nose	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla	Bilateral	Infiltration Cellular	Lymphocyte, Mild
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
[Cataract TGLS = 3-12]			
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Inflammation	Chronic, Focal, Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Clear Cell Focus	Minimal
		Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Moderate
[Mixed Cell Focus TGLS = 2-6]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Atrophy	Minimal
* Skin	Dermis	Fibroma	
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 431	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-431
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ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 432

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-432

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland	* Pineal Gland
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OBSERVATIONS

* Bone Marrow		Hemorrhage	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Marked
[Mixed Cell Focus TGLS = 1-6]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Marked
		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 432

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-432

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-9]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 433

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Focal, Mild
* Brain	Hypothalamus	Compression	Minimal
[Compression TGLS = 5-1]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-13]			
[Leukemia Mononuclear TGLS = 8-14]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Mammary Gland		Cyst	Moderate
		Inflammation	Chronic, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 433	TRT#: 9	SEX: Male	DAY ON TEST: 732
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-433

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6,12, 2-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-9]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:23

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 434

TRT#: 9

SEX: Male

DAY ON TEST: 673

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-434

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Parathyroid Gland	* Pineal Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 6-3]			
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 4-8]			
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Hematopoietic Cell Proliferation	Mild
		Mixed Cell Focus	Minimal
Note: TGL 2-NCL			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 434	TRT#: 9	SEX: Male	DAY ON TEST: 673
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-434

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Inflammation	Chronic, Minimal
* Spleen		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell	Hematopoietic Cell Proliferation	Moderate
	[Adenoma TGLS = 1-9]	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Animal Note: Carcass, Thin, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 435 **TRT#:** 9 **SEX:** Male **DAY ON TEST:** 737
DOSE: 10 GAUSS **DISP:** Terminal Sacrifice **HISTO:** 94-5216-435

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibrosis	Mild
[Fibrosis TGLS = 1-5,12]			
* Preputial Gland	Bilateral	Inflammation	Chronic Active, Mild
* Prostate		Atrophy	Moderate
* Seminal Vesicle	Bilateral	Atrophy	Moderate
[Atrophy TGLS = 4-9a,12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 436

TRT#: 9

SEX: Male

DAY ON TEST: 502

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Pineal Gland		Mineralization	Minimal
* Preputial GI			
Note: One of pair examined.			
* Skin	Subcut Tiss	Sarcoma	
Note: The neoplasm has features consistent with poorly differentiated chondrosarcoma. [Sarcoma TGLS = 1-12]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 437

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
Lymph Node	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: Axillary Lymph Node is Normal			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-14]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 6-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 7-3.1]			
* Preputial Gland		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 437	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-437
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ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia	Focal, Mild
* Seminal Vesicle [Atrophy TGLS = 5-9a,12]		Atrophy	Marked
* Spleen [Leukemia Mononuclear TGLS = 2-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 3,4-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 438

TRT#: 9

SEX: Male

DAY ON TEST: 704

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-438

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Diffuse, Mild
* Adrenal Medulla		Hyperplasia	Focal, Marked
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Int Lg Cecum			
Note: TGL 2-NCL			
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Vacuolization Cytoplasmic TGLS = 6-6]			
* Lung			
Note: TGL 8-NCL			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Inflammation	Chronic, Minimal
Note: Only one of pair available for examination.			
Note: TGL 1-NCL			
* Prostate		Atrophy	Marked
* Seminal Vesicle	Bilateral	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 438	TRT#: 9	SEX: Male	DAY ON TEST: 704
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-438

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 5-9a]			
* Skin	Subcut Tiss	Schwannoma Malignant	
[Schwannoma Malignant TGLS = 7-12]			
* Spleen		Pigmentation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH	- UNCERTAIN
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 439

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-439

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Nose
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Medulla	Bilateral	Hyperplasia	Focal, Marked
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
	Epithelium	Hyperplasia	Focal, Moderate
* Seminal Vesicle	Bilateral	Atrophy	Marked
	[Atrophy TGLS = 3-9a,12]		
* Skin	Prepuce	Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 439

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-439

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 440

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
	Bilateral	Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 3-1]			
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-12]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Galactocele	Moderate
* Nose	Respirat Epith	Cyst	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 2-3]			
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 440	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-440
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy	Minimal
* Skin	Subcut Tiss	Fibroma	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	Interstit Cell	Hyperplasia	Focal, Minimal
[Adenoma TGLS = 4-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 441

TRT#: 9

SEX: Male

DAY ON TEST: 442

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Diffuse, Mild
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Vacuolization Cytoplasmic TGLS = 2-6]		
* Lung		Congestion	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Focal, Minimal
	[Congestion TGLS = 3-7]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Chronic Active, Mild
	Note: Fungi present in nasal exudate.		
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Acute, Mild
* Seminal Vesicle		Atrophy	Marked
* Skin	Subcut Tiss	Sarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 441	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 442 HISTO: 94-5216-441
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ORGAN AND ACCOUNTABLE SITE STATUS

[Sarcoma TGLS = 1-2]

* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Hyperplasia	Focal, Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 442

TRT#: 9

SEX: Male

DAY ON TEST: 716

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Pancreas	* Prostate	* Salivary Glands	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Necrosis	Marked
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas			
Note: There appears to be a calculus in the pancreatic duct in slide 5.			
* Pineal Gland		Mineralization	Minimal
Note: Best section available			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Seminal Vesicle		Atrophy	Mild
[Atrophy TGLS = 4-9a,12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 442	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 716 HISTO: 94-5216-442
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ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Sebaceous Gl	Adenoma Basal Cell Adenoma Keratoacanthoma	
	[Adenoma TGLS = 1-12] [Keratoacanthoma TGLS = 2-13]		
* Spleen		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3,5-9]		
* Thyroid Gland	Bilateral, C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	- UNCERTAIN		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 443

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic, Minimal
Note: Fungi present in nasal exudate.			
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 2-9a,12]			
* Spleen		Fibrosis	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 443

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-443

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Carcinoma

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 444

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Pituitary Gland	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Mild
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Marked
[Thrombosis TGLS = 8-4]			
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
* Lung	Interstitium	Inflammation	Chronic, Minimal
Note: TGL 9-NCL			
Lymph Node			
Note: Inguinal Lymph Node is missing			
* Lymph Node, Mandibular		Hemorrhage	Mild
[Hemorrhage TGLS = 7-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 444	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-444
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland	Acinus	Hyperplasia Fibrosis	Focal, Moderate Mild
* Preputial Gland [Adenoma TGLS = 2-9a,12]	Bilateral	Adenoma	
* Prostate		Atrophy	Moderate
* Salivary Glands	Parotid GI	Atrophy	Mild
* Seminal Vesicle		Atrophy	Marked
* Skin		Cyst Epithelial Inclusion Keratoacanthoma	
Note: (tail) [Keratoacanthoma TGLS = 1-14] [Lipoma TGLS = 5-13.1]	Subcut Tiss	Lipoma	
* Testes [Adenoma TGLS = 3,4-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: Cavity, Thoracic, Fluid, Red, TGL 6-NST

Animal Note: Lesion 5 identified grossly as Inguinal Lymph Node is microscopically identified as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 445

TRT#: 9

SEX: Male

DAY ON TEST: 656

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Pineal Gland	* Salivary Glands
* Stomach, Forestomach	* Thyroid Gland	* Trachea	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Inflammation	Chronic Active, Mild
	Note: Fungi present in nasal exudate.		
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Marked
* Skin		Basal Cell Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 445	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 656 HISTO: 94-5216-445
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Stomach, Glandular		Erosion	Focal, Mild
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 446

TRT#: 9

SEX: Male

DAY ON TEST: 614

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Clear Cell Focus	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Marked
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Minimal
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-12]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-9]		
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

Animal Note: Carcass, Thin, Observed at Retrim, TGL 3-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 447

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular			

MISSING

* Pineal Gland

OBSERVATIONS

* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Small, Ileum		Inflammation	Chronic, Moderate
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Minimal
* Seminal Vesicle		Atrophy	Marked
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 447	TRT#: 9	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-447

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-9]
[Atrophy TGLS = 1-9]
[Hyperplasia TGLS = 2-9]

* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Marked
* Trachea		Inflammation	Chronic, Minimal
* Urinary Bladder		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 448

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pineal Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain	Hypothalamus	Necrosis	Focal, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: TGL 2,6-NCL			
[Leukemia Mononuclear TGLS = 1-6]			
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a,12]			
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 448	TRT#: 9 DOSE: 10 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-448
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-9] [Atrophy TGLS = 5-9] * Thymus * Thyroid Gland	Interstit Cell C Cell	Hyperplasia Atrophy Hyperplasia	Focal, Mild Mild Focal, Mild
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PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 449

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Adenoma	
	[Adenoma TGLS = 1-12]		
* Prostate		Atrophy	Minimal
		Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 449	TRT#: 9	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-449

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 3-9a,12]			
* Skin	Dermis	Fibroma	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus	Epithel Cell	Hyperplasia	Mild
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 450

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Trachea		

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Marked
* Stomach, Glandular		Erosion	Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2,3,4-9]			
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 451

TRT#: 19

SEX: Male

DAY ON TEST: 732

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
		Granuloma Sperm	Mild
* Harderian Gland		Squamous Cell Carcinoma	Metastatic (Skin)
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
		Pigmentation	Mild
* Lung		Melanoma Malignant	Metastatic (Skin)
[Melanoma Malignant TGLS = 3-7]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic, Minimal
* Pineal Gland		Mineralization	Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle		Atrophy	Marked
* Skin		Keratoacanthoma	
	Pinna	Melanoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 451	TRT#: 19	SEX: Male	DAY ON TEST: 732
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-451

ORGAN AND ACCOUNTABLE SITE STATUS

Note: The neoplasm lacked melanin.

Note: The lesion originated in the squamous epithelium of the skin of the nose or gingiva.

[Melanoma Malignant TGLS = 4-12]

* Spleen [Leukemia Mononuclear TGLS = 1-6] Leukemia Mononuclear

* Testes [Adenoma TGLS = 2-9] Bilateral, Interstit Cell Adenoma

* Thymus Atrophy Marked

* Thyroid Gland C Cell Adenoma

PRIMARY CAUSE OF DEATH - Skin Pinna Melanoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 452

TRT#: 19

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland	* Pineal Gland
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OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
	Iris	Synechia	Mild
	[Cataract TGLS = 7-12]		
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Bilateral	Nephropathy	Moderate
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
	[Leukemia Mononuclear TGLS = 6-6]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
		Infiltration Cellular	Lymphocyte, Minimal
* Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 452	TRT#: 19 DOSE: 10 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-452
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 5-9a,12]	Bilateral	Atrophy	Moderate
* Skin [Keratoacanthoma TGLS = 1-13, 2-14]		Keratoacanthoma	Multiple
* Spleen		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 3,4-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia Ultimobranchial Cyst	Focal, Mild Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 453

TRT#: 19

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6,13]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 453	TRT#: 19	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-453

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 3-9a,12]			
* Skin	Dermis	Fibroma Keratoacanthoma	
[Keratoacanthoma TGLS = 6-12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Interstit Cell Germinal Epith Interstit Cell	Adenoma Atrophy Hyperplasia	Marked Focal, Mild
[Adenoma TGLS = 4-9]			
[Atrophy TGLS = 5-9]			
* Thymus		Leukemia Mononuclear	
* Trachea		Inflammation	Chronic, Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 454

TRT#: 19

SEX: Male

DAY ON TEST: 683

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain			
Note: TGL 4-NCL			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Atrophy	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6,12]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Marked
		Leukemia Mononuclear	
[Hyperplasia TGLS = 5-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Moderate
Note: Best section available.			
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 3-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 454	TRT#: 19 DOSE: 10 GAUSS	SEX: Male DISP: Natural Death	DAY ON TEST: 683 HISTO: 94-5216-454
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Focal, Marked
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 455

TRT#: 19

SEX: Male

DAY ON TEST: 565

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Brain	Hypothalamus	Compression	Minimal
[Compression TGLS = 3-1]			
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
		Inflammation	Acute, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Preputial Gland		Inflammation	Chronic, Minimal
Note: One of pair examined.			
* Prostate		Inflammation	Chronic Active, Marked
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Forestomach		Edema	Minimal
* Testes	Bilateral, Germinal Epith	Atrophy	Mild
	Bilateral, Interstit Cell	Hyperplasia	Focal, Minimal
[Atrophy TGLS = 1-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 455	TRT#: 19	SEX: Male	DAY ON TEST: 565
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-455

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Due to entry error on Individual Animal Necropsy Record there are no gross observation for TGL 5 or TGL 6.

Animal Note: Carcass, Thin, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 456

TRT#: 19

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Adrenal Medulla		Hyperplasia	Focal, Marked
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	Mild
* Lung		Carcinoma	
		Infiltration Cellular	Lymphocyte, Minimal
Note: The lesion morphology is consistent with adenoacanthoma. [Carcinoma TGLS = 7-12]			
* Lymph Node, Mandibular		Hemorrhage	Minimal
[Hemorrhage TGLS = 2-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-14]			
* Pancreas	Acinus	Atrophy	Diffuse, Moderate
		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 456	TRT#: 19	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-456

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 8-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 6-9a,13]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-13]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4,5-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 457

TRT#: 19

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	Minimal
[Eosinophilic Focus TGLS = 5-6,13]			
[Hyperplasia TGLS = 5-6,13]			
[Mixed Cell Focus TGLS = 5-6,13]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland	Epithelium	Hyperplasia	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Marked
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 457

TRT#: 19

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-457

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 2-9a,12]			
* Skin	Dermis	Fibroma	
	Subcut Tiss	Fibroma	
	Hair Follicle	Hyperplasia	Focal, Moderate
		Keratoacanthoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
[Hematopoietic Cell Proliferation TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Atrophy	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 458

TRT#: 19

SEX: Male

DAY ON TEST: 702

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Carcinoma	
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Prostate		Atrophy	Mild
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 2-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 458	TRT#: 19	SEX: Male	DAY ON TEST: 702
	DOSE: 10 GAUSS	DISP: Natural Death	HISTO: 94-5216-458

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 459

TRT#: 19

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland
* Nose	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone	Femur	Hyperostosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart	Atrium	Cardiomyopathy	Minimal
		Thrombosis	Marked
			[Thrombosis TGLS = 8,9-4]
* Islets, Pancreatic		Adenoma	
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
		Metaplasia	Osseous, Focal, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Atrophy	Mild
		Infiltration Cellular	Histiocyte, Mild
Mesentery		Lipoma	
			[Lipoma TGLS = 4-14]
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Minimal
* Preputial Gland	Bilateral	Atrophy	Mild
	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Moderate
* Seminal Vesicle	Bilateral	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 459	TRT#: 19	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-459

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 5-9a]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6,13; 3-13]			
* Stomach, Forestomach		Ulcer	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6,7-9]			
* Thymus		Atrophy	Marked
* Thyroid Gland		Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as oc curring in Skin.

Animal Note: Carcass, Thin, TGL 10-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:23

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 460

TRT#: 19

SEX: Male

DAY ON TEST: 721

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Blood Vessel | * Bone | * Brain | * Esophagus |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Mammary Gland | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Thyroid Gland | * Trachea | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|--------------------------|--------------------------------------|------------------------|--------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | Bilateral, Epithelium | Degeneration | Mucoid, Mild |
| * Heart | | Cardiomyopathy | Moderate |
| | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | Bilateral | Nephropathy | Minimal |
| * Liver | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 3-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 6-14] | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | Artery | Inflammation | Chronic Active, Moderate |
| | | Leukemia Mononuclear | |
| | [Inflammation TGLS = 4-5,13] | | |
| * Nose | Olfactory Epi | Cytoplasmic Alteration | Minimal |
| * Pancreas | | Fibrosis | Focal, Marked |
| | Artery | Inflammation | Chronic, Moderate |
| | [Fibrosis TGLS = 5-12] | | |
| * Pineal Gland | | Mineralization | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 460	TRT#: 19 DOSE: 10 GAUSS	SEX: Male DISP: Natural Death	DAY ON TEST: 721 HISTO: 94-5216-460
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Cyst Leukemia Mononuclear	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Atrophy	Mild
	Epithelium	Hyperplasia Inflammation	Focal, Mild Acute, Minimal
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Stomach, Glandular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-15]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-9]		
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 461

TRT#: 19

SEX: Male

DAY ON TEST: 697

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Leukemia Mononuclear	
* Harderian Gland		Degeneration	Mucoid, Mild
* Heart		Leukemia Mononuclear	
		Cardiomyopathy	Mild
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral	Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Lumbar	Leukemia Mononuclear	
		Leukemia Mononuclear	

Note: TGL 11 involves Axillary Lymph Node
 [Leukemia Mononuclear TGLS = 11-14]
 [Leukemia Mononuclear TGLS = 9-13]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 461

TRT#: 19

SEX: Male

DAY ON TEST: 697

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-461

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 12-15]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-12]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-5]			
* Mammary Gland		Leukemia Mononuclear	
* Nose		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
* Prostate		Atrophy	Moderate
	Epithelium	Hyperplasia	Focal, Minimal
* Salivary Glands		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-12]			
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1,2-6]			
* Stomach, Glandular		Erosion	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-3]			
* Thyroid Gland		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 462

TRT#: 19

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Parathyroid Gland
* Pineal Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Marked
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: TGL 1-NCL			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Mild
	Epithelium	Hyperplasia	Focal, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 462	TRT#: 19	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-462

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Glandular		Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 6-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4,5-9]			
* Thymus	Epithel Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 463

TRT#: 19

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Preputial Gland	* Prostate	* Seminal Vesicle
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OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex	Bilateral	Hyperplasia	Focal, Mild
* Epididymis	Bilateral, Epithelium	Vacuolization Cytoplasmic Degeneration	Focal, Minimal Mucoid, Minimal
* Harderian Gland		Mesothelioma Malignant	
* Heart		Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Cardiomyopathy	Minimal
* Liver	Bilateral	Mineralization	Minimal
		Nephropathy	Mild
		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 463

TRT#: 19

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-463

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1,2-9]

Mesothelioma Malignant

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 464

TRT#: 19

SEX: Male

DAY ON TEST: 613

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Minimal
		Necrosis	Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Vacuolization Cytoplasmic TGLS = 2-6]		
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Chronic Active, Mild
	Note: Fungi present in nasal exudate.		
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Adenoma	
	[Adenoma TGLS = 7-12]		
* Prostate		Atrophy	Moderate
		Inflammation	Chronic Active, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 464	TRT#: 19	SEX: Male	DAY ON TEST: 613
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-464

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 3-9a]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 6-6]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Focal, Mild
[Adenoma TGLS = 5-9]			
[Atrophy TGLS = 4-9]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Preputial Gland Adenoma

Animal Note: Lesion 7 identified grossly as Skin is microscopically identified as occurring i n Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 465

TRT#: 19

SEX: Male

DAY ON TEST: 477

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pineal Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow	Leukemia Mononuclear	
* Harderian Gland	Leukemia Mononuclear	
* Heart	Leukemia Mononuclear	
* Kidney	Leukemia Mononuclear	
* Liver	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]		
* Lung	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-7]		
Lymph Node	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-5]		
* Lymph Node, Mandibular	Leukemia Mononuclear	
* Lymph Node, Mesenteric	Leukemia Mononuclear	
* Mammary Gland		
Note: The mass described at tissue trimming probably is the lymph node in slide 5.		
Mesentery	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-12]		
* Pancreas	Leukemia Mononuclear	
* Parathyroid Gland	Leukemia Mononuclear	
* Preputial Gland	Inflammation	Chronic, Mild
Note: Only one of pair available for examination.		
* Prostate	Inflammation	Chronic Active, Mild
* Saliv Glands		
Note: TGL 3,4-NCL		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 465	TRT#: 19 DOSE: 10 GAUSS	SEX: Male DISP: Natural Death	DAY ON TEST: 477 HISTO: 94-5216-465
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Stomach, Glandular [Leukemia Mononuclear TGLS = 8-14]		Leukemia Mononuclear	
* Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Focal, Moderate
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 7 identified grossly as Mammary Gland is microscopically identified as oc curring in Lymph Node (NOS).

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 466

TRT#: 19

SEX: Male

DAY ON TEST: 592

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-466

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Intestine Large, Cecum		Parasite Metazoan	
* Intestine Large, Colon		Parasite Metazoan	
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
* Lymph Node, Mandibular		Hemorrhage	Mild
[Hemorrhage TGLS = 3-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-12]			
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle		Atrophy	Mild
* Skin	Subcut Tiss	Sarcoma	
[Sarcoma TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Hyperplasia	Focal, Moderate
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 466

TRT#: 19

SEX: Male

DAY ON TEST: 592

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-466

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Carcass, Thin, Observed at Trim, TGL 4-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 467

TRT#: 19

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

MISSING

* Parathyroid Gland	* Pineal Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
	Nasolacrim Dct	Inflammation	Chronic, Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Adenoma	
		Atrophy	Marked
* Seminal Vesicle	Bilateral	Atrophy	Marked
	[Atrophy TGLS = 1-9a]		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 467	TRT#: 19 DOSE: 10 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-467
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ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 2,3-9,12]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Urinary Bladder	Transit Epithe	Papilloma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 468

TRT#: 19

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Brain			
Note: TGL 6-NCL			
* Epididymis	Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Moderate
* Liver		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Eosinophilic Focus TGLS = 7-15]			
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Degeneration	Cystic, Minimal
* Mammary Gland		Cyst	Moderate
[Cyst TGLS = 1-13]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 468	TRT#: 19	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-468

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Marked
	Epithelium	Hyperplasia	Focal, Minimal
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Focal, Moderate
	[Adenoma TGLS = 3-9]		
	[Atrophy TGLS = 4-9]		
	[Hyperplasia TGLS = 3-9]		
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 469

TRT#: 19

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Pancreas
* Pineal Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Moderate
[Mixed Cell Focus TGLS = 3-6]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 4-3]			
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Atrophy	Moderate
* Seminal Vesicle		Atrophy	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 469	TRT#: 19	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-469

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1,2-9]			
* Thymus		Atrophy	Mild
* Thyroid Gland		Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 470

TRT#: 19

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adren Medulla			
Note: One of pair examined.			
* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 2-1]			
* Epididymis		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 470	TRT#: 19 DOSE: 10 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 94-5216-470
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 3-3]	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Moderate
* Spleen		Pigmentation	Mild
* Testes [Hyperplasia TGLS = 4-9]	Bilateral, Germinal Epith Bilateral, Interstit Cell	Atrophy Hyperplasia	Marked Focal, Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 471

TRT#: 19

SEX: Male

DAY ON TEST: 494

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Pineal Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Liver	Bile Duct Hepatocyte	Hyperplasia Vacuolization Cytoplasmic	Minimal Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Nasolacrim Dct	Inflammation Inflammation	Chronic, Minimal Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Preputial Gland		Adenoma Inflammation	Chronic, Minimal
[Adenoma TGLS = 1-9a]			
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Focal, Mild
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

- Preputial Gland Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 472

TRT#: 19

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-472

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
Eye	Bilateral, Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 5-12]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
Note: TGL 4-NCL			
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Atrophy	Minimal
* Seminal Vesicle	Bilateral	Atrophy	Moderate
[Atrophy TGLS = 1-9a]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 472	TRT#: 19	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-472

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 6-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2,3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland		Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 473

TRT#: 19

SEX: Male

DAY ON TEST: 683

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
* Adrenal Medulla	Bilateral	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Cyst	Mild
		Leukemia Mononuclear	
		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-7]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-3]		
	[Leukemia Mononuclear TGLS = 5-13]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 473	TRT#: 19 DOSE: 10 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 683 HISTO: 94-5216-473
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ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5,14]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12]			
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Moderate
		Leukemia Mononuclear	
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 11-9a]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Retrim, TGL 12-NST

Animal Note: Lesion 1 grossly identified as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 474

TRT#: 19

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-474

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Bilateral	Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	Marked
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Minimal
	[Clear Cell Focus TGLS = 3-13]		
* Lung		Metaplasia	Osseous, Focal, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Marked
* Pineal Gland		Mineralization	Minimal
* Preputial Gland		Adenoma	
	[Adenoma TGLS = 1-12]		
* Prostate		Atrophy	Mild
	Epithelium	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 474	TRT#: 19	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-474

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-9]			
* Thymus	Epithel Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as oc curring in Preputial Gland.

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 475

TRT#: 19

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Mild
[Clear Cell Focus TGLS = 7-6]			
[Mixed Cell Focus TGLS = 6-6]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Marked
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibrosis	Moderate
* Nose		Congestion	Moderate
* Pancreas	Artery	Inflammation	Chronic, Moderate
[Inflammation TGLS = 5-12]			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Adenoma	
* Prostate		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 475	TRT#: 19 DOSE: 10 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-475
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLS = 3-9a]	Bilateral	Atrophy	Marked
* Spleen		Congestion	Moderate
* Testes [Adenoma TGLS = 1,2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Thyroid Gland Note: TGL 4-NCL	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 476

TRT#: 19

SEX: Male

DAY ON TEST: 668

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
Peripheral Nerve	* Salivary Glands	Skeletal Muscle	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-1]			
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
Eye	Bilateral, Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 7-13]			
* Heart		Cardiomyopathy	Minimal
	Valve	Inflammation	Chronic, Moderate
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-7]			
Lymph Node	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-14]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 476	TRT#: 19	SEX: Male	DAY ON TEST: 668
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-476

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 9-5]			
* Pancreas		Leukemia Mononuclear	
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Acute, Mild
* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 3-9a]			
Spinal Cord		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Glandular		Erosion	Focal, Minimal
[Erosion TGLS = 10-15]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Minimal
[Adenoma TGLS = 8-9]			
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 477

TRT#: 19

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-477

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Mild
	[Atrophy TGLS = 1-9a]		
* Skin		Basal Cell Adenoma	
	Subcut Tiss	Fibrosis	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-9]		
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 477

TRT#: 19

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-477

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Carcinoma

[Carcinoma TGLS = 5-2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 478

TRT#: 19

SEX: Male

DAY ON TEST: 578

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 7-8]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pineal Gland		Mineralization	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 2-9a,13]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,5,6-6]			
* Stom Gland			
Note: TGL 12-NCL			
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 478	TRT#: 19 DOSE: 10 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 578 HISTO: 94-5216-478
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1,9-9] [Hyperplasia TGLS = 1,9-9]	Interstit Cell	Hyperplasia	Focal, Minimal
* Thymus Note: TGL 10-NCL		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed at Trim, TGL 11-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 479

TRT#: 19

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Focal, Mild
* Epididymis		Infiltration Cellular	Lymphocyte, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	Marked
		[Degeneration TGLS = 4-12]	
		[Mixed Cell Focus TGLS = 3-6]	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Hyperplasia	Focal, Moderate
* Pineal Gland		Mineralization	Minimal
* Sem Ves			

Note: TGL 2-NCL

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 479	TRT#: 19 DOSE: 10 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-479
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ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
Tooth	Peridont Tiss	Inflammation	Chronic Active, Mild
Zymbal's Gland [Carcinoma TGLS = 5-14]		Carcinoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 5 identified grossly as Ear is microscopically identified as occurring in Zymbals Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 480

TRT#: 19

SEX: Male

DAY ON TEST: 730

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Spleen	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 6-1]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Nose	Nasolacrim Dct	Inflammation	Acute, Mild
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Nervosa	Schwannoma Malignant	
[Schwannoma Malignant TGLS = 5-3]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Atrophy	Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 4-9a]			
* Skin	Subcut Tiss	Fibroma	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Chronic Active, Moderate
		Inflammation	Acute, Minimal
* Stomach, Glandular		Inflammation	
[Inflammation TGLS = 7-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2,3-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 480

TRT#: 19

SEX: Male

DAY ON TEST: 730

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-480

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Nervosa Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 481

TRT#: 19

SEX: Male

DAY ON TEST: 673

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Pineal Gland * Thymus

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Marked
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 4-1]			
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
Lymph Node	Mediastinal	Hemorrhage	Marked
[Hemorrhage TGLS = 5-3]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-12]			
* Prostate		Atrophy	Marked
* Seminal Vesicle	Bilateral	Atrophy	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus			
Note: TGL 5-NST			
* Thyroid Gland		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 481

TRT#: 19

SEX: Male

DAY ON TEST: 673

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-481

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as occurring in Preputial Gland.

Animal Note: The finding at trim of Thymus enlarged and red actually involved the Mediastinal Lymph Node.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:23
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 482

TRT#: 19

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Mild
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
		[Leukemia Mononuclear TGLS = 5-6]	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-12]	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 482	TRT#: 19	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-482

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Marked
	Epithelium	Hyperplasia	Focal, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
		Leukemia Mononuclear	
[Atrophy TGLS = 3-9a]			
* Skin		Trichoepithelioma	
[Trichoepithelioma TGLS = 6-13]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 483

TRT#: 19

SEX: Male

DAY ON TEST: 724

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
	Bilateral	Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland		Atrophy	Focal, Mild
* Heart	Atrium	Thrombosis	Moderate
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Marked
	[Necrosis TGLS = 3-12; 4-13]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
	Nasolacrim Dct	Inflammation	Chronic, Minimal
* Pancreas	Acinus	Adenoma	
	Note: Lesion present in slide 5.		
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland	Bilateral	Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 483

TRT#: 19

SEX: Male

DAY ON TEST: 724

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-483

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Inflammation	Chronic Active, Mild
* Skin		Atrophy	Moderate
	[Keratoacanthoma TGLS = 7-12]	Keratoacanthoma	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Stomach, Forestomach		Ulcer	Mild
* Stomach, Glandular		Erosion	Focal, Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Focal, Mild
	[Adenoma TGLS = 1-9]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:24

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 484

TRT#: 19

SEX: Male

DAY ON TEST: 673

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Carcinoma	
	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
* Nose		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle		Atrophy	Minimal
* Spleen		Pigmentation	Mild
[Pigmentation TGLS = 1,2-NCL]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 484	TRT#: 19	SEX: Male	DAY ON TEST: 673
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-484

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus [Hemorrhage TGLS = 4-3]		Hemorrhage	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, TGL 6-NST, Found at Trim

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 485

TRT#: 19

SEX: Male

DAY ON TEST: 703

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Mammary Gland	* Pineal Gland	* Preputial Gland	* Salivary Glands
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone		Osteosarcoma	
[Osteosarcoma TGLS = 14-13]			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Granuloma Sperm	Moderate
		Mesothelioma Malignant	
* Harderian Gland	Bilateral	Inflammation	Chronic Active, Moderate
* Heart		Cardiomyopathy	Mild
		Osteosarcoma	Metastatic (Bone)
* Intestine Small, Ileum		Mesothelioma Malignant	
* Kidney	Bilateral, Renal Tubule	Degeneration	Mild
		Mineralization	Minimal
* Liver		Eosinophilic Focus	Minimal
		Osteosarcoma	Metastatic (Bone)
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Osteosarcoma TGLS = 10-6,12, 11,12-6]			
[Vacuolization Cytoplasmic TGLS = 13-6,12]			
* Lung		Osteosarcoma	Metastatic (Bone)
[Osteosarcoma TGLS = 4-7]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-3]			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 485	TRT#: 19	SEX: Male	DAY ON TEST: 703
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-485

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery		Leukemia Mononuclear	
[Mesothelioma Malignant TGLS = 9-2]		Mesothelioma Malignant	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland			
Note: Tag of neoplasm in slide 14 considered an artifact (floater).			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Adenoma	
		Leukemia Mononuclear	
* Preputial GI			
Note: Only one of pair available for examination.			
* Prostate		Atrophy	Mild
		Inflammation	Chronic Active, Moderate
* Seminal Vesicle	Bilateral	Atrophy	Marked
[Atrophy TGLS = 8-9a,12]			
* Skin		Trichoepithelioma	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
[Adenoma TGLS = 6,7-9]			

PRIMARY CAUSE OF DEATH - Bone Osteosarcoma

Animal Note: Carcass, Thin, Solid Mass, Found at Trim, TGL 15-NST
Animal Note: Cavities, Abdominal, Fluid, ~2ml, Red, Blood-Filled Cavities, TGL 1-NST
Animal Note: Lesion 3 identified grossly as Thymus is microscopically identified as occurring in Mediastinal Lymph Node.
Animal Note: Lesion 9 identified grossly as Cavities is microscopically identified as occurring in Mesentery.
Animal Note: Lesion 14 identified grossly as Skin is microscopically identified as occurring in Bone.
Animal Note: Cavities, Thoracic, Fluid, ~2ml, Red, Blood-Filled Cavities, TGL 2-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 486

TRT#: 19

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Parathyroid Gland	* Pineal Gland
* Prostate	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
	Valve	Inflammation	Chronic, Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 6-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland		Hyperplasia	Focal, Mild
	Bilateral	Inflammation	Chronic, Minimal
* Seminal Vesicle	Bilateral	Atrophy	Moderate
* Skin		Trichoepithelioma	
[Trichoepithelioma TGLS = 1-12,14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 486	TRT#: 19	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-486

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 5-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 3,4-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus	Epithel Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Cavity, Abdominal, Fluid, Red, TGL 2-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 487

TRT#: 19

SEX: Male

DAY ON TEST: 732

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Diffuse, Mild
* Adrenal Medulla		Hyperplasia	Focal, Minimal
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Moderate
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Necrosis	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Vacuolization Cytoplasmic TGLS = 3-6]		
* Lung		Leukemia Mononuclear	
Lymph Node			
Note: Inguinal Lymph Node Absent			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
* Preputial Gland		Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 487	TRT#: 19 DOSE: 10 GAUSS	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 732 HISTO: 94-5216-487
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-9a,12.1]		Inflammation	Chronic Active, Mild
* Prostate		Atrophy	Moderate
* Seminal Vesicle	Bilateral	Atrophy	Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Stomach, Glandular		Erosion	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 4 identified grossly as Skin is microscopically identified as occurring i n Preputial Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 488

TRT#: 19

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-488

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Adenoma	
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Seminal Vesicle		Atrophy	Marked
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		
* Stomach, Glandular	Epithelium	Cyst	Minimal
	[Cyst TGLS = 5-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 488

TRT#: 19

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-488

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2,3-9]

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 489

TRT#: 19

SEX: Male

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Adenoma	
		Fibrosis	Focal, Mild
	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Lymph Node			
Note: Axillary Lymph Node is Missing			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
	Epithelium	Hyperplasia	Mild
[Fibroadenoma TGLS = 1-12]			
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 489	TRT#: 19	SEX: Male	DAY ON TEST: 738
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-489

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Pars Distalis Bilateral	Hyperplasia Inflammation	Focal, Minimal Chronic, Minimal
* Prostate		Atrophy	Minimal
* Salivary Glands	Parotid GI Parotid GI	Atrophy Inflammation	Mild Chronic, Mild
* Seminal Vesicle	Bilateral	Atrophy	Marked
* Spleen		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2,3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 490

TRT#: 19

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Nose	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas		Cyst	Minimal
	Acinus	Hyperplasia	Focal, Marked
		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Nervosa	Cyst	Minimal
[Adenoma TGLS = 2-3]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 490	TRT#: 19 DOSE: 10 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-490
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Atrophy	Minimal
* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:24

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 491

TRT#: 19

SEX: Male

DAY ON TEST: 461

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adren Cortex			
Note: Adrenal gland found at tissue review and found to be present and normal microscopically.			
* Adrenal Medulla		Hyperplasia	Focal, Moderate
Note: Adrenal gland found at tissue review and found to be present and normal microscopically.			
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Inflammation	Chronic Active, Mild
* Kidney	Pelvis, Transit Epithe	Carcinoma	
		Mineralization	Minimal
		Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
[Carcinoma TGLS = 1-12]			
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Prostate		Atrophy	Moderate
* Seminal Vesicle		Atrophy	Moderate
* Spleen	Lymph Follic	Atrophy	Minimal
		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 491	TRT#: 19	SEX: Male	DAY ON TEST: 461
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-491

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular		Erosion	Focal, Mild
* Testes	Germinal Epith	Atrophy	Minimal
		Necrosis	Marked
* Thyroid Gland		Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH - Kidney Pelvis Transit Epithe Carcinoma

Animal Note: Carcass, Thin, Not Observed at Trim, TGL 2-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 492

TRT#: 19

SEX: Male

DAY ON TEST: 488

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 3-3]			
* Epididymis		Mesothelioma Malignant	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Moderate
* Intestine Small, Ileum	Peyers Patch	Hyperplasia	Lymphoid, Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Marked
[Pigmentation TGLS = 9-8]			
* Liver	Bile Duct	Hyperplasia	Minimal
		Mesothelioma Malignant	
* Lung	Interstitium	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Mesothelioma Malignant	
Peritoneum	Tunica Vaginal	Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 8-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-3]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 492	TRT#: 19	SEX: Male	DAY ON TEST: 488
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-492

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Mesothelioma Malignant	
* Spleen	Lymph Follic	Atrophy	Mild
		Mesothelioma Malignant	
	[Atrophy TGLS = 2-6]		
* Stom Gland			
	Note: TGL 11-NCL		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
		Mesothelioma Malignant	
	[Adenoma TGLS = 4,5-12]		
	[Atrophy TGLS = 6-9]		
* Urinary Bladder		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 7-8]		

PRIMARY CAUSE OF DEATH - Peritoneum Tunica Vaginal Mesothelioma Malignant

Animal Note: Cavities, Abdominal, Fluid, 220ml, red/dark, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 493

TRT#: 19

SEX: Male

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-493

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Degeneration	Cystic, Focal, Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	Mild
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Respirat Epith	Hyperplasia	Focal, Marked
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 493	TRT#: 19	SEX: Male	DAY ON TEST: 736
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-493

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 7-3]	Pars Distalis	Adenoma	
* Preputial Gland		Adenoma	
* Prostate		Atrophy	Marked
* Seminal Vesicle [Atrophy TGLS = 5-9a]	Bilateral	Atrophy	Marked
* Skin [Fibroma TGLS = 1-12]	Subcut Tiss	Fibroma	
* Spleen [Leukemia Mononuclear TGLS = 6-6]		Leukemia Mononuclear Pigmentation	Minimal
* Testes [Adenoma TGLS = 3,4-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
	Epithel Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 494

TRT#: 19

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum	Peyers Patch	Hyperplasia	Lymphoid, Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Degeneration	Cystic, Focal, Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Fibrosis	Focal, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Preputial Gland	Bilateral	Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Minimal
* Sem Ves			
Note: TGL 3-NCL			
* Skin		Trichoepithelioma	
[Trichoepithelioma TGLS = 1-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 494	TRT#: 19	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-494

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 495

TRT#: 19

SEX: Male

DAY ON TEST: 481

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-495

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
* Seminal Vesicle	Skeletal Muscle	* Skin	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart	Atrium	Thrombosis	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Stom Gland			
Note: TGL 2-NCL			
* Testes	Interstit Cell	Hyperplasia	Focal, Moderate
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 495

TRT#: 19

SEX: Male

DAY ON TEST: 481

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-495

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 3-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:24

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 496

TRT#: 19

SEX: Male

DAY ON TEST: 410

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Blood Vessel | * Bone | * Brain | * Epididymis |
| * Esophagus | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lymph Node, Mandibular | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Pineal Gland

AUTO PRECLUDES DIAG.

- * Bone Marrow

OBSERVATIONS

- | | | | |
|-------------------------------------|---------------|------------------------|---------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| * Int Lg Cecum | | | |
| Note: TGL 4-NCL | | | |
| * Int Lg Colon | | | |
| Note: TGL 6-NCL | | | |
| * Liver | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 2-7] | | | |
| * Lymph Node, Mesenteric | | Infiltration Cellular | Histiocyte, Minimal |
| | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Minimal |
| * Nose | Olfactory Epi | Cytoplasmic Alteration | Mild |
| * Preputial GI | | | |
| Note: One of pair examined. | | | |
| * Prostate | | Inflammation | Acute, Minimal |
| * Saliv Glands | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 496	TRT#: 19	SEX: Male	DAY ON TEST: 410
	DOSE: 10 GAUSS	DISP: Natural Death	HISTO: 94-5216-496

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 5-NCL

* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 3-9]	Interstit Cell	Adenoma	
* Thymus		Hemorrhage	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 497

TRT#: 19

SEX: Male

DAY ON TEST: 627

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-497

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Nose	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adren Medulla

Note: Only one adrenal available for evaluation

* Bone Marrow

* Brain

Hypothalamus
 Cerebrum
 Cerebrum

Leukemia Mononuclear
 Compression
 Hemorrhage
 Necrosis

Moderate
 Moderate
 Moderate

Note: The mass noted at necropsy probably represents pituitary tumor related hemorrhage.

[Compression TGLS = 6-1]

[Hemorrhage TGLS = 5-12]

* Epididymis

Bilateral, Epithelium

Degeneration
 Mesothelioma Malignant
 Infiltration Cellular
 Cardiomyopathy
 Hyperplasia
 Leukemia Mononuclear

Mucoid, Minimal

* Harderian Gland

* Heart

* Liver

Bile Duct

Leukemia Mononuclear
 Infiltration Cellular
 Cyst
 Infiltration Cellular
 Adenoma

Lymphocyte, Mild
 Mild
 Moderate

[Leukemia Mononuclear TGLS = 3-6]

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

* Mammary Gland

* Pancreas

* Pituitary Gland

Pars Distalis

Histiocyte, Minimal
 Minimal
 Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 497	TRT#: 19	SEX: Male	DAY ON TEST: 627
	DOSE: 10 GAUSS	DISP: Natural Death	HISTO: 94-5216-497

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Mesothelioma Malignant TGLS = 4-9]		Mesothelioma Malignant	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Cavities, Abdominal, Fluid, Red, TGL 2-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 498

TRT#: 19

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-498

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis	Epithelium	Degeneration	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Moderate
	[Mixed Cell Focus TGLS = 3-12]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 2-13]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Parathyroid Gland		Adenoma	
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Vacuolization Cytoplasmic	Mild
* Preputial Gland	Bilateral	Inflammation	Chronic, Mild
* Prostate		Atrophy	Mild
* Seminal Vesicle		Atrophy	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-9]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 498

TRT#: 19

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-498

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Minimal

* Thyroid Gland

C Cell

Hyperplasia

Focal, Moderate

Ultimobranchial Cyst

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 499

TRT#: 19

SEX: Male

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-499

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Pineal Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Marked
* Bone Marrow		Leukemia Mononuclear	
* Epididymis	Bilateral, Epithelium	Degeneration	Mucoid, Minimal
Eye	Bilateral, Retina	Atrophy	Marked
	Bilateral, Lens	Cataract	Marked
[Cataract TGLS = 6-14]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Sarcoma	
[Sarcoma TGLS = 5-5]			
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Eosinophilic Focus	Moderate
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Epithelium	Hyperplasia	Minimal
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 499	TRT#: 19	SEX: Male	DAY ON TEST: 737
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-499

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
[Adenoma TGLS = 2-13]			
* Prostate		Atrophy	Minimal
* Seminal Vesicle		Atrophy	Minimal
* Skin		Cyst Epithelial Inclusion	
		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Focal, Mild
[Adenoma TGLS = 3-9]			
[Atrophy TGLS = 4-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
		Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 500

TRT#: 19

SEX: Male

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Mild Focal, Minimal
* Epididymis	Bilateral, Epithelium	Degeneration Mesothelioma Malignant	Mucoid, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization Nephropathy	Minimal Mild
* Liver		Basophilic Focus Clear Cell Focus	Minimal Mild
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Marked
Note: Acinar hyperplasia also evident in slide 5.			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 500	TRT#: 19 DOSE: 10 GAUSS	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-500
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ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 501 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 738
DOSE: SHAM CONTROL **DISP:** Terminal Sacrifice **HISTO:** 94-5216-501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Brain [Compression TGLS = 2-1]	Hypothalamus	Compression	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral, Medulla	Inflammation	Chronic, Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 1-3]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 502

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Mild
* Bone Marrow		Hyperplasia	Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral, Pelvis Bilateral	Inflammation Nephropathy	Chronic, Mild Minimal
* Liver		Eosinophilic Focus Infiltration Cellular	Minimal Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland [Cyst TGLS = 2-5]		Cyst	Minimal
* Ovary [Cyst TGLS = 1-9]	Follicle	Cyst	Moderate
* Pancreas Note: See slide 5 for atrophy.	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland [Adenoma TGLS = 3-3] [Pigmentation TGLS = 4-3]	Pars Distalis Rathkes Cleft	Adenoma Pigmentation	Minimal
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 502

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-502

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 503

TRT#: 2
DOSE: SHAM CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 737
HISTO: 94-5216-503

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular			

MISSING

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland [Fibroadenoma TGLS = 1-5]		Fibroadenoma	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary [Cyst TGLS = 2-9]	Periovarn Tiss	Cyst	Moderate
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Pigmentation	Minimal
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland [Carcinoma TGLS = 4-2]	C Cell C Cell	Carcinoma Hyperplasia	Focal, Marked
* Trachea		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 503

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-503

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus [Inflammation TGLS = 3-12]	Cervix	Inflammation	Chronic Active, Moderate
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PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 4 identified grossly as Parathyroid is microscopically identified as occu rring in Thyroid.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 504

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Adrenal Medulla	* Pineal Gland
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Mild Focal, Mild
* Bone Marrow		Myelofibrosis	Minimal
* Kidney	Bilateral, Renal Tubule	Accumulation, Hyaline Droplet	Mild
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus Clear Cell Focus Eosinophilic Focus Mixed Cell Focus	Minimal Minimal Minimal Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary		Luteoma	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 1-3]			
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 504

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-504

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 505 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 739
DOSE: SHAM CONTROL **DISP:** Terminal Sacrifice **HISTO:** 94-5216-505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Infiltration Cellular	Mixed Cell, Mild
		Vacuolization Cytoplasmic	Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 506

TRT#: 2

SEX: Female

DAY ON TEST: 723

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Liver	* Lung	* Ovary	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Mild Focal, Mild
* Brain Note: TGL 5-NCL			
* Clitoral Gland		Adenoma	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver Note: TGL 4-NCL			
* Lung Note: TGL 3-NCL			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 506

TRT#: 2

SEX: Female

DAY ON TEST: 723

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-506

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1,2-3]

* Skin

Hyperkeratosis

Mild

Note: Hyperkeratosis involves the Teat.

* Spleen

Pigmentation

Minimal

* Thymus

Atrophy

Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 507

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Pancreas
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Brain			
Note: TGL 4-NCL			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
* Liver		Basophilic Focus	Mild
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Respirat Epith	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Mild
* Parathyroid Gland		Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 3-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 507

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-507

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 508 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 737
DOSE: SHAM CONTROL **DISP:** Terminal Sacrifice **HISTO:** 94-5216-508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 3-1]			
* Clitoral Gland		Hyperplasia	Focal, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Degeneration	Cystic, Minimal
		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 2-3.1]			
* Spleen		Pigmentation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 509

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

OBSERVATIONS

* Adrenal Cortex		Adenoma	
[Adenoma TGLS = 3-3]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Minimal
* Lung	Interstitial	Inflammation	Chronic, Mild
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Serosa	Fibrosis	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 510 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 739
DOSE: SHAM CONTROL **DISP:** Terminal Sacrifice **HISTO:** 94-5216-510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Bone Marrow		Depletion Cellular	Mild
* Brain			
Note: TGL 6-NCL			
* Clitoral GI			
Note: One of pair examined.			
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Carcinoma	
[Carcinoma TGLS = 4-2]			
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 2-6]			
[Hepatodiaphragmatic Nodule TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Respirat Epith	Cytoplasmic Alteration	Minimal
* Ovary			
Note: TGL 1-NCL			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 510	TRT#: 2	SEX: Female	DAY ON TEST: 739
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-510

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Mild
* Uterus		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 511

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Vacuolization Cytoplasmic Adenoma	Minimal Focal, Minimal Focal, Minimal
* Clitoral Gland [Adenoma TGLS = 2-9]			
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral Bilateral	Infiltration Cellular Mineralization	Lymphocyte, Minimal Minimal
* Liver	Bile Duct	Basophilic Focus Hyperplasia Mixed Cell Focus	Minimal Minimal Minimal
[Mixed Cell Focus TGLS = 3-6]			
* Lung [Inflammation TGLS = 4-7]	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland [Fibroadenoma TGLS = 1-12]		Fibroadenoma	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Pigmentation	Minimal
* Thyroid Gland	Bilateral, C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 511

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-511

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 512

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Kidney	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Mild
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Respirat Epith	Cytoplasmic Alteration	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 513

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Kidney	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Moderate
[Mixed Cell Focus TGLS = 3-6,12; 4-12; 7-13]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Cyst TGLS = 1-5]			
[Fibroadenoma TGLS = 6-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 514

TRT#: 2

SEX: Female

DAY ON TEST: 495

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Skin	* Thyroid Gland
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Jejunum
-----------------------------	----------------------------

OBSERVATIONS

* Adren Medulla			
Note: Only one available for evaluation.			
* Bone Marrow		Leukemia Mononuclear	
* Clitoral GI			
Note: Only one available for evaluation.			
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-8]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-5]			
* Nose	Respirat Epith	Cytoplasmic Alteration Inflammation	Minimal Chronic Active, Minimal
* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Salivary Glands		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 514	TRT#: 2	SEX: Female	DAY ON TEST: 495
	DOSE: SHAM CONTROL	DISP: Natural Death	HISTO: 94-5216-514

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 3-6]	Leukemia Mononuclear	
* Stomach, Forestomach	Edema	Mild
* Stomach, Glandular	Leukemia Mononuclear	
* Thymus [Leukemia Mononuclear TGLS = 2-3]	Leukemia Mononuclear	
* Uterus	Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 7-NST

Animal Note: Cavities, Abdominal, Fluid, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 515

TRT#: 2

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
Lymph Node	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Adrenal Medulla

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Vacuolization Cytoplasmic	Moderate Focal, Mild Focal, Marked
* Bone Marrow		Hyperplasia	Minimal
* Clitoral Gland		Hyperplasia	Focal, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus Eosinophilic Focus	Mild Minimal
	Bile Duct	Hyperplasia Mixed Cell Focus	Minimal Minimal
	[Basophilic Focus TGLS = 4-6] [Mixed Cell Focus TGLS = 3-6]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 5-12]		
Lymph Node			
Note: Axillary Lymph Node is Normal			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst Fibroadenoma	Minimal
	[Fibroadenoma TGLS = 1-13, 2-14]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 515	TRT#: 2	SEX: Female	DAY ON TEST: 738
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-515

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesions 1 and 2 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 516

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Degeneration Vacuolization Cytoplasmic	Mild Minimal Focal, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Pelvis, Transit Epithe	Hyperplasia	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus Infiltration Cellular Mixed Cell Focus	Mild Mixed Cell, Mild Minimal
* Lung		Congestion	Minimal
[Congestion TGLS = 3-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Carcinoma Cyst	Minimal
[Carcinoma TGLS = 1-13]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Bilateral	Inflammation	Chronic, Mild
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 516	TRT#: 2	SEX: Female	DAY ON TEST: 739
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-516

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
[Cyst TGLS = 4-3]			
* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
Tooth		Malformation	

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:24

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 517

TRT#: 2

SEX: Female

DAY ON TEST: 697

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Brain			
Note: TGL 3-NCL			
* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 517

TRT#: 2

SEX: Female

DAY ON TEST: 697

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-517

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Pigmentation	Minimal
* Thymus	Hemorrhage	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 518

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
[Basophilic Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node		Pigmentation	Minimal
Note: Pigment present in Axillary Lymph Node.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
		Galactocele	Moderate
[Fibroadenoma TGLS = 1-12, 2-13, 3-14]			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
[Cyst TGLS = 5-3]			
* Spleen		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:24

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 518

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-518

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Lesion 2 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

Animal Note: Lesion 1 identified grossly as Clitoral Gland is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 519 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 674
DOSE: SHAM CONTROL **DISP:** Natural Death **HISTO:** 94-5216-519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
		Hypertrophy	Focal, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Moderate
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Moderate
		Mixed Cell Focus	Mild
	[Hepatodiaphragmatic Nodule TGLS = 3-6]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
	[Fibroadenoma TGLS = 1-12]		
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-3]		
* Spleen	Lymph Follic	Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 519

TRT#: 2

SEX: Female

DAY ON TEST: 674

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-519

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 2-6]

* Urinary Bladder

Pigmentation

Minimal

Edema

Mild

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 520

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone	Femur	Hyperostosis	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		[Fibroadenoma TGLS = 1-12, 2-13, 3-14, 4-15]	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 5-3]	
* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Hydrometra	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 520

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-520

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:24

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 521

TRT#: 2

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Blood Vessel | * Bone Marrow | * Esophagus |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mandibular | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pineal Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|---|------------------------------|----------------------------------|------------------|
| * Adren Medulla | | | |
| Note: Only one of pair available for examination. | | | |
| * Adrenal Cortex | Bilateral | Angiectasis | Mild |
| * Bone | Cranium | Hyperostosis | Moderate |
| | Femur | Hyperostosis | Moderate |
| | [Hyperostosis TGLS = 3-12] | | |
| * Brain | Cerebrum | Glioma Malignant | |
| * Clitoral Gland | | Inflammation | Chronic, Minimal |
| * Harderian Gland | Bilateral | Infiltration Cellular | Lymphocyte, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | Bilateral | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | Mild |
| | | Mixed Cell Focus | Minimal |
| * Lymph Node, Mesenteric | | Infiltration Cellular | Histiocyte, Mild |
| * Mammary Gland | Epithelium | Hyperplasia | Moderate |
| | [Hyperplasia TGLS = 1-5.1] | | |
| * Nose | Olfactory Epi | Cytoplasmic Alteration | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Cyst | Mild |
| | [Adenoma TGLS = 2-3] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 521

TRT#: 2

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-521

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:24

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 522

TRT#: 2

SEX: Female

DAY ON TEST: 547

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Blood Vessel | * Bone | * Bone Marrow |
| * Clitoral Gland | * Esophagus | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pineal Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- | | |
|-------------------|-------------------|
| * Adrenal Medulla | * Pituitary Gland |
|-------------------|-------------------|

AUTO PRECLUDES DIAG.

- * Intestine Small, Duodenum

OBSERVATIONS

- | | | | |
|--------------------------------------|----------|-----------------------|---------------------|
| * Adren Cortex | | | |
| Note: Only one adrenal examined. | | | |
| * Adren Medulla | | | |
| Note: Only one adrenal examined. | | | |
| * Brain | Cerebrum | Astrocytoma Malignant | |
| [Astrocytoma Malignant TGLS = 1-1] | | | |
| * Harderian Gland | | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver | | Basophilic Focus | Mild |
| | | Eosinophilic Focus | Mild |
| * Lymph Node, Mesenteric | | Infiltration Cellular | Histiocyte, Minimal |
| * Spleen | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH

- Brain Cerebrum Astrocytoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 523

TRT#: 2

SEX: Female

DAY ON TEST: 494

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	Larynx
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
* Bone Marrow		Depletion Cellular	Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
Larynx			
Note: TGL 1-NCL			
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Congestion	Mild
[Congestion TGLS = 2-7]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Spleen		Pigmentation	Mild
* Thymus		Hemorrhage	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:24

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 524

TRT#: 2

SEX: Female

DAY ON TEST: 673

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Salivary Glands	Skeletal Muscle	* Skin
Spinal Cord	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Pineal Gland

OBSERVATIONS

* Adren Medulla

Note: Only one of pair available for examination.

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
	Bilateral	Hematopoietic Cell Proliferation	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Focal, Marked
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6,12]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Galactocele	Mild

Note: The sciatic lymph node mass represents a mammary gland fibroadenoma.

[Fibroadenoma TGLS = 2-13]

[Galactocele TGLS = 1-5]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 524	TRT#: 2	SEX: Female	DAY ON TEST: 673
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-524

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary Perph Nerve Note: Sciatic Nerve is Normal	Bilateral, Rete Ovarii	Hyperplasia	Mild
* Pituitary Gland [Cyst TGLS = 5-3]	Pars Distalis Pars Distalis	Cyst Hyperplasia	Moderate Focal, Mild
* Spleen [Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear	
* Stomach, Forestomach		Inflammation Ulcer	Acute, Mild Moderate
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 525

TRT#: 2

SEX: Female

DAY ON TEST: 553

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	* Skin
* Trachea			

MISSING

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Necrosis	Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral, Renal Tubule	Degeneration	Moderate
[Degeneration TGLS = 2-8,13]			
* Liver	Hepatocyte	Mixed Cell Focus	Minimal
		Vacuolization Cytoplasmic	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Chronic, Minimal
* Ovary	Follicle	Cyst	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Salivary Glands	Parotid GI	Atrophy	Mild
* Spleen	Lymph Follic	Atrophy	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Ulcer	Mild
* Stomach, Glandular		Erosion	Focal, Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Uterus		Schwannoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 525

TRT#: 2

SEX: Female

DAY ON TEST: 553

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-525

ORGAN AND ACCOUNTABLE SITE STATUS

[Schwannoma Malignant TGLS = 1-12]

PRIMARY CAUSE OF DEATH

- Uterus Schwannoma Malignant

Animal Note: Carcass, Thin, Observed, TGL 4-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 526

TRT#: 2

SEX: Female

DAY ON TEST: 723

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-3]			
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6,12]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Moderate
		Fibroadenoma	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
		Leukemia Mononuclear	
[Angiectasis TGLS = 6-3]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 526

TRT#: 2

SEX: Female

DAY ON TEST: 723

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-526

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-6]

* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Uterus	Endometrium	Polyp Stromal	

[Polyp Stromal TGLS = 3-9]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 527 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 613
DOSE: SHAM CONTROL **DISP:** Moribund Sacrifice **HISTO:** 94-5216-527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
		Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Acute, Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Hematopoietic Cell Proliferation	Minimal
* Lung		Metaplasia	Osseous, Focal, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin	Subcut Tiss	Fibrosarcoma	
	[Fibrosarcoma TGLS = 1-12]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

Animal Note: Carcass, Thin, Observed at Trim, TGL 2-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 527

TRT#: 2

SEX: Female

DAY ON TEST: 613

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-527

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 528

TRT#: 2

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Adenoma	
	Bilateral	Angiectasis	Minimal
* Clitoral Gland	Bilateral	Inflammation	Chronic, Mild
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
[Cyst TGLS = 1-5,12]			
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Pigmentation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 529

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Stomach, Glandular	* Trachea

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
* Bone	Femur	Hyperostosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Leukemia Mononuclear	
Note: One of pair examined.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Kidney	Bilateral, Renal Tubule	Accumulation, Hyaline Droplet	Marked
		Leukemia Mononuclear	
	Bilateral, Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 8-8]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-6,12]			
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10,11-13]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-5,14]			
* Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:24

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 529

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-529

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
[Fibroadenoma TGLS = 2-12]			
[Leukemia Mononuclear TGLS = 3-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-3]			
* Salivary Glands		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Leukemia Mononuclear	
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 5-9]			

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 3 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 530

TRT#: 2

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Focal, Mild
* Bone	Femur	Hyperostosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Focal, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
		[Hyperplasia TGLS = 3-7]	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 1-12]	
* Ovary	Bilateral	Atrophy	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Marked
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2-6]	
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 530

TRT#: 2

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-530

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 531

TRT#: 2

SEX: Female

DAY ON TEST: 660

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone	Femur	Hyperostosis	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
		Inflammation	Chronic, Mild
		Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		[Basophilic Focus TGLS = 2-6,12]	
* Lung		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
		Inflammation	Chronic Active, Mild
		Note: Fungi present in nasal exudate.	
* Pineal Gland		Mineralization	Minimal
* Skin	Subcut Tiss	Fibroma	
		[Fibroma TGLS = 1-13]	
* Spleen	Lymph Follic	Atrophy	Mild
* Thyroid Gland		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 532

TRT#: 2

SEX: Female

DAY ON TEST: 622

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 3-1]			
* Kidney	Bilateral	Nephropathy	Mild
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Vacuolization Cytoplasmic TGLS = 1-6]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach		Ulcer	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 532

TRT#: 2

SEX: Female

DAY ON TEST: 622

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-532

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Carcass, Thin, Observed at Trim, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 533

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic Hyperplasia	Mild Focal, Minimal Mild
* Bone Marrow			
* Clitoral Gland			
Note: Only one of pair available for evaluation.			
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral, Renal Tubule	Accumulation, Hyaline Droplet Basophilic Focus Hematopoietic Cell Proliferation Mixed Cell Focus	Mild Mild Minimal Minimal
* Liver			
Note: TGL 3-NCL			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst Fibroadenoma	Mild
[Cyst TGLS = 2-5,12] [Fibroadenoma TGLS = 1-12]			
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 533

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-533

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 534

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
	Bilateral	Pigmentation	Minimal
	Bilateral	Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Hepatodiaphragmatic Nodule TGLS = 4-12]	
		[Leukemia Mononuclear TGLS = 3-6,12]	
* Lung		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 5,6-7]	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 1-13]	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Bilateral	Inflammation	Chronic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Rathkes Cleft	Cyst	Moderate
		[Adenoma TGLS = 7-3]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 534

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-534

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-6]

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 535

TRT#: 2

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic Hyperplasia	Minimal Focal, Mild Mild
* Bone Marrow			
* Harderian Gland			
Note: TGL 4-NCL			
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus Infiltration Cellular Mixed Cell Focus	Mild Mixed Cell, Minimal Minimal
[Basophilic Focus TGLS = 3-6,12]			
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Focal, Marked Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst Fibroadenoma	Mild Multiple
[Fibroadenoma TGLS = 1,2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 535	TRT#: 2	SEX: Female	DAY ON TEST: 738
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-535

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Pigmentation	Minimal
* Thyroid Gland		Atrophy	Minimal
	C Cell	Adenoma	
	Follicle	Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:24

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 536

TRT#: 2

SEX: Female

DAY ON TEST: 690

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-536

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Mild
* Bone	Femur Turbinates	Hyperostosis Hyperostosis	Marked Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Hepatocyte	Infiltration Cellular Vacuolization Cytoplasmic	Mixed Cell, Minimal Mild
[Vacuolization Cytoplasmic TGLS = 5-6]			
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 2-12]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma Galactocele	Multiple Moderate
[Fibroadenoma TGLS = 1-12, 3-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 536	TRT#: 2	SEX: Female	DAY ON TEST: 690
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-536

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Hematopoietic Cell Proliferation	Minimal
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PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Animal Note: Carcass, Thin, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:24

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 537

TRT#: 2

SEX: Female

DAY ON TEST: 680

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Blood Vessel | * Bone | * Esophagus | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- * Clitoral Gland

OBSERVATIONS

- | | | | |
|---------------------------------------|-------------------------|--|---------------------|
| * Adrenal Cortex | | Adenoma
Leukemia Mononuclear
Vacuolization Cytoplasmic | Focal, Mild |
| [Adenoma TGLS = 4-3.1] | | | |
| [Leukemia Mononuclear TGLS = 4-3.1] | | | |
| * Adrenal Medulla | | Hyperplasia
Leukemia Mononuclear | Focal, Marked |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6-1] | | | |
| * Harderian Gland | | Leukemia Mononuclear | |
| * Heart | Endocardium | Inflammation | Chronic, Minimal |
| * Kidney | Bilateral, Renal Tubule | Pigmentation | Mild |
| * Liver | Bile Duct | Hyperplasia
Leukemia Mononuclear | Minimal |
| [Leukemia Mononuclear TGLS = 5-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Infiltration Cellular
Leukemia Mononuclear | Histiocyte, Minimal |
| * Mammary Gland | | Cyst
Fibroadenoma | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 537	TRT#: 2	SEX: Female	DAY ON TEST: 680
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-537

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-12]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Pigmentation	Minimal
Note: TGL 3-NCL			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Leukemia Mononuclear	
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 538

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-3]			
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-1]			
* Clitoral Gland		Adenoma	
* Heart		Leukemia Mononuclear	
* Kidney	Bilateral, Renal Tubule	Accumulation, Hyaline Droplet	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
[Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 538	TRT#: 2	SEX: Female	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-538

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-6]	
* Thymus	Leukemia Mononuclear

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 539

TRT#: 2

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-3]		
* Spleen		Pigmentation	Mild
* Trachea		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 540

TRT#: 2

SEX: Female

DAY ON TEST: 543

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-540

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Brain	Hypothalamus	Compression	Mild
* Clitoral Gland			
Note: One of pair examined.			
* Kidney	Bilateral, Pelvis	Inflammation	Acute, Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Moderate
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, Found at Trim, TGL 3-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 541	TRT#: 2	SEX: Female	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Salivary Glands	Parotid GI	Atrophy	Mild
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
* Uterus		Hydrometra	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 542 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 738
DOSE: SHAM CONTROL **DISP:** Terminal Sacrifice **HISTO:** 94-5216-542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Clitoral Gland	Bilateral	Inflammation	Chronic Active, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 1-6]			
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary		Tubulostromal Adenoma	
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Minimal
[Carcinoma TGLS = 3-2]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Endometrium	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 542

TRT#: 2

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-542

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:24

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 543

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-543

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland	Bilateral	Inflammation	Chronic Active, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver	Bilateral	Nephropathy	Minimal
		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Marked
* Spleen		Pigmentation	Minimal
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 544

TRT#: 2

SEX: Female

DAY ON TEST: 655

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Carcinoma Hyperplasia Pigmentation	Focal, Minimal Minimal
Note: TGL 4-NCL [Carcinoma TGLS = 3-3]	Bilateral		
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 8-1]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Pelvis	Inflammation	Acute, Mild
	Bilateral	Nephropathy	Moderate
[Nephropathy TGLS = 5-8]			
* Liver		Fibrosis Infiltration Cellular Mixed Cell Focus	Minimal Mixed Cell, Mild Marked
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
[Mixed Cell Focus TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-13, 2-14]			
Mesentery	Fat	Necrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 544	TRT#: 2	SEX: Female	DAY ON TEST: 655
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-544

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 9-12]			
* Pancreas	Acinus	Hyperplasia	Focal, Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 7-3]			
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Diffuse, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma

Animal Note: Lesions 1 and 2 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 545

TRT#: 2

SEX: Female

DAY ON TEST: 591

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone Marrow
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Pineal Gland

OBSERVATIONS

* Bone	Femur	Hyperostosis	Moderate
	Turbinates	Hyperostosis	Moderate
* Brain	Hypothalamus	Compression	Mild
	[Compression TGLS = 4-1]		
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1-12, 2-13]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
	Nasolacrim Dct	Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-3]		
* Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 545

TRT#: 2

SEX: Female

DAY ON TEST: 591

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-545

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Lesions 1 and 2 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

Animal Note: Carcass, Thin, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 546

TRT#: 2

SEX: Female

DAY ON TEST: 673

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
Lymph Node	* Lymph Node, Mandibular	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for examination.			
* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum	Serosa	Inflammation	Chronic, Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
* Lung	Interstitial	Inflammation	Chronic, Minimal
Lymph Node			
Note: Axillary Lymph Node is Normal			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-12]			
* Thymus		Atrophy	Moderate
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

Animal Note: Carcass, Thin, TGL 2-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 546

TRT#: 2

SEX: Female

DAY ON TEST: 673

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-546

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:24

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 547

TRT#: 2

SEX: Female

DAY ON TEST: 722

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Clitoral Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Bone	Femur	Hyperostosis	Moderate
	Turbinates	Hyperostosis	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
		[Basophilic Focus TGLS = 3-6]	
		[Hepatodiaphragmatic Nodule TGLS = 4-6]	
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		[Fibroadenoma TGLS = 1-13, 2-12]	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Skin	Epidermis	Hyperplasia	Diffuse, Minimal
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 547

TRT#: 2

SEX: Female

DAY ON TEST: 722

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-547

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

Animal Note: Lesion 1 identified as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 548

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Moderate
		Inflammation	Chronic, Mild
* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 2-6]		
* Lung	Interstitialium	Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
Mesentery	Fat	Necrosis	Marked
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen	Lymph Follic	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 548	TRT#: 2	SEX: Female	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-548

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular	Glands	Infiltration Cellular	Histiocyte, Mild
* Thymus		Cyst	Minimal
* Uterus	Cervix	Atrophy	Mild
[Inflammation TGLS = 1-12]		Inflammation	Chronic Active, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 549

TRT#: 2

SEX: Female

DAY ON TEST: 691

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder	* Uterus		

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-13]			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 5-12]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral, Renal Tubule	Accumulation, Hyaline Droplet	Moderate
	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
		Necrosis	Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
[Necrosis TGLS = 3-6]			
* Lung			
Note: 4-NCL			
Lymph Node			
Note: Inguinal lymph node is missing.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 549	TRT#: 2	SEX: Female	DAY ON TEST: 691
	DOSE: SHAM CONTROL	DISP: Natural Death	HISTO: 94-5216-549

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Cyst	Minimal
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-14]			
* Pituitary Gland	Pars Distalis	Cyst	Mild
[Cyst TGLS = 6-3]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular		Erosion	Focal, Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Animal Note: Lesion 2 identified grossly as Skin is microscopically identified as occurring in Clitoral Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 550

TRT#: 2

SEX: Female

DAY ON TEST: 565

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Ovary	* Pancreas	Peripheral Nerve
* Salivary Glands	Skeletal Muscle	* Skin	Spinal Cord
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Clitoral Gland	* Parathyroid Gland
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OBSERVATIONS

* Kidney	Bilateral, Renal Tubule	Degeneration	Mild
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Vacuolization Cytoplasmic TGLS = 2-6]			
* Lung			
Note: TGL 3-NCL			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
[Fibroadenoma TGLS = 4-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pineal Gland		Fibrosis	Mild
		Mineralization	Minimal
* Pituitary Gland	Rathkes Cleft	Cyst	Mild
* Spleen	Lymph Follic	Atrophy	Moderate
Note: TGL 1-NCL			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Stomach, Glandular		Erosion	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 550	TRT#: 2	SEX: Female	DAY ON TEST: 565
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-550

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus	Atrophy	Marked
* Uterus	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Animal Note: Lesion 4 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 551

TRT#: 12

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

Lymph Node	* Pineal Gland
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Bone	Femur Turbinates	Hyperostosis Hyperostosis	Mild Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Infiltration Cellular Mixed Cell Focus	Mixed Cell, Minimal Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: Inguinal Lymph Node is Missing			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 551	TRT#: 12	SEX: Female	DAY ON TEST: 739
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-551

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
		Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 552

TRT#: 12

SEX: Female

DAY ON TEST: 667

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Skin
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain			
Note: TGL 4-NCL			
* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Salivary Glands	Sublingual GI	Atrophy	Minimal
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 552	TRT#: 12	SEX: Female	DAY ON TEST: 667
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-552

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-6]

* Stomach, Forestomach		Edema	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 553

TRT#: 12

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	Lymph Node	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Mild
* Brain	Hypothalamus	Compression	Minimal
[Compression TGLS = 5-1]			
* Harderian Gland		Atrophy	Focal, Moderate
		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: Axillary Lymph Node Normal; Inguinal Lymph Node Normal; Left Inguinal Lymph Node Absent			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12, 2-14, 3-16]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 553

TRT#: 12

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-553

ORGAN AND ACCOUNTABLE SITE STATUS

Note: See slide 5 for hyperplasia.

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 4-3]			
* Spleen		Pigmentation	Mild
* Stomach, Glandular		Metaplasia	Squamous, Focal, Moderate
[Metaplasia TGLS = 6-18]			
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 554

TRT#: 12

SEX: Female

DAY ON TEST: 602

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Ovary	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adren Medulla			
Note: Only one medulla present for evaluation.			
* Bone	Femur	Hyperostosis	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 1-6]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Galactocele	Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Marked
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thymus	Epithel Cell	Hyperplasia	Mild
Tooth	Peridont Tiss	Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 555

TRT#: 12

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	Lymph Node	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for examination.			
* Adrenal Cortex	Bilateral	Angiectasis	Mild
Note: Only one of pair available for examination.			
* Bone	Cranium	Hyperostosis	Mild
	Femur	Hyperostosis	Mild
[Hyperostosis TGLS = 5-17]			
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 4-6]			
* Lung	Interstitial	Inflammation	Chronic, Minimal
Lymph Node			
Note: Regional Lymph Node is Normal			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13, 3-15]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 555

TRT#: 12

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-555

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Intermed	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus		Hydrometra	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 556

TRT#: 12

SEX: Female

DAY ON TEST: 625

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-556

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-NCL]			
* Clitoral Gland	Bilateral	Adenoma	
[Adenoma TGLS = 8-9]		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
[Leukemia Mononuclear TGLS = 3-8]			
* Liver	Bile Duct	Hyperplasia	Moderate
[Leukemia Mononuclear TGLS = 5-6]		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-5]			
* Mammary Gland		Galactocele	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 556	TRT#: 12	SEX: Female	DAY ON TEST: 625
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-556

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Moderate
		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-3]			
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Hydrometra	Mild
[Hydrometra TGLS = 10-9]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Due to recording error on Individual Animal Necropsy Record, there is no TGL 1.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 557	TRT#: 12	SEX: Female	DAY ON TEST: 739
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Pancreas	* Pineal Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

Lymph Node	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Inflammation	Mild Chronic, Minimal
* Brain [Compression TGLS = 5-12]	Hypothalamus	Compression	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node Note: Regional Lymph Node Absent			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Cyst TGLS = 1-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration Inflammation	Mild Acute, Minimal
* Ovary	Bilateral, Rete Ovarii	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 557	TRT#: 12	SEX: Female	DAY ON TEST: 739
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-557

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Chronic, Moderate
[Inflammation TGLS = 3-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-14]			
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 2 identified grossly as Mammary Gland is microscopically identified as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 558 **TRT#:** 12 **SEX:** Female **DAY ON TEST:** 597
DOSE: SHAM CONTROL **DISP:** Moribund Sacrifice **HISTO:** 94-5216-558

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex [Adenoma TGLS = 2-3]		Adenoma	
* Bone Marrow		Hyperplasia	Minimal
* Clitoral Gland Note: One of pair examined. [Adenoma TGLS = 1-12]		Adenoma	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney Note: TGL 4-NCL	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver Note: TGL 3-NCL		Basophilic Focus Hematopoietic Cell Proliferation	Mild Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst Fibroadenoma	Minimal Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Minimal Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH - Clitoral Gland Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 558

TRT#: 12

SEX: Female

DAY ON TEST: 597

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-558

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Carcass, Thin, TGL 6-NST

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Clitoral Gland.

Animal Note: Due to recording error on Individual Animal Necropsy Record, there is no TGL 5.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 559

TRT#: 12

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-559

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Uterus	

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
Note: Only one clitoral gland examined.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Necrosis	Minimal
* Lung	Interstitial	Inflammation	Chronic, Minimal
Lymph Node			
Note: Axillary Lymph Node is Missing			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13]			
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 559	TRT#: 12	SEX: Female	DAY ON TEST: 738
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-559

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 560

TRT#: 12
DOSE: SHAM CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 737
HISTO: 94-5216-560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Pineal Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

Lymph Node	* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone	Femur	Hyperostosis	Mild
	Turbinates	Hyperostosis	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: Axillary Lymph Node is Missing.			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Ovary	Periovarn Tiss	Cyst	Mild
[Cyst TGLS = 3-9]			
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 560	TRT#: 12	SEX: Female	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-560

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 2-12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 561

TRT#: 12

SEX: Female

DAY ON TEST: 704

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Clitoral Gland	* Pineal Gland
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OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for examination.			
* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 4-1]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	Mild
[Infiltration Cellular TGLS = 2-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 561	TRT#: 12	SEX: Female	DAY ON TEST: 704
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-561

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
* Uterus	Endometrium	Fibrosis	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, Observed, TGL 5-NST

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 562

TRT#: 12

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-562

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	Lymph Node
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Brain			
Note: TGL 4-NCL			
* Clitoral Gland		Adenoma	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Mild
[Nephropathy TGLS = 3-8]			
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
Lymph Node			
Note: Axillary Lymph Node is Normal			
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Periovarn Tiss	Cyst	Marked
		Tubulostromal Adenoma	
Note: One of pair examined.			
[Cyst TGLS = 2-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 562	TRT#: 12	SEX: Female	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-562

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 563

TRT#: 12

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral, Renal Tubule	Pigmentation	Mild
	[Pigmentation TGLS = 5-8]		
* Liver		Basophilic Focus	Moderate
	Bile Duct	Hyperplasia	Mild
	[Leukemia Mononuclear TGLS = 6-6,13; 7-13]	Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[Leukemia Mononuclear TGLS = 8-7]	Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1-14]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Periovarn Tiss	Cyst	Marked
	[Cyst TGLS = 3-12]		
* Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 563	TRT#: 12	SEX: Female	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-563

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
[Angiectasis TGLS = 9-3]			
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Hydrometra	Mild
	Endometrium	Polyp Stromal	
[Hydrometra TGLS = 4-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 564 **TRT#:** 12 **SEX:** Female **DAY ON TEST:** 737
DOSE: SHAM CONTROL **DISP:** Terminal Sacrifice **HISTO:** 94-5216-564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone Note: Femur is Normal [Hyperostosis TGLS = 3-15]	Cranium	Hyperostosis	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
Eye [Cataract TGLS = 5-12]	Retina Lens Iris	Atrophy Cataract Synechia	Marked Mild Minimal
* Harderian Gland	Bilateral	Inflammation Mineralization	Chronic, Mild Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus Infiltration Cellular	Mild Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland [Fibroadenoma TGLS = 1-13; 2-14]		Cyst Fibroadenoma	Mild Multiple
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 564

TRT#: 12

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-564

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 565

TRT#: 12

SEX: Female

DAY ON TEST: 690

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland	* Thymus
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AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Bone	Femur	Hyperostosis	Mild
* Bone Marrow		Depletion Cellular	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
* Heart	Myocardium	Fibrosis	Focal, Mild
* Liver		Basophilic Focus	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
		Necrosis	Mild
Note: TGL 3-NCL			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 2-6]			
* Stomach, Glandular		Erosion	Focal, Mild
[Erosion TGLS = 7-15]			
* Thymus			
Note: TGL 6-NST			
* Uterus		Leiomyosarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 565

TRT#: 12

SEX: Female

DAY ON TEST: 690

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-565

ORGAN AND ACCOUNTABLE SITE STATUS

Endometrium

Polyp Stromal

[Leiomyosarcoma TGLS = 4-12]

[Polyp Stromal TGLS = 5-9]

PRIMARY CAUSE OF DEATH

- Uterus Leiomyosarcoma

Animal Note: Cavities, Abdominal, Fluid, 20ml, Red, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 566

TRT#: 12

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
	Bilateral	Hematopoietic Cell Proliferation	Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Bone	Cranium	Hyperostosis	Moderate
	Femur	Hyperostosis	Moderate
	Maxilla	Hyperostosis	Mild
	Turbinate	Hyperostosis	Mild
	[Hyperostosis TGLS = 7-14]		
	[Hyperostosis TGLS = 6-10]		
* Bone Marrow		Hyperplasia	Mild
* Brain			
Note: TGL 4-NCL			
* Clitoral Gland		Adenoma	
Note: One of the glands, considered to be enlarged at necropsy, was a mammary gland fibroadenoma.			
Note: Only one of pair available for evaluation.			
	[Adenoma TGLS = 1-9]		
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 566	TRT#: 12	SEX: Female	DAY ON TEST: 738
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-566

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Mixed Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Infiltration Cellular	Histiocyte, Mild
		Cyst	Minimal
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 567	TRT#: 12	SEX: Female	DAY ON TEST: 620
	DOSE: SHAM CONTROL	DISP: Natural Death	HISTO: 94-5216-567

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Clitoral Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Bone Marrow		Depletion Cellular	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
Lymph Node	Mediastinal	Pigmentation	Mild
Note: TGL 2-NCL			
* Mammary Gland		Cyst	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Mild
* Uterus	Endometrium	Polyp Stromal	

[Polyp Stromal TGLS = 1-9]

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:24

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 568

TRT#: 12

SEX: Female

DAY ON TEST: 608

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Pineal Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Bone Marrow		Depletion Cellular	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Minimal
* Lung		Congestion	Minimal
[Congestion TGLS = 1-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 569

TRT#: 12

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-569

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone Marrow	* Brain	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Pancreas	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone	Femur	Hyperostosis	Minimal
* Clitoral Gland		Adenoma	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Galactocele	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Periovarn Tiss	Cyst	Moderate
		[Cyst TGLS = 3-12]	
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 4-3.1]	
* Salivary Glands	Parotid GI	Atrophy	Minimal
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2-6]	
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:24

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 569

TRT#: 12

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-569

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: Cavity, Abdominal, Fluid, 2cc, Red, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 570

TRT#: 12
DOSE: SHAM CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 561
HISTO: 94-5216-570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Ovary	* Pancreas	* Pineal Gland
* Salivary Glands	* Skin	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adren Cortex			
Note: See slide 4 for 2nd adrenal.			
* Adren Medulla			
Note: See slide 4 for 2nd adrenal.			
* Bone Marrow		Leukemia Mononuclear	
* Clitoral GI			
Note: One only examined.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral, Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 2-8]			
* Liver	Hepatocyte	Angiectasis	Focal, Mild
[Vacuolization Cytoplasmic TGLS = 3-6]		Vacuolization Cytoplasmic	Marked
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 570	TRT#: 12	SEX: Female	DAY ON TEST: 561
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-570

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 1-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
* Stomach, Glandular		Erosion	Focal, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Trachea			
Note: TGL 5-NCL			

PRIMARY CAUSE OF DEATH - Spleen Hematopoietic Cell Proliferation

Animal Note: Carcass, Thin, Observed at Trim, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 571

TRT#: 12
DOSE: SHAM CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 737
HISTO: 94-5216-571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Pancreas
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Clitoral Gland	* Pineal Gland
------------------	----------------

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Mild
[Leukemia Mononuclear TGLS = 3-3]			
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain			
Note: TGL 8-NCL			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Large, Rectum		Sarcoma	
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Marked
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical Pancreatic	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Note: Leukemia Mononuclear referenced above but not sited to specific lymph node involves Axillary Lymph Node.			
[Leukemia Mononuclear TGLS = 5-12]			
[Leukemia Mononuclear TGLS = 6-13]			
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 571	TRT#: 12	SEX: Female	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-571

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
	Nasolacrim Dct	Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 5 identified grossly as Mesentery is microscopically identified as occurring in Pancreatic Lymph Node.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 572

TRT#: 12

SEX: Female

DAY ON TEST: 729

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Ovary	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Moderate
* Kidney		Leukemia Mononuclear	
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-2]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Moderate
		Fibroadenoma	
	Note: See Slide 9 for neoplasm.		
Mesentery		Accessory Spleen	
	[Accessory Spleen TGLS = 3-12]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 572	TRT#: 12	SEX: Female	DAY ON TEST: 729
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-572

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Hyperplasia TGLS = 5-3]	Pars Distalis	Hyperplasia	Diffuse, Moderate
* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Stomach, Glandular		Necrosis	Focal, Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Cavity, Abdominal, Fluid, Clear, ~1 cc, TGL 2-NST

Animal Note: Carcass, Thin, Observed, TGL 7-NST

Animal Note: Lesion 3 identified grossly as Mesenteric Lymph Node is microscopically identified as occurring in Mesentery.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 573

TRT#: 12

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Mild
* Bone	Cranium	Hyperostosis	Mild
Note: Femur is Normal			
[Hyperostosis TGLS = 2-12]			
* Bone Marrow		Depletion Cellular	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Minimal
* Trachea		Inflammation	Chronic, Minimal
* Uterus	Endometrium	Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 574

TRT#: 12

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Adrenal Medulla

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Minimal
* Clitoral Gland	Bilateral	Adenoma	
* Harderian Gland	Bilateral	Infiltration Cellular Basophilic Focus	Lymphocyte, Minimal Minimal
* Liver	Bile Duct	Hyperplasia Mixed Cell Focus	Minimal Minimal
	[Mixed Cell Focus TGLS = 3-14]		
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-3]		
* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Cervix	Schwannoma Malignant	
	[Schwannoma Malignant TGLS = 1-12]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 575

TRT#: 12

SEX: Female

DAY ON TEST: 617

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Vacuolization Cytoplasmic	Mild Focal, Minimal Focal, Minimal
* Bone Note: Femur is Normal. [Hyperostosis TGLS = 3-12]	Cranium	Hyperostosis	Mild
* Bone Marrow		Depletion Cellular	Mild
* Brain [Compression TGLS = 4-1]	Hypothalamus	Compression	Minimal
* Clitoral GI Note: Only one of pair available for examination.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver	Bilateral	Nephropathy Eosinophilic Focus Infiltration Cellular Mixed Cell Focus	Minimal Minimal Mixed Cell, Minimal Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Fibroadenoma Galactocele	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 575	TRT#: 12	SEX: Female	DAY ON TEST: 617
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-575

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Moderate
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Lesion 1 identified grossly as Clitoral Gland is microscopically identified as occurring in Mammary Gland.

Animal Note: Carcass, Thin, Observed, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 576

TRT#: 12

SEX: Female

DAY ON TEST: 462

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland	Bilateral	Atrophy	Mild
* Intestine Large, Rectum		Schwannoma Malignant	Metastatic (Uterus)
* Kidney	Pelvis	Dilatation	Mild
	Pelvis, Transit Epithe	Hyperplasia	Mild
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
		Schwannoma Malignant	Metastatic (Uterus)
	[Dilatation TGLS = 9-8]		
	[Schwannoma Malignant TGLS = 3-8]		
* Liver		Hematopoietic Cell Proliferation	Minimal
		Schwannoma Malignant	Metastatic (Uterus)
	[Schwannoma Malignant TGLS = 4-13]		
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery		Schwannoma Malignant	Metastatic (Uterus)
	[Schwannoma Malignant TGLS = 2-12]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild

Note: Fungi present in nasal exudate.

* Ovary
Note: TGL 7-NCL

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 576	TRT#: 12	SEX: Female	DAY ON TEST: 462
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-576

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
	[Hematopoietic Cell Proliferation TGLS = 8-6]		
* Thymus		Atrophy	Marked
* Uterus		Hydrometra	Mild
		Schwannoma Malignant	
	[Hydrometra TGLS = 6-9]		
	[Schwannoma Malignant TGLS = 1-14,15]		

PRIMARY CAUSE OF DEATH - Uterus Schwannoma Malignant

Animal Note: Cavities, abdominal, fluid, red, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 577 **TRT#:** 12 **SEX:** Female **DAY ON TEST:** 737
DOSE: SHAM CONTROL **DISP:** Terminal Sacrifice **HISTO:** 94-5216-577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hypertrophy	Mild Focal, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Eosinophilic Focus Mixed Cell Focus	Minimal Mild
* Lung	Interstitial	Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hemorrhage Pigmentation	Minimal Moderate
[Hemorrhage TGLS = 2-3]			
* Lymph Node, Mesenteric		Degeneration Infiltration Cellular	Cystic, Minimal Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration Inflammation	Minimal Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Hyperplasia	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 577	TRT#: 12	SEX: Female	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-577

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Carcinoma	
* Uterus		Hydrometra	Minimal

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 578

TRT#: 12
DOSE: SHAM CONTROL

SEX: Female
DISP: Natural Death

DAY ON TEST: 736
HISTO: 94-5216-578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	Lymph Node	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Pineal Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone Marrow		Depletion Cellular	Minimal
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 3-1]			
* Clitoral GI			
Note: One of pair examined.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
Lymph Node			
Note: Axillary Lymph Node is Normal			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary		Tubulostromal Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 578

TRT#: 12

SEX: Female

DAY ON TEST: 736

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-578

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Parotid GI

Hyperplasia

Mild

* Spleen

Pigmentation

Minimal

* Thymus

Cyst

Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 579

TRT#: 12

SEX: Female

DAY ON TEST: 646

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-579

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain			
Note: TGL 6-NCL			
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Kidney		Leukemia Mononuclear	
	Bilateral	Mineralization	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6,13; 7-13]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Galactoceles	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-14]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 579	TRT#: 12	SEX: Female	DAY ON TEST: 646
	DOSE: SHAM CONTROL	DISP: Moribund Sacrifice	HISTO: 94-5216-579

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 5-3]			
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Trachea		Inflammation	Chronic, Minimal
* Uterus	Cervix	Leukemia Mononuclear	
	Endometrium	Polyp Stromal	
[Leukemia Mononuclear TGLS = 8-12]			
[Polyp Stromal TGLS = 2-9]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 580

TRT#: 12

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-580

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 581 **TRT#:** 12 **SEX:** Female **DAY ON TEST:** 710
DOSE: SHAM CONTROL **DISP:** Other **HISTO:** 94-5216-581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
		Hyperplasia	Focal, Moderate
* Bone	Femur	Hyperostosis	Mild
* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Serosa	Inflammation	Chronic, Moderate
Lymph Node	Deep Cervical	Sarcoma	Metastatic (Skin)
[Sarcoma TGLS = 2-12]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Ovary			
Note: TGL 1-NCL			
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Skin	Subcut Tiss	Sarcoma	
[Sarcoma TGLS = 3-13]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Carcinoma	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 581

TRT#: 12

SEX: Female

DAY ON TEST: 710

DOSE: SHAM CONTROL

DISP: Other

HISTO: 94-5216-581

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Lesion 3 identified grossly as Tissue NOS is microscopically identified as occur ring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 582	TRT#: 12	SEX: Female	DAY ON TEST: 739
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Pancreas
* Pineal Gland	* Pituitary Gland	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

Lymph Node	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Moderate
* Clitoral Gland		Cyst	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lung			
Lymph Node			
Note: Inguinal Lymph Node is Missing			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Salivary Glands	Duct, Parotid Gl	Mineralization	Moderate
* Skin		Keratoacanthoma	
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 582

TRT#: 12

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-582

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Cytoplasmic Alteration

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 583

TRT#: 12

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	Lacrimal Gland	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Infarct	Mild
	Bilateral, Pelvis	Inflammation	Chronic, Mild
	Bilateral	Nephropathy	Minimal
Lacrimal GI			
Note: TGL 4-NCL			
* Liver		Basophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
[Hepatodiaphragmatic Nodule TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
[Cyst TGLS = 1-13, 2-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary			
Note: TGL 3-NCL			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 583

TRT#: 12

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-583

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Mild
	Epithel Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
		Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 584

TRT#: 12

SEX: Female

DAY ON TEST: 543

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Salivary Glands	Skeletal Muscle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Clitoral G			
Note: Only one of pair available for evaluation.			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
	[Cataract TGLS = 2-14]		
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Minimal
	[Congestion TGLS = 1-7]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-3]		
* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 584

TRT#: 12

SEX: Female

DAY ON TEST: 543

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-584

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 585

TRT#: 12

SEX: Female

DAY ON TEST: 533

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Infiltration Cellular	Lymphocyte, Minimal
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 2-6]		
* Thymus		Atrophy	Moderate
* Uterus		Leiomyosarcoma	
	[Leiomyosarcoma TGLS = 1-12]		

PRIMARY CAUSE OF DEATH

- Uterus Leiomyosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 586

TRT#: 12

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Uterus			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
Note: One of pair examined.			
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,5-6,12]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2,3-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 586	TRT#: 12	SEX: Female	DAY ON TEST: 738
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-586

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 587

TRT#: 12

SEX: Female

DAY ON TEST: 598

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow		Depletion Cellular	Minimal
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 2-1]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Mild
Note: C-Cell			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Pigmentation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:24

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 587

TRT#: 12

SEX: Female

DAY ON TEST: 598

DOSE: SHAM CONTROL

DISP: Moribund Sacrifice

HISTO: 94-5216-587

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:24
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 588

TRT#: 12

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea	* Uterus	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Adenoma	
	Bilateral	Angiectasis	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
	[Cataract TGLS = 6-14]		
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Mild
* Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
	[Cyst TGLS = 3-13]		
	[Fibroadenoma TGLS = 1,2-12]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 588	TRT#: 12	SEX: Female	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-588

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 4-13]	Fat	Necrosis	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary [Hyperplasia TGLS = 5-9]	Bilateral, Rete Ovarii	Hyperplasia	Mild
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 589

TRT#: 12

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Brain	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 6-3]			
* Bone	Femur	Hyperostosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic, Minimal
* Kidney	Bilateral	Leukemia Mononuclear Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus Hepatodiaphragmatic Nodule Leukemia Mononuclear	Moderate
[Hepatodiaphragmatic Nodule TGLS = 7-6]			
[Leukemia Mononuclear TGLS = 8-6,12]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-14]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Adenoma Cyst Fibroadenoma	Minimal Multiple
[Adenoma TGLS = 3-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 589

TRT#: 12

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-589

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration Inflammation	Minimal Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Ovary	Follicle	Cyst	Mild
[Cyst TGLS = 5-9]			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 9-3]			
* Skin		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 590

TRT#: 12

SEX: Female

DAY ON TEST: 739

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Vacuolization Cytoplasmic	Mild Focal, Minimal Focal, Mild
* Brain [Compression TGLS = 4-1]	Hypothalamus	Compression	Mild
* Clitoral Gland		Hyperplasia Inflammation	Focal, Mild Chronic, Minimal
* Kidney	Bilateral Bilateral	Mineralization Nephropathy	Minimal Minimal
* Liver		Basophilic Focus Fibrosis Infiltration Cellular Mixed Cell Focus	Mild Minimal Mixed Cell, Minimal Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland [Fibroadenoma TGLS = 1-13, 2-12]		Cyst Fibroadenoma	Mild Multiple
* Pituitary Gland [Adenoma TGLS = 3-3]	Pars Distalis	Adenoma	
* Spleen		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 590	TRT#: 12	SEX: Female	DAY ON TEST: 739
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-590

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular	Glands	Pigmentation	Minimal
		Cyst	Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 591

TRT#: 12
DOSE: SHAM CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 738
HISTO: 94-5216-591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone	Femur	Hyperostosis	Moderate
	Turbinates	Hyperostosis	Moderate
* Bone Marrow		Hyperplasia	Minimal
* Brain	Hypothalamus	Compression	Mild
	[Compression TGLS = 1-1]		
* Clitoral Gland			
	Note: Only one of pair examined		
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Galactocele	Mild
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 3-12]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 591	TRT#: 12	SEX: Female	DAY ON TEST: 738
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-591

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
* Uterus	Endometrium	Inflammation	Chronic, Mild

Note: An intussusception of the uterus is present.

[Inflammation TGLS = 4-12]

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 592

TRT#: 12

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-592

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	Lymph Node	* Lymph Node, Mandibular
* Mammary Gland	* Pancreas	* Pineal Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Moderate
		Clear Cell Focus	Minimal
		Inflammation	Chronic, Minimal
Lymph Node			
Note: Axillary Lymph Node is Normal			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Periovarn Tiss	Cyst	Moderate
[Cyst TGLS = 1-12]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 3-13]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 592	TRT#: 12	SEX: Female	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-592

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Pigmentation	Minimal
		Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 3 identified grossly as Mammary Gland is microscopically identified as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 593

TRT#: 12
DOSE: SHAM CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 737
HISTO: 94-5216-593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Blood Vessel

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Bone	Femur	Hyperostosis	Minimal
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 3-1]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Mild
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Carcinoma	
[Carcinoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Bilateral	Inflammation	Chronic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 593

TRT#: 12

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-593

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Carcass, Thin, TGL 4-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 594

TRT#: 12

SEX: Female

DAY ON TEST: 616

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Mild
* Lung		Congestion	Mild
Note: TGL 1-NCL			
[Congestion TGLS = 2-7]			
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Spleen	Lymph Follic	Atrophy	Minimal
		Pigmentation	Mild
[Atrophy TGLS = 3-6]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 595

TRT#: 12

SEX: Female

DAY ON TEST: 610

DOSE: SHAM CONTROL

DISP: Natural Death

HISTO: 94-5216-595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Marked
* Clitoral GI			
Note: Only one available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Carcinosarcoma	Metastatic (Lung)
* Kidney	Bilateral	Nephropathy	Mild
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Vacuolization Cytoplasmic TGLS = 2-6]			
* Lung		Carcinosarcoma	
[Carcinosarcoma TGLS = 1-12]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Pineal Gland		Mineralization	Minimal
* Spleen		Pigmentation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Lung Carcinosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 596

TRT#: 12

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Leukemia Mononuclear	Mild
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver	Bilateral, Renal Tubule Bile Duct	Pigmentation Hyperplasia Leukemia Mononuclear	Mild Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Note: TGL 4-NCL			
Lymph Node		Leukemia Mononuclear	
Note: Involves Axillary Lymph Node			
[Leukemia Mononuclear TGLS = 6-12]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 5-13; 1-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 596	TRT#: 12	SEX: Female	DAY ON TEST: 737
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-596

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Endometrium	Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Cavity, Abdominal, Fluid, Red, TGL 3-NST

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 597

TRT#: 12

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Minimal
* Bone	Cranium Femur	Hyperostosis Hyperostosis	Mild Mild
[Hyperostosis TGLS = 5-12]			
* Brain			
Note: TGL 7-NCL			
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-9]			
Eye	Bilateral, Retina Bilateral, Lens Bilateral, Iris	Atrophy Cataract Synechia	Marked Marked Mild
Note: TGL 8-NCL			
[Cataract TGLS = 4-13]			
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus Infiltration Cellular	Mild Lymphocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Infiltration Cellular	Histiocyte, Mild
[Cyst TGLS = 2-5]			
* Mammary Gland		Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 597	TRT#: 12	SEX: Female	DAY ON TEST: 738
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-597

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Glands	Cyst	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Spleen		Pigmentation	Mild
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 598

TRT#: 12

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-598

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-3]		
* Spleen		Pigmentation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Hydrometra	Marked
	Endometrium	Polyp Stromal	
	[Hydrometra TGLS = 2-9]		
	[Polyp Stromal TGLS = 1-9]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 598

TRT#: 12

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-598

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 599

TRT#: 12

SEX: Female

DAY ON TEST: 737

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Ovary
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
		Nephropathy	Minimal
Note: TGL 1-NCL			
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Depletion Cellular	Focal, Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 600

TRT#: 12

SEX: Female

DAY ON TEST: 738

DOSE: SHAM CONTROL

DISP: Terminal Sacrifice

HISTO: 94-5216-600

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	Lacrimal Gland
* Lung	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 10-1]			
* Clitoral Gland		Hyperplasia	Focal, Mild
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
Lacrimal GI			
Note: TGL 8-NCL			
* Liver	Bile Duct	Basophilic Focus	Mild
		Hyperplasia	Minimal
		Leukemia Mononuclear	
		Mixed Cell Focus	Mild
[Basophilic Focus TGLS = 6-6,12]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-13]			
* Lymph Node, Mandibular		Hemorrhage	Minimal
[Hemorrhage TGLS = 2-14]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
		Galactocele	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 600	TRT#: 12	SEX: Female	DAY ON TEST: 738
	DOSE: SHAM CONTROL	DISP: Terminal Sacrifice	HISTO: 94-5216-600

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Inguinal Mammary Gland was included with Clitoral Gland in slide 9 and appears responsible for the Mammary Gland enlargement (TGL 1)

[Fibroadenoma TGLS = 1-9]

[Galactocele TGLS = 3-15]

Mesentery [Necrosis TGLS = 5-16]	Fat	Necrosis	Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary Note: TGL 7-NCL			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 9-3]	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
* Thymus	Epithel Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Hydrometra	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 601

TRT#: 4

SEX: Female

DAY ON TEST: 611

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
--------------------------	----------------------------

OBSERVATIONS

* Bone Marrow		Depletion Cellular	Mild
* Brain	Hypothalamus	Compression	Marked
[Compression TGLS = 4-1]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Mild
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
* Lung		Congestion	Mild
[Congestion TGLS = 2-7]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Pigmentation	Mild
* Stomach, Glandular		Erosion	Focal, Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 602

TRT#: 4

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-602

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Marked
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	[Adenoma TGLS = 3-3]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 602	TRT#: 4	SEX: Female	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-602

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Cavities, Abdominal, Fluid, Red, TGL, 2-NST Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 603

TRT#: 4

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-603

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
	Bilateral	Hematopoietic Cell Proliferation	Minimal
		Vacuolization Cytoplasmic	Focal, Mild
* Clitoral Gland		Adenoma	
		Inflammation	Chronic Active, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Moderate
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node			
Note: Inguinal Lymph Node is Missing			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 603

TRT#: 4

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-603

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 604

TRT#: 4

SEX: Female

DAY ON TEST: 685

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

MISSING

* Lymph Node, Mesenteric

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Brain			
Note: TGL 2-NCL			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lym Node Mesen			
Note: The tissue mentioned as retrim for Mesenteric Lymph Node probably represents Mediastinal Lymph Node.			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 605

TRT#: 4

SEX: Female

DAY ON TEST: 674

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Hematopoietic Cell Proliferation Hyperplasia Leukemia Mononuclear Vacuolization Cytoplasmic Leukemia Mononuclear	Minimal Focal, Moderate Focal, Minimal
* Bone Marrow			
* Clitoral GI			
Note: Only one available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Leukemia Mononuclear	
* Liver	Bilateral, Renal Tubule Bile Duct	Pigmentation Hyperplasia Leukemia Mononuclear	Mild Minimal
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Hemorrhage Infiltration Cellular	Mild Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Bilateral, Periovarn Tiss	Cyst	Minimal
[Cyst TGLS = 2-9]			
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 605	TRT#: 4	SEX: Female	DAY ON TEST: 674
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-605

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-3]			
* Salivary Glands	Parotid GI	Atrophy	Mild
* Skin	Subcut Tiss	Necrosis	Mild
[Necrosis TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Mild Chronic, Mild
* Stomach, Glandular	Glands	Cyst	Mild
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 606

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Marked
			[Mixed Cell Focus TGLS = 3-6]
* Lung		Congestion	Minimal
		Infiltration Cellular	Histiocyte, Minimal
			[Congestion TGLS = 4-7]
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Mild
			[Necrosis TGLS = 1-12]
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Moderate
	Pars Distalis	Cyst	Mild
			[Angiectasis TGLS = 5-3]
* Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 606

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-606

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 2-NCL

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:25

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 607

TRT#: 4

SEX: Female

DAY ON TEST: 532

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-607

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Brain
* Heart
* Intestine Small, Jejunum
* Liver
* Pineal Gland
* Spleen
* Trachea

* Blood Vessel
* Clitoral Gland
* Intestine Large, Cecum
* Islets, Pancreatic
* Mammary Gland
* Pituitary Gland
* Stomach, Forestomach
* Urinary Bladder

* Bone
* Esophagus
* Intestine Large, Colon
* Kidney
* Ovary
* Salivary Glands
* Stomach, Glandular
* Uterus

* Bone Marrow
* Harderian Gland
* Intestine Large, Rectum
Larynx
* Parathyroid Gland
* Skin
* Thyroid Gland

MISSING

* Thymus

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex
Larynx
Note: TGL, 1-NCL

Hyperplasia

Focal, Mild

* Lung
* Lymph Node, Mandibular
* Lymph Node, Mesenteric

Congestion
Hyperplasia
Infiltration Cellular
Inflammation
Infiltration Cellular

Mild
Lymphoid, Mild
Histiocyte, Mild
Chronic Active, Marked
Lymphocyte, Minimal

* Nose
* Pancreas

Nasolacrim Dct

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 608

TRT#: 4

SEX: Female

DAY ON TEST: 589

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Infiltration Cellular Vacuolization Cytoplasmic	Lymphocyte, Mild Focal, Moderate
* Adrenal Medulla	Bilateral	Infiltration Cellular	Lymphocyte, Moderate
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gl			
Note: Only one available for evaluation.			
* Kidney	Pelvis Bilateral	Inflammation Nephropathy	Chronic Active, Mild Minimal
* Liver		Basophilic Focus Mixed Cell Focus	Moderate Moderate
Note: TGL 2-NCL			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Carcinoma Cyst	Minimal
[Carcinoma TGLS = 1-12]			
* Spleen	Lymph Follic	Hematopoietic Cell Proliferation Hyperplasia	Moderate Mild
[Hematopoietic Cell Proliferation TGLS = 3-6]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 608

TRT#: 4

SEX: Female

DAY ON TEST: 589

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-608

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 609

TRT#: 4

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Vacuolization Cytoplasmic	Minimal Focal, Mild Focal, Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus Infiltration Cellular	Minimal Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 2-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
[Angiectasis TGLS = 3-3]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 610

TRT#: 4

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-610

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
Note: Brain, Deformity, TGL, 8-NCL			
[Leukemia Mononuclear TGLS = 7-1]			
* Clitoral Gland		Leukemia Mononuclear	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Moderate
[Pigmentation TGLS = 4-8]			
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
Lymph Node	Lumbar	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-12]			
[Leukemia Mononuclear TGLS = 5-13]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Epithelium	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 610	TRT#: 4	SEX: Female	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-610

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed at Trim, TGL 9-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 611

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adren Medulla			
Note: Only one available for examination.			
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-9]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
[Hepatodiaphragmatic Nodule TGLS = 3-12]			
* Lung		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Minimal
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus		Hydrometra	Moderate
[Hydrometra TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 612

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain			
Note: TGL 9-NCL			
* Clitoral Gland		Leukemia Mononuclear	
* Harderian Gland		Atrophy	Focal, Mild
		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 6-14]			
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Galactocele	Marked
[Fibroadenoma TGLS = 2-13, 10-15]			
[Galactocele TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Periovarn Tiss	Cyst	Marked
[Cyst TGLS = 4-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 612	TRT#: 4	SEX: Female	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-612

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 7-2]			
* Uterus	Endometrium	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 7 identified grossly as Parathyroid is microscopically identified as occurring in Thyroid.

Animal Note: Lesion 6 identified grossly as Skeletal Muscle (diaphragm) is microscopically identified as occurring in Liver.

Animal Note: Lesion 2 identified grossly as Bone is microscopically identified as occurring in Mammary Gland.

Animal Note: Lesion 6 identified grossly as Skeletal Muscle is microscopically identified as occurring in Liver.

Animal Note: Carcass, Thin, TGL 11-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 613

TRT#: 4

SEX: Female

DAY ON TEST: 715

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-613

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

MISSING

* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 3-1]			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
* Uterus		Fibroma	

Note: The neoplasm is composed of lipocytes and fibrous connective tissue.

[Fibroma TGLS = 1-12]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 613

TRT#: 4

SEX: Female

DAY ON TEST: 715

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-613

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 614 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 739
DOSE: 0.02 GAUSS **DISP:** Terminal Sacrifice **HISTO:** 94-5216-614

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
	Bilateral	Infiltration Cellular	Mixed Cell, Mild
		Vacuolization Cytoplasmic	Focal, Minimal
* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Minimal
[Basophilic Focus TGLS = 3-6]			
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Cyst TGLS = 2-5]			
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Bilateral, Periovarn Tiss	Cyst	Mild
	Rete Ovarii	Hyperplasia	Mild
	Bilateral	Inflammation	Chronic, Mild
[Cyst TGLS = 4-9]			
* Pancreas	Acinus	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 614	TRT#: 4	SEX: Female	DAY ON TEST: 739
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-614

ORGAN AND ACCOUNTABLE SITE STATUS

Note: For lesion, see slide 5.			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Spleen		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Marked
Note: Limited sample.			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 615

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-615

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral, Pelvis, Transit Epithe Pelvis	Hyperplasia Inflammation	Mild Chronic Active, Mild
* Liver	Bilateral	Mineralization Basophilic Focus Infiltration Cellular	Minimal Minimal Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Carcinoma Cyst Fibroadenoma	Mild Multiple
	[Carcinoma TGLS = 1-12] [Fibroadenoma TGLS = 2-13, 3-14]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Periovarn Tiss	Cyst	Marked
	[Cyst TGLS = 4-9,9.1]		
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 615	TRT#: 4	SEX: Female	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-615

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Lymph Follic	Atrophy	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Minimal
* Uterus			
Note: TGL 5-NCL			

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 2 identified grossly as Axillary Lymph Node is microscopically identified as occurring in Mammary Gland.

Animal Note: Lesion 3 identified grossly as Axillary Lymph Node is microscopically identified as occurring in Mammary Gland.

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 616

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-616

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex		Angiectasis	Minimal
		Hyperplasia	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Minimal
		Leukemia Mononuclear	
* Bone Marrow			
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1-12, 2-5,12]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Bilateral	Atrophy	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 616	TRT#: 4	SEX: Female	DAY ON TEST: 729
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-616

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 617

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-617

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Uterus			

INSUFFICIENT TISSUE

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Minimal
[Mixed Cell Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary			
Note: Only one of pair available for evaluation.			
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 617

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-617

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Lesion 1 identified grossly as Axillary Lymph Node is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 618

TRT#: 4

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-618

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	Mesentery	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Lung			
Note: TGL 5-NCL			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12; 2-13; 3-14]			
Mesentery			
Note: TGL 6-NCL			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Marked
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Glands	Cyst	Mild
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 618	TRT#: 4	SEX: Female	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-618

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Endometrium	Deciduoma Malignant	
	Endometrium, Epithelium	Hyperplasia	Mild

[Deciduoma Malignant TGLS = 4-15]

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesions 1 and 3 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

Animal Note: Lesion 2 identified grossly as Inguinal Lymph Node is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 619 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 737
DOSE: 0.02 GAUSS **DISP:** Terminal Sacrifice **HISTO:** 94-5216-619

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Clitoral Gland		Adenoma	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Bilateral	Inflammation	Chronic, Moderate
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 620

TRT#: 4

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-620

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral Bilateral	Angiectasis Hematopoietic Cell Proliferation Hyperplasia Vacuolization Cytoplasmic	Mild Minimal Focal, Mild Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-13]			
Eye	Retina Lens	Atrophy Cataract	Marked Mild
[Cataract TGLS = 5-15]			
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral, Renal Tubule	Accumulation, Hyaline Droplet	Mild
* Liver		Basophilic Focus Eosinophilic Focus Hematopoietic Cell Proliferation Mixed Cell Focus	Mild Minimal Minimal Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lung	Interstitialium	Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
[Hemorrhage TGLS = 4-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 620	TRT#: 4	SEX: Female	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-620

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 2-12]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 3-6]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 2 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 621

TRT#: 4

SEX: Female

DAY ON TEST: 498

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Ovary	* Pancreas
Peripheral Nerve	* Pineal Gland	* Pituitary Gland	* Salivary Glands
Skeletal Muscle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Leukemia Mononuclear	
* Kidney	Pelvis, Transit Epithe	Hyperplasia	Minimal
	Bilateral, Renal Tubule	Leukemia Mononuclear	
* Liver		Pigmentation	Mild
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-6]	
* Lung		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3,5-7]	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 621

TRT#: 4

SEX: Female

DAY ON TEST: 498

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-621

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-6]

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 6-NST

Animal Note: Cavities, Thoracic, Fluid, 0.4ml, Clear, TGL 4-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 622

TRT#: 4

SEX: Female

DAY ON TEST: 721

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-622

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Necrosis	Moderate
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral, Pelvis, Transit Epithe Bilateral	Hyperplasia	Minimal
		Mineralization	Minimal
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Mixed Cell Focus TGLS = 2,3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-12]		
* Nose		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands	Parotid GI	Hyperplasia	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 623

TRT#: 4

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-623

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Clitoral Gland		Adenoma	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Minimal
* Skin		Inflammation	Chronic Active, Focal, Mild
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 623

TRT#: 4

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-623

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 624

TRT#: 4

SEX: Female

DAY ON TEST: 727

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder

MISSING

* Parathyroid Gland	* Pineal Gland
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OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex		Angiectasis	Minimal
Note: TGL 4-NCL			
* Bone Marrow		Hyperplasia	Minimal
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 6-1]			
* Clitoral Gland		Hyperplasia	Focal, Marked
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Galactocele	Moderate
[Fibroadenoma TGLS = 1-12, 2-13, 3-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 624

TRT#: 4

SEX: Female

DAY ON TEST: 727

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-624

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Marked
* Trachea		Inflammation	Chronic, Minimal
* Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 625

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-625

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Minimal Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Clitoral Gland		Adenoma	
		Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 5-7]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
	[Cyst TGLS = 3-5]		
	[Fibroadenoma TGLS = 1-12, 2-13]		
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Rathkes Cleft	Hemorrhage	Mild
	[Hemorrhage TGLS = 4-3]		
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 625

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-625

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 626	TRT#: 4	SEX: Female	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-626

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12, 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 627

TRT#: 4

SEX: Female

DAY ON TEST: 739

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-627

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Uterus	

MISSING

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Mild Focal, Minimal
* Brain	Meninges	Granular Cell Tumor Benign	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus Eosinophilic Focus Infiltration Cellular	Mild Minimal Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
[Cyst TGLS = 4-3]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-12]			
* Spleen		Congestion	Minimal
[Congestion TGLS = 2-6]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 627

TRT#: 4

SEX: Female

DAY ON TEST: 739

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-627

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 3-2]

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 628

TRT#: 4

SEX: Female

DAY ON TEST: 641

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-628

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone Marrow		Depletion Cellular	Moderate
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 2-1]			
* Clitoral GI			
Note: Only one of pair available for examination.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Basophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
* Ovary	Bilateral	Granulosa Cell Tumor Benign	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Pigmentation	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, Found at Retrim, TGL 3-NST.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 629 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 631
DOSE: 0.02 GAUSS **DISP:** Moribund Sacrifice **HISTO:** 94-5216-629

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia Necrosis Vacuolization Cytoplasmic	Focal, Moderate Moderate Focal, Mild
* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Focal, Mild
* Bone	Femur	Hyperostosis	Mild
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland	Epithelium	Hyperplasia	Marked
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Bilateral, Rete Ovarii	Hyperplasia	Mild
	Bilateral	Tubulostromal Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-3]		
* Salivary Glands	Parotid Gl	Atrophy	Moderate
* Skin	Subcut Tiss	Hemangiosarcoma	
	[Hemangiosarcoma TGLS = 1-12]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Diffuse, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 629

TRT#: 4

SEX: Female

DAY ON TEST: 631

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-629

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Hydrometra

Moderate

[Hydrometra TGLS = 2-9]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Hemangiosarcoma

Animal Note: Carcass, Thin, TGL 5-NST

Animal Note: Due to recording error on Individual Animal Necropsy Record, there is no TGL 3.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 630

TRT#: 4

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-630

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Urinary Bladder	* Uterus		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Bone	Femur	Hyperostosis	Moderate
	Turbinates	Hyperostosis	Mild
* Brain			
Note: TGL 6-NCL			
* Harderian Gland		Inflammation	Chronic, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Moderate
[Mixed Cell Focus TGLS = 7-17]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Moderate
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12, 2-13, 3-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 630	TRT#: 4	SEX: Female	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-630

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-3] Tongue	Epithelium	Hyperplasia	Focal, Marked
[Hyperplasia TGLS = 4-15] * Trachea	Glands	Cyst	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesions 1, 2 and 3 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 631

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-631

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Moderate
Note: Only one of pair available for evaluation.			
* Bone Marrow		Hyperplasia	Moderate
* Brain			
Note: TGL 9-NCL			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Minimal
[Mixed Cell Focus TGLS = 5-6]			
* Lung	Interstitial	Inflammation	Chronic, Mild
[Inflammation TGLS = 6-7]			
Lymph Node	Inguinal	Degeneration	Cystic, Mild
	Inguinal	Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 7-15]			
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2-13, 3-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 631	TRT#: 4	SEX: Female	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-631

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 8-3]		
* Skin		Basal Cell Adenoma	
	[Basal Cell Adenoma TGLS = 1-12]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 4-6]		
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 2 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

Animal Note: Lesion 3 identified grossly as Lymph Node is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 632

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-632

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Marked
[Mixed Cell Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic, Mild
* Ovary	Rete Ovarii	Hyperplasia	Mild
Note: TGL 3-NCL			
* Pancreas	Acinus	Atrophy	Diffuse, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Intermed	Adenoma	
	Pars Distalis	Inflammation	Chronic, Minimal
[Adenoma TGLS = 5-3]			
[Inflammation TGLS = 6-3]			
* Spleen		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 632

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-632

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 633

TRT#: 4

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-633

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland		Adenoma	
* Harderian Gland		Inflammation	Chronic, Minimal
Note: TGL 3-NCL			
* Kidney	Bilateral	Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
		Galactocele	Mild
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Spleen		Depletion Cellular	Focal, Mild
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 633

TRT#: 4

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-633

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 634

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-634

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone Marrow		Hyperplasia	Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Carcinoma	
		Cyst	Minimal
[Carcinoma TGLS = 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-12]			
* Spleen	Lymph Follic	Atrophy	Minimal
* Thymus		Cyst	Mild
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 634

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-634

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Lesion 2 identified grossly as Clitoral Gland is microscopically identified as occurring in Mammary Gland.

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as occurring in Skin.

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 635 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 739
DOSE: 0.02 GAUSS **DISP:** Terminal Sacrifice **HISTO:** 94-5216-635

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Hyperplasia	Focal, Marked
[Adenoma TGLS = 4-3]			
[Hyperplasia TGLS = 3-3]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 635

TRT#: 4

SEX: Female

DAY ON TEST: 739

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-635

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Polyp Stromal

Multiple

[Polyp Stromal TGLS = 2-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 636

TRT#: 4

SEX: Female

DAY ON TEST: 522

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-636

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adren Medulla			
Note: Only One Adrenal Medulla examined			
* Bone Marrow		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Inflammation	Chronic, Minimal
* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 637

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-637

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland
* Pineal Gland	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hemorrhage	Marked
		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone	Femur	Hyperostosis	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
* Lung	Interstitialium	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Salivary Glands	Duct, Sublingul GI	Metaplasia	Squamous, Minimal
* Spleen		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland		Ultimobranchial Cyst	Minimal
* Uterus	Endometrium	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 637

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-637

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 638

TRT#: 4

SEX: Female

DAY ON TEST: 711

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-638

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Note: Only one of pair available for evaluation.			
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
[Alveolar/Bronchiolar Adenoma TGLS = 6-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 3-14, 4-15]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-13]			
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 638

TRT#: 4

SEX: Female

DAY ON TEST: 711

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-638

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Animal Note: Lesion 2 identified grossly as Inguinal Lymph Node is microscopically identified as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 639

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-639

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Clitoral Gland	* Pineal Gland
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
	Bilateral	Vacuolization Cytoplasmic	Focal, Mild
* Bone	Femur	Hyperostosis	Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 5-15]			
* Lung	Interstitial	Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
[Cyst TGLS = 2-5]			
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Interstit Cell	Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 4-3]			
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 639	TRT#: 4	SEX: Female	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-639

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Cyst	Mild
	C Cell	Adenoma	
* Uterus		Hyperplasia	Focal, Mild
[Hydrometra TGLS = 3-9]		Hydrometra	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 640	TRT#: 4	SEX: Female	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-640

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	Vagina

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Clitoral Gland		Adenoma	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Follicle	Cyst	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 5-3]			
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Uterus	Endometrium	Polyp Stromal	
Note: TGL 3-NCL			
[Polyp Stromal TGLS = 2-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 640

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-640

ORGAN AND ACCOUNTABLE SITE STATUS

Vagina

Note: TGL 4-NCL

Note: The lumen contains hemorrhagic exudate that originated in the uterus.

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 641

TRT#: 4

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-641

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Focal, Mild
* Bone	Cranium	Hyperostosis	Minimal
	Femur	Hyperostosis	Mild
[Hyperostosis TGLS = 3-12]			
* Brain			
Note: TGL 5-NCL			
* Clitoral Gland		Adenoma	
Note: Only one of pair available for evaluation.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Minimal
[Eosinophilic Focus TGLS = 6-14]			
* Lung		Congestion	Mild
		Infiltration Cellular	Histiocyte, Minimal
[Congestion TGLS = 2-7]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Mammary Gland		Carcinoma	
		Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 641	TRT#: 4	SEX: Female	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-641

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Bilateral, Rete Ovarii	Hyperplasia	Mild
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Uterus		Hemorrhage	Moderate
[Hemorrhage TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 642

TRT#: 4

SEX: Female

DAY ON TEST: 739

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-642

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone	Femur	Hyperostosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain	Meninges	Granular Cell Tumor Benign	
Note: See slide 1a in lesion.			
* Clitoral Gland		Adenoma	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral, Renal Tubule	Mineralization	Minimal
* Liver	Bile Duct	Pigmentation	Moderate
		Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9,10-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4,5-7]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 12-14]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 642	TRT#: 4	SEX: Female	DAY ON TEST: 739
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-642

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Fibroadenoma Leukemia Mononuclear	Multiple
[Fibroadenoma TGLS = 1-12, 2-13]			
[Leukemia Mononuclear TGLS = 3-5]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Periovarn Tiss	Cyst	Mild
[Cyst TGLS = 7-9]			
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
* Stomach, Glandular		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-9]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 643

TRT#: 4

SEX: Female

DAY ON TEST: 672

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-643

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Kidney	* Lung	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Adrenal Medulla

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adren Cortex			
Note: Only one adrenal available for evaluation.			
* Adren Medulla			
Note: Only one adrenal available for evaluation.			
* Bone	Intervert Disc	Degeneration	Mild
Note: This lesion may represent a dislocation or ruptured intervertebral disc.			
Note: Femur is Normal			
[Degeneration TGLS = 4-12]			
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 3-1]			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 643	TRT#: 4	SEX: Female	DAY ON TEST: 672
	DOSE: 0.02 GAUSS	DISP: Natural Death	HISTO: 94-5216-643

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 2-3]	Pars Distalis	Adenoma	
* Spleen Note: TGL 1-NCL			
* Thyroid Gland		Ultimobranchial Cyst	Minimal
* Uterus	Endometrium	Fibrosis	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:25

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 644

TRT#: 4

DOSE: 0.02 GAUSS

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 738

HISTO: 94-5216-644

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Ovary
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Mild
[Angiectasis TGLS = 3-3] [Vacuolization Cytoplasmic TGLS = 4-3]			
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Moderate
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Marked
		Necrosis	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Eosinophilic Focus TGLS = 2-6] [Mixed Cell Focus TGLS = 5-14]			
* Lung		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 644	TRT#: 4	SEX: Female	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-644

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus		Hydrometra	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 645

TRT#: 4

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-645

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Inflammation	Minimal Focal, Mild Chronic Active, Minimal
* Clitoral Gland			
Note: Only one of pair available for evaluation.			
* Harderian Gland	Bilateral	Infiltration Cellular Cardiomyopathy Basophilic Focus Infiltration Cellular Mixed Cell Focus	Lymphocyte, Minimal Mild Mild Mixed Cell, Minimal Mild
* Heart			
* Liver			
[Mixed Cell Focus TGLS = 5-14]			
* Lung		Infiltration Cellular Mineralization Degeneration Hyperplasia	Histiocyte, Minimal Minimal Cystic, Mild Lymphoid, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Cyst	Mild
* Mammary Gland		Fibroadenoma	
[Cyst TGLS = 1-5]			
[Fibroadenoma TGLS = 2-12, 3-13]			
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 645	TRT#: 4	SEX: Female	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-645

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 646

TRT#: 4

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-646

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Pancreas	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus Infiltration Cellular Mixed Cell Focus	Mild Mixed Cell, Minimal Mild
[Mixed Cell Focus TGLS = 1-6]			
* Lung	Interstitial	Inflammation	Chronic, Minimal
[Inflammation TGLS = 2-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration Inflammation	Minimal Chronic, Mild
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Pigmentation	Minimal
* Thymus	Epithel Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 646	TRT#: 4 DOSE: 0.02 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-646
ORGAN AND ACCOUNTABLE SITE STATUS			
	C Cell	Hyperplasia	Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 647

TRT#: 4

SEX: Female

DAY ON TEST: 669

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-647

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Focal, Moderate
* Bone Marrow		Hyperplasia	Mild
* Clitoral GI			
Note: Only one of pair available for examination.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral, Renal Tubule	Degeneration	Moderate
		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Clear Cell Focus	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Vacuolization Cytoplasmic TGLS = 2-6]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 3-7]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Adenoma	
		Cyst	Minimal
Note: See slide 9 for adenoma.			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 647	TRT#: 4	SEX: Female	DAY ON TEST: 669
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-647

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Uterus	Endometrium	Leiomyosarcoma Polyp Stromal	

[Leiomyosarcoma TGLS = 1-12]

PRIMARY CAUSE OF DEATH - Uterus Endometrium Polyp Stromal

Animal Note: Carcass, Thin, TGL 4-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 648

TRT#: 4

SEX: Female

DAY ON TEST: 739

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-648

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 1-12]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
		Necrosis	Minimal
* Lung		Congestion	Moderate
	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
		Inflammation	Chronic, Mild
[Fibroadenoma TGLS = 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Follicle	Cyst	Mild
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 649 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 737
DOSE: 0.02 GAUSS **DISP:** Terminal Sacrifice **HISTO:** 94-5216-649

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Clitoral Gland	Bilateral	Inflammation	Chronic Active, Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Mild
[Cataract TGLS = 4-14]			
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung	Interstitialium	Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 649

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-649

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus	Atrophy	Minimal
* Uterus [Hydrometra TGLS = 3-9]	Hydrometra	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesions 1 and 2 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 650	TRT#: 4	SEX: Female	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-650

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Clitoral Gland		Adenoma	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13, 3-14, 4-15]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 5-16]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
[Angiectasis TGLS = 6-3]			
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesions 1, 2 and 3 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 650

TRT#: 4

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-650

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 651

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-651

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Inflammation Infiltration Cellular Hyperplasia	Mild Focal, Mild Chronic, Mild Lymphocyte, Minimal
* Clitoral Gland			Focal, Mild
* Harderian Gland			Minimal
* Islets, Pancreatic			Minimal
* Kidney	Bilateral	Nephropathy Basophilic Focus Eosinophilic Focus Infiltration Cellular Mixed Cell Focus	Minimal Minimal Mixed Cell, Minimal Mild
* Liver			Histiocyte, Mild
* Lymph Node, Mesenteric			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy Infiltration Cellular	Focal, Minimal Lymphocyte, Minimal
* Pituitary Gland	Pars Intermed Pars Distalis	Adenoma Cyst	Mild
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 651	TRT#: 14	SEX: Female	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-651

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia Ultimobranchial Cyst	Focal, Minimal Minimal
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PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Inguinal Lymph Node is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 652

TRT#: 14

SEX: Female

DAY ON TEST: 598

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-652

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Pineal Gland	* Salivary Glands
Skeletal Muscle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow		Depletion Cellular	Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 653

TRT#: 14

SEX: Female

DAY ON TEST: 588

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-653

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral, Renal Tubule	Leukemia Mononuclear	
* Liver		Pigmentation	Moderate
	[Leukemia Mononuclear TGLS = 3-6]	Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-7]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 654

TRT#: 14

SEX: Female

DAY ON TEST: 563

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-654

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Brain	Hypothalamus	Compression	Mild
* Clitoral Gl			
Note: Only one of pair available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
	Respirat Epith	Cytoplasmic Alteration	Mild
* Ovary	Periovarn Tiss	Cyst	Marked
[Cyst TGLS = 1-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Mild
* Thymus		Hemorrhage	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 655

TRT#: 14

SEX: Female

DAY ON TEST: 683

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-655

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Minimal
* Bone Marrow		Depletion Cellular	Minimal
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Minimal
	Hepatocyte	Infiltration Cellular	Mixed Cell, Minimal
	[Infiltration Cellular TGLS = 3-14, 4-15]	Vacuolization Cytoplasmic	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Carcinoma	
		Cyst	Minimal
	[Carcinoma TGLS = 1-12]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
	Nasolacrim Dct	Inflammation	Chronic Active, Mild
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 655

TRT#: 14

SEX: Female

DAY ON TEST: 683

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-655

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-3]

* Spleen

Pigmentation

Minimal

* Thymus

Atrophy

Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 656

TRT#: 14

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-656

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Brain	Hypothalamus	Compression	Minimal
[Compression TGLS = 1-1]			
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Fibroadenoma	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 656	TRT#: 14	SEX: Female	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-656

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:25

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 657

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-657

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Mild
* Bone Marrow		Hyperplasia Myelofibrosis	Mild Mild
* Clitoral Gland		Hyperplasia	Focal, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus Eosinophilic Focus Infiltration Cellular Mixed Cell Focus	Mild Minimal Mixed Cell, Minimal Minimal
* Lung		Alveolar/Bronchiolar Adenoma Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Mild Focal, Moderate
* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 657

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-657

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

C Cell
Endometrium
Endometrium

Carcinoma
Inflammation
Polyp Stromal

Chronic, Minimal

[Polyp Stromal TGLS = 1-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 658

TRT#: 14

SEX: Female

DAY ON TEST: 739

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-658

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral Bilateral	Angiectasis Inflammation Vacuolization Cytoplasmic	Mild Chronic, Mild Focal, Minimal
* Brain Note: TGL 3-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral Bilateral	Mineralization Nephropathy	Minimal Minimal
* Liver		Angiectasis Basophilic Focus Infiltration Cellular Mixed Cell Focus	Focal, Mild Mild Mixed Cell, Minimal Mild
[Angiectasis TGLS = 4-13]			
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst Fibroadenoma	Minimal
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 658	TRT#: 14	SEX: Female	DAY ON TEST: 739
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-658

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary		Inflammation	Chronic, Mild
		Tubulostromal Adenoma	
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 659

TRT#: 14

SEX: Female

DAY ON TEST: 739

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-659

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
	Bilateral	Vacuolization Cytoplasmic	Focal, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Mild
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
	[Hepatodiaphragmatic Nodule TGLS = 1-12]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
	[Cyst TGLS = 2-3]		
* Spleen		Pigmentation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thyroid Gland	Bilateral, C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 659

TRT#: 14

SEX: Female

DAY ON TEST: 739

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-659

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 660

TRT#: 14

SEX: Female

DAY ON TEST: 739

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Minimal
* Brain			
Note: TGL 7-NCL			
* Clitoral GI			
Note: TGL 4-NCL			
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Moderate
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13, 3-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Inflammation	Chronic Active, Mild
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 660	TRT#: 14	SEX: Female	DAY ON TEST: 739
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-660

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-3]

* Spleen		Leukemia Mononuclear	
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus		Hydrometra	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin, TGL 8-NST

Animal Note: Lesions 1, 2 and 3 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:25

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 661

TRT#: 14

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-661

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Uterus

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral, Renal Tubule	Accumulation, Hyaline Droplet	Marked
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
		Fibrosis	Mild
[Fibroadenoma TGLS = 2-13]			
Mesentery		Histiocytic Sarcoma	Metastatic (Skin)
[Histiocytic Sarcoma TGLS = 3-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Focal, Moderate
* Skin	Subcut Tiss	Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 1-12]			
* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 661

TRT#: 14

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-661

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Cavity is microscopically identified as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:25

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 662

TRT#: 14

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-662

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
Note: Only one of pair available for evaluation. [Pheochromocytoma Benign TGLS = 4,5-3]			
* Clitoral GI			
Note: Only one of pair available for evaluation.			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Minimal
[Cataract TGLS = 7-15]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 662	TRT#: 14	SEX: Female	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-662

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary [Cyst TGLS = 6-9.1]	Follicle	Cyst	Mild
* Pineal Gland		Mineralization	Mild
* Pituitary Gland [Adenoma TGLS = 8-3]	Pars Distalis	Adenoma	
* Spleen Note: TGL 3-NCL			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:25

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 663

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-663

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Blood Vessel | * Bone | * Brain |
| * Esophagus | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pineal Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|--|---------------|---|---------------------|
| * Adrenal Cortex | Bilateral | Adenoma
Angiectasis
Hyperplasia | Mild
Focal, Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Clitoral Gland | | Leukemia Mononuclear | |
| * Harderian Gland | | Infiltration Cellular | Lymphocyte, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | Bile Duct | Basophilic Focus
Hyperplasia
Leukemia Mononuclear | Mild
Minimal |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Lung | Interstitial | Inflammation | Chronic, Mild |
| * Lymph Node, Mandibular | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mesenteric | | Infiltration Cellular | Histiocyte, Mild |
| * Mammary Gland | | Cyst
Fibroadenoma | Minimal
Multiple |
| [Fibroadenoma TGLS = 1-12, 2-13, 3-14] | | | |
| * Nose | Olfactory Epi | Cytoplasmic Alteration | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 5-3] | | | |
| * Spleen | | Leukemia Mononuclear | |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 663

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-663

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesions 1 and 3 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 664

TRT#: 14

SEX: Female

DAY ON TEST: 619

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-664

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder
* Uterus			

MISSING

* Intestine Small, Ileum

INSUFFICIENT TISSUE

* Pineal Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Brain			
Note: TGL, 4-NCL			
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Mild
		Necrosis	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
[Vacuolization Cytoplasmic TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Atrophy	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
		Galactocele	Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Skin	Subcut Tiss	Schwannoma Malignant	
[Schwannoma Malignant TGLS = 1-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 664	TRT#: 14	SEX: Female	DAY ON TEST: 619
	DOSE: 0.02 GAUSS	DISP: Natural Death	HISTO: 94-5216-664

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Moderate
* Trachea	Glands	Cyst	Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Schwannoma Malignant

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 665

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland	Bilateral	Adenoma	
[Adenoma TGLS = 3-9]			
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Moderate
		Clear Cell Focus	Minimal
* Lung		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
	Epithelium	Hyperplasia	Mild
[Fibroadenoma TGLS = 1-12]			
[Hyperplasia TGLS = 2-5]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Marked
[Angiectasis TGLS = 4-3]			
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 666

TRT#: 14

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-666

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Thymus

OBSERVATIONS

* Adren Medulla			
Note: Only one available for evaluation.			
* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
* Bone	Femur	Hyperostosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Clitoral GI			
Note: Only one available for evaluation.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Rete Ovarii	Hyperplasia	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 666	TRT#: 14	SEX: Female	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-666

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 2-6]		Leukemia Mononuclear	
* Stomach, Glandular	Glands	Cyst	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 667

TRT#: 14

SEX: Female

DAY ON TEST: 739

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-667

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
	Bilateral	Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Galactocele	Mild
[Fibroadenoma TGLS = 1-12, 2-13, 3-14]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 5-15]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Follicle	Cyst	Marked
[Cyst TGLS = 4-9]			
* Pancreas	Acinus	Atrophy	Diffuse, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 667

TRT#: 14

SEX: Female

DAY ON TEST: 739

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-667

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 668

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-668

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Adrenal Medulla

OBSERVATIONS

* Brain			
Note: TGL 3-NCL			
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Pelvis	Inflammation	Chronic, Minimal
	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Mammary Gland		Adenoma	
		Carcinoma	
		Cyst	Minimal
		Fibroadenoma	Multiple

Note: See slide 9 for Adenoma.
[Carcinoma TGLS = 1-12]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 668	TRT#: 14	SEX: Female	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-668

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 669 **TRT#:** 14 **SEX:** Female **DAY ON TEST:** 737
DOSE: 0.02 GAUSS **DISP:** Terminal Sacrifice **HISTO:** 94-5216-669

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland		Hyperplasia	Focal, Mild
Note: Only one of pair available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibrosis	Moderate
		Galactocele	Mild
Note: Each of the lesions (L1, L2, L3) of the mammary gland are morphologically similar.			
[Fibrosis TGLS = 3-13]			
[Galactocele TGLS = 1,2-12,13; 3-12,13]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Rete Ovarii	Hyperplasia	Marked
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 669

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-669

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-3]

* Spleen

Pigmentation

Mild

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 670

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-670

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Bone	Femur	Hyperostosis	Moderate
	Turbinates	Hyperostosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain	Cerebrum	Mineralization	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Leukemia Mononuclear	
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 670

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-670

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Hydrometra

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 671

TRT#: 14

SEX: Female

DAY ON TEST: 682

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-671

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Harderian Gland		Atrophy	Focal, Mild
		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Congestion	Mild
		Infiltration Cellular	Mixed Cell, Minimal
[Congestion TGLS = 1-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pituitary Gland	Pars Intermed	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 671

TRT#: 14

SEX: Female

DAY ON TEST: 682

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-671

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Polyp Stromal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:25

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 672

TRT#: 14

SEX: Female

DAY ON TEST: 739

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-672

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Degeneration	Cystic, Minimal
		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Pigmentation	Minimal
* Uterus	Endometrium	Cyst	Moderate

[Cyst TGLS = 1-9]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 673

TRT#: 14

SEX: Female

DAY ON TEST: 508

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-673

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Mammary Gland	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Minimal
		Inflammation	Chronic, Minimal
* Lung	Interstitium	Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Mild
Tooth		Odontoma	Multiple
[Odontoma TGLS = 1-10]			
* Uterus		Hydrometra	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: Carcass, Thin, TGL 2-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 674 **TRT#:** 14 **SEX:** Female **DAY ON TEST:** 679
DOSE: 0.02 GAUSS **DISP:** Moribund Sacrifice **HISTO:** 94-5216-674

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Ovary	* Parathyroid Gland
Peripheral Nerve	* Salivary Glands	Skeletal Muscle	* Skin
* Trachea	* Urinary Bladder		

MISSING

* Stomach, Forestomach

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-7]			
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
Perph Nerve			
Note: Sciatic Nerve is Normal.			
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 674	TRT#: 14	SEX: Female	DAY ON TEST: 679
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-674

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
Spinal Cord		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1,2-6]			
* Stomach, Glandular		Erosion	Focal, Mild
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 675 **TRT#:** 14 **SEX:** Female **DAY ON TEST:** 738
DOSE: 0.02 GAUSS **DISP:** Terminal Sacrifice **HISTO:** 94-5316-675

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Uterus

OBSERVATIONS

* Adrenal Cortex		Adenoma	
	Bilateral	Angiectasis	Minimal
[Adenoma TGLS = 4-3]			
* Bone	Femur	Hyperostosis	Moderate
	Turbinates	Hyperostosis	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Periovarn Tiss	Cyst	Moderate
[Cyst TGLS = 3-9]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-12]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 675	TRT#: 14	SEX: Female	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5316-675

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder	Ultimobranchial Cyst	Minimal
	Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: Carcass, Thin, TGL 1-NST

Animal Note: Lesion 2 identified grossly as Mammary Gland is microscopically identified as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 676

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-676

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone Marrow		Hyperplasia	Minimal
* Clitoral GI			
Note: Only one available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Minimal
* Uterus	Endometrium	Sarcoma Stromal	

[Sarcoma Stromal TGLS = 1-12]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:25

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 677

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-677

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Pineal Gland

OBSERVATIONS

* Adren Medulla

Note: Only one Adrenal Medulla available for evaluation.

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Heart		Cardiomyopathy	Minimal
		Schwannoma Malignant	
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Moderate
		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-3]		
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 677	TRT#: 14	SEX: Female	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-677

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus		Hydrometra	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 678

TRT#: 14

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-678

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adren Medulla			
Note: Only of of pair available for evaluation.			
* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Mild
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin, TGL 2-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 679

TRT#: 14

SEX: Female

DAY ON TEST: 582

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-679

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney	* Lung
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	

MISSING

* Lymph Node, Mandibular	* Salivary Glands	* Urinary Bladder
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Bone Marrow		Depletion Cellular	Minimal
* Harderian Gland		Inflammation	Chronic, Mild
* Liver		Basophilic Focus	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 2-12]			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 680

TRT#: 14

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-680

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Adrenal Medulla

OBSERVATIONS

* Adren Cortex			
Note: Only one of pair available for evaluation.			
* Brain			
Note: TGL 7-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Focal, Marked
	Interstitium	Inflammation	Chronic, Minimal
[Hyperplasia TGLS = 4-7]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12, 2-13, 3-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Ovary	Periovarn Tiss	Cyst	Moderate
[Cyst TGLS = 5-9]			
* Pituitary Gland	Pars Distalis	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 680	TRT#: 14	SEX: Female	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-680

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 6-3]

* Spleen		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 681

TRT#: 14

SEX: Female

DAY ON TEST: 590

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-681

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Necrosis	Marked
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Marked
* Kidney	Pelvis	Dilatation	Mild
	Pelvis	Inflammation	Chronic, Minimal
		Inflammation	Chronic Active, Mild
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Minimal
* Lung	Interstitialium	Inflammation	Chronic, Mild
		Pigmentation	Marked
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Hemangiosarcoma	
[Hemangiosarcoma TGLS = 2-5]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Salivary Glands		Pigmentation	Moderate

Note: The Salivary Gland pigment is interstitial Hemorrhage.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 681	TRT#: 14	SEX: Female	DAY ON TEST: 590
	DOSE: 0.02 GAUSS	DISP: Natural Death	HISTO: 94-5216-681

ORGAN AND ACCOUNTABLE SITE STATUS

[Pigmentation TGLS = 5-2]			
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 1-6]			
* Thymus		Atrophy	Marked
		Cyst	Minimal
[Atrophy TGLS = 3-NCL]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Heart Cardiomyopathy

Animal Note: Cavities, Thoracic, Fluid, 17cc, Red, TGL 4-NST

Animal Note: Carcass, Thin, Found at Trim, TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 682

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-682

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Adrenal Medulla

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral GI			
Note: Scant tissue sample - Only one available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Carcinoma	
[Carcinoma TGLS = 4-15]			
* Kidney			
Note: TGL 5-NCL			
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Minimal
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13, 3-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 682	TRT#: 14	SEX: Female	DAY ON TEST: 737
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-682

ORGAN AND ACCOUNTABLE SITE STATUS

Note: See slide 5 for fibroma, origin presumed to be the perineal region.

* Spleen		Pigmentation	Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
[Adenoma TGLS = 6-2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 683

TRT#: 14

SEX: Female

DAY ON TEST: 692

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	Skeletal Muscle	* Skin	Spinal Cord
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adren Medulla			
Note: Only one available for evaluation.			
* Adrenal Cortex	Bilateral	Angiectasis	Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Bone	Vertebra	Osteosarcoma	
Note: Femur is Normal.			
[Osteosarcoma TGLS = 6-14,16]			
* Bone Marrow		Hyperplasia	Minimal
* Brain			
Note: TGL 7-NCL			
* Clitoral Gland		Inflammation	Chronic Active, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Mixed Cell Focus	Mild
		Vacuolization Cytoplasmic	Mild
[Vacuolization Cytoplasmic TGLS = 3-6]			
* Lung		Osteosarcoma	Metastatic (Bone)
[Osteosarcoma TGLS = 4-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 683	TRT#: 14	SEX: Female	DAY ON TEST: 692
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-683

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration Inflammation	Mild Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Mild
Perph Nerve			
Note: Sciatic Nerve is Normal.			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Spleen		Pigmentation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Urin Bladder			
Note: TGL 2-NCL			

PRIMARY CAUSE OF DEATH - Bone Vertebra Osteosarcoma

Animal Note: Lesion 6 identified grossly as Spinal Cord is microscopically identified as occu rring Bone - Vertebra.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 684

TRT#: 14

SEX: Female

DAY ON TEST: 739

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-684

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Mild
[Cataract TGLS = 9-15]			
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
[Leukemia Mononuclear TGLS = 6-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
[Cyst TGLS = 1-12, 2-5, 4-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Bilateral	Atrophy	Moderate
	Rete Ovarii	Hyperplasia	Mild
[Atrophy TGLS = 8-9]			
* Pancreas	Acinus	Atrophy	Diffuse, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 684	TRT#: 14	SEX: Female	DAY ON TEST: 739
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-684

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Moderate
	Pars Distalis	Cyst	Mild
	[Angiectasis TGLS = 10-3]		
* Salivary Glands	Sublingual GI	Metaplasia	Squamous, Minimal
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 3-13]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Inflammation	Chronic, Mild
* Uterus		Hydrometra	Moderate
	[Hydrometra TGLS = 7-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 685

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Adrenal Medulla

OBSERVATIONS

* Brain [Compression TGLS = 2-1]	Hypothalamus	Compression	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney [Nephropathy TGLS = 3-8]	Bilateral	Nephropathy	Mild
* Liver	Bile Duct	Basophilic Focus	Minimal
		Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Moderate
		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic, Minimal
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 1-3]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 685

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-685

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 686

TRT#: 14

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-686

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Ovary	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 4-1]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 686	TRT#: 14	SEX: Female	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-686

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 687

TRT#: 14

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Pineal Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Mild Focal, Moderate
* Bone Marrow		Hyperplasia	Minimal
* Clitoral Gland	Bilateral	Adenoma	
[Adenoma TGLS = 4-9]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
[Leukemia Mononuclear TGLS = 7-6]		Leukemia Mononuclear	
* Lung	Alveolar Epith Interstitialium	Hyperplasia Inflammation	Focal, Moderate Chronic, Minimal
[Inflammation TGLS = 5-7]			
* Lymph Node, Mandibular		Degeneration Hyperplasia	Cystic, Minimal Lymphoid, Mild
* Mammary Gland		Cyst Fibroadenoma	Minimal
[Cyst TGLS = 3-14] [Fibroadenoma TGLS = 1-12, 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration Inflammation	Mild Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 687	TRT#: 14	SEX: Female	DAY ON TEST: 738
	DOSE: 0.02 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-687

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Fungi present in nasal exudate.

* Ovary

Note: TGL 6-NCL

* Pancreas

Acinus

Hyperplasia

Focal, Minimal

* Spleen

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 688

TRT#: 14

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-688

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Adrenal Medulla

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Interstitialium	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
	Pars Distalis	Cyst	Minimal
[Angiectasis TGLS = 2-3]			
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 689

TRT#: 14

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	Lacrimal Gland	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland	Bilateral	Inflammation	Chronic Active, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
Lacrimal Gland			
Note: TGL 2-NCL			
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic, Minimal
* Ovary	Follicle	Cyst	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:25

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 689

TRT#: 14

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-689

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 690

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Mammary Gland	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Brain	Cerebrum	Mineralization	Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Liver		Basophilic Focus	Moderate
		Infiltration Cellular	Mixed Cell, Moderate
[Infiltration Cellular TGLS = 1-6]			
* Lung		Congestion	Minimal
		Infiltration Cellular	Histiocyte, Minimal
[Congestion TGLS = 2-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Pigmentation	Mild
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:25

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 691

TRT#: 14

SEX: Female

DAY ON TEST: 583

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-691

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 2-3]			
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Mild
* Lung		Pheochromocytoma Malignant	Metastatic (Adrenal Medulla)
[Pheochromocytoma Malignant TGLS = 1-7]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands	Sublingual GI	Infiltration Cellular	Lymphocyte, Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 692

TRT#: 14

SEX: Female

DAY ON TEST: 739

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-692

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Infarct	Mild
	Pelvis	Inflammation	Chronic Active, Mild
	Bilateral	Nephropathy	Minimal
[Infarct TGLS = 1-8]			
* Liver		Basophilic Focus	Moderate
		Clear Cell Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Rete Ovarii	Hyperplasia	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 692

TRT#: 14

SEX: Female

DAY ON TEST: 739

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-692

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 693

TRT#: 14

SEX: Female

DAY ON TEST: 722

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Mild
* Brain			
Note: TGL 4-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Carcinoma	
		Fibroadenoma	
[Carcinoma TGLS = 1-12]			
[Fibroadenoma TGLS = 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 693

TRT#: 14

SEX: Female

DAY ON TEST: 722

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-693

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
* Urinary Bladder		Inflammation	Chronic, Minimal
* Uterus	Endometrium	Cyst	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Lesions 1 and 2 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 694

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Harderian Gland		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
	Epithelium	Hyperplasia	Mild
[Fibroadenoma TGLS = 1-12; 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
	Nasolacrim Dct	Inflammation	Chronic, Mild
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Ovary		Granulosa-Theca Tumor Benign	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 3-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 694

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-694

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 695

TRT#: 14

SEX: Female

DAY ON TEST: 662

DOSE: 0.02 GAUSS

DISP: Natural Death

HISTO: 94-5216-695

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone	Femur	Hyperostosis	Marked
* Clitoral GI			
Note: Only one available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 696

TRT#: 14

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Ovary	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Moderate Focal, Minimal
* Clitoral Gland		Hyperplasia	Focal, Moderate
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Nephropathy	Minimal
		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Mixed Cell Focus	Minimal
[Mixed Cell Focus TGLS = 4-6]			
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12, 2-13, 3-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Spleen		Pigmentation	Moderate
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 696

TRT#: 14

SEX: Female

DAY ON TEST: 738

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-696

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Lesion 2 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 697

TRT#: 14

SEX: Female

DAY ON TEST: 669

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Clitoral Gland	* Pineal Gland
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic Hyperplasia	Minimal Diffuse, Mild
* Bone Marrow		Infiltration Cellular	Mild
* Harderian Gland		Degeneration	Lymphocyte, Minimal
* Kidney	Bilateral, Renal Tubule		Moderate
[Degeneration TGLS = 1-8]			
* Liver		Eosinophilic Focus Vacuolization Cytoplasmic	Minimal Marked
* Lung	Hepatocyte Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland			
Note: TGL, 3-NST			
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin		Hemangiopericytoma	
[Hemangiopericytoma TGLS = 2-12]			
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Skin Hemangiopericytoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 698

TRT#: 14

SEX: Female

DAY ON TEST: 632

DOSE: 0.02 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-698

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-1]			
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 698	TRT#: 14	SEX: Female	DAY ON TEST: 632
	DOSE: 0.02 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-698

ORGAN AND ACCOUNTABLE SITE STATUS

	Nasolacrim Dct	Inflammation	Chronic Active, Mild
* Ovary		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLS = 5-3]		
	[Leukemia Mononuclear TGLS = 6-3]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Stomach, Forestomach		Ulcer	Moderate
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Marked
* Uterus		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-9]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Found at Trim, TGL 9-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:25
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 699 **TRT#:** 14 **SEX:** Female **DAY ON TEST:** 738
DOSE: 0.02 GAUSS **DISP:** Terminal Sacrifice **HISTO:** 94-5216-699

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Vacuolization Cytoplasmic	Mild Focal, Mild Focal, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus Infiltration Cellular Mixed Cell Focus	Moderate Mixed Cell, Minimal Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Moderate
[Angiectasis TGLS = 2-3]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus	Endometrium	Cyst	Moderate
[Cyst TGLS = 1-9]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 700

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-700

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Vacuolization Cytoplasmic	Minimal Focal, Mild Focal, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Galactocele	Moderate
		[Fibroadenoma TGLS = 1-12, 2-13]	
		[Galactocele TGLS = 3-14]	
* Nose	Olfactory Epi	Cytoplasmic Alteration Inflammation	Mild Chronic, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Cervix	Polyp Stromal	
	Endometrium	Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 700

TRT#: 14

SEX: Female

DAY ON TEST: 737

DOSE: 0.02 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-700

ORGAN AND ACCOUNTABLE SITE STATUS

Endometrium

Sarcoma Stromal

[Polyp Stromal TGLS = 5-16]

[Sarcoma Stromal TGLS = 4-15]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 701	TRT#: 6	SEX: Female	DAY ON TEST: 738
	DOSE: 2 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-701

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Mild Focal, Mild
* Clitoral Gland [Adenoma TGLS = 1-12]		Adenoma	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Minimal
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland [Fibroadenoma TGLS = 2-13, 3-14]		Fibroadenoma	Multiple
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
* Spleen		Pigmentation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 701

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-701

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 702

TRT#: 6

SEX: Female

DAY ON TEST: 557

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-702

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Ovary	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Brain	Hypothalamus	Compression	Marked
* Clitoral Gland			
Note: Only one available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral	Pigmentation	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung			
Note: TGL 3-NCL			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Moderate
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-13, 2-12, 14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thymus		Atrophy	Minimal
* Uterus	Endometrium	Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 702

TRT#: 6

SEX: Female

DAY ON TEST: 557

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-702

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLS = 5-12]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Animal Note: Lesions 1 and 2 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 703

TRT#: 6

SEX: Female

DAY ON TEST: 673

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-703

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hemangiosarcoma	
[Hemangiosarcoma TGLS = 3-9]			
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung	Interstitial	Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 703

TRT#: 6

SEX: Female

DAY ON TEST: 673

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-703

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Cavities, Abdominal, Fluid, ~5ml, Dark Red, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 704

TRT#: 6

SEX: Female

DAY ON TEST: 617

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-704

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Degeneration	Mild Mild
* Bone Marrow		Depletion Cellular	Minimal
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 5-1]			
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus Infiltration Cellular Mixed Cell Focus	Minimal Mixed Cell, Mild Mild
[Mixed Cell Focus TGLS = 3-6, 7-14, 8-15]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst Fibroadenoma	Moderate
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Periovarn Tiss	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Spleen	Lymph Follic	Atrophy Pigmentation	Minimal Mild
[Atrophy TGLS = 2-6]			
* Stomach, Forestomach		Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 704	TRT#: 6 DOSE: 2 GAUSS	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 617 HISTO: 94-5216-704
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ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, TGL 6-NST

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 705

TRT#: 6

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Ovary	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Bone Marrow		Depletion Cellular	Mild
* Heart		Schwannoma Malignant	
[Schwannoma Malignant TGLS = 1-12]			
* Kidney	Capsule	Fibrosis	Focal, Mild
		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Marked
* Lung		Congestion	Minimal
		Infiltration Cellular	Histiocyte, Minimal
[Congestion TGLS = 2-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Moderate
[Cyst TGLS = 3-3]			
[Hyperplasia TGLS = 3-3]			
* Spleen		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 706

TRT#: 6

SEX: Female

DAY ON TEST: 687

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Ovary	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland	* Pineal Gland
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AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for examination.			
* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Brain			
Note: TGL 5-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
		Schwannoma Malignant	
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Mild
		Necrosis	Mild
[Mixed Cell Focus TGLS = 2-6]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Congestion	Mild
[Congestion TGLS = 3-7]			
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
[Degeneration TGLS = 1-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 706

TRT#: 6

SEX: Female

DAY ON TEST: 687

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-706

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Fibroadenoma	
		Galactocele	Mild
		Inflammation	Chronic, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Mild
		Hemorrhage	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 707

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
Eye		Atrophy	Marked
[Atrophy TGLS = 6-15]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 5-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
[Cyst TGLS = 1-5]			
[Fibroadenoma TGLS = 2-12, 3-13, 4-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Salivary Glands	Sublingual GI	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 707

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-707

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Pigmentation	Mild
* Thymus	Atrophy	Mild
* Thyroid Gland	Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 708

TRT#: 6

SEX: Female

DAY ON TEST: 429

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-708

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Thymus

INSUFFICIENT TISSUE

* Pineal Gland

OBSERVATIONS

* Bone Marrow		Depletion Cellular	Minimal
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Mineralization	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 709

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-709

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Mild
[Mixed Cell Focus TGLS = 4-6]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 3-14]			
* Lymph Node, Mesenteric		Degeneration	Cystic, Minimal
		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Ovary	Periovarn Tiss	Cyst	Minimal
* Pancreas	Artery	Inflammation	Chronic, Moderate
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[Adenoma TGLS = 5-3]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-12]			
* Thymus	Epithel Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 709	TRT#: 6 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-709
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ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	Follicle C Cell	Cyst Hyperplasia Ultimobranchial Cyst	Minimal Focal, Mild Minimal
* Uterus [Inflammation TGLS = 2-13]	Cervix	Inflammation	Chronic Active, Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 3 identified grossly as Mesentery is microscopically identified as occurring in Pancreatic Lymph Node.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 710

TRT#: 6

SEX: Female

DAY ON TEST: 725

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-710

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex	Bilateral	Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Kidney	Bilateral	Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 5-15]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 710	TRT#: 6 DOSE: 2 GAUSS	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 725 HISTO: 94-5216-710
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ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-12, 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Animal Note: Carcass, Thin, TGL 4-NST

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 711

TRT#: 6

SEX: Female

DAY ON TEST: 711

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Brain	Hypothalamus	Compression	Minimal
[Compression TGLS = 4-1]			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Carcinoma	
		Fibroadenoma	
		Galactocele	Moderate
[Carcinoma TGLS = 1-12]			
[Fibroadenoma TGLS = 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Pigmentation	Mild
[Pigmentation TGLS = 5-NCL]			
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 711

TRT#: 6

SEX: Female

DAY ON TEST: 711

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-711

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Focal, Minimal

* Uterus

Endometrium

Polyp Stromal

[Polyp Stromal TGLS = 6-14]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 712

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-712

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Bone	Cranium	Hyperostosis	Mild
	Femur	Hyperostosis	Moderate
	Turbinates	Hyperostosis	Mild
	[Hyperostosis TGLS = 7-12]		
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland			
Note: Only One Clitoral Gland Examined			
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
	Bilateral	Mineralization	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
	[Leukemia Mononuclear TGLS = 2,3-8]		
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 712	TRT#: 6	SEX: Female	DAY ON TEST: 738
	DOSE: 2 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-712

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Galactocele	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary		Mineralization	Minimal
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Focal, Marked
[Hyperplasia TGLS = 8-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
Tongue	Epithelium	Hyperplasia	Focal, Moderate
[Hyperplasia TGLS = 5,6-13]			
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 713

TRT#: 6

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-713

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Uterus

MISSING

* Pineal Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Mixed Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary		Granulosa Cell Tumor Benign	
	[Granulosa Cell Tumor Benign TGLS = 1-9]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-3]		
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 714

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-714

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Intestine Small, Duodenum	* Pineal Gland
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OBSERVATIONS

* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Epithelium	Hyperplasia	Minimal
[Hyperplasia TGLS = 1-5]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Respirat Epith	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic, Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Adenoma	
[Adenoma TGLS = 6-3]			
[Adenoma TGLS = 5-3]			
* Spleen		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 714

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-714

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 3-12]		Pigmentation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 2-13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 715

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-715

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-12]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral, Renal Tubule	Accumulation, Hyaline Droplet	Mild
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 715

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-715

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Pigmentation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 716

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Bone	Femur	Hyperostosis	Mild
* Bone Marrow		Hyperplasia	Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 2-12]	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
	Nasolacrim Dct	Inflammation	Chronic, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
		[Adenoma TGLS = 3-3]	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 716	TRT#: 6	SEX: Female	DAY ON TEST: 738
	DOSE: 2 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-716

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Cyst Hyperplasia	Mild Focal, Minimal
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PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 717

TRT#: 6

SEX: Female

DAY ON TEST: 619

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-717

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone Marrow		Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral, Renal Tubule	Degeneration	Moderate
* Liver		Basophilic Focus	Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Moderate
		Fibroadenoma	
[Fibroadenoma TGLS = 2-12,13]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus	Endometrium	Polyp Stromal	

Note: The entire tumor is necrotic.

[Polyp Stromal TGLS = 1-9]

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Animal Note: Carcass, Thin, Observed at Trim, TGL 3-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 718

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-718

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Ovary	* Parathyroid Gland	* Salivary Glands	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Bone	Femur	Hyperostosis	Minimal
	Maxilla	Hyperostosis	Mild
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Moderate
	Bilateral	Pigmentation	Moderate
* Liver	Hepatocyte	Hypertrophy	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Vacuolization Cytoplasmic TGLS = 2-6]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
	Interstitialium	Inflammation	Chronic, Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 4-13]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Respirat Epith	Cytoplasmic Alteration	Minimal
* Pancreas	Duct	Hyperplasia	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
Note: TGL 3-NCL			
* Skin	Subcut Tiss	Lipoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 718	TRT#: 6	SEX: Female	DAY ON TEST: 728
	DOSE: 2 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-718

ORGAN AND ACCOUNTABLE SITE STATUS

[Lipoma TGLS = 1-12]

* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Edema	Minimal
* Stomach, Glandular		Edema	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Moderate
* Uterus	Endometrium	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Lipoma

Animal Note: Carcass, Thin, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 719

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone	Cranium	Hyperostosis	Mild
	Femur	Hyperostosis	Marked
	Turbinates	Hyperostosis	Mild
[Hyperostosis TGLS = 6-13]			
* Bone Marrow		Depletion Cellular	Marked
* Clitoral Gland		Cyst	Moderate
		Inflammation	Chronic, Minimal
[Cyst TGLS = 1-9]			
* Harderian Gland		Inflammation	Chronic, Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Mild
[Mixed Cell Focus TGLS = 7-15]			
* Lung	Interstitial	Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Cyst TGLS = 2-4]			
[Fibroadenoma TGLS = 3-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 719	TRT#: 6 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-719
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Cytoplasmic Alteration Inflammation	Moderate Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst	Mild
[Adenoma TGLS = 4-3] [Cyst TGLS = 5-3]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 720

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-720

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
	Bilateral	Hematopoietic Cell Proliferation	Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Bone	Femur	Hyperostosis	Moderate
* Brain			
Note: TGL 4-NCL			
* Clitoral Gland		Cyst	Minimal
		Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 2-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 720

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-720

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-3]

* Spleen

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Focal, Minimal

* Trachea

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 721

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Urinary Bladder		

OBSERVATIONS

* Brain	Hypothalamus	Compression	Minimal
[Compression TGLS = 3-1]			
* Clitoral Gland			
Note: Only one of pair available for evaluation.			
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Hepatocyte	Vacuolization Cytoplasmic	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic, Minimal
* Ovary	Periovarn Tiss	Cyst	Marked
[Cyst TGLS = 2-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Trachea		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 721

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-721

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Inflammation

Chronic, Minimal

Endometrium

Pigmentation

Minimal

Note: TGL 1-NCL

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 722

TRT#: 6

SEX: Female

DAY ON TEST: 694

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-722

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Ovary	* Parathyroid Gland	* Stomach, Forestomach	* Urinary Bladder

MISSING

* Clitoral Gland	* Lymph Node, Mesenteric	* Pineal Gland
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Moderate
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 2-8]			
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung	Interstitialium	Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Mammary Gland		Galactocele	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas		Leukemia Mononuclear	
		Metaplasia	Hepatocyte, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Salivary Glands	Parotid GI	Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 722	TRT#: 6 DOSE: 2 GAUSS	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 694 HISTO: 94-5216-722
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
* Stomach, Glandular	Glands	Cyst	Mild
		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Trachea		Inflammation	Chronic Active, Minimal
* Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Found at Trim, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 723

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Minimal
* Bone	Femur Turbinates	Hyperostosis Hyperostosis	Moderate Moderate
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney	Bilateral Bilateral	Mineralization Nephropathy	Minimal Minimal
* Liver		Basophilic Focus Eosinophilic Focus Infiltration Cellular	Mild Minimal Mixed Cell, Minimal
		[Basophilic Focus TGLS = 4-6]	
		[Eosinophilic Focus TGLS = 5-16]	
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst Fibroadenoma	Mild Multiple
		[Fibroadenoma TGLS = 1-12, 2-13, 3-14]	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 723

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-723

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Spleen		Depletion Cellular	Focal, Mild
		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 724

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-724

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Mild Focal, Mild
* Brain			
Note: TGL 3-NCL			
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13]			
* Nose	Olfactory Epi Respirat Epith Nasolacrim Dct	Cytoplasmic Alteration Cytoplasmic Alteration Inflammation	Mild Minimal Chronic Active, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 724	TRT#: 6	SEX: Female	DAY ON TEST: 738
	DOSE: 2 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-724

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-3]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Thymus		Cyst	Mild
	Epithel Cell	Hyperplasia	Marked
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 725	TRT#: 6	SEX: Female	DAY ON TEST: 737
	DOSE: 2 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-725

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Adenoma	
	Bilateral	Angiectasis	Mild
* Blood Vessel		Inflammation	Chronic, Mild
* Clitoral Gland		Adenoma	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
	[Basophilic Focus TGLS = 2-6]		
	[Hepatodiaphragmatic Nodule TGLS = 1-12]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 725

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-725

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Ultimobranchial Cyst

Minimal

* Trachea

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 726

TRT#: 6

SEX: Female

DAY ON TEST: 678

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Pineal Gland

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Focal, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 1-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
[Fibroadenoma TGLS = 4-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Ovary			
Note: TGL 3-NCL			
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 2,5-3]			
* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 726

TRT#: 6

SEX: Female

DAY ON TEST: 678

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-726

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 727

TRT#: 6

SEX: Female

DAY ON TEST: 648

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 1-3]			
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 4-1]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-2]			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-12]			
* Spleen		Pigmentation	Mild
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Lesion 3 identified grossly as Pancreas is microscopically identified as occurring in Mesentery.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 727

TRT#: 6

SEX: Female

DAY ON TEST: 648

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-727

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 728

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
	Bilateral	Vacuolization Cytoplasmic	Diffuse, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Mixed Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Mild
		Metaplasia	Hepatocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 729

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Uterus		

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Mild
[Leukemia Mononuclear TGLS = 7-3]			
* Bone	Femur	Hyperostosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Moderate
		Eosinophilic Focus	Minimal
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Leukemia Mononuclear	
		Cyst	Mild
		Fibroadenoma	Multiple
[Cyst TGLS = 2-5]			
[Fibroadenoma TGLS = 3-12, 4-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gl			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 729

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-729

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Best section of tissue available, TGL 8-NCL

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 5,6-6]

* Thymus

Atrophy

Minimal

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 730

TRT#: 6

SEX: Female

DAY ON TEST: 488

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-730

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Galactoceles	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Cyst	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 731

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-731

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for examination.			
* Adrenal Cortex		Hyperplasia Hypertrophy Vacuolization Cytoplasmic	Focal, Minimal Focal, Mild Focal, Mild
* Brain			
Note: TGL 5-NCL			
* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	Moderate
[Mixed Cell Focus TGLS = 4-6; 7-15]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Carcinoma	
		Cyst	Mild
		Fibroadenoma	Multiple
[Carcinoma TGLS = 3-14]			
[Fibroadenoma TGLS = 1-12, 2-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 731	TRT#: 6 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-731
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Adenoma	
* Skin	Nipple	Hyperkeratosis	Moderate
* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin, TGL 8-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 732

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-732

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone Marrow	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Parathyroid Gland	* Pineal Gland
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Bone	Femur	Hyperostosis	Minimal
* Brain	Hypothalamus	Compression	Minimal
	[Compression TGLS = 4-1]		
* Clitoral Gland		Adenoma Cyst	Moderate
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule Bilateral	Hyperplasia Nephropathy	Focal, Minimal Mild
* Liver		Basophilic Focus Clear Cell Focus Eosinophilic Focus	Mild Minimal Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-12]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Basophilic Focus	Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 732

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-732

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 3-3]

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus			

Note: TGL 2-NCL

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 733

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-733

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Adrenal Medulla

OBSERVATIONS

* Brain [Compression TGLS = 1-1]	Pons	Compression	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Cyst	Minimal
	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Ovary	Bilateral, Rete Ovarii	Hyperplasia	Moderate
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Carcinoma TGLS = 2-3]	Pars Distalis	Carcinoma	
* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 733

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-733

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 734

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-734

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Infiltration Cellular	Mixed Cell, Minimal
	Bilateral	Pigmentation	Minimal
* Bone	Femur	Hyperostosis	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
	Artery	Inflammation	Chronic, Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	Minimal
	[Basophilic Focus TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1-12]	Galactocele	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
	Nasolacrim Dct	Inflammation	Chronic Active, Mild
* Ovary	Bilateral, Rete Ovarii	Hyperplasia	Moderate
		Tubulostromal Adenoma	
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 734

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-734

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-3]

* Spleen		Pigmentation	Minimal
* Thymus	Epithel Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Minimal
* Uterus	Endometrium	Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
 Test Type: CHRONIC
 Route: MAGNETIC FIELDS
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Magnetic fields (EMF)
 CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
 Time Report Requested: 14:06:26
 First Dose M/F: NA / NA
 Lab: IIT

ANIMAL ID: 735

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-735

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Uterus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Brain			
Note: TGL 3-NCL			
* Clitoral Gland		Hyperplasia	Focal, Moderate
* Harderian Gland		Atrophy	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Basophilic Focus	Mild
		Hyperplasia	Minimal
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Galactocele	Minimal
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary		Inflammation	Chronic, Mild
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 735	TRT#: 6 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-735
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ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 736

TRT#: 6

SEX: Female

DAY ON TEST: 685

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-736

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Ovary	* Parathyroid Gland	* Pineal Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Minimal
		Tension Lipidosis	Focal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
		[Mixed Cell Focus TGLS = 1-6]	
		[Tension Lipidosis TGLS = 1-6]	
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands	Duct, Parotid GI	Hyperplasia	Mild
	Parotid GI	Inflammation	Acute, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 736

TRT#: 6

SEX: Female

DAY ON TEST: 685

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-736

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 2-2]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 737

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-737

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
[Basophilic Focus TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 738

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-738

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Note: TGL 2-NCL			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Inflammation	Chronic, Minimal
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Skin	Subcut Tiss	Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Cyst	Moderate
* Uterus	Endometrium	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 738

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-738

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 739

TRT#: 6

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-739

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Angiectasis	Focal, Mild
		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic, Minimal
		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 739	TRT#: 6 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 94-5216-739
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 2-3]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Adenoma Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 740

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-740

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
	Bilateral	Pigmentation	Minimal
* Brain			
Note: TGL 6-NCL			
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-9]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Marked
		Mixed Cell Focus	Marked
		Necrosis	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2-12, 3-13]			
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLS = 4-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 740

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-740

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-3]

* Spleen

Pigmentation

Mild

* Stomach, Glandular

Glands

Cyst

Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 2 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 741

TRT#: 6

SEX: Female

DAY ON TEST: 639

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

* Thymus	* Urinary Bladder
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AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Hematopoietic Cell Proliferation	Minimal
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Cyst	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Pelvis, Transit Epithe	Hyperplasia	Mild
		Infarct	Mild
* Liver		Eosinophilic Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
	[Eosinophilic Focus TGLS = 4-6]		
* Lung			
	Note: TGL 3-NCL		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Spleen	Lymph Follic	Atrophy	Mild
* Uterus		Hydrometra	Minimal
	Endometrium	Polyp Stromal	

Note: The neoplasm was partially autolyzed and possibly infarcted as well.

[Polyp Stromal TGLS = 2-12]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 741

TRT#: 6

SEX: Female

DAY ON TEST: 639

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-741

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Uterus Endometrium Polyp Stromal

Animal Note: Cavities, Peritoneal, Fluid, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 742

TRT#: 6

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Adenoma	
	Bilateral	Angiectasis	Mild
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
		Mixed Cell Focus	Marked
Note: TGL 4-NCL			
* Lung	Interstitial	Inflammation	Chronic, Minimal
Note: TGL 5-NCL			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12, 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 742	TRT#: 6 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 94-5216-742
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-3]			
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Cyst	Mild
	Endometrium	Inflammation	Acute, Mild
[Cyst TGLS = 3-14]			

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

Animal Note: Lesion 2 identified grossly as Inguinal Lymph Node is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 743

TRT#: 6

SEX: Female

DAY ON TEST: 652

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
	Bilateral	Hematopoietic Cell Proliferation	Mild
* Bone Marrow		Hyperplasia	Mild
* Clitoral GI			
Note: TGL 7-NCL			
* Eye		Atrophy	Marked
[Atrophy TGLS = 6-13]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Mineralization	Minimal
[Mineralization TGLS = 3-NCL]			
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Necrosis	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
[Basophilic Focus TGLS = 4-6]			
[Vacuolization Cytoplasmic TGLS = 5-6]			
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Periovarn Tiss	Cyst	Moderate
[Cyst TGLS = 2-9]			
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 743	TRT#: 6 DOSE: 2 GAUSS	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 652 HISTO: 94-5216-743
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ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibroma TGLS = 1-12]	Subcut Tiss	Fibroma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
		Ultimobranchial Cyst	Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

Animal Note: Carcass, Thin, TGL 8-NST

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 744

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for examination.			
* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Bone	Femur	Hyperostosis	Moderate
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Moderate
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
			[Cyst TGLS = 1-5]
			[Fibroadenoma TGLS = 1-5]
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
			[Adenoma TGLS = 3-3]
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
* Uterus		Hydrometra	Mild
			[Hydrometra TGLS = 2-9]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 744

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-744

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 745

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-745

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Marked
[Mixed Cell Focus TGLS = 3-13]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 746

TRT#: 6

SEX: Female

DAY ON TEST: 710

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Pituitary Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Moderate
		Mixed Cell Focus	Minimal
		[Basophilic Focus TGLS = 4-6]	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
* Ovary			
		Note: Only one available for evaluation.	
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Skin		Trichoepithelioma	
		[Trichoepithelioma TGLS = 1-12]	
* Spleen		Pigmentation	Minimal
		Note: TGL 5-NCL	
* Thymus		Atrophy	Minimal
* Uterus	Endometrium	Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 746

TRT#: 6

SEX: Female

DAY ON TEST: 710

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-746

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLS = 2,3-13]

PRIMARY CAUSE OF DEATH

- Uterus Endometrium Polyp Stromal

Animal Note: Lesion 3 identified grossly as Ovaries is microscopically identified as occurring in Uterus.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 747

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Harderian Gland		Atrophy	Focal, Mild
	Bilateral	Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Mixed Cell Focus	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Endometrium	Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 748

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Ovary	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Urinary Bladder	* Uterus	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Carcinoma	
[Carcinoma TGLS = 6-3]			
* Bone Marrow		Hyperplasia	Mild
* Brain	Hypothalamus	Compression	Minimal
[Compression TGLS = 8-1]			
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Mild
		Mixed Cell Focus	Marked
[Basophilic Focus TGLS = 5-6]			
[Mixed Cell Focus TGLS = 10-17RT]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Mammary Gland		Cyst	Moderate
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 3-14, 4-15]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 748	TRT#: 6 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-748
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
* Skin	Lip	Squamous Cell Papilloma	
Note: TGL 2-NCL			
Note: Vulva is Normal.			
[Squamous Cell Papilloma TGLS = 1-12]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 9-2]			
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 749

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12, 2-13, 3-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Trachea		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 749

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-749

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 3 identified grossly as Axillary Lymph Node is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 750

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Pineal Gland

OBSERVATIONS

* Adren Medulla

Note: Only one of pair available for evaluation.

* Adrenal Cortex Bilateral Angiectasis Mild

* Brain

Note: TGL 5-NCL

* Harderian Gland Bilateral Infiltration Cellular Lymphocyte, Minimal

* Kidney Bilateral Nephropathy Minimal

* Liver Basophilic Focus Mild

Eosinophilic Focus Mild

[Basophilic Focus TGLS = 3-6]

* Lung Infiltration Cellular Histiocyte, Minimal

* Lymph Node, Mesenteric Infiltration Cellular Histiocyte, Mild

* Mammary Gland Cyst Minimal

Fibroadenoma

[Fibroadenoma TGLS = 1-12]

* Nose Olfactory Epi Cytoplasmic Alteration Mild

* Ovary Bilateral, Follicle Cyst Marked

[Cyst TGLS = 2-13]

* Pancreas Acinus Basophilic Focus Minimal

* Pituitary Gland Pars Distalis Adenoma

Pars Distalis Cyst Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 750

TRT#: 6

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-750

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-3]

* Salivary Glands	Parotid GI	Atrophy	Minimal
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 751

TRT#: 16

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-751

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	Lacrimal Gland	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Clitoral Gland		Cyst	Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
Lacrimal GI			
Note: TGL 5-NCL			
* Liver		Angiectasis	Focal, Minimal
		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Moderate
[Cyst TGLS = 1-12, 2-5]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Inflammation	Chronic, Mild
* Ovary			
Note: TGL 3-NCL			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 751	TRT#: 16	SEX: Female	DAY ON TEST: 738
	DOSE: 2 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-751

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 752

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Minimal
* Clitoral Gland	Bilateral	Inflammation	Chronic, Mild
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Kidney	Bilateral	Mineralization	Minimal
* Liver	Bilateral	Nephropathy Basophilic Focus Eosinophilic Focus Mixed Cell Focus	Minimal Mild Minimal
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst Fibroadenoma	Minimal
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus Acinus	Atrophy Hyperplasia	Focal, Minimal Focal, Moderate
Note: See Slide 5 for Hyperplasia			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 752	TRT#: 16 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 94-5216-752
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ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 2-12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 753

TRT#: 16

SEX: Female

DAY ON TEST: 358

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Esophagus | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Lymph Node, Mandibular |
| * Mammary Gland | * Ovary | * Pancreas | * Pineal Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Parathyroid Gland

AUTO PRECLUDES DIAG.

- * Intestine Small, Ileum

OBSERVATIONS

- | | | | |
|------------------------------|---------------|------------------------|---------------------|
| * Clitoral Gland | | Inflammation | Chronic, Minimal |
| * Harderian Gland | | Infiltration Cellular | Lymphocyte, Minimal |
| Larynx | | Inflammation | Chronic, Mild |
| [Inflammation TGLS = 1-12] | | | |
| * Liver | | Inflammation | Chronic, Minimal |
| * Lung | | Infiltration Cellular | Lymphocyte, Minimal |
| * Lymph Node, Mesenteric | | Infiltration Cellular | Histiocyte, Mild |
| * Nose | Olfactory Epi | Cytoplasmic Alteration | Minimal |
| * Thymus | | Hemorrhage | Minimal |
| * Uterus | | Hydrometra | Minimal |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 754 **TRT#:** 16 **SEX:** Female **DAY ON TEST:** 739
DOSE: 2 GAUSS **DISP:** Terminal Sacrifice **HISTO:** 94-5216-754

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone Marrow		Depletion Cellular	Minimal
* Brain	Cerebellum, Meninges	Granular Cell Tumor Malignant	
	[Granular Cell Tumor Malignant TGLS = 6-1]		
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral, Renal Tubule	Accumulation, Hyaline Droplet	Mild
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Fibrosis	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Marked
	[Mixed Cell Focus TGLS = 4-6]		
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Carcinoma	
		Cyst	Mild
		Fibroadenoma	
	[Carcinoma TGLS = 1-12]		
	[Fibroadenoma TGLS = 2-13]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Follicle	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 754	TRT#: 16 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 94-5216-754
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Trachea		Inflammation	Chronic, Minimal
* Uterus [Hydrometra TGLS = 3-9]		Hydrometra	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 755

TRT#: 16

SEX: Female

DAY ON TEST: 647

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-755

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Ovary
Peripheral Nerve	* Pineal Gland	* Salivary Glands	Skeletal Muscle
Spinal Cord	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 6-12]			
* Bone	Femur	Hyperostosis	Moderate
	Turbinates	Hyperostosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain			
Note: TGL 4-NCL			
* Clitoral Gland	Bilateral	Adenoma	
[Adenoma TGLS = 1-9]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Leukemia Mononuclear	
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Galactocele	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 755	TRT#: 16	SEX: Female	DAY ON TEST: 647
	DOSE: 2 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-755

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Nasolacrim Dct	Cytoplasmic Alteration Inflammation	Mild Chronic, Mild
Perph Nerve Note: Sciatic Nerve is Normal			
* Pituitary Gland [Adenoma TGLS = 3-3]	Pars Distalis	Adenoma	
* Skin [Cyst Epithelial Inclusion TGLS = 7-13]		Cyst Epithelial Inclusion	Moderate
* Spleen [Leukemia Mononuclear TGLS = 2-6]		Leukemia Mononuclear	
* Stomach, Glandular * Thymus	Muscularis	Mineralization Atrophy	Moderate Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 8-NST

Animal Note: Lesion 6 identified grossly as Tissue NOS is microscopically identified as occur ring in Adrenal Medulla.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 756

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-756

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Vacuolization Cytoplasmic Adenoma	Mild Focal, Minimal Focal, Mild
* Clitoral Gland [Adenoma TGLS = 1-12]			
* Harderian Gland	Bilateral	Infiltration Cellular Cardiomyopathy Carcinoma	Lymphocyte, Minimal Minimal
* Heart			
* Islets, Pancreatic			
* Kidney	Bilateral	Nephropathy Basophilic Focus	Minimal Mild
* Liver	Bile Duct	Hyperplasia Infiltration Cellular Hemorrhage	Minimal Mixed Cell, Minimal Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Fibroadenoma	
* Mammary Gland			
* Nose	Olfactory Epi	Cytoplasmic Alteration Inflammation	Mild Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy Mineralization	Focal, Minimal Minimal
* Pineal Gland			
* Pituitary Gland	Pars Distalis	Adenoma Pigmentation	Mild
* Spleen			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 756

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-756

ORGAN AND ACCOUNTABLE SITE STATUS

	C Cell	Hyperplasia	Focal, Minimal
* Trachea		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 757

TRT#: 16

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-757

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thymus
* Trachea			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus Infiltration Cellular Mixed Cell Focus Necrosis	Mild Mixed Cell, Minimal Mild Mild
* Lung	Interstitialium	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Mild Focal, Mild
[Cyst TGLS = 1-3]			
* Spleen		Pigmentation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 757	TRT#: 16	SEX: Female	DAY ON TEST: 737
	DOSE: 2 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-757

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder		Inflammation	Chronic, Minimal
* Uterus	Endometrium	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 758

TRT#: 16

SEX: Female

DAY ON TEST: 610

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-758

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-3]			
* Adrenal Medulla		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-3]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Focal, Mild
* Harderian Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Nasolacrim Dct	Inflammation	Acute, Mild
* Ovary		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 758

TRT#: 16

SEX: Female

DAY ON TEST: 610

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-758

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-6]

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 759

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-759

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Adrenal Medulla

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Minimal
* Brain [Compression TGLS = 6-1]	Pons	Compression	Mild
* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver [Clear Cell Focus TGLS = 3-NCL]		Basophilic Focus Clear Cell Focus Infiltration Cellular Mixed Cell Focus	Moderate Minimal Lymphocyte, Minimal Minimal
* Lung [Hemorrhage TGLS = 4-7]	Alveolar Epith	Hemorrhage Hyperplasia	Mild Focal, Moderate
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland [Fibroadenoma TGLS = 1-12, 2-13]		Fibroadenoma Galactocele	Multiple Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 759	TRT#: 16 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 94-5216-759
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma	
* Skin Note: The hyperkeratosis involved the teat.		Hyperkeratosis	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
		Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 760

TRT#: 16

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone Marrow	* Brain	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Adrenal Medulla

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Bone	Femur	Hyperostosis	Moderate
* Clitoral Gland		Adenoma	
		Cyst	Marked
		[Adenoma TGLS = 1-13]	
* Kidney	Bilateral	Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Marked
		[Basophilic Focus TGLS = 3-6]	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
		[Fibroadenoma TGLS = 2-12]	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
		Note: Fungi present in nasal exudate.	
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 760	TRT#: 16 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-760
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 761

TRT#: 16

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-761

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Mild
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Minimal
* Lung	Interstitium	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Moderate
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Periovarn Tiss	Cyst	Minimal
	Bilateral	Inflammation	Chronic, Mild
[Cyst TGLS = 3-9]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 761	TRT#: 16 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-761
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-3]	Pars Distalis	Angiectasis	Focal, Mild
* Skin [Basal Cell Adenoma TGLS = 1-12]	Lip	Basal Cell Adenoma	
* Spleen		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 762

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-762

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Vacuolization Cytoplasmic	Minimal Focal, Mild Focal, Mild
* Bone	Femur Turbinate	Hyperostosis Hyperostosis	Moderate Moderate
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Basophilic Focus Hyperplasia Leukemia Mononuclear	Mild Minimal
[Leukemia Mononuclear TGLS = 3-6]			
* Lymph Node, Mesenteric		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
* Mammary Gland		Cyst Fibroadenoma	Mild Multiple
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 762	TRT#: 16	SEX: Female	DAY ON TEST: 739
	DOSE: 2 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-762

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-6]

* Thymus		Atrophy	Moderate
		Cyst	Mild
* Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 763 **TRT#:** 16 **SEX:** Female **DAY ON TEST:** 737
DOSE: 2 GAUSS **DISP:** Terminal Sacrifice **HISTO:** 94-5216-763

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Ovary	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Brain	Hypothalamus	Compression	Minimal
[Compression TGLS = 2-1]			
* Clitoral Gland	Bilateral	Inflammation	Chronic, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Eosinophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	Mild
		Necrosis	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Skin		Inflammation	Chronic Active, Minimal
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 763	TRT#: 16	SEX: Female	DAY ON TEST: 737
	DOSE: 2 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-763

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 764

TRT#: 16

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-764

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
	Bilateral	Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Leukemia Mononuclear	
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Moderate
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		[Basophilic Focus TGLS = 5-6]	
* Lung		Leukemia Mononuclear	
Lymph Node	Lumbar	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-15]	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
		Leukemia Mononuclear	Metastatic (Mammary Gland)
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 764	TRT#: 16	SEX: Female	DAY ON TEST: 738
	DOSE: 2 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-764

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy Leukemia Mononuclear	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 6-3]			
* Skin	Subcut Tiss	Fibroma Inflammation	Chronic, Mild
[Fibroma TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy Leukemia Mononuclear	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
* Urinary Bladder		Leukemia Mononuclear	
* Uterus	Endometrium	Pigmentation Polyp Stromal	Minimal
[Polyp Stromal TGLS = 2-13]			
Vagina		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-14]			

PRIMARY CAUSE OF DEATH -

Animal Note: Carcass, Thin, Observed at Trim, TGL 7-NST

Animal Note: Lesion 1 identified grossly as Mammary Gland is microscopically identified as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 765

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Inflammation	Chronic, Mild
* Brain	Hypothalamus	Compression	Minimal
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
[Cataract TGLS = 1-12]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Mild
[Mixed Cell Focus TGLS = 3-13]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Bilateral, Rete Ovarii	Hyperplasia	Minimal
	Bilateral	Inflammation	Chronic, Mild
	Bilateral	Pigmentation	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 765	TRT#: 16	SEX: Female	DAY ON TEST: 739
	DOSE: 2 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-765

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-3]

* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 766

TRT#: 16

SEX: Female

DAY ON TEST: 696

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	Skeletal Muscle	* Skin	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain	Hypothalamus	Compression	Minimal
[Compression TGLS = 4-1]			
* Clitoral GI			
Note: Only one available for evaluation.			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
	Cornea	Inflammation	Acute, Minimal
[Cataract TGLS = 2-13]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 766	TRT#: 16 DOSE: 2 GAUSS	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 696 HISTO: 94-5216-766
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ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary [Cyst TGLS = 5-9] Perph Nerve Note: Sciatic Nerve is Normal.	Periovarn Tiss Rete Ovarii	Cyst Hyperplasia	Mild Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 3-3]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 767

TRT#: 16

SEX: Female

DAY ON TEST: 686

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-767

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Adrenal Medulla

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Marked
		Infiltration Cellular	Lymphocyte, Minimal
		Mixed Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pineal Gland		Mineralization	Minimal
* Spleen		Pigmentation	Minimal

[Pigmentation TGLS = 1-NCL]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 768

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Uterus

OBSERVATIONS

* Adren Medulla			
Note: Only one adrenal medulla examined.			
* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Mild Focal, Mild
* Brain			
Note: TGL, 2-NCL			
* Clitoral GI			
Note: Only one clitoral gland examined.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 768

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-768

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 769

TRT#: 16

SEX: Female

DAY ON TEST: 603

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-769

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 2-1]			
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Infiltration Cellular	Mixed Cell, Mild
* Lung	Alveolar Epith	Hyperplasia	Focal, Marked
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Pigmentation	Moderate
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass Thin, Observed at Trim, TGL 3-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 770

TRT#: 16

SEX: Female

DAY ON TEST: 731

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-770

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Mild
* Brain [Compression TGLS = 5-1]	Hypothalamus	Compression	Minimal
* Clitoral GI Note: Only one available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
[Mixed Cell Focus TGLS = 3-6]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12; 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 770	TRT#: 16	SEX: Female	DAY ON TEST: 731
	DOSE: 2 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-770

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-3]

* Spleen		Pigmentation	Minimal
* Stomach, Glandular	Glands	Congestion	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 771

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Mild
* Brain	Hypothalamus	Compression	Minimal
[Compression TGLS = 4-1]			
* Clitoral Gland		Inflammation	Chronic, Minimal
Note: Only one clitoral gland examined.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Galactocele	Mild
[Fibroadenoma TGLS = 1-12, 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 771	TRT#: 16 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 94-5216-771
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ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular	Glands	Cyst	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 772

TRT#: 16

SEX: Female

DAY ON TEST: 501

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	Peripheral Nerve	* Pineal Gland	* Salivary Glands
Skeletal Muscle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
* Kidney		Mineralization	Minimal
* Liver		Inflammation	Chronic Active, Mild
* Lymph Node, Mandibular [Hyperplasia TGLS = 3-2]		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
Perph Nerve Note: Sciatic Nerve is Normal			
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Marked
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Mild
Tooth		Inflammation	Chronic, Mild
		Malformation	

Note: TGL 1,2-NST
Note: Root of tooth included in section of nose.

PRIMARY CAUSE OF DEATH - Tooth Malformation

Animal Note: Carcass, Thin, Observed at Trim, TGL 4-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 773

TRT#: 16

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
	Bilateral	Hematopoietic Cell Proliferation	Minimal
* Brain			
Note: TGL 2-NCL			
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Parathyroid Gland		Adenoma	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 773

TRT#: 16

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-773

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-3]

* Spleen		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland		Ultimobranchial Cyst	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 774

TRT#: 16
DOSE: 2 GAUSS

SEX: Female
DISP: Natural Death

DAY ON TEST: 681
HISTO: PIN5216-774

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Mineralization	Mild
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Intestine Small, Duodenum		Ectopic Tissue	Mild
* Liver	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Infiltration Cellular	Mixed Cell, Moderate
		Vacuolization Cytoplasmic	Marked
[Vacuolization Cytoplasmic TGLS = 1-6]			
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Galactocele	Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Bilateral	Atrophy	Moderate
	Bilateral	Pigmentation	Mild
* Pineal Gland		Mineralization	Mild
* Salivary Glands	Parotid GI	Atrophy	Mild
* Stomach, Glandular	Glands	Cyst	Mild
		Erosion	Focal, Mild
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 775

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-775

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adren Medulla

Note: Only one adrenal medulla examined.

* Adrenal Cortex

Bilateral

Angiectasis

Mild

* Bone

Cranium

Hyperostosis

Mild

Note: Femur is Normal.

[Hyperostosis TGLS = 6-14]

* Harderian Gland

Bilateral

Infiltration Cellular

Lymphocyte, Minimal

* Heart

Cardiomyopathy

Mild

* Kidney

Bilateral

Nephropathy

Minimal

* Liver

Basophilic Focus

Mild

Clear Cell Focus

Minimal

Infiltration Cellular

Mixed Cell, Mild

[Basophilic Focus TGLS = 5-6]

* Lung

Infiltration Cellular

Histiocyte, Minimal

* Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 1-12, 2-13]

* Nose

Olfactory Epi

Cytoplasmic Alteration

Mild

* Ovary

Rete Ovarii

Hyperplasia

Minimal

Note: TGL 4-NCL

* Pineal Gland

Mineralization

Minimal

* Thymus

Atrophy

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 775

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-775

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

* Uterus

Hydrometra

Mild

[Hydrometra TGLS = 3-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 776

TRT#: 16

SEX: Female

DAY ON TEST: 637

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-776

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Leukemia Mononuclear	Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 4-14]			
* Mammary Gland		Adenoma	
		Cyst	Mild
[Adenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Ovary		Tubulostromal Adenoma	
[Tubulostromal Adenoma TGLS = 2-13]			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 776

TRT#: 16

SEX: Female

DAY ON TEST: 637

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-776

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Leukemia Mononuclear

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Ovary Tubulostromal Adenoma

Animal Note: Cavities, Thoracic, Fluid, 5ml, Red, TGL 3-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 777

TRT#: 16

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Moderate
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	Mild
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 777	TRT#: 16	SEX: Female	DAY ON TEST: 737
	DOSE: 2 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-777

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-3.1]

* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Mild
* Uterus	Endometrium	Polyp Stromal	

[Polyp Stromal TGLS = 1-12]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 778

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Salivary Glands	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
* Bone	Cranium	Hyperostosis	Mild
	Femur	Hyperostosis	Moderate
	Turbinates	Hyperostosis	Minimal
	[Hyperostosis TGLS = 6-14]		
* Brain			
	Note: TGL 8-NCL		
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Islets, Pancreatic		Adenoma	
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
	[Leukemia Mononuclear TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-12]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 778	TRT#: 16 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 94-5216-778
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Ovary Note: TGL 4-NCL [Cyst TGLS = 3-9]	Periovarn Tiss	Cyst	Moderate
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Cyst TGLS = 7-3]	Pars Distalis Pars Distalis	Cyst Hyperplasia	Mild Focal, Mild
* Skin		Keratoacanthoma	
* Spleen		Leukemia Mononuclear	
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
		Ectopic Parathyroid Gland	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus [Polyp Stromal TGLS = 5-13]	Endometrium	Hydrometra Polyp Stromal	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 779

TRT#: 16

SEX: Female

DAY ON TEST: 643

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Clitoral Gland	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Bone	Femur	Hyperostosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney	Bilateral, Renal Tubule	Accumulation, Hyaline Droplet	Mild
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4,5-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Galactoceles	Mild
	[Galactoceles TGLS = 1-12]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 779	TRT#: 16	SEX: Female	DAY ON TEST: 643
	DOSE: 2 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-779

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-6]

* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Blood, Pigment, Pale, TGL 6-NST

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 780

TRT#: 16

SEX: Female

DAY ON TEST: 617

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone	Femur	Hyperostosis	Mild
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
[Nephropathy TGLS = 2-NCL]			
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 3 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 780

TRT#: 16

SEX: Female

DAY ON TEST: 617

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-780

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 781

TRT#: 16

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-781

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Adenoma	
	Bilateral	Angiectasis	Minimal
* Bone	Femur	Hyperostosis	Minimal
	Turbinates	Hyperostosis	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
* Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Galactocele	Marked
	[Galactocele TGLS = 1-12]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Rete Ovarii	Hyperplasia	Moderate
	Bilateral	Inflammation	Chronic, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
	[Hyperplasia TGLS = 2-3]		
* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 782

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-782

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
[Cataract TGLS = 4-13]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
[Mixed Cell Focus TGLS = 3-6]		Mixed Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Ovary	Periovarn Tiss	Cyst	Mild
[Cyst TGLS = 2-9]			
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Marked
Note: TGL 5-NCL			
* Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 782

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-782

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Minimal

* Thyroid Gland

C Cell

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 783

TRT#: 16

SEX: Female

DAY ON TEST: 656

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-783

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Adrenal Medulla	* Pineal Gland
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Mild Focal, Mild
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 3-1]			
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Intestine Large, Colon		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 4-15]			
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Carcinoma	
		Cyst	Mild
		Fibroadenoma	
	Epithelium	Hyperplasia	Mild

Note: The mass (L1) is likely represented in slide 5.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 783	TRT#: 16	SEX: Female	DAY ON TEST: 656
	DOSE: 2 GAUSS	DISP: Natural Death	HISTO: 94-5216-783

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 1-5]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	Bilateral, C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 784

TRT#: 16

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-784

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Pineal Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adren Medulla

Note: Only one of pair available for evaluation.

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Marked
		Necrosis	Minimal
[Mixed Cell Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Skin		Trichoepithelioma	
[Trichoepithelioma TGLS = 1-12]			
* Spleen		Depletion Cellular	Focal, Mild
		Leukemia Mononuclear	
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 784

TRT#: 16

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-784

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 785

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex	Bilateral	Angiectasis Hematopoietic Cell Proliferation	Minimal Minimal
* Brain			
Note: TGL 7-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 2-6]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 3-12, 4-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 785	TRT#: 16	SEX: Female	DAY ON TEST: 739
	DOSE: 2 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-785

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 5-NCL

* Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Adenoma	
* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 786

TRT#: 16

SEX: Female

DAY ON TEST: 508

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-786

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic Active, Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
		Pigmentation	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Inflammation TGLS = 3-6]			
* Lung		Congestion	Mild
[Congestion TGLS = 1-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			
* Spleen		Congestion	Moderate
		Pigmentation	Mild
[Congestion TGLS = 2-6]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 787

TRT#: 16

SEX: Female

DAY ON TEST: 737

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-787

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Brain			
Note: TGL 4-NCL			
* Clitoral Gland		Adenoma	
Eye	Bilateral, Retina	Atrophy	Marked
	Bilateral, Lens	Cataract	Marked
[Cataract TGLS = 1-12, 2-13]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral, Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 3-8]			
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Cyst	Mild
* Mammary Gland		Hyperplasia	Mild
	Epithelium	Atrophy	Focal, Mild
* Pancreas	Acinus	Mineralization	Minimal
* Pineal Gland		Adenoma	
* Pituitary Gland	Pars Distalis		
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 787	TRT#: 16 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-787
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 788

TRT#: 16

SEX: Female

DAY ON TEST: 665

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-788

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral GI			
Note: Only one available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
[Leukemia Mononuclear TGLS = 3-8]			
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-13]			
[Leukemia Mononuclear TGLS = 5-12]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2.1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 788

TRT#: 16

SEX: Female

DAY ON TEST: 665

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-788

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic, Mild
* Pancreas	Acinus	Atrophy	Diffuse, Moderate
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed at Trim, TGL 8-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 789

TRT#: 16

SEX: Female

DAY ON TEST: 701

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-789

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Salivary Glands	Skeletal Muscle
* Skin	Spinal Cord	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adren Medulla			
Note: Only one available for evaluation.			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Focal, Mild
		Compression	Moderate
* Brain	Hypothalamus		
[Compression TGLS = 3-1]			
* Clitoral Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Mild
		Necrosis	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Mixed Cell Focus TGLS = 1-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Galactocele	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Mild
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 789

TRT#: 16

SEX: Female

DAY ON TEST: 701

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-789

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-3]

* Spleen

Pigmentation

Mild

* Stomach, Glandular

Glands

Cyst

Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, TGL 4-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 790

TRT#: 16

SEX: Female

DAY ON TEST: 728

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-790

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Trachea

MISSING

* Stomach, Forestomach	* Stomach, Glandular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Clitoral GI			
Note: Only one available for evaluation.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Int Sm Duoden			
Note: See slide 14 for tissue			
* Kidney		Hydronephrosis	Mild
		Leukemia Mononuclear	
		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
[Hydronephrosis TGLS = 5-8]			
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-5]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 790	TRT#: 16 DOSE: 2 GAUSS	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 728 HISTO: 94-5216-790
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ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary [Cyst TGLS = 7-9]	Periovarn Tiss	Cyst	Mild
* Pancreas * Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Leukemia Mononuclear Adenoma Leukemia Mononuclear	
* Skin [Fibroma TGLS = 2-12]	Subcut Tiss	Fibroma	
* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Thyroid Gland * Urinary Bladder * Uterus [Hydrometra TGLS = 8-9]	C Cell	Hyperplasia Leukemia Mononuclear Hydrometra	Focal, Moderate Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Lesion 2 identified grossly as Mammary Gland is microscopically identified as oc curing in Skin.

Animal Note: Carcass, Thin, TGL 9-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 791

TRT#: 16

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lymph Node, Mandibular | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Clitoral Gland

OBSERVATIONS

- | | | | |
|--|----------------|------------------------------|---------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Brain | | | |
| Note: TGL 8-NCL | | | |
| * Harderian Gland | Bilateral | Infiltration Cellular | Lymphocyte, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | Mild |
| | | Clear Cell Focus | Minimal |
| | | Eosinophilic Focus | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | Mild |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mesenteric | | Infiltration Cellular | Histiocyte, Mild |
| * Mammary Gland | | Carcinoma | |
| | | Fibroadenoma | Multiple |
| [Carcinoma TGLS = 3-14] | | | |
| [Fibroadenoma TGLS = 1-12, 2-13, 4-14] | | | |
| * Nose | Olfactory Epi | Cytoplasmic Alteration | Minimal |
| * Ovary | Periovarn Tiss | Cyst | Moderate |
| [Cyst TGLS = 5-9] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 791	TRT#: 16 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-791
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 9-3]	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
* Uterus Note: TGL 6-NCL			

PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin TGL 7-NST

Animal Note: Lesions 3 and 4 identified grossly as Clitoral Gland are microscopically identified as occurring in Mammary Gland.

Animal Note: Lesion 6 identified grossly as Ovaries is microscopically identified as occurring in Uterus.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 792

TRT#: 16

SEX: Female

DAY ON TEST: 738

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-792

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Adrenal Medulla

OBSERVATIONS

* Adren Cortex			
Note: Only one of pair available for examination.			
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
Note: Only one of pair available for examination.			
[Adenoma TGLS = 1-12]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	Marked
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLS = 3-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 792	TRT#: 16 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-792
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 4-3]			
* Skin		Hyperkeratosis	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus		Hydrometra	Moderate
[Hydrometra TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 793

TRT#: 16

SEX: Female

DAY ON TEST: 703

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-793

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Uterus	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Brain			
Note: TGL 4-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Pelvis	Inflammation	Chronic, Mild
	Bilateral	Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[Hepatodiaphragmatic Nodule TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Periovarn Tiss	Cyst	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 3-3]			
* Spleen	Lymph Follic	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 793	TRT#: 16 DOSE: 2 GAUSS	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 703 HISTO: 94-5216-793
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ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Pigmentation	Minimal
* Urinary Bladder		Hyperplasia	Focal, Moderate
		Calculus Micro Observation Only	Mild
	Transit Epithe	Carcinoma	

[Carcinoma TGLS = 1-12]

PRIMARY CAUSE OF DEATH - Urinary Bladder Transit Epithe Carcinoma

Animal Note: Carcass, Thin, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 794

TRT#: 16

SEX: Female

DAY ON TEST: 723

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-794

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Clitoral Gland	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-NCL]			
* Clitoral GI			
Note: Only one of pair available for examination.			
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
	Atrium	Thrombosis	Marked
[Thrombosis TGLS = 11-4]			
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Necrosis	Mild
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-16]			
[Leukemia Mononuclear TGLS = 8-17]			
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 794

TRT#: 16

SEX: Female

DAY ON TEST: 723

DOSE: 2 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-794

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13, 3-14]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-15]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 9-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Stomach, Glandular		Erosion	Focal, Mild
* Thymus		Cyst	Minimal
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 12-NST

Animal Note: Lesions 1, 2 and 3 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 795

TRT#: 16

SEX: Female

DAY ON TEST: 497

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-795

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|--------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Islets, Pancreatic | * Kidney | * Liver |
| * Lymph Node, Mandibular | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |

MISSING

- * Pineal Gland

AUTO PRECLUDES DIAG.

- | | |
|--------------------------|----------------------------|
| * Intestine Small, Ileum | * Intestine Small, Jejunum |
|--------------------------|----------------------------|

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|------------------------|---------------------|
| * Harderian Gland | | Infiltration Cellular | Lymphocyte, Minimal |
| * Lung | | Congestion | Mild |
| [Congestion TGLS = 1,2-7] | | | |
| * Lymph Node, Mesenteric | | Hemorrhage | Moderate |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Cyst | Minimal |
| * Nose | Olfactory Epi | Cytoplasmic Alteration | Mild |
| * Spleen | | Pigmentation | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 796

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Pineal Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone	Femur	Hyperostosis	Moderate
	Turbinates	Hyperostosis	Marked
* Clitoral Gland		Adenoma	
		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 2-6]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 796	TRT#: 16	SEX: Female	DAY ON TEST: 739
	DOSE: 2 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-796

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 797

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-797

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Bone	Cranium	Hyperostosis	Moderate
	Femur	Hyperostosis	Moderate
	Turbinates	Hyperostosis	Mild
[Hyperostosis TGLS = 4-16]			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
[Cataract TGLS = 6-15]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Mild
[Pigmentation TGLS = 3-13]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 797	TRT#: 16 DOSE: 2 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 94-5216-797
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Mild
* Stomach, Glandular	Glands	Cyst	Mild
* Thymus		Thymoma Benign	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 798

TRT#: 16

SEX: Female

DAY ON TEST: 556

DOSE: 2 GAUSS

DISP: Natural Death

HISTO: 94-5216-798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
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OBSERVATIONS

* Bone Marrow		Depletion Cellular	Minimal
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 2-1]			
* Clitoral GI			
Note: One only of pair available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Mild
		Hemorrhage	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 799 **TRT#:** 16 **SEX:** Female **DAY ON TEST:** 700
DOSE: 2 GAUSS **DISP:** Natural Death **HISTO:** 94-5216-799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone	Femur	Hyperostosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
* Ovary	Periovarn Tiss	Cyst	Mild
		[Cyst TGLS = 2-9.1]	
* Pituitary Gland		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-3.1]	
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-6]	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 800

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Mild
* Clitoral Gland [Cyst TGLS = 2-9]		Cyst	Marked
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
* Lung		Leukemia Mononuclear Chordoma	Metastatic (Uncertain Primary Site)
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland [Fibroadenoma TGLS = 1-12]		Cyst Fibroadenoma	Mild
* Ovary Note: TGL 3-NCL			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma	
* Spleen [Leukemia Mononuclear TGLS = 4-6]		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 800

TRT#: 16

SEX: Female

DAY ON TEST: 739

DOSE: 2 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-800

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

Inflammation

Chronic, Minimal

* Thymus

Atrophy

Minimal

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 801

TRT#: 8

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
	Bilateral	Hematopoietic Cell Proliferation	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 5-6]	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
		Leukemia Mononuclear	
		Note: Axillary Lymph Node	
		[Leukemia Mononuclear TGLS = 9-3,14]	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
		[Fibroadenoma TGLS = 1-12, 2-13]	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Ovary	Periovarn Tiss	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 801	TRT#: 8	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-801

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 6-9]			
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-6]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus			
Note: TGL 4-NST			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: Cavity, Abdominal, Fluid, Red, TGL 3-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 802

TRT#: 8

SEX: Female

DAY ON TEST: 702

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-802

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Minimal
* Lung		Congestion	Mild
		Infiltration Cellular	Lymphocyte, Minimal
[Congestion TGLS = 1-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:26

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 803

TRT#: 8

SEX: Female

DAY ON TEST: 608

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Pancreas |
| * Parathyroid Gland | * Pineal Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|------------------------------|---------------|-----------------------|---------------------|
| * Brain | | | |
| Note: TGL 3-NCL | | | |
| * Harderian Gland | | Infiltration Cellular | Lymphocyte, Minimal |
| * Islets, Pancreatic | | Hyperplasia | Focal, Marked |
| * Kidney | | Infiltration Cellular | Lymphocyte, Minimal |
| * Liver | | Basophilic Focus | Mild |
| * Mammary Gland | | Cyst | Mild |
| | | Fibroadenoma | |
| | | Inflammation | Chronic, Mild |
| [Fibroadenoma TGLS = 1-12] | | | |
| * Ovary | Bilateral | Inflammation | Chronic, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 2-3] | | | |
| * Spleen | Lymph Follic | Atrophy | Mild |
| | | Pigmentation | Moderate |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 804

TRT#: 8

SEX: Female

DAY ON TEST: 624

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2,3-7]	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
		[Fibroadenoma TGLS = 1-12,13]	
Mesentery	Fat	Necrosis	Mild
		[Necrosis TGLS = 6-12]	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 5-3]	
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-6]	
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 804	TRT#: 8	SEX: Female	DAY ON TEST: 624
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-804

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
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PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Animal Note: Carcass, Thin, Observed at Trim, TGL 7-NST

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 805

TRT#: 8

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-805

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
Lymph Node	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Uterus		

MISSING

* Pineal Gland

OBSERVATIONS

* Adren Medulla

Note: Only one of pair available for evaluation.

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Minimal
* Bone	Femur Turbinate	Hyperostosis Hyperostosis	Marked Marked
* Brain	Hypothalamus	Compression	Minimal
[Compression TGLS = 5-1]			
* Clitoral Gland		Adenoma Cyst	Marked
[Adenoma TGLS = 3-9]			
[Cyst TGLS = 6-9]			
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral Bilateral	Mineralization Nephropathy	Minimal Minimal
* Liver		Infiltration Cellular Mixed Cell Focus	Mixed Cell, Minimal Mild
[Mixed Cell Focus TGLS = 7-14; 8-15; 9-16]			
Lymph Node			
Note: Axillary Lymph Node is Normal, Inguinal Lymph Node is Missing			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 805	TRT#: 8	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-805

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1-12, 2-13]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-3]		
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 806

TRT#: 8

SEX: Female

DAY ON TEST: 689

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Ovary	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:26
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 807

TRT#: 8

SEX: Female

DAY ON TEST: 602

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Pineal Gland	* Pituitary Gland
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Necrosis	Marked
* Adrenal Medulla	Bilateral	Necrosis	Marked
* Clitoral Gland		Inflammation	Chronic, Minimal
Note: One only examined.			
* Eye	Bilateral, Cornea	Mineralization	Mild
[Mineralization TGLS = 1-12,12.1]			
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Mild
	Bilateral	Nephropathy	Moderate
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Vacuolization Cytoplasmic TGLS = 3-6]			
* Lung	Interstitium	Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Mineralization	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gl			
Note: TGL 5-NST			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 807	TRT#: 8	SEX: Female	DAY ON TEST: 602
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-807

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibrosarcoma TGLS = 6-13]	Subcut Tiss	Fibrosarcoma	
* Spleen [Atrophy TGLS = 2-6]	Lymph Follic	Atrophy Pigmentation	Mild Mild
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Mild Chronic Active, Mild
* Stomach, Glandular		Erosion Inflammation	Focal, Minimal Chronic Active, Mild
* Thymus Note: TGL 7-NCL			
* Urin Bladder Note: TGL 4-NCL			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 808

TRT#: 8

SEX: Female

DAY ON TEST: 594

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 5-1]			
* Clitoral Gland		Inflammation	Acute, Minimal
Note: Only one examined. TGL 2-NST			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
[Mixed Cell Focus TGLS = 6-14]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
Note: The lesion described for the Clitoral Gland actually represents a small fibroadenoma of the mammary gland.			
[Fibroadenoma TGLS = 1-9, 3-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 808	TRT#: 8	SEX: Female	DAY ON TEST: 594
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-808

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-3]

* Spleen		Pigmentation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 809

TRT#: 8

SEX: Female

DAY ON TEST: 652

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Adrenal Medulla	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 3-1]			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Minimal
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12,13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Periovarn Tiss	Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:27

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 810

TRT#: 8

SEX: Female

DAY ON TEST: 440

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Brain
* Heart
* Kidney
* Mammary Gland
* Salivary Glands
* Thymus

* Adrenal Medulla
* Clitoral Gland
* Intestine Large, Rectum
* Liver
* Nose
* Skin
* Thyroid Gland

* Blood Vessel
* Esophagus
* Intestine Small, Ileum
* Lung
* Ovary
* Stomach, Forestomach
* Trachea

* Bone
* Harderian Gland
* Intestine Small, Jejunum
* Lymph Node, Mandibular
* Pineal Gland
* Stomach, Glandular
* Uterus

MISSING

* Parathyroid Gland

* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum
* Pancreas

* Intestine Large, Colon
* Pituitary Gland

* Intestine Small, Duodenum
* Spleen

* Islets, Pancreatic

OBSERVATIONS

* Bone Marrow
* Lymph Node, Mesenteric
* Pituitary Gl

Depletion Cellular
Infiltration Cellular

Moderate
Histiocyte, Minimal

Note: Tissue present but not diagnosed due to autolysis.

Note: TGL 1-NCL

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 811	TRT#: 8	SEX: Female	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-811

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Infiltration Cellular	Lymphocyte, Minimal
		Mixed Cell Focus	Minimal
[Mixed Cell Focus TGLS = 4-14]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	Bilateral, C Cell	Adenoma	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 812

TRT#: 8

SEX: Female

DAY ON TEST: 434

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Pineal Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Jejunum

OBSERVATIONS

* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Minimal
* Lym Node Mand Note: TGL 2-NCL			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose Note: Fungi present in nasal exudate.		Inflammation	Acute, Minimal
* Pituitary Gland [Adenoma TGLS = 1-3]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Mild
* Thymus		Hemorrhage	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:27

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 813

TRT#: 8

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone Marrow		Depletion Cellular	Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
Note: See slide 5.1 for neoplasm.			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
[Mixed Cell Focus TGLS = 1-13]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
* Ovary	Bilateral	Tubulostromal Adenoma	
* Pituitary Gland	Pars Distalis	Hypertrophy	Focal, Mild
* Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Focal, Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 814

TRT#: 8

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-814

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Leukemia Mononuclear	
		Mixed Cell Focus	Mild
[Basophilic Focus TGLS = 4-6]			
* Lung		Congestion	Minimal
		Infiltration Cellular	Histiocyte, Minimal
[Congestion TGLS = 5-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 814	TRT#: 8	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-814

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus [Inflammation TGLS = 3-14]	Cervix	Inflammation	Chronic Active, Moderate
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PRIMARY CAUSE OF DEATH -

Animal Note: Lesions 1 and 2 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:27

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 815

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 2-13]			
[Mixed Cell Focus TGLS = 1-12]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
		Ultimobranchial Cyst	Minimal
* Uterus	Endometrium	Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 816

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1-13]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Galactocele	Minimal
[Fibroadenoma TGLS = 3-12]			
[Galactocele TGLS = 2-5]			
* Nose			
Note: Fungi present in nasal exudate.			
* Ovary	Periovarn Tiss	Cyst	Mild
[Cyst TGLS = 5-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 816	TRT#: 8 DOSE: 10 GAUSS INTER.	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 94-5216-816
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 817

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	Lymph Node	* Lymph Node, Mandibular
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Minimal
[Angiectasis TGLS = 6-3]			
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 7-1]			
* Clitoral Gland			
Note: Only one of pair available for examination.			
* Harderian Gland		Hyperplasia	Focal, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Moderate
[Mixed Cell Focus TGLS = 9-15; 10-16]			
Lymph Node			
Note: Axillary Lymph Node is Normal.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Galactocele	Mild
[Fibroadenoma TGLS = 1-12, 2-13, 3-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Periovarn Tiss	Cyst	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 817	TRT#: 8	SEX: Female	DAY ON TEST: 739
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-817

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 4-9]			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
* Spleen		Pigmentation	Minimal
* Thymus		Hemorrhage	Minimal
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 5-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 818

TRT#: 8

SEX: Female

DAY ON TEST: 628

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-818

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Depletion Cellular	Minimal
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 2-1]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	Minimal
[Clear Cell Focus TGLS = 3-6]			
[Mixed Cell Focus TGLS = 4-12]			
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Pigmentation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Diffuse, Mild
		Ultimobranchial Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 818

TRT#: 8

SEX: Female

DAY ON TEST: 628

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-818

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus	Endometrium	Pigmentation	Minimal
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PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 819

TRT#: 8

SEX: Female

DAY ON TEST: 462

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney
Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Bone Marrow		Depletion Cellular	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Moderate
* Heart		Cardiomyopathy	Minimal
Larynx			
Note: TGL 1-NCL			
* Liver		Basophilic Focus	Minimal
* Lung		Congestion	Mild
[Congestion TGLS = 2-7]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Follicle	Cyst	Minimal
* Spleen		Pigmentation	Mild
* Thymus		Hemorrhage	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 820

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Mineralization	Minimal
Note: TGL 8-NCL			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Mild
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 4-6]			
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-7]			
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 820	TRT#: 8	SEX: Female	DAY ON TEST: 739
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-820

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked
* Trachea		Inflammation	Chronic, Minimal
* Uterus		Hydrometra	Minimal
[Hydrometra TGLS = 3-9]			

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 821

TRT#: 8

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
* Bone	Femur	Hyperostosis	Mild
	Turbinates	Hyperostosis	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Marked
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Carcinoma	
		[Carcinoma TGLS = 1-2]	
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 822

TRT#: 8

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-9]			
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
		Mixed Cell Focus	Mild
[Basophilic Focus TGLS = 5-13; 6-14]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
		Infiltration Cellular	Histiocyte, Minimal
[Hyperplasia TGLS = 3-7]			
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 2-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 822	TRT#: 8	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-822

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Cyst	Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 823

TRT#: 8

SEX: Female

DAY ON TEST: 711

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Ovary	* Parathyroid Gland	Peripheral Nerve
Skeletal Muscle	* Skin	Spinal Cord	* Stomach, Forestomach
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone	Femur	Hyperostosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic, Minimal
Note: Only one of pair available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-6]	
* Lung		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4,5-7]	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary			
Note: Only one of pair available for evaluation.			
* Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 823

TRT#: 8

SEX: Female

DAY ON TEST: 711

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-823

ORGAN AND ACCOUNTABLE SITE STATUS

Perph Nerve

Note: Sciatic Nerve is Normal

* Pineal Gland

Mineralization

Minimal

* Pituitary Gland

Pars Distalis

Cyst

Mild

* Salivary Glands

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-6]

* Stomach, Glandular

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 7-14]

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Diffuse, Moderate

* Urinary Bladder

Leukemia Mononuclear

* Uterus

Endometrium

Polyp Stromal

[Polyp Stromal TGLS = 1-9]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 6-NST

Animal Note: Lesion 1 identified grossly as Ovaries is microscopically identified as occurring in Uterus.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 824

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Mild
* Brain [Compression TGLS = 5-1]	Hypothalamus	Compression	Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Schwannoma Malignant	
* Kidney	Bilateral	Mineralization	Minimal
* Liver [Basophilic Focus TGLS = 3-6]		Basophilic Focus Eosinophilic Focus Mixed Cell Focus	Minimal Minimal Mild
* Lung Lymph Node Note: Inguinal Lymph Node is Missing.	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland [Fibroadenoma TGLS = 1-12]		Cyst Fibroadenoma	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration Inflammation	Mild Chronic, Minimal
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 824	TRT#: 8	SEX: Female	DAY ON TEST: 739
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-824

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	
* Skin [Fibroma TGLS = 2-13]	Subcut Tiss	Fibroma	
* Spleen		Pigmentation	Minimal
* Thymus	Epithel Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 2 identified grossly as Mammary Gland is microscopically identified as oc curring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 825

TRT#: 8

SEX: Female

DAY ON TEST: 624

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-12]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart			
Note: TGL 5-NCL			
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
* Lung			
Note: TGL 3-NCL			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 825	TRT#: 8	SEX: Female	DAY ON TEST: 624
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-825

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus [Cyst TGLS = 4-9]	Endometrium	Cyst	Moderate
PRIMARY CAUSE OF DEATH	- Clitoral Gland Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 826

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Liver		Eosinophilic Focus	Moderate
		Infiltration Cellular	Mixed Cell, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-13, 2-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Marked
		Tubulostromal Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Skin		Inflammation	Chronic Active, Mild
* Thyroid Gland	C Cell	Adenoma	
Tongue	Epithelium	Hyperplasia	Focal, Marked
[Hyperplasia TGLS = 3-12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 826

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-826

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

Animal Note: Lesion 2 identified grossly as Axillary Lymph Node is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 827

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Hypertrophy	Minimal Focal, Marked Focal, Marked
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland	Bilateral	Inflammation	Chronic, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Basophilic Focus Leukemia Mononuclear	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Interstitialium	Inflammation	Chronic, Minimal
Lymph Node			
Note: Axillary Lymph Node is Missing.			
Note: Inguinal Lymph Node is Missing.			
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst Fibroadenoma	Mild Multiple
[Fibroadenoma TGLS = 1-12, 2-13, 3-14]			
* Pancreas	Acinus	Hyperplasia	Focal, Marked
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 827	TRT#: 8	SEX: Female	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-827

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Marked
[Hyperplasia TGLS = 5-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Thymus		Cyst	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesions 1, 2 and 3 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 828

TRT#: 8

SEX: Female

DAY ON TEST: 727

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-828

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Pineal Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
--------------------------	--------------------------	----------------------------

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
		Vacuolization Cytoplasmic	Focal, Moderate
		Pheochromocytoma Benign	
* Adrenal Medulla			
* Brain			
Note: TGL 4-NCL			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Marked
* Liver		Congestion	Marked
	Bile Duct	Hyperplasia	Minimal
[Congestion TGLS = 2-6]			
* Lym Node Mand			
Note: TGL 1-NCL			
Lymph Node	Mediastinal	Hemorrhage	Marked
[Hemorrhage TGLS = 6-3.1]			
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 5-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Parathyroid Gland		Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 828	TRT#: 8	SEX: Female	DAY ON TEST: 727
	DOSE: 10 GAUSS INTER.	DISP: Natural Death	HISTO: 94-5216-828

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 3-3]	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular [Erosion TGLS = 7-4]		Erosion	Focal, Moderate
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Heart Cardiomyopathy

Animal Note: Lesion 5 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 829

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hematopoietic Cell Proliferation Hyperplasia	Mild Minimal Focal, Mild
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-12]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus Inflammation	Minimal Granulomatous, Moderate
[Inflammation TGLS = 4-6]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst Fibroadenoma	Minimal Multiple
[Fibroadenoma TGLS = 1-14, 3-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Skin		Cyst Epithelial Inclusion	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 829

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-829

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesions 1 and 3 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:27

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 830

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-830

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Moderate
	Bilateral	Vacuolization Cytoplasmic	Focal, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Moderate
	[Hepatodiaphragmatic Nodule TGLS = 3-6]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1-12, 2-13]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Bilateral, Rete Ovarii	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Degeneration	Focal, Minimal
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 830

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-830

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 831

TRT#: 8

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Mild Focal, Moderate
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Eosinophilic Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst Fibroadenoma	Mild
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi Nasolacrim Dct	Cytoplasmic Alteration Inflammation	Mild Chronic, Mild
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst	Minimal
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:27

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 832

TRT#: 8

SEX: Female

DAY ON TEST: 641

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Pineal Gland	* Skin
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adren Medulla

Note: Only one of pair available for examination.

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Mild
* Brain	Hypothalamus	Compression	Moderate
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Inflammation	Chronic, Mild
		Mixed Cell Focus	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Eosinophilic Focus TGLS = 4-13]		
	[Vacuolization Cytoplasmic TGLS = 3-12]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Galactocele	Marked
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	
	[Carcinoma TGLS = 1-3]		
* Salivary Glands	Parotid GI	Atrophy	Mild
	Duct, Sublingul GI	Metaplasia	Squamous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 832	TRT#: 8	SEX: Female	DAY ON TEST: 641
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-832

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Acute, Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Cyst	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma

Animal Note: Carcass, Thin, Found at Trim, TGL 2-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 833

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-833

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Ovary	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mesenteric

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
		Mineralization	Mild
* Bone Marrow		Depletion Cellular	Mild
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 4-1]			
* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Minimal
[Mixed Cell Focus TGLS = 5-14]			
* Lung			
Note: TGL 2-NCL			
* Mammary Gland		Cyst	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Respirat Epith	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 833

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-833

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-3]

* Thymus

Atrophy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 834

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Pelvis	Inflammation	Chronic, Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
		Tension Lipidosis	Focal, Mild
[Eosinophilic Focus TGLS = 6-14]			
[Infiltration Cellular TGLS = 3-6]			
[Mixed Cell Focus TGLS = 5-13; 7-15]			
[Tension Lipidosis TGLS = 6-14]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Cyst TGLS = 2-5]			
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 834	TRT#: 8	SEX: Female	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-834

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 4-3]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 835

TRT#: 8

SEX: Female

DAY ON TEST: 718

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Cyst	Moderate
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-2]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
* Ovary			
	Note: Only one of pair available for evaluation.		
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-3]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		
* Stomach, Glandular	Glands	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 835	TRT#: 8	SEX: Female	DAY ON TEST: 718
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-835

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Mild
Tooth		Necrosis	Marked
Note: TGL 2-NST			
* Uterus	Endometrium	Cyst	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed at Trim, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 836

TRT#: 8

SEX: Female

DAY ON TEST: 434

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-836

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Clitoral Gland	* Pineal Gland	* Thymus
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OBSERVATIONS

* Bone Marrow		Depletion Cellular	Mild
* Brain	Hypothalamus	Compression	Moderate
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Galactoceles	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 837

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Moderate
* Clitoral Gland [Cyst TGLS = 1-9]		Cyst	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Intestine Small, Duodenum		Diverticulum	
* Kidney	Bilateral	Nephropathy	Minimal
* Liver [Basophilic Focus TGLS = 3-12] [Mixed Cell Focus TGLS = 4-13]		Basophilic Focus Mixed Cell Focus	Mild Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 837

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-837

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 2-2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 838

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Focal, Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Rete Ovarii	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Parathyroid Gland		Degeneration	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:27

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 839

TRT#: 8

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Minimal Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus Eosinophilic Focus	Minimal Minimal
* Lung		Hemorrhage	Mild
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst Fibroadenoma	Mild Multiple
[Cyst TGLS = 1-5] [Fibroadenoma TGLS = 2-13, 3-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Periovarn Tiss	Cyst	Moderate
[Cyst TGLS = 4-12]			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
[Hyperplasia TGLS = 5-3]			
* Thyroid Gland	C Cell C Cell	Adenoma Hyperplasia	 Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 840

TRT#: 8

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-840

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone	Femur	Hyperostosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 11-1]			
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3,4-6]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-15]			
[Leukemia Mononuclear TGLS = 5-13, 6-14]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 8-16]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 840	TRT#: 8	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-840

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 9-17]	Fat	Necrosis	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Bilateral, Rete Ovarii	Hyperplasia	Mild
		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Leukemia Mononuclear TGLS = 10-3]		Leukemia Mononuclear	
* Spleen [Leukemia Mononuclear TGLS = 1-12]		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	
* Uterus [Polyp Stromal TGLS = 2-9]	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 8 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 841

TRT#: 8

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-841

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Vacuolization Cytoplasmic	Mild Focal, Mild Focal, Moderate
* Brain [Compression TGLS = 6-1]	Hypothalamus	Compression	Moderate
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Mineralization Nephropathy	Minimal Minimal
* Liver	Bilateral	Clear Cell Focus Eosinophilic Focus	Minimal Minimal
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Mixed Cell Focus Vacuolization Cytoplasmic	Minimal Minimal
	[Mixed Cell Focus TGLS = 8-15]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Adenoma Fibroadenoma Galactocele	Multiple Moderate
	[Fibroadenoma TGLS = 1-12, 3-13] [Galactocele TGLS = 2-5]		
Mesentery	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 841	TRT#: 8	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-841

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 4-14]			
* Ovary		Inflammation	Chronic, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: Carcass, Thin, TGL 7-NST

Animal Note: Lesion 2 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 842	TRT#: 8 DOSE: 10 GAUSS INTER.	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-842
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Brain			
Note: TGL 6-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lung			
Note: TGL 5-NCL			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13]			
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLS = 3-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
	Nasolacrim Dct	Inflammation	Chronic, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 842	TRT#: 8	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-842

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 7-3]			
* Spleen		Pigmentation	Mild
* Thymus		Thymoma Benign	
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 4-2]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 843

TRT#: 8

SEX: Female

DAY ON TEST: 715

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-843

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
* Bone	Femur	Hyperostosis	Mild
	Turbinates	Hyperostosis	Mild
* Brain			
Note: TGL 2-NCL			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Marked
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 843	TRT#: 8	SEX: Female	DAY ON TEST: 715
	DOSE: 10 GAUSS INTER.	DISP: Natural Death	HISTO: 94-5216-843

ORGAN AND ACCOUNTABLE SITE STATUS

	Hemorrhage	Minimal
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PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 844

TRT#: 8

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-844

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	Lymph Node	* Lymph Node, Mandibular
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
Note: Only one of pair available for evaluation.			
[Adenoma TGLS = 1-9]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Clear Cell Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 4-6]			
Lymph Node			
Note: Axillary Lymph Node is Normal			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Adenoma	
[Adenoma TGLS = 2-12]			
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLS = 3-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 844	TRT#: 8	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-844

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Fungi present in nasal exudate.		Inflammation	Chronic Active, Mild
* Ovary	Rete Ovarii	Hyperplasia	Mild
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 2 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 845

TRT#: 8

SEX: Female

DAY ON TEST: 535

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-845

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Diffuse, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral, Renal Tubule	Degeneration	Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Inflammation	Chronic Active, Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Ulcer	Mild
* Thymus		Atrophy	Marked
* Uterus	Endometrium	Cyst	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed at Trim, TGL 3-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:27

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 846

TRT#: 8

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-846

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Blood Vessel | * Bone | * Brain | * Esophagus |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mandibular | * Ovary | * Pancreas | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---|---------------|---|---|
| * Adrenal Cortex | Bilateral | Angiectasis
Vacuolization Cytoplasmic | Mild
Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Depletion Cellular | Minimal |
| * Clitoral Gland | | Hyperplasia | Focal, Minimal |
| * Harderian Gland | Bilateral | Infiltration Cellular | Lymphocyte, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| * Liver | | Basophilic Focus
Infiltration Cellular
Mixed Cell Focus | Minimal
Mixed Cell, Minimal
Minimal |
| * Lymph Node, Mesenteric | | Infiltration Cellular | Histiocyte, Mild |
| * Mammary Gland
[Cyst TGLS = 1-12] | | Cyst | Mild |
| * Nose | Olfactory Epi | Cytoplasmic Alteration | Minimal |
| * Pineal Gland | | Mineralization | Minimal |
| * Pituitary Gland
[Carcinoma TGLS = 2-3] | Pars Distalis | Carcinoma | |
| * Spleen | | Pigmentation | Mild |
| * Thymus | | Atrophy | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 846

TRT#: 8

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-846

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 847 **TRT#:** 8 **SEX:** Female **DAY ON TEST:** 739
DOSE: 10 GAUSS INTER. **DISP:** Terminal Sacrifice **HISTO:** 94-5216-847

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Minimal
[Mixed Cell Focus TGLS = 4-14]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Follicle	Cyst	Mild
	Periovarn Tiss	Cyst	Moderate
[Cyst TGLS = 3-9]			
[Cyst TGLS = 2-9]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 847

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-847

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 848

TRT#: 8

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-848

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

MISSING

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone	Femur	Hyperostosis	Moderate
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-3]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 848	TRT#: 8	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-848

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Adenoma	
* Uterus	Cervix	Cyst	Marked
		Hydrometra	Moderate
[Cyst TGLS = 1-12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 849

TRT#: 8

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-849

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Nose	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone Marrow		Depletion Cellular	Mild
* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
[Basophilic Focus TGLS = 1-6]			
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-12]			
* Ovary	Bilateral	Granulosa Cell Tumor Benign	
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Marked
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Endometrium	Cyst	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 850 **TRT#:** 8 **SEX:** Female **DAY ON TEST:** 737
DOSE: 10 GAUSS INTER. **DISP:** Terminal Sacrifice **HISTO:** 94-5216-850

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hematopoietic Cell Proliferation	Mild Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
	[Basophilic Focus TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-12]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic, Minimal
* Ovary	Rete Ovarii	Hyperplasia	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 850	TRT#: 8	SEX: Female	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-850

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus	Endometrium	Pigmentation Polyp Stromal	Minimal
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PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin, Observed at Trim, TGL 3-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 851

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-851

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary		Granulosa Cell Tumor Malignant	
	[Granulosa Cell Tumor Malignant TGLS = 4-9]		
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
	[Cyst TGLS = 6-3.1]		
* Skin		Basal Cell Adenoma	
	[Basal Cell Adenoma TGLS = 1-12]		
* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Uterus	Endometrium	Adenoma	
	Cervix	Cyst	Moderate
	Endometrium	Polyp Stromal	
	[Adenoma TGLS = 2,7-9]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 851

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-851

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 5-13]

[Polyp Stromal TGLS = 2,3-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 852	TRT#: 18 DOSE: 10 GAUSS INTER.	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-852
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Mild Focal, Mild
* Brain Note: TGL 3-NCL			
* Clitoral Gland		Adenoma	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver	Bile Duct	Clear Cell Focus Hyperplasia	Mild Minimal
* Lung		Leukemia Mononuclear	Histiocyte, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Cystic, Minimal
* Lymph Node, Mesenteric		Degeneration	Histiocyte, Minimal
* Mammary Gland [Galactoceles TGLS = 1-12]		Infiltration Cellular Galactoceles	Moderate
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 852

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-852

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 2-NCL

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 2 identified grossly as Vagina is microscopically identified as occurring in Uterus.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 853

TRT#: 18

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Minimal
* Brain [Compression TGLS = 7-1]	Hypothalamus	Compression	Moderate
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Pelvis	Inflammation	Chronic, Minimal
		Mineralization	Minimal
* Liver	Bilateral	Nephropathy	Minimal
		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 4-6,14]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Carcinoma	
		Cyst	Mild
[Carcinoma TGLS = 2-12] [Cyst TGLS = 1-5, 3-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 853	TRT#: 18	SEX: Female	DAY ON TEST: 739
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-853

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary Note: TGL 5-NCL	Rete Ovarii	Hyperplasia	Minimal
* Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 854

TRT#: 18

SEX: Female

DAY ON TEST: 526

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-854

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Necrosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain	Cerebellum	Hemorrhage	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Thyroid Gland		Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:27

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 855

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-855

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Pigmentation	Mild
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 856

TRT#: 18

SEX: Female

DAY ON TEST: 550

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-856

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Adrenal Medulla	* Pineal Gland
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OBSERVATIONS

* Bone Marrow		Depletion Cellular	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
Note: One of pair examined.			
* Int Lg Colon			
Note: Colon and rectum obstruction (food material) was not included in section.			
Note: TGL 3-NST			
* Int Lg Rectum			
Note: TGL 4-NST			
* Intestine Large, Cecum	Epithelium	Hyperplasia	Mild
[Hyperplasia TGLS = 2-5]			
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Hepatocyte	Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 6-12]			
[Vacuolization Cytoplasmic TGLS = 5-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 856	TRT#: 18	SEX: Female	DAY ON TEST: 550
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-856

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Moderate
[Atrophy TGLS = 1-6]			
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 857

TRT#: 18

SEX: Female

DAY ON TEST: 668

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-857

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	Minimal
[Basophilic Focus TGLS = 1-6]			
* Lung		Congestion	Mild
[Congestion TGLS = 2-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gl			
Note: TGL 4-NCL			
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Minimal
* Uterus		Pigmentation	Minimal
[Pigmentation TGLS = 3-9]			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 858

TRT#: 18

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-858

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	Lymph Node
* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Minimal
* Clitoral Gland Note: Only one clitoral gland examined			
* Harderian Gland	Bilateral	Infiltration Cellular Cardiomyopathy Mineralization	Lymphocyte, Minimal Minimal Minimal
* Heart			
* Kidney	Bilateral	Nephropathy Basophilic Focus Eosinophilic Focus Mixed Cell Focus	Minimal Mild Mild Minimal
* Liver			
* Lym Node Mand Note: 3-NCL Lymph Node Note: Axillary Lymph Node Normal; Inguinal Lymph Node Missing			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland [Fibroadenoma TGLS = 1-12, 2-13]		Fibroadenoma	Multiple
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy Infiltration Cellular	Focal, Minimal Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 858

TRT#: 18

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-858

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-3]

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 859

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-859

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Ovary	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Bone Marrow		Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6, 3-13]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-7]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Moderate
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 1-12]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 860

TRT#: 18

SEX: Female

DAY ON TEST: 710

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-860

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 5-1]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Schwannoma Malignant	
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
[Basophilic Focus TGLS = 2-6]			
* Lung		Congestion	Mild
[Congestion TGLS = 3-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Galactocele	Mild
[Fibroadenoma TGLS = 1-12]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 860

TRT#: 18

SEX: Female

DAY ON TEST: 710

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-860

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 861

TRT#: 18

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-861

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Vacuolization Cytoplasmic	Mild Focal, Minimal Focal, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Liver	Bile Duct	Basophilic Focus Hyperplasia Infiltration Cellular Mixed Cell Focus Infiltration Cellular	Mild Minimal Mixed Cell, Minimal Marked Lymphocyte, Minimal
* Lung			
Lymph Node			
Note: Axillary Lymph Node is missing			
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
[Degeneration TGLS = 1-2.1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst Fibroadenoma	Mild
[Fibroadenoma TGLS = 2-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 861

TRT#: 18

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-861

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-3]

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Thyroid Gland

C Cell

Hyperplasia

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 862

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-862

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
		Leukemia Mononuclear	
	[Angiectasis TGLS = 3-3]		
* Adrenal Medulla		Pheochromocytoma Complex	
	[Pheochromocytoma Complex TGLS = 2-3]		
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 4-13]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 6-3]		
* Skin		Squamous Cell Papilloma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 862	TRT#: 18	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-862

ORGAN AND ACCOUNTABLE SITE STATUS

[Squamous Cell Papilloma TGLS = 1-12]

* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Hydrometra	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 863

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-863

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2,3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Rathkes Cleft	Pigmentation	Mild
[Cyst TGLS = 5-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hydrometra	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 863

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-863

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 864

TRT#: 18

SEX: Female

DAY ON TEST: 627

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-864

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Intestine Large, Cecum

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 8-9]			
* Intestine Small, Ileum		Ulcer	Marked
Note: See Slide 15RT for ulcer.			
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Necrosis	Mild
[Basophilic Focus TGLS = 7-6]			
[Eosinophilic Focus TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-3]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-14]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 4-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 864	TRT#: 18	SEX: Female	DAY ON TEST: 627
	DOSE: 10 GAUSS INTER.	DISP: Natural Death	HISTO: 94-5216-864

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Lymphoma Malignant TGLS = 1-12]		Lymphoma Malignant	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland Note: TGL 5-NCL	Pars Distalis	Cyst	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH - Mesentery Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 865

TRT#: 18

SEX: Female

DAY ON TEST: 701

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-865

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Ovary	* Parathyroid Gland	* Pineal Gland
* Skin	* Stomach, Glandular	* Trachea	* Uterus

MISSING

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone	Femur	Hyperostosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Minimal
	Bilateral	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-6]	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Salivary Glands	Sublingual GI	Atrophy	Mild
* Spleen		Fibrosis	Marked
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1,2-6]	
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 865	TRT#: 18	SEX: Female	DAY ON TEST: 701
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-865

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Urin Bladder			
Note: TGL 4-NST			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 866

TRT#: 18

SEX: Female

DAY ON TEST: 511

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum
-----------------------------	--------------------------

OBSERVATIONS

* Kidney	Mineralization	Minimal
* Liver	Basophilic Focus	Mild
	Eosinophilic Focus	Minimal
* Lung	Congestion	Mild
[Congestion TGLS = 2-7]		
* Lymph Node, Mandibular	Hemorrhage	Mild
* Lymph Node, Mesenteric	Infiltration Cellular	Histiocyte, Minimal
* Nose	Cytoplasmic Alteration	Mild
* Pituitary Gland	Adenoma	
[Adenoma TGLS = 1-3]		
* Spleen	Pigmentation	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 867

TRT#: 18

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Pineal Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Leukemia Mononuclear	Mild
* Bone	Femur Turbinate	Hyperostosis Hyperostosis	Moderate Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Clitoral Gland		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Moderate
	[Leukemia Mononuclear TGLS = 9-6]		
* Lung		Leukemia Mononuclear	
Lymph Node		Leukemia Mononuclear	
	Note: Axillary Lymph Node is TGL 4; Lumbar Lymph Node for TGL 8		
	[Leukemia Mononuclear TGLS = 4-14; 8-15]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-2]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 11-5]		
* Mammary Gland		Cyst Fibroadenoma	Minimal Multiple
	[Fibroadenoma TGLS = 2-12, 3-13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 867	TRT#: 18	SEX: Female	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-867

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Mild
		Leukemia Mononuclear	
[Cyst TGLS = 10-3]			
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	
* Uterus	Endometrium	Leukemia Mononuclear	
		Polyp Stromal	
[Polyp Stromal TGLS = 7-9]			

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 3 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

Animal Note: Carcass, Thin, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 868

TRT#: 18

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Focal, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Moderate
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-14, 2-15, 3-16]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 5-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 868

TRT#: 18

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-868

ORGAN AND ACCOUNTABLE SITE STATUS

Vagina

Cyst

Marked

[Cyst TGLS = 4-12]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 869

TRT#: 18

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Moderate
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Intestine Large, Rectum		Inflammation	Chronic, Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
		Necrosis	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
[Hemorrhage TGLS = 2-3]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Bilateral	Inflammation	Chronic, Moderate
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Cyst	Mild
	C Cell	Hyperplasia	Focal, Minimal
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 1-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 869

TRT#: 18

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-869

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 870

TRT#: 18

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
	Atrium	Mineralization	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
[Leukemia Mononuclear TGLS = 2-6]			
Lymph Node			
Note: Axillary Lymph Node is Missing			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 870	TRT#: 18	SEX: Female	DAY ON TEST: 739
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-870

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 3-3]	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 871

TRT#: 18

SEX: Female

DAY ON TEST: 632

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-871

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
	Bilateral	Hematopoietic Cell Proliferation	Mild
* Bone Marrow		Hyperplasia	Moderate
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Animal Note: Carcass, Thin, Observed, TGL 4-NST

Animal Note: Due to recording error on Individual Animal Necropsy Record, there is no TGL 3.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 871

TRT#: 18

SEX: Female

DAY ON TEST: 632

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-871

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:27

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 872

TRT#: 18

SEX: Female

DAY ON TEST: 480

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-872

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral, Renal Tubule	Degeneration	Moderate
	Bilateral	Mineralization	Mild
* Liver		Basophilic Focus	Minimal
		Hemangiosarcoma	Metastatic (Spleen)
	Hepatocyte	Hepatodiaphragmatic Nodule	
		Vacuolization Cytoplasmic	Minimal
	[Hemangiosarcoma TGLS = 2-13, 1-6,12]		
	[Hepatodiaphragmatic Nodule TGLS = 3-6]		
	[Vacuolization Cytoplasmic TGLS = 4-6,12,13]		
* Lung	Interstitium	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gl			
Note: TGL 5-NCL			
* Spleen		Hemangiosarcoma	
	[Hemangiosarcoma TGLS = 6-6]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 872	TRT#: 18	SEX: Female	DAY ON TEST: 480
	DOSE: 10 GAUSS INTER.	DISP: Natural Death	HISTO: 94-5216-872

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Polyp Stromal	
	Cervix, Epithelium	Vacuolization Cytoplasmic	Moderate
[Polyp Stromal TGLS = 8-9]			
[Vacuolization Cytoplasmic TGLS = 9-15]			

PRIMARY CAUSE OF DEATH - Spleen Hemangiosarcoma

Animal Note: Cavities, Abdominal, Fluid, Red, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 873

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-873

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	Lymph Node
* Lymph Node, Mandibular	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
	Bilateral	Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Mixed Cell Focus	Mild
[Mixed Cell Focus TGLS = 2-6, 3-12]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: Inguinal Lymph Node is Normal			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 873

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-873

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus	Endometrium	Polyp Stromal	Multiple
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PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Inguinal Lymph Node is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 874

TRT#: 18

SEX: Female

DAY ON TEST: 732

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-874

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
* Adrenal Medulla	Bilateral	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
* Bone	Femur	Hyperostosis	Marked
	Turbinates	Hyperostosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Focal, Marked
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-2]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 874	TRT#: 18	SEX: Female	DAY ON TEST: 732
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-874

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[Adenoma TGLS = 5-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Endometrium	Cyst	Minimal
	Endometrium	Inflammation	Chronic, Minimal
[Inflammation TGLS = 6-9]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Cavities, Thoracic, Fluid, 1mL, Red, TGL, 4-NST

Animal Note: Cavities, Abdominal, Fluid, 1mL, Yellow, TGL, 3-NST

Animal Note: Carcass, Thin, TGL, 8-NST, observed at retrim

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:27

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 875

TRT#: 18

SEX: Female

DAY ON TEST: 713

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-875

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Minimal Focal, Moderate
* Bone			
Note: Bone, Femur and Rib Normal			
* Brain			
Note: TGL 5-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 3-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Spleen		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Ribs, Mass, 11x10x4mm, Attached on ribcage-Submitted together, TGL 2-NCL

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 875

TRT#: 18

SEX: Female

DAY ON TEST: 713

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-875

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 876

TRT#: 18

SEX: Female

DAY ON TEST: 715

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-876

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder	* Uterus	

MISSING

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 3-1]			
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Ovary	Periovarn Tiss	Cyst	Moderate
[Cyst TGLS = 1-9.1]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3.1]			
* Spleen	Lymph Follic	Atrophy	Moderate
* Thymus		Atrophy	Minimal
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 877

TRT#: 18

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-877

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Minimal
[Clear Cell Focus TGLS = 3-12]			
[Mixed Cell Focus TGLS = 3-12]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland	Epithelium	Hyperplasia	Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic, Mild
* Ovary	Periovarn Tiss	Cyst	Marked
[Cyst TGLS = 1-9]			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 877	TRT#: 18	SEX: Female	DAY ON TEST: 737
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-877

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-3]	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 878

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-878

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Minimal
* Brain [Compression TGLS = 7-1]	Hypothalamus	Compression	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Mild
* Liver	Bilateral	Nephropathy Basophilic Focus Eosinophilic Focus Infiltration Cellular	Minimal Minimal Mild Mixed Cell, Mild
[Eosinophilic Focus TGLS = 5-6,12] [Infiltration Cellular TGLS = 5-6,12]			
* Lung Lymph Node [Hemorrhage TGLS = 4-3]	Alveolar Epith Mediastinal	Hyperplasia Hemorrhage	Focal, Mild Minimal
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland [Cyst TGLS = 1-5] [Fibroadenoma TGLS = 2-13, 3-14]		Cyst Fibroadenoma	Minimal Multiple
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 878	TRT#: 18	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-878

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary	Rete Ovarii	Hyperplasia	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Minimal
* Uterus	Endometrium	Cyst	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 879

TRT#: 18

SEX: Female

DAY ON TEST: 729

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-879

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Marked
* Bone Marrow		Hyperplasia	Minimal
* Brain			
Note: TGL 9-NCL			
* Clitoral Gland		Hyperplasia	Focal, Mild
* Harderian GI			
Note: Only one of pair available for evaluation.			
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Carcinoma	
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
[Nephropathy TGLS = 7-8]			
* Liver		Basophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 8-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13, 3-14, 4-15, 5-16]			
* Nose		Inflammation	Chronic Active, Moderate
Note: Fungi present in nasal exudate.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 879	TRT#: 18	SEX: Female	DAY ON TEST: 729
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-879

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary	Bilateral, Rete Ovarii	Hyperplasia	Minimal
* Pituitary Gland [Adenoma TGLS = 10-3]	Pars Distalis	Adenoma	
* Spleen Note: TGL 6-NCL		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Animal Note: Carcass, Thin, TGL 11-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:27

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 880

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-880

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
Lymph Node	* Lymph Node, Mandibular	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone	Cranium	Hyperostosis	Moderate
	Femur	Hyperostosis	Mild
[Hyperostosis TGLS = 6-16]			
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 3-9]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 5-6]		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: Axillary Lymph Node is Normal			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
[Cyst TGLS = 2-14]			
[Fibroadenoma TGLS = 1-12, 2-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 880

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-880

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary

Note: TGL 4-NCL

* Pituitary Gland

Pars Distalis

Pars Distalis

Pars Distalis

Cyst

Hyperplasia

Inflammation

Hematopoietic Cell Proliferation

Pigmentation

Mild

Focal, Mild

Chronic, Minimal

Minimal

Minimal

* Spleen

* Thyroid Gland

C Cell

C Cell

Adenoma

Hyperplasia

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 881

TRT#: 18

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-881

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone Marrow		Depletion Cellular	Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Uterus	Endometrium	Polyp Stromal	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 882

TRT#: 18

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-882

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	Lymph Node	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Pineal Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
[Eosinophilic Focus TGLS = 5-17]			
[Mixed Cell Focus TGLS = 5-17]			
* Lung	Serosa	Inflammation	Chronic, Minimal
Lymph Node			
Note: Inguinal Lymph Node is Missing.			
Note: Axillary Lymph Node is Normal.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13, 3-15]			
* Nose		Inflammation	Chronic, Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 882	TRT#: 18	SEX: Female	DAY ON TEST: 739
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-882

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	
* Salivary Glands	Parotid GI	Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus		Hydrometra	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 883

TRT#: 18

SEX: Female

DAY ON TEST: 591

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-883

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 5-1]			
* Clitoral GI			
Note: Only one of pair available for exvaluation.			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 3-14]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral, Renal Tubule	Degeneration	Moderate
* Liver		Basophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	Mild
[Mixed Cell Focus TGLS = 7-17; 8-18]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Carcinoma	
		Cyst	Minimal
[Carcinoma TGLS = 1-12]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 883	TRT#: 18	SEX: Female	DAY ON TEST: 591
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-883

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 4-3]	Nasolacrim Dct Pars Distalis	Inflammation Adenoma	Chronic Active, Mild
* Thymus	Epithel Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, Observed, TGL 6-NST

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 884

TRT#: 18

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-884

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Vacuolization Cytoplasmic	Mild Focal, Moderate Focal, Minimal
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Pelvis, Transit Epithe	Hyperplasia Nephroblastoma	Mild
[Nephroblastoma TGLS = 7-12]			
* Liver		Basophilic Focus Clear Cell Focus Mixed Cell Focus	Moderate Minimal Minimal
[Basophilic Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst Fibroadenoma	Mild
[Fibroadenoma TGLS = 1-14]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 884	TRT#: 18	SEX: Female	DAY ON TEST: 739
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-884

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Periovarn Tiss	Cyst	Moderate
[Cyst TGLS = 2-13]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: Cavity, Abdominal, Fluid, Red, TGL 3-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 885

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-885

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone	Cranium	Hyperostosis	Mild
	Femur	Hyperostosis	Mild
	Turbinates	Hyperostosis	Minimal
	[Hyperostosis TGLS = 3-12]		
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral, Pelvis	Inflammation	Chronic, Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Galactoceles	Mild
	[Galactoceles TGLS = 2-13]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary			
Note: TGL 1-NCL			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 885

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-885

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-3]

* Spleen

Pigmentation

Minimal

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 886

TRT#: 18

SEX: Female

DAY ON TEST: 585

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-886

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

MISSING

* Clitoral Gland	* Ovary	* Urinary Bladder	* Uterus
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OBSERVATIONS

* Adren Cortex			
Note: Only One Adrenal Cortex Examined			
Note: TGL, 4-NST			
* Adren Medulla			
Note: Only One Adrenal Medulla Examined			
* Bone Marrow		Depletion Cellular	Minimal
* Brain			
Note: TGL, 5-NCL			
* Clitoral GI			
Note: The clitoral glands thought to be enlarged were actually small fibroadenomas of mammary gland origin.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Moderate
* Lymph Node, Mesenteric		Cyst	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-9, 2-12]			
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 886	TRT#: 18	SEX: Female	DAY ON TEST: 585
	DOSE: 10 GAUSS INTER.	DISP: Natural Death	HISTO: 94-5216-886

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLS = 3-3]

* Spleen	Pigmentation	Mild
* Thymus	Atrophy	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 887

TRT#: 18

SEX: Female

DAY ON TEST: 645

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-887

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Pineal Gland
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Complex	
* Bone	Femur	Hyperostosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2-6]	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-6]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 887	TRT#: 18	SEX: Female	DAY ON TEST: 645
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-887

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	
* Uterus	Endometrium, Epithelium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Found at Retrim, TGL 3-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 888

TRT#: 18

SEX: Female

DAY ON TEST: 730

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Trachea	* Urinary Bladder
* Uterus			

MISSING

Lymph Node	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone	Femur	Hyperostosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain	Cerebellum	Gliosis	Focal, Mild
Note: TGL 4-NCL			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Hyperplasia	Focal, Moderate
		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
Lymph Node			
Note: Inguinal Lymph Node is missing			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 888	TRT#: 18	SEX: Female	DAY ON TEST: 730
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-888

ORGAN AND ACCOUNTABLE SITE STATUS

		Galactocele	Mild
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Chronic Active, Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, TGL, 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 889

TRT#: 18

SEX: Female

DAY ON TEST: 430

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-889

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	Lymph Node	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Nephropathy	Minimal
		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
* Lung	Interstitial	Inflammation	Chronic, Minimal
Lymph Node			
Note: Inguinal Lymph Node is Normal			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Animal Note: Lesion 2 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:27

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 890

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-890

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic Hyperplasia	Mild Focal, Marked Mild
* Bone Marrow			
* Clitoral GI			
Note: Only one available for evaluation.			
* Harderian Gland	Bilateral	Infiltration Cellular Cardiomyopathy	Lymphocyte, Minimal Mild
* Heart			
* Kidney	Bilateral, Pelvis	Inflammation Basophilic Focus Eosinophilic Focus	Chronic Active, Mild Moderate Minimal
* Liver		Degeneration Hyperplasia Cyst Fibroadenoma	Cystic, Minimal Lymphoid, Mild Minimal
* Lymph Node, Mandibular			
* Mammary Gland			
[Fibroadenoma TGLS = 2-12]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 890

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-890

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 891

TRT#: 18

SEX: Female

DAY ON TEST: 505

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Uterus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
* Lung	Interstitialium	Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
* Nose		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Pigmentation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
Zymbal's Gland		Carcinoma	

[Carcinoma TGLS = 1-2,12]

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 892 **TRT#:** 18 **SEX:** Female **DAY ON TEST:** 737
DOSE: 10 GAUSS INTER. **DISP:** Terminal Sacrifice **HISTO:** 94-5216-892

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Leukemia Mononuclear Vacuolization Cytoplasmic	Minimal Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain	Cerebellum	Hemorrhage	Minimal
Note: TGL 13-NCL			
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral Bilateral	Leukemia Mononuclear Mineralization Nephropathy	Minimal Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8,9-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11,12-7]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Epithelium	Fibroadenoma Hyperplasia	Mild
[Fibroadenoma TGLS = 1-12]			
[Hyperplasia TGLS = 2-5]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 892

TRT#: 18

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-892

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary Note: TGL 7-NCL			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gl Note: TGL 14-NCL			
* Spleen [Leukemia Mononuclear TGLS = 3-6,13, 4-13, 5-6]		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus Note: TGL 6-NCL			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 893

TRT#: 18

SEX: Female

DAY ON TEST: 641

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-893

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Brain	Hypothalamus	Compression	Mild
[Compression TGLS = 6-1]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Hepatocyte	Basophilic Focus	Minimal
[Vacuolization Cytoplasmic TGLS = 4-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary			
Note: TGL 3-NCL			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Spleen	Lymph Follic	Atrophy	Minimal
		Pigmentation	Minimal
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 893

TRT#: 18

SEX: Female

DAY ON TEST: 641

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-893

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, Found at Retrim, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 894

TRT#: 18

SEX: Female

DAY ON TEST: 653

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-894

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 4-1]			
* Clitoral Gland	Bilateral	Inflammation	Chronic, Mild
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Granulomatous, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 5-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Periovarn Tiss	Cyst	Mild
[Cyst TGLS = 1-9]			
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 894	TRT#: 18	SEX: Female	DAY ON TEST: 653
	DOSE: 10 GAUSS INTER.	DISP: Natural Death	HISTO: 94-5216-894

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 3-3]	Pars Distalis	Adenoma	
* Salivary Glands	Duct, Sublingul GI	Metaplasia	Squamous, Mild
* Spleen		Leukemia Mononuclear	
* Thymus		Hemorrhage	Mild
* Trachea		Inflammation	Chronic, Minimal
* Uterus		Hydrometra	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 895

TRT#: 18

SEX: Female

DAY ON TEST: 575

DOSE: 10 GAUSS INTER.

DISP: Moribund Sacrifice

HISTO: 94-5216-895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Salivary Glands	Skeletal Muscle
* Skin	Spinal Cord	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Adrenal Medulla	* Pineal Gland	* Thymus
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OBSERVATIONS

* Brain	Hypothalamus	Compression	Mild
* Clitoral GI			
Note: One only available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Necrosis	Chronic, Minimal
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Mild
		Necrosis	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: TGL 3-NCL [Mixed Cell Focus TGLS = 2-14RT]			
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Mammary Gland		Cyst	Mild
	Epithelium	Hyperplasia	Minimal
		Mineralization	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Periovarn Tiss	Cyst	Moderate
[Cyst TGLS = 1-9]			
Perph Nerve			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 895	TRT#: 18	SEX: Female	DAY ON TEST: 575
	DOSE: 10 GAUSS INTER.	DISP: Moribund Sacrifice	HISTO: 94-5216-895

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Sciatic Nerve is Normal			
* Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach [Erosion TGLS = 6-15]	Epithelium	Erosion Hyperplasia	Focal, Minimal Moderate
* Stomach, Glandular [Erosion TGLS = 6-15]		Erosion	Focal, Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, Found at Trim, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 896

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-896

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-12]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
[Basophilic Focus TGLS = 5-6]		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2-13, 3-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Ovary	Rete Ovarii	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 896	TRT#: 18	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS INTER.	DISP: Terminal Sacrifice	HISTO: 94-5216-896

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Pars Distalis	Hyperplasia	Focal, Mild
* Thyroid Gland	C Cell	Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin, TGL 4-NST

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Clitoral Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 897

TRT#: 18

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-897

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic Inflammation	Mild Focal, Mild Chronic, Minimal
* Clitoral Gland Note: TGL 2-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Basophilic Focus Eosinophilic Focus Infiltration Cellular Infiltration Cellular	Mild Minimal Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland [Cyst TGLS = 1-12, 3-5, 4-13]		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary Note: TGL 5-NCL			
* Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 898

TRT#: 18

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-898

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Vacuolization Cytoplasmic	Mild Focal, Minimal Focal, Moderate
* Bone Marrow		Hyperplasia	Minimal
* Clitoral Gland		Hyperplasia Inflammation	Focal, Mild Chronic Active, Moderate
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral Bilateral Bilateral, Renal Tubule	Mineralization Nephropathy Pigmentation	Minimal Minimal Minimal
* Liver		Basophilic Focus Hepatodiaphragmatic Nodule Infiltration Cellular	Mild Mixed Cell, Minimal
	[Hepatodiaphragmatic Nodule TGLS = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
	Note: Inguinal Lymph Node Absent; Axillary Lymph Node Absent		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 898

TRT#: 18

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-898

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-12, 2-13]		Fibroadenoma	Multiple
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
	Nasolacrim Dct	Inflammation	Chronic, Mild
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[Adenoma TGLS = 6-3]			
* Spleen		Fibrosis	Mild
		Hematopoietic Cell Proliferation	Mild
[Fibrosis TGLS = 3-6]			
Vagina		Polyp	
[Polyp TGLS = 4-14]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 899

TRT#: 18

SEX: Female

DAY ON TEST: 448

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-899

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Clitoral GI			
Note: Only one of pair available for exvaluation.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Minimal
* Lung		Congestion	Mild
[Congestion TGLS = 1-7]			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Inflammation	Acute, Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
[Cyst TGLS = 2-3.1]			
* Spleen	Lymph Follic	Atrophy	Minimal
		Pigmentation	Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 899

TRT#: 18

SEX: Female

DAY ON TEST: 448

DOSE: 10 GAUSS INTER.

DISP: Natural Death

HISTO: 94-5216-899

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 900

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-900

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	Lymph Node	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Mild Focal, Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus Infiltration Cellular Necrosis	Minimal Mixed Cell, Mild Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: Axillary Lymph Node is Normal			
* Lymph Node, Mandibular		Degeneration	Cystic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi Nasolacrim Dct	Cytoplasmic Alteration Inflammation	Minimal Chronic, Minimal
* Ovary	Rete Ovarii	Hyperplasia	Minimal
Note: TGL 2-NCL			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 900

TRT#: 18

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS INTER.

DISP: Terminal Sacrifice

HISTO: 94-5216-900

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus	Endometrium	Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 901

TRT#: 10

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-901

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
		Vacuolization Cytoplasmic	Focal, Mild
* Clitoral Gland		Hyperplasia	Focal, Moderate
		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Pigmentation	Minimal
* Uterus		Hemorrhage	Mild

[Hemorrhage TGLS = 1-9]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 901

TRT#: 10

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-901

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 902

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-902

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Mild
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 903

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-903

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral, Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
	[Fibroadenoma TGLS = 1-12]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Periovarn Tiss	Cyst	Minimal
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 903	TRT#: 10 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-903
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-3]			
* Spleen	Capsule	Fibrosis Leukemia Mononuclear	Minimal
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Glandular		Erosion	Focal, Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:27

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 904

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-904

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone Marrow
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone	Femur	Hyperostosis	Moderate
	Turbinates	Hyperostosis	Minimal
Note: Fungi present in nasal exudate.			
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 5-12]			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Kidney	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Mild
[Infiltration Cellular TGLS = 3-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Fibroadenoma	
		Inflammation	Chronic, Mild
[Fibroadenoma TGLS = 1-13; 2-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Diffuse, Marked
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Skin	Dermis	Fibrosis	Focal, Mild
* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 904	TRT#: 10 DOSE: 10 GAUSS	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 735 HISTO: 94-5216-904
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ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, Found at Retrim, TGL 6-NST

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 905

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-905

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Vacuolization Cytoplasmic Adenoma	Mild Focal, Mild Focal, Moderate
* Clitoral Gland			
* Harderian Gland	Bilateral	Infiltration Cellular Cardiomyopathy Mineralization Basophilic Focus Clear Cell Focus Inflammation Mixed Cell Focus	Lymphocyte, Minimal Minimal Minimal Mild Minimal Chronic, Minimal Moderate
* Heart			
* Kidney			
* Liver			
[Mixed Cell Focus TGLS = 3-6, 5-14, 6-15]			
* Lung	Interstitium	Inflammation Infiltration Cellular Cyst Fibroadenoma	Chronic, Minimal Histiocyte, Mild Mild
* Lymph Node, Mesenteric			
* Mammary Gland			
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy Infiltration Cellular Mineralization	Focal, Minimal Lymphocyte, Minimal Minimal
* Pineal Gland			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 905	TRT#: 10 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-905
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Minimal
* Stom Gland Note: TGL 4-NCL			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 906

TRT#: 10

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-906

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Pancreas	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

Lymph Node	* Parathyroid Gland
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OBSERVATIONS

* Clitoral Gland		Adenoma	
		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: Inguinal Lymph Node is Missing			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 3-15]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Nasolacrim Dct	Inflammation	Chronic, Mild
* Ovary	Rete Ovarii	Hyperplasia	Moderate
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 906	TRT#: 10	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-906

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus Tissue NOS [Chemodectoma Benign TGLS = 2-14]	Abdominal	Atrophy Chemodectoma Benign	Minimal
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PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 2 identified grossly as Cavities is microscopically identified as occurring in Tissue NOS.

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 907

TRT#: 10

SEX: Female

DAY ON TEST: 702

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-907

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone	Femur	Hyperostosis	Mild
	Turbinates	Hyperostosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain	Hypothalamus	Compression	Minimal
		Leukemia Mononuclear	
[Compression TGLS = 7-1]			
* Clitoral GI			
Note: Only one of pair available for examination.			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-7]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-3]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 907	TRT#: 10 DOSE: 10 GAUSS	SEX: Female DISP: Natural Death	DAY ON TEST: 702 HISTO: 94-5216-907
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ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland [Fibroadenoma TGLS = 1-13,14]		Cyst Fibroadenoma	Mild Multiple
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pituitary Gland [Adenoma TGLS = 6-3]	Pars Distalis	Adenoma	
* Spleen [Leukemia Mononuclear TGLS = 2-12]		Leukemia Mononuclear	
* Thymus		Cyst	Mild
	Epithel Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 908

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-908

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Leukemia Mononuclear Vacuolization Cytoplasmic	Minimal Focal, Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver	Bile Duct	Basophilic Focus Hyperplasia Leukemia Mononuclear	Minimal Minimal
		[Leukemia Mononuclear TGLS = 4-6]	
* Lung		Leukemia Mononuclear	
		Note: TGL 2-NCL	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Rathkes Cleft	Cyst	Mild
		[Cyst TGLS = 3-3]	
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-6]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 908

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-908

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 909

TRT#: 10

SEX: Female

DAY ON TEST: 715

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-909

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
		Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland	Bilateral	Adenoma	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-7]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 909	TRT#: 10 DOSE: 10 GAUSS	SEX: Female DISP: Natural Death	DAY ON TEST: 715 HISTO: 94-5216-909
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Cavities, Abdominal, Fluid, 3.5ml, Red, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 910

TRT#: 10

SEX: Female

DAY ON TEST: 557

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-910

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

MISSING

* Clitoral Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Harderian Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney			
Note: TGL 1-NCL			
* Liver		Basophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Ovary			
Note: One of pair examined.			
* Pineal Gland		Mineralization	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Focal, Mild
[Carcinoma TGLS = 2-2]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Endometrium	Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:27

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 910

TRT#: 10

SEX: Female

DAY ON TEST: 557

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-910

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLS = 3-9]

PRIMARY CAUSE OF DEATH

- Thyroid Gland C Cell Carcinoma

Animal Note: Carcass, Thin, TGL 4-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:27

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 911

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-911

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lung | * Lymph Node, Mandibular | * Pancreas | * Parathyroid Gland |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|-------------------------------------|-------------------------|----------------------------------|---------------------|
| * Adrenal Cortex | | Hematopoietic Cell Proliferation | Minimal |
| * Bone | Femur | Hyperostosis | Marked |
| | Turbinates | Hyperostosis | Moderate |
| * Brain | | | |
| Note: TGL 4-NCL | | | |
| * Harderian Gland | Bilateral | Infiltration Cellular | Lymphocyte, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Carcinoma | |
| [Carcinoma TGLS = 5-2] | | | |
| * Kidney | Bilateral, Renal Tubule | Pigmentation | Mild |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 2-6] | | | |
| * Lymph Node, Mesenteric | | Infiltration Cellular | Histiocyte, Mild |
| * Mammary Gland | Epithelium | Hyperplasia | Mild |
| * Nose | Olfactory Epi | Cytoplasmic Alteration | Mild |
| * Ovary | Periovarn Tiss | Cyst | Minimal |
| * Pineal Gland | | Mineralization | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 3-3] | | | |
| * Salivary Glands | Parotid GI | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 911	TRT#: 10	SEX: Female	DAY ON TEST: 737
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-911

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear
* Thyroid Gland	C Cell	Adenoma
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 912

TRT#: 10

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-912

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Vacuolization Cytoplasmic	Focal, Minimal
* Bone	Femur	Hyperostosis	Mild
	Turbinates	Hyperostosis	Mild
* Brain	Hypothalamus	Compression	Mild
	[Compression TGLS = 3-1]		
* Clitoral Gland		Adenoma	
* Harderian Gland		Atrophy	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Eosinophilic Focus	Minimal
		Mixed Cell Focus	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
	[Fibroadenoma TGLS = 1-12]		
* Ovary	Rete Ovarii	Hyperplasia	Mild
* Parathyroid Gland		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 912	TRT#: 10	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-912

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-3]

* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 913

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-913

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Brain	Hypothalamus	Compression	Minimal
[Compression TGLS = 6-1]			
* Clitoral Gland		Cyst	Mild
		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
[Basophilic Focus TGLS = 4-6]			
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
		Inflammation	Chronic, Moderate
[Fibroadenoma TGLS = 1-12, 2-13, 3-14]			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 913	TRT#: 10 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-913
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ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell C Cell	Pigmentation Adenoma Hyperplasia	Mild Focal, Minimal
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PRIMARY CAUSE OF DEATH

-

Animal Note: Lesions 1, 2 and 3 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 914

TRT#: 10

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-914

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Marked
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
		Inflammation	Chronic Active, Mild
* Harderian Gland		Hyperplasia	Focal, Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Artery, Bilateral	Hypertrophy	Mild
	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Minimal
	[Alveolar/Bronchiolar Carcinoma TGLS = 4,5-12.1]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Carcinoma	
		Cyst	Mild
	[Carcinoma TGLS = 1-13]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 7-3]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 914	TRT#: 10	SEX: Female	DAY ON TEST: 739
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-914

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen Note: TGL 6-NCL			
* Thymus		Atrophy	Minimal
* Thyroid Gland [Carcinoma TGLS = 3-2]	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 4 identified grossly as Cavities is microscopically identified as occurring in Lung.

Animal Note: Carcass, Thin, TGL 2-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 915

TRT#: 10

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-915

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hematopoietic Cell Proliferation Vacuolization Cytoplasmic	Mild Minimal Focal, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Duodenum		Ectopic Tissue	Mild
Note: Ectopic pancreas present			
* Kidney	Bilateral, Renal Tubule	Accumulation, Hyaline Droplet	Mild
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Mild
[Mixed Cell Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	Multiple
[Cyst TGLS = 3-5]			
[Fibroadenoma TGLS = 1-12, 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 915	TRT#: 10 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-915
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 916	TRT#: 10	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-916

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Brain	Cerebrum	Infiltration Cellular	Lymphocyte, Minimal
* Clitoral Gland		Adenoma	
		Inflammation	Chronic, Minimal
[Adenoma TGLS = 3-13]			
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
[Adenoma TGLS = 6-2]			
* Kidney	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Mild
[Basophilic Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
Note: TGL 1-NCL			
[Fibroadenoma TGLS = 2-12]			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 5-3]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 916

TRT#: 10

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-916

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Lesion 3 identified grossly as Mammary Gland is microscopically identified as occurring in Clitoral Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:27

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 917

TRT#: 10

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-917

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex	Bilateral	Angiectasis	Minimal
		Vacuolization Cytoplasmic	Focal, Mild
* Bone	Cranium	Hyperostosis	Moderate
	Femur	Hyperostosis	Moderate
	Turbinates	Hyperostosis	Mild
Note: Fungi present in nasal exudate. [Hyperostosis TGLS = 2-12]			
* Clitoral Gland		Adenoma	
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
[Cyst TGLS = 1-5]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:27
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 917	TRT#: 10	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-917

ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Mineralization	Minimal
	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Focal, Moderate
[Adenoma TGLS = 3-3.1]		Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:28

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 918

TRT#: 10

SEX: Female

DAY ON TEST: 233

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-918

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Liver | * Lymph Node, Mandibular | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

AUTO PRECLUDES DIAG.

- * Intestine Small, Ileum

OBSERVATIONS

- | | | |
|---------------------------------------|-----------------------|---------------------|
| * Lung
[Congestion TGLS = 2-7] | Congestion | Mild |
| * Lymph Node, Mesenteric | Infiltration Cellular | Histiocyte, Minimal |
| * Pineal Gland | Mineralization | Minimal |
| * Spleen | Pigmentation | Minimal |
| * Thymus
[Hemorrhage TGLS = 1-3] | Hemorrhage | Mild |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 919

TRT#: 10

SEX: Female

DAY ON TEST: 722

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-919

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Uterus			

OBSERVATIONS

* Adrenal Cortex [Angiectasis TGLS = 6-NCL]	Bilateral	Angiectasis	Minimal
* Brain Note: TGL 7-NCL			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney [Nephropathy TGLS = 5-8]	Bilateral	Nephropathy	Mild
* Liver		Infiltration Cellular	Histiocyte, Mild
		Mixed Cell Focus	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland [Fibroadenoma TGLS = 1-13, 2-14]		Cyst	Minimal
		Fibroadenoma	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 8-3]	Pars Distalis	Adenoma	
* Spleen [Atrophy TGLS = 4-6]	Lymph Follic	Atrophy	Mild
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 919	TRT#: 10 DOSE: 10 GAUSS	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 722 HISTO: 94-5216-919
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ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Ulcer	Moderate
* Thymus		Atrophy	Minimal
* Urinary Bladder	Transit Epithe	Carcinoma	
[Carcinoma TGLS = 3-12]			

PRIMARY CAUSE OF DEATH - Urinary Bladder Transit Epithe Carcinoma

Animal Note: Carcass, Thin, Observed at Trim, TGL 9-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 920

TRT#: 10

SEX: Female

DAY ON TEST: 668

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-920

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Parathyroid Gland
* Pineal Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-8]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-5]			
Mesentery		Accessory Spleen	
[Accessory Spleen TGLS = 8-12]			
* Ovary	Periovarn Tiss	Cyst	Moderate
[Cyst TGLS = 2-9]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 920	TRT#: 10	SEX: Female	DAY ON TEST: 668
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-920

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-3]			
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Carcinoma	
Tooth	Gingiva	Inflammation	Chronic Active, Mild
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 921

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-921

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

OBSERVATIONS

* Adren Cortex			
Note: Only one of pair available for evaluation.			
* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 921	TRT#: 10 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-921
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ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Inflammation	Chronic, Mild
* Uterus	Endometrium	Cyst	Minimal
		Hydrometra	Minimal

[Hydrometra TGLS = 2-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 922

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-922

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	Mesentery	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
		Vacuolization Cytoplasmic	Focal, Mild
* Clitoral Gland		Inflammation	Chronic, Mild
Eye	Bilateral, Retina	Atrophy	Marked
	Bilateral, Lens	Cataract	Marked
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 3-6]			
* Lung		Congestion	Minimal
		Infiltration Cellular	Histiocyte, Minimal
[Congestion TGLS = 4-7]			
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Galactocele	Moderate
[Galactocele TGLS = 1-5,14]			
Mesentery			
Note: TGL 2-NCL			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 922	TRT#: 10 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-922
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Inflammation	Chronic Active, Mild
* Pituitary Gland [Adenoma TGLS = 5-3]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 923

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-923

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-13, 2-14]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-12]			
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pineal Gland		Mineralization	Minimal
* Spleen		Pigmentation	Minimal
* Thymus		Thymoma Benign	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus			
Note: TGL 3-NCL			
Note: Cervix is Normal			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 924

TRT#: 10

SEX: Female

DAY ON TEST: 673

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-924

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Pineal Gland	* Skin
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Necrosis	Moderate
		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Esophagus			
Note: Best section of tissue			
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Bilateral	Nephropathy	Mild
[Leukemia Mononuclear TGLS = 3-8]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
	Nasolacrim Dct	Inflammation	Acute, Mild
		Leukemia Mononuclear	
* Ovary	Periovarn Tiss	Cyst	Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 924

TRT#: 10

SEX: Female

DAY ON TEST: 673

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-924

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 2-9]

* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Mild
		Leukemia Mononuclear	

[Cyst TGLS = 7-3]

* Salivary Glands		Leukemia Mononuclear	
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[Leukemia Mononuclear TGLS = 1-12]

* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Ulcer	Moderate
* Stomach, Glandular		Edema	Moderate
* Thymus		Leukemia Mononuclear	

[Leukemia Mononuclear TGLS = 6-3]

* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	
	Endometrium	Polyp Stromal	

[Polyp Stromal TGLS = 5-9]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:28

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 925

TRT#: 10

SEX: Female

DAY ON TEST: 734

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-925

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hypertrophy Vacuolization Cytoplasmic	Mild Focal, Moderate Focal, Mild
* Brain [Meningioma Malignant TGLS = 4-1]	Cerebellum	Meningioma Malignant	
* Clitoral GI Note: Only one of pair available for evaluation.			
* Kidney	Bilateral, Renal Tubule	Pigmentation Basophilic Focus Infiltration Cellular Mixed Cell Focus	Minimal Minimal Mixed Cell, Minimal Minimal
* Liver [Mixed Cell Focus TGLS = 5-14]	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland [Fibroadenoma TGLS = 1-12, 2-13]		Cyst Fibroadenoma	Minimal Multiple
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Mild
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 925	TRT#: 10 DOSE: 10 GAUSS	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 734 HISTO: 94-5216-925
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-3]

* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Angiectasis	Focal, Mild

PRIMARY CAUSE OF DEATH - Brain Cerebellum Meningioma Malignant

Animal Note: Lesions 1 and 2 identified grossly as Skin are microscopically identified as occ urring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:28

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 926

TRT#: 10

SEX: Female

DAY ON TEST: 676

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-926

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Pineal Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Uterus		

MISSING

* Parathyroid Gland	* Urinary Bladder
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Diffuse, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
		Mixed Cell Focus	Minimal
Note: TGL 2-NCL [Hepatocellular Adenoma TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
Tissue NOS	Nasal	Schwannoma Malignant	

PRIMARY CAUSE OF DEATH - Tissue NOS Nasal Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 927

TRT#: 10

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-927

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Bone	Cranium	Hyperostosis	Mild
Note: Femur is Normal [Hyperostosis TGLS = 2-12]			
* Brain			
Note: TGL 3-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 928

TRT#: 10

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-928

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Ovary	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
	Bilateral	Hyperplasia	Focal, Mild
[Angiectasis TGLS = 2-3]			
* Clitoral Gland		Adenoma	
		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 1-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Inflammation	Chronic, Mild
[Inflammation TGLS = 3-3]			
* Spleen		Pigmentation	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:28

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 929

TRT#: 10

SEX: Female

DAY ON TEST: 155

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-929

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pineal Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | |
|---------------------------|--------------|-------------|
| * Liver | Angiectasis | Focal, Mild |
| * Spleen | Pigmentation | Minimal |
| * Thymus | Hemorrhage | Mild |
| [Hemorrhage TGLS = 2-3] | | |
| * Uterus | Hydrometra | Mild |
| [Hydrometra TGLS = 3-9] | | |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: Due to recording error on Individual Animal Necropsy Record there is no TGL 1.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 930

TRT#: 10

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-930

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Clear Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst Fibroadenoma	Mild
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Hypertrophy	Focal, Moderate
[Hypertrophy TGLS = 2-3]			
* Spleen		Pigmentation	Minimal
* Uterus		Hydrometra	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 931

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-931

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery		Leiomyoma	
[Leiomyoma TGLS = 2-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 931

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-931

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Cavity, Abdominal, Fluid, Red, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 932

TRT#: 10

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-932

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Small, Ileum	Peyers Patch	Hyperplasia	Lymphoid, Mild
* Liver		Basophilic Focus Infiltration Cellular Mixed Cell Focus Necrosis	Minimal Mixed Cell, Minimal Minimal Minimal
* Lung	Hepatocyte	Vacuolization Cytoplasmic Infiltration Cellular	Minimal Histiocyte, Minimal
* Mammary Gland		Cyst Fibroadenoma	Moderate Multiple
	[Fibroadenoma TGLS = 1-14, 2-12]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-3]		
* Skin	Subcut Tiss	Fibrosarcoma	
	[Fibrosarcoma TGLS = 3-13]		
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 932	TRT#: 10	SEX: Female	DAY ON TEST: 739
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-932

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Cyst	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: Axillary Lymph Node Normal; Inguinal Lymph Node Absent

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 933

TRT#: 10

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-933

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Pineal Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland		Adenoma	
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
	[Leukemia Mononuclear TGLS = 1-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Mammary Gland		Cyst	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	[Cyst TGLS = 2-3]		
* Salivary Glands	Parotid GI	Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 933

TRT#: 10

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-933

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 934

TRT#: 10

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-934

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Urinary Bladder	* Uterus

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland		Adenoma	
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyperplasia	Focal, Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Mild
[Basophilic Focus TGLS = 5-6]			
[Mixed Cell Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: Inguinal Lymph Node is Missing			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
[Cyst TGLS = 1-5]			
[Fibroadenoma TGLS = 2-12, 3-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 934	TRT#: 10 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-934
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Cyst TGLS = 6-3]	Pars Distalis	Cyst	Minimal
* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Adenoma	
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 935

TRT#: 10

SEX: Female

DAY ON TEST: 557

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-935

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Pineal Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Minimal
* Bone Marrow		Depletion Cellular	Minimal
* Brain	Hypothalamus	Compression	Marked
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen	Lymph Follic	Atrophy Pigmentation	Minimal Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 936

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-936

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

Lymph Node

OBSERVATIONS

* Adren Medulla			
Note: Only one available for evaluation.			
* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Minimal
* Brain	Cerebrum Hypothalamus	Astrocytoma Malignant Compression	Moderate
[Compression TGLS = 6-12]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral Bilateral, Renal Tubule	Nephropathy Pigmentation	Minimal Minimal
* Liver		Basophilic Focus Mixed Cell Focus	Minimal Mild
	Hepatocyte	Vacuolization Cytoplasmic Infiltration Cellular	Minimal Histiocyte, Minimal
* Lung			
Lymph Node			
Note: Axillary Lymph Node is Missing.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst Fibroadenoma	Mild Multiple
[Cyst TGLS = 2-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 936	TRT#: 10 DOSE: 10 GAUSS	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-936
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ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 3-13, 4-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Spleen		Pigmentation	Mild
* Thyroid Gland	C Cell	Adenoma	
		Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH - Brain Cerebrum Astrocytoma Malignant

Animal Note: Carcass, Thin, TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 937

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-937

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 5-1]			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Mineralization	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
[Mixed Cell Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: Inguinal and Axillary Lymph Nodes are Missing			
* Mammary Gland		Fibroadenoma	Multiple
		Galactocele	Mild
[Fibroadenoma TGLS = 2-12, 3-14]			
[Galactocele TGLS = 1-5]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 937	TRT#: 10 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-937
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-3]

* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 938

TRT#: 10

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-938

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 6-1]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
Note: Consider the renal tubular change to be an artifact			
* Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
[Vacuolization Cytoplasmic TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Galactocele	Mild
[Fibroadenoma TGLS = 1-12, 2-13]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 938	TRT#: 10	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-938

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-3]

* Stomach, Glandular	Glands	Cyst	Minimal
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Fibrosis	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin, TGL 7-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:28

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 939

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-939

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Adrenal Medulla	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Clitoral Gland		Adenoma	
		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Kidney	Pelvis	Inflammation	Chronic Active, Minimal
		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
		[Fibroadenoma TGLS = 1-12]	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 940

TRT#: 10

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Focal, Minimal
* Brain			
Note: TGL 3-NCL			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Mixed Cell Focus	Minimal
* Lung	Interstitial	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:28

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 941

TRT#: 10

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	Tongue	* Urinary Bladder	* Uterus

MISSING

* Clitoral Gland	* Parathyroid Gland
------------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Minimal Focal, Mild
* Brain [Compression TGLS = 7-1]	Hypothalamus	Compression	Moderate
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver [Basophilic Focus TGLS = 9-6,16]		Basophilic Focus Eosinophilic Focus Infiltration Cellular Necrosis	Mild Mild Mixed Cell, Mild Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland [Fibroadenoma TGLS = 1-12; 2-13; 3-14; 4-15]		Cyst Fibroadenoma	Mild Multiple
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary [Cyst TGLS = 5-9]	Periovarn Tiss	Cyst	Moderate
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 941	TRT#: 10	SEX: Female	DAY ON TEST: 739
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-941

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 6-3]

* Skin			
Note: See slide 13 and 14 for tissue.			
* Spleen		Leukemia Mononuclear	
* Stomach, Glandular		Fibrosis	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	
Tongue			
Note: TGL 8-NCL			
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesions 1, 2 and 4 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 942

TRT#: 10

SEX: Female

DAY ON TEST: 729

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-942

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Ovary	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Brain [Compression TGLS = 5-1]	Hypothalamus	Compression	Moderate
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland [Fibroadenoma TGLS = 1-12, 3-13]		Cyst	Mild
		Fibroadenoma	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland [Adenoma TGLS = 2-3]	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hydrometra	Mild
		Polyp Stromal	
[Polyp Stromal TGLS = 4-9]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Carcass, Thin, Observed, TGL 6-NST

Animal Note: Lesions 1 and 3 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:28

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 943

TRT#: 10

SEX: Female

DAY ON TEST: 533

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-943

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Clitoral Gland			
Note: TGL 2-NCL			
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland		Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 944

TRT#: 10

SEX: Female

DAY ON TEST: 683

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-944

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Pancreas	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

Mesentery	* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Diffuse, Mild
* Bone Marrow		Hyperplasia	Mild
* Harderian GI			
Note: Only one of pair available for evaluation.			
* Intestine Large, Colon		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 3-12]			
* Intestine Large, Rectum		Inflammation	Chronic Active, Marked
* Kidney	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Infiltration Cellular	Histiocyte, Minimal
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Vacuolization Cytoplasmic TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
		Galactocele	Moderate
[Fibroadenoma TGLS = 5-12]			
[Galactocele TGLS = 6-13]			
Mesentery			
Note: TGL 6-NST			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 944	TRT#: 10 DOSE: 10 GAUSS	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 683 HISTO: 94-5216-944
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis Pars Intermed	Adenoma Hyperplasia	Focal, Moderate
* Spleen [Atrophy TGLS = 1-6]	Lymph Follic	Atrophy	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Intestine Large, Colon Inflammation

Animal Note: Lesion 5 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 945

TRT#: 10

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-945

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Adrenal Medulla

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
		Hypertrophy	Focal, Moderate
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
	[Cataract TGLS = 4-15]		
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Moderate
	[Mixed Cell Focus TGLS = 6-16]		
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1-12, 2-13]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 3-14]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-3]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 945	TRT#: 10 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-945
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesions 1 and 2 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 946

TRT#: 10

SEX: Female

DAY ON TEST: 394

DOSE: 10 GAUSS

DISP: Other

HISTO: 94-5216-946

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Minimal
		Hematopoietic Cell Proliferation	Minimal
Note: TGL 2-NCL			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Minimal
* Uterus	Endometrium	Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 947

TRT#: 10

SEX: Female

DAY ON TEST: 690

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-947

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone	Femur	Hyperostosis	Marked
	Turbinates	Hyperostosis	Mild
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
[Mixed Cell Focus TGLS = 3-13]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Moderate
* Pineal Gland		Mineralization	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 947

TRT#: 10

SEX: Female

DAY ON TEST: 690

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-947

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Lesion 1 identified grossly as Tissue NOS is microscopically identified as occur ring in Mammary Gland.

Animal Note: Carcass, Thin, Observed, TGL 2-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 948

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-948

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	Vagina

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Marked
* Bone	Femur	Hyperostosis	Moderate
* Bone Marrow		Leukemia Granulocytic	
* Brain			
Note: TGL 10-NCL			
* Clitoral Gland		Adenoma	
Eye	Retina	Atrophy	Mild
	Lens	Cataract	Moderate
Note: TGL 8-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral, Renal Tubule	Degeneration	Marked
* Liver		Fibrosis	Moderate
	Bile Duct	Hyperplasia	Moderate
		Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 6,7-6]			
* Lung		Leukemia Granulocytic	
Lymph Node	Renal	Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 5-13]			
* Lymph Node, Mandibular		Leukemia Granulocytic	
* Lymph Node, Mesenteric		Angiectasis	Minimal
		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 948	TRT#: 10	SEX: Female	DAY ON TEST: 737
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-948

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-12]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Focal, Mild
[Adenoma TGLS = 9-3]			
* Spleen		Leukemia Granulocytic	
Note: TGL 11-NCL			
[Leukemia Granulocytic TGLS = 3-6]			
* Stomach, Forestomach		Ulcer	Marked
[Ulcer TGLS = 12-4]			
* Thymus		Leukemia Granulocytic	
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Pigmentation	Mild
Note: The lumen contains hemolyzed red cells.			
Vagina			
Note: TGL 2-NCL			

PRIMARY CAUSE OF DEATH -

Animal Note: Carcass, Thin, Found at trim, TGL 13-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 949

TRT#: 10

SEX: Female

DAY ON TEST: 651

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-949

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-12]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Duct	Hyperplasia	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
* Thymus		Hemorrhage	Minimal

PRIMARY CAUSE OF DEATH - Clitoral Gland Adenoma

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Clitoral Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 950

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-950

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
Lymph Node	* Ovary	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Brain			
Note: TGL 5-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
Lymph Node			
Note: (L2 not a lesion only normal appearing regional lymph node). Axillary Lymph Node is Normal.			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 3-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 950

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-950

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Lesions 1 and 3 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 951

TRT#: 20

SEX: Female

DAY ON TEST: 545

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-951

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Liver		Basophilic Focus	Minimal
* Lung [Congestion TGLS = 1-7]		Congestion	Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Mild
		Hemorrhage	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 952

TRT#: 20

SEX: Female

DAY ON TEST: 704

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-952

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Adenoma	
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 953

TRT#: 20

SEX: Female

DAY ON TEST: 726

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-953

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mesenteric

OBSERVATIONS

* Brain	Cerebrum	Astrocytoma Malignant	
[Astrocytoma Malignant TGLS = 9-1]			
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Marked
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Moderate
		Mixed Cell Focus	Marked
		Necrosis	Moderate
[Basophilic Focus TGLS = 5-6,12]			
[Mixed Cell Focus TGLS = 4-6, 6-12, 7-6, 8-12]			
* Lung	Interstitium	Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Periovarn Tiss	Cyst	Moderate
[Cyst TGLS = 3-9]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:28

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 953

TRT#: 20

SEX: Female

DAY ON TEST: 726

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-953

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

* Thymus

Atrophy

Mild

* Trachea

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

- Brain Cerebrum Astrocytoma Malignant

Animal Note: Cavities, Abdominal, Fluid, Red, TGL 2-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 954

TRT#: 20

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-954

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Pineal Gland	* Salivary Glands
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Vacuolization Cytoplasmic Pheochromocytoma Benign	Mild Focal, Marked Focal, Minimal
* Adrenal Medulla			
* Bone	Femur	Hyperostosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral GI			
Note: Only One Clitoral Gland Examined			
* Harderian Gland		Atrophy	Focal, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral, Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
		Galactocele	Moderate
[Fibroadenoma TGLS = 1-12, 2-13, 3-14]			
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 954	TRT#: 20	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-954

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-3]

* Skin		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 955

TRT#: 20

SEX: Female

DAY ON TEST: 549

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-955

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
* Lung		Congestion	Minimal
[Congestion TGLS = 2-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:28

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 956

TRT#: 20

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-956

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 2-1]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Mild
[Eosinophilic Focus TGLS = 3-12]			
[Mixed Cell Focus TGLS = 3-12; 4-13]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Moderate
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 1-3]			
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 957

TRT#: 20

SEX: Female

DAY ON TEST: 649

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-957

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Pineal Gland	* Pituitary Gland
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Mild
[Mixed Cell Focus TGLS = 4-14]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 3-12]			
* Ovary	Periovarn Tiss	Cyst	Moderate
[Cyst TGLS = 1-9]			
* Pituitary Gl			
Note: TGL 2-NST			
* Spleen		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 958

TRT#: 20

SEX: Female

DAY ON TEST: 129

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-958

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow	Depletion Cellular	Mild
* Liver	Necrosis	Minimal
* Lung	Congestion	Mild
* Lymph Node, Mandibular [Congestion TGLS = 1-2]	Congestion	Mild
* Spleen	Pigmentation	Minimal
* Thymus	Hemorrhage	Minimal
* Uterus	Hydrometra	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 959 **TRT#:** 20 **SEX:** Female **DAY ON TEST:** 737
DOSE: 10 GAUSS **DISP:** Terminal Sacrifice **HISTO:** 94-5216-959

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Brain			
Note: TGL 3-NCL			
* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Small, Ileum	Peyers Patch	Hyperplasia	Lymphoid, Mild
* Kidney	Bilateral	Mineralization	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Mixed Cell Focus	Minimal
[Eosinophilic Focus TGLS = 6-14]			
[Mixed Cell Focus TGLS = 5-13]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Cyst TGLS = 2-12]			
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary		Tubulostromal Adenoma	
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 959

TRT#: 20

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-959

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-3]

* Spleen		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus	Epithel Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 960

TRT#: 20

SEX: Female

DAY ON TEST: 667

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-960

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex		Leukemia Mononuclear	
Note: Only one of pair available for evaluation.			
* Bone	Femur	Hyperostosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 960	TRT#: 20 DOSE: 10 GAUSS	SEX: Female DISP: Natural Death	DAY ON TEST: 667 HISTO: 94-5216-960
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Cyst Leukemia Mononuclear	Mild
* Spleen [Leukemia Mononuclear TGLS = 2-6]		Leukemia Mononuclear	
* Trachea		Inflammation	Chronic, Minimal
* Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 961

TRT#: 20

SEX: Female

DAY ON TEST: 522

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-961

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Bone Marrow		Depletion Cellular	Minimal
* Brain	Hypothalamus	Compression	Marked
[Compression TGLS = 4-1]			
* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Kidney	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
	Epithelium	Hyperplasia	Mild
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas			
Note: TGL 2-NCL			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland		Ultimobranchial Cyst	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 961

TRT#: 20

SEX: Female

DAY ON TEST: 522

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-961

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Carcass, Thin, TGL 5-NST

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 962

TRT#: 20

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-962

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	Lymph Node	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Brain			
Note: TFL 4-NCL			
* Clitoral Gland		Hyperplasia	Focal, Moderate
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: Inguinal Lymph Node is Normal.			
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
		Galactocele	Moderate
[Fibroadenoma TGLS = 1-12]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 962	TRT#: 20 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 739 HISTO: 94-5216-962
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear Pigmentation	Mild
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus	Epithel Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked
* Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 1 identified grossly as Skin is microscopically identified as occurring i n Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 963

TRT#: 20

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-963

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

Lymph Node	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Leukemia Mononuclear	Mild
* Clitoral Gland		Adenoma	
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus Hepatodiaphragmatic Nodule Leukemia Mononuclear	Minimal
		[Hepatodiaphragmatic Nodule TGLS = 2-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst Fibroadenoma	Mild
		Note: Inguinal Lymph Node is Missing [Fibroadenoma TGLS = 1-12]	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst	Minimal Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 963	TRT#: 20 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-963
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 964

TRT#: 20

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-964

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Mild
* Clitoral Gland		Hyperplasia	Focal, Mild
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus Infiltration Cellular Mixed Cell Focus	Moderate Mixed Cell, Minimal Mild
[Mixed Cell Focus TGLS = 3-13]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst Fibroadenoma	Minimal
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[Cyst TGLS = 5-3]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 964

TRT#: 20

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-964

ORGAN AND ACCOUNTABLE SITE STATUS

Tongue [Hyperplasia TGLS = 4-13]	Epithelium	Hyperplasia	Focal, Mild
* Uterus [Polyp Stromal TGLS = 2-9]	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:28

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 965

TRT#: 20

SEX: Female

DAY ON TEST: 366

DOSE: 10 GAUSS

DISP: Other

HISTO: 94-5216-965

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Brain | * Esophagus | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lymph Node, Mandibular | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pineal Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|--------------------------|---|----------------------------------|--------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Clitoral Gland | | Inflammation | Chronic, Minimal |
| * Harderian Gland | | Inflammation | Chronic, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | Minimal |
| | Hepatocyte | Hematopoietic Cell Proliferation | Mild |
| | [Vacuolization Cytoplasmic TGLS = 3-6] | Vacuolization Cytoplasmic | Mild |
| * Lung | | Infiltration Cellular | Lymphocyte, Minimal |
| * Lymph Node, Mesenteric | | Infiltration Cellular | Histiocyte, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| | [Hematopoietic Cell Proliferation TGLS = 2-6] | | |
| * Uterus | Endometrium | Inflammation | Chronic Active, Moderate |
| | [Inflammation TGLS = 1-12] | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 966

TRT#: 20

SEX: Female

DAY ON TEST: 634

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-966

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Kidney	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Brain			
Note: TGL 4-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
Note: TGL 5-NCL			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
Note: TGL 1-NCL			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 2-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Mild
Note: Fungi present in nasal exudate.			
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 966

TRT#: 20

SEX: Female

DAY ON TEST: 634

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-966

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-3]

* Spleen

Pigmentation

Mild

* Thymus

Atrophy

Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 967

TRT#: 20

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-967

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	Lacrimal Gland	* Lymph Node, Mandibular
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic Inflammation	Mild Focal, Minimal Chronic Active, Minimal
* Clitoral Gland Note: TGL 4-NCL			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart Lacrimal GI Note: TGL 8-NCL		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland [Cyst TGLS = 1-12, 2-13, 3-5]		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary Note: TGL 6-NCL [Cyst TGLS = 5-9]	Follicle	Cyst	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Thymus	Epithel Cell	Hyperplasia	Minimal
* Uterus [Hemorrhage TGLS = 7-9]		Hemorrhage	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:28

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 968

TRT#: 20

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-968

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Nose	* Ovary	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gl			
Note: Only one available for evaluation.			
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Mild
		[Eosinophilic Focus TGLS = 4-6]	
		[Mixed Cell Focus TGLS = 3-6]	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
		[Fibroadenoma TGLS = 1-12, 5-9]	
* Ovary			
Note: TGL 2-NCL			
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Parathyroid Gland		Hyperplasia	Focal, Marked
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 968

TRT#: 20

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-968

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 5 identified grossly as Clitoral Gland is microscopically identified as occurring in Mammary Gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:28

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 969

TRT#: 20

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-969

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	Lacrimal Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland		Hyperplasia	Focal, Moderate
Note: Only one available for evaluation.			
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
Lacrimal GI			
Note: TGL 8-NCL			
* Liver		Angiectasis	Focal, Mild
		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
		Mixed Cell Focus	Marked
[Basophilic Focus TGLS = 4-6,12]			
[Eosinophilic Focus TGLS = 3-12]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
[Cyst TGLS = 1-5]			
[Fibroadenoma TGLS = 2-13, 7-15]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 5-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 969	TRT#: 20 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-969
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary Note: TGL 6-NCL	Rete Ovarii	Hyperplasia	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 9-3]	Pars Distalis Pars Distalis	Adenoma Cyst	Mild
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 970

TRT#: 20

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-970

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Bone	Femur	Hyperostosis	Marked
	Turbinates	Hyperostosis	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 2-12]	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Trachea		Inflammation	Chronic, Minimal
* Uterus	Cervix	Inflammation	Chronic Active, Moderate
		[Inflammation TGLS = 1-12]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 970

TRT#: 20

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-970

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 971

TRT#: 20

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-971

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Bone	Femur	Hyperostosis	Mild
* Bone Marrow		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
[Nephropathy TGLS = 2-8]			
* Liver		Basophilic Focus	Moderate
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
[Hepatodiaphragmatic Nodule TGLS = 7-14]			
[Mixed Cell Focus TGLS = 3-6]			
* Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
[Hemorrhage TGLS = 5-7]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Ovary	Bilateral, Rete Ovarii	Hyperplasia	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 971	TRT#: 20 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-971
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
[Cyst TGLS = 6-3]			
* Spleen		Pigmentation	Minimal
* Stomach, Forestomach		Squamous Cell Papilloma	
* Thymus		Atrophy	Minimal
* Thyroid Gland			
Note: TGL 4-NCL			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 972

TRT#: 20

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-972

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Minimal
* Harderian Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus Clear Cell Focus Hepatodiaphragmatic Nodule Mixed Cell Focus	Mild Minimal Minimal
		[Hepatodiaphragmatic Nodule TGLS = 3-6]	
		[Mixed Cell Focus TGLS = 5-13]	
* Lung		Infiltration Cellular Infiltration Cellular	Lymphocyte, Minimal Histiocyte, Minimal
Lymph Node			
Note: Inguinal Lymph Node is Missing			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst Fibroadenoma	Minimal
		[Fibroadenoma TGLS = 1-12]	
* Ovary	Periovarn Tiss	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 972	TRT#: 20 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-972
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ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 2-9]	Bilateral	Inflammation	Chronic, Moderate
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
[Cyst TGLS = 4-3]			
* Spleen		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 973	TRT#: 20	SEX: Female	DAY ON TEST: 739
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-973

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia	Minimal Focal, Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Mineralization Nephropathy	Minimal Minimal
* Liver		Angiectasis Basophilic Focus Infiltration Cellular	Focal, Minimal Mild Mixed Cell, Minimal
* Lung	Interstitial	Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13, 4-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary			
Note: TGL 3-NCL			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Minimal Focal, Minimal
[Hyperplasia TGLS = 6-3]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 5-15]			
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 973

TRT#: 20

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-973

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:28

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 974

TRT#: 20

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-974

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Trachea	* Uterus		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Minimal Focal, Minimal
[Angiectasis TGLS = 5-3]			
* Bone	Femur	Hyperostosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain	Hypothalamus	Compression	Marked
[Compression TGLS = 8-1]			
* Clitoral Gland		Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Mineralization	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Minimal
[Leukemia Mononuclear TGLS = 6-6]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 974	TRT#: 20	SEX: Female	DAY ON TEST: 739
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-974

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 2-12, 3-13]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Stomach, Forestomach		Edema	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin TGL 1-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 975

TRT#: 20

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-975

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	Lacrimal Gland
* Lymph Node, Mandibular	* Ovary	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Bone Marrow		Hyperplasia	Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
Lacrimal GI			
Note: TGL 5-NCL			
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Mixed Cell Focus	Moderate
[Mixed Cell Focus TGLS = 3-6,13]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
[Cyst TGLS = 2-12]			
[Fibroadenoma TGLS = 4-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary			
Note: TGL 1-NCL			
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 975

TRT#: 20

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-975

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin TGL 6-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 976

TRT#: 20

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-976

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	Lymph Node	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Uterus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Brain			
Note: TGL 6-NCL			
* Clitoral Gland		Inflammation	Chronic, Mild
* Harderian Gland		Atrophy	Focal, Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Moderate
[Mixed Cell Focus TGLS = 5-6; 8-16]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: Inguinal Lymph Node is missing			
Note: Axillary Lymph Node is Normal			
* Lymph Node, Mandibular		Degeneration	Cystic, Moderate
[Degeneration TGLS = 3-2.1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Moderate
		Fibroadenoma	
[Cyst TGLS = 2-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 976	TRT#: 20 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: 94-5216-976
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ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-12] Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-14] * Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland [Adenoma TGLS = 7-3]	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
* Urinary Bladder		Edema	Mild
		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 977

TRT#: 20

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-977

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone	Cranium	Hyperostosis	Mild
Note: Femur is Normal [Hyperostosis TGLS = 3-12]			
* Clitoral Gland		Inflammation	Chronic Active, Moderate
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary			
Note: TGL 2-NCL			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
* Salivary Glands	Submandibul GI	Infiltration Cellular	Lymphocyte, Minimal
* Spleen		Pigmentation	Mild
* Uterus	Endometrium	Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 977

TRT#: 20

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-977

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLS = 1-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 978

TRT#: 20

SEX: Female

DAY ON TEST: 696

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-978

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Pancreas
* Parathyroid Gland	Peripheral Nerve	Skeletal Muscle	* Skin
Spinal Cord	* Trachea	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Infarct	Mild
	Bilateral	Nephropathy	Mild
	Bilateral, Renal Tubule	Pigmentation	Minimal
[Infarct TGLS = 2-8]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
Perph Nerve			
Note: Sciatic Nerve is Normal			
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Moderate
[Hyperplasia TGLS = 4-3.1]			
* Salivary Glands	Parotid GI	Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 978	TRT#: 20	SEX: Female	DAY ON TEST: 696
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-978

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Moderate
* Stomach, Glandular [Erosion TGLS = 5-13]		Erosion	Focal, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 979

TRT#: 20

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-979

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: Inguinal Lymph Node is missing			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 979	TRT#: 20	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-979

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 980

TRT#: 20

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-980

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Urinary Bladder

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Brain			
Note: TGL 3-NCL			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	Mild
[Hepatodiaphragmatic Nodule TGLS = 4-13]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Follicle	Cyst	Moderate
[Cyst TGLS = 1-12]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Pigmentation	Mild
* Trachea		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 980

TRT#: 20

SEX: Female

DAY ON TEST: 737

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-980

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 981

TRT#: 20

SEX: Female

DAY ON TEST: 409

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-981

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Parathyroid Gland	* Pineal Gland	Tooth
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OBSERVATIONS

Eye [Inflammation TGLS = 2-13]	Cornea	Inflammation	Chronic Active, Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney [Degeneration TGLS = 3-8]	Bilateral, Renal Tubule Bilateral, Renal Tubule	Degeneration Pigmentation	Moderate Minimal
* Liver [Vacuolization Cytoplasmic TGLS = 4-6]	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung		Carcinoma	Metastatic (Zymbal'S Gland)
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi Respirat Epith Nasolacrim Dct	Cytoplasmic Alteration Cytoplasmic Alteration Inflammation	Mild Minimal Acute, Moderate
* Pituitary Gland [Cyst TGLS = 1-3]	Pars Distalis Rathkes Cleft	Cyst Cyst	Mild Moderate
* Spleen		Pigmentation	Moderate
* Thymus		Atrophy	Moderate
Tooth			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 981

TRT#: 20

SEX: Female

DAY ON TEST: 409

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-981

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 5-NST

Zymbal's Gland

[Carcinoma TGLS = 7-12]

Carcinoma

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

Animal Note: Due to recording error on Individual Animal Necropsy Record there is no TGL 6.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 982	TRT#: 20	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-982

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Vacuolization Cytoplasmic	Mild Focal, Minimal
* Bone	Femur Turbinate	Hyperostosis Hyperostosis	Mild Mild
Eye [Atrophy TGLS = 7-12]		Atrophy	Marked
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
Lacrimal Gland Note: TGL 6-NCL		Inflammation	Chronic, Minimal
* Liver [Basophilic Focus TGLS = 4-6]		Basophilic Focus Eosinophilic Focus	Mild Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland [Fibroadenoma TGLS = 1-14, 2-15]		Cyst Fibroadenoma	Mild Multiple
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary Note: TGL 3-NCL	Rete Ovarii	Hyperplasia	Minimal
* Pineal Gland		Mineralization	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 982	TRT#: 20 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-982
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Hyperplasia TGLS = 8-3]	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

Animal Note: Carcass, Thin, TGL 5-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 983

TRT#: 20

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-983

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Intestine Large, Rectum	Lymph Node
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis Hyperplasia Leukemia Mononuclear	Mild Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Bone	Femur	Hyperostosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus Clear Cell Focus	Mild Minimal
	Bile Duct	Hyperplasia Leukemia Mononuclear	Minimal
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: Inguinal Lymph Node is Missing			
* Lymph Node, Mandibular		Degeneration	Cystic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 983	TRT#: 20	SEX: Female	DAY ON TEST: 739
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-983

ORGAN AND ACCOUNTABLE SITE STATUS

		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal
* Pituitary Gl			
Note: TGL 4-NCL			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Hydrometra	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 984

TRT#: 20

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-984

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Bone	Femur	Hyperostosis	Moderate
	Turbinates	Hyperostosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-7]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary	Follicle	Cyst	Moderate
	Rete Ovarii	Hyperplasia	Mild
	[Cyst TGLS = 2-12]		
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
	[Hyperplasia TGLS = 5-3]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 984	TRT#: 20	SEX: Female	DAY ON TEST: 738
	DOSE: 10 GAUSS	DISP: Terminal Sacrifice	HISTO: 94-5216-984

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Stomach, Forestomach		Edema	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Diffuse, Mild

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 985

TRT#: 20

SEX: Female

DAY ON TEST: 717

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-985

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Clitoral Gland	* Intestine Small, Ileum
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	Minimal
		[Hepatodiaphragmatic Nodule TGLS = 5-14]	
		[Mixed Cell Focus TGLS = 4-6]	
* Lung			
Note: TGL 6-NCL			
Lymph Node	Mediastinal	Hemorrhage	Mild
		[Hemorrhage TGLS = 8-3]	
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
		[Fibroadenoma TGLS = 1-12, 2-13]	
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 985	TRT#: 20 DOSE: 10 GAUSS	SEX: Female DISP: Natural Death	DAY ON TEST: 717 HISTO: 94-5216-985
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 7-3]	Pars Distalis	Adenoma	
* Thymus		Atrophy	Minimal
* Uterus Note: TGL 3-NCL			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Lesions 1 and 2 identified grossly as Skin are microscopically identified as occurring in Mammary Gland.

Animal Note: Lesion 5 identified grossly as Cavity is microscopically identified as occurring in Liver.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 986

TRT#: 20

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-986

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	Lymph Node	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Pineal Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Hyperplasia Vacuolization Cytoplasmic	Focal, Mild Focal, Mild
* Bone Note: Femur is Normal [Hyperostosis TGLS = 7-15]	Cranium	Hyperostosis	Moderate
* Bone Marrow		Hyperplasia	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver [Mixed Cell Focus TGLS = 5-6]	Hepatocyte	Clear Cell Focus Mixed Cell Focus Vacuolization Cytoplasmic	Minimal Minimal Mild
* Lung Lymph Node Note: Axillary Lymph Node is Normal	Alveolar Epith	Hyperplasia	Focal, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland [Cyst TGLS = 1-5, 3-14]		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Ovary Note: TGL 6-NCL			
* Pituitary Gland	Pars Distalis	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 986	TRT#: 20 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-986
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ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 8-3]			
* Salivary Glands	Sublingual GI	Atrophy	Mild
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 2-12]			
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 4-6]			
* Thymus		Atrophy	Mild
* Thyroid Gland	Bilateral, C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

Animal Note: Lesion 2 identified grossly as Mammary Gland is microscopically identified as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:28

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 987

TRT#: 20

SEX: Female

DAY ON TEST: 701

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-987

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Leukemia Mononuclear	
* Kidney	Bilateral, Renal Tubule	Accumulation, Hyaline Droplet	Mild
	Bilateral, Renal Tubule	Leukemia Mononuclear	
* Liver	Bile Duct	Pigmentation	Mild
		Hyperplasia	Mild
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2-6]	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-5]	
* Mammary Gland		Cyst	Minimal
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
		Inflammation	Chronic, Minimal
* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 987	TRT#: 20	SEX: Female	DAY ON TEST: 701
	DOSE: 10 GAUSS	DISP: Moribund Sacrifice	HISTO: 94-5216-987

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-6]

* Stomach, Glandular		Erosion	Focal, Minimal
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed at Trim, TGL 4-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 988

TRT#: 20

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-988

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Pineal Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
		Vacuolization Cytoplasmic	Focal, Mild
* Clitoral Gland		Inflammation	Chronic Active, Mild
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	Minimal
		Tension Lipidosis	Focal, Mild
	[Tension Lipidosis TGLS = 5-6]		
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Cyst	Mild
		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1-12, 2-13, 3-14]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 6-3]		
* Skin	Epidermis, Lip	Hyperplasia	Focal, Marked
	[Hyperplasia TGLS = 7-16]		
* Spleen		Pigmentation	Mild
Vagina		Leiomyoma	
	[Leiomyoma TGLS = 4-15]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 989

TRT#: 20

SEX: Female

DAY ON TEST: 606

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-989

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Adrenal Medulla	* Pineal Gland
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OBSERVATIONS

* Adren Cortex			
Note: Only one of pair available for evaluation.			
* Brain	Hypothalamus	Compression	Moderate
[Compression TGLS = 2-1]			
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Mild
* Ovary	Follicle	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Pigmentation	Moderate
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 990

TRT#: 20

SEX: Female

DAY ON TEST: 650

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-990

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone Marrow		Depletion Cellular	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
		Fibroadenoma	
		Mineralization	Minimal
* Pineal Gland		Pigmentation	Mild
* Spleen			
* Uterus	Endometrium	Polyp Stromal	

[Fibroadenoma TGLS = 2-12]

Note: The stromal polyp was located in one of the uterine horns. The Cervix appears normal.

Note: TGL 1-NCL

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:28

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 991

TRT#: 20

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-991

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	Lymph Node	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[Cataract TGLS = 1-13]			
* Harderian Gland	Bilateral	Infiltration Cellular	Lymphocyte, Minimal
* Int Sm Jejunum			
Note: See slide 5			
* Kidney	Bilateral	Mineralization	Minimal
	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Note: TGL 4-NCL			
Lymph Node			
Note: Axillary Lymph Node is Normal.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 6-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pineal Gland		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 991	TRT#: 20 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-991
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Pigmentation TGLS = 5-3]	Pars Distalis	Pigmentation	Mild
* Spleen		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Minimal
* Uterus [Fibrosis TGLS = 2-14]	Endometrium	Fibrosis	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 992

TRT#: 20

SEX: Female

DAY ON TEST: 579

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney			
Note: TGL 4-NCL			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Note: TGL 1-NCL			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
* Mammary Gland		Cyst	Mild
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
Note: TGL 9-NCL			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 992	TRT#: 20 DOSE: 10 GAUSS	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 579 HISTO: 94-5216-992
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ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular	Glands	Cyst Erosion	Minimal Focal, Minimal
* Thyroid Gland	Follicle	Cyst	Minimal
* Uterus	Endometrium	Hydrometra Polyp Stromal	Mild

[Hydrometra TGLS = 2-12]
[Polyp Stromal TGLS = 3-9]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Carcass, Thin, Observed, TGL 10-NST

Animal Note: Due to recording error on Individual Animal Necropsy Record, there is no TGL 8.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:28

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 993

TRT#: 20

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-993

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Blood Vessel | * Bone | * Bone Marrow |
| * Esophagus | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- | | |
|------------------|------------|
| * Clitoral Gland | Lymph Node |
|------------------|------------|

OBSERVATIONS

- | | | | |
|---|--------------|--|---------------------------------------|
| * Adrenal Cortex | | Hyperplasia
Vacuolization Cytoplasmic | Focal, Mild
Focal, Moderate |
| * Brain | Hypothalamus | Compression | Mild |
| [Compression TGLS = 8-1] | | | |
| * Clitoral GI | | | |
| Note: Tissue Submitted Represents Mammary Gland Carcinoma | | | |
| * Harderian Gland | Bilateral | Hyperplasia
Infiltration Cellular | Focal, Minimal
Lymphocyte, Minimal |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | Renal Tubule | Adenoma | |
| | Bilateral | Mineralization | Minimal |
| * Liver | | Nephropathy | Minimal |
| | | Basophilic Focus | Mild |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | | Mixed Cell Focus | Marked |
| [Mixed Cell Focus TGLS = 6-6] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Infiltration Cellular | Lymphocyte, Minimal |
| Lymph Node | | | |
| Note: Axillary Lymph Node is missing | | | |
| Note: Inguinal Lymph Node is normal | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 993

TRT#: 20

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-993

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Carcinoma	Multiple
		Cyst	Moderate
		Fibroadenoma	Multiple
[Carcinoma TGLS = 3-14, 4-9]			
[Fibroadenoma TGLS = 1-12, 2-13]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 5-15]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Mild
* Pancreas	Acinus	Adenoma	
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
		Erosion	Focal, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05

Test Type: CHRONIC

Route: MAGNETIC FIELDS

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/19/2014

Time Report Requested: 14:06:28

First Dose M/F: NA / NA

Lab: IIT

ANIMAL ID: 994

TRT#: 20

SEX: Female

DAY ON TEST: 427

DOSE: 10 GAUSS

DISP: Natural Death

HISTO: 94-5216-994

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	Larynx	* Liver	* Mammary Gland
* Ovary	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

- * Parathyroid Gland

OBSERVATIONS

* Clitoral GI			
Note: Only one of pair available for evaluation.			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
Larynx			
Note: TGL 1-NCL			
* Lung		Congestion	Mild
* Lymph Node, Mandibular		Congestion	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Respirat Epith	Cytoplasmic Alteration	Mild
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pineal Gland		Mineralization	Minimal
* Spleen		Pigmentation	Mild
* Thymus		Hemorrhage	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 995

TRT#: 20

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-995

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Pancreas	* Pineal Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Bone	Femur	Hyperostosis	Moderate
* Clitoral Gland	Bilateral	Inflammation	Chronic, Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
	Bilateral, Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Mixed Cell Focus	Minimal
[Basophilic Focus TGLS = 2-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 1-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
	Respirat Epith	Cytoplasmic Alteration	Minimal
* Ovary	Rete Ovarii	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
[Adenoma TGLS = 3-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 995	TRT#: 20 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-995
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 996 **TRT#:** 20 **SEX:** Female **DAY ON TEST:** 485
DOSE: 10 GAUSS **DISP:** Moribund Sacrifice **HISTO:** 94-5216-996

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adren Cortex			
Note: Only one of pair available for evaluation.			
* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Bone Marrow		Hyperplasia	Minimal
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Bilateral, Renal Tubule	Dilatation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-2,2.1]			
* Nose	Respirat Epith	Cytoplasmic Alteration	Minimal
* Pancreas			
Note: See slide 5 for organ.			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 996

TRT#: 20

SEX: Female

DAY ON TEST: 485

DOSE: 10 GAUSS

DISP: Moribund Sacrifice

HISTO: 94-5216-996

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLS = 1-12]

PRIMARY CAUSE OF DEATH

- Uterus Endometrium Polyp Stromal

Animal Note: Lesion 2 identified grossly as Pancreas is microscopically identified as occurring in Mesentery.

Animal Note: Carcass, Thin, Not Observed at Trim, TGL 3-NST

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 997

TRT#: 20

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-997

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

Lymph Node

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
* Bone	Cranium	Hyperostosis	Mild
	Femur	Hyperostosis	Mild
	Turbinates	Hyperostosis	Mild
	[Hyperostosis TGLS = 5-15]		
* Clitoral Gland		Inflammation	Chronic, Mild
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Minimal
		Mixed Cell Focus	Mild
* Lung		Emphysema	Moderate
		Infiltration Cellular	Histiocyte, Minimal
	[Emphysema TGLS = 4-16]		
Lymph Node			
Note: Inguinal Lymph Node is Missing			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
	[Fibroadenoma TGLS = 1-12]		
* Nose	Olfactory Epi	Cytoplasmic Alteration	Mild
	Respirat Epith	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 997	TRT#: 20 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-997
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Diffuse, Mild
* Pineal Gland		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin	Subcut Tiss	Schwannoma Malignant	
[Schwannoma Malignant TGLS = 2-14]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus			
Note: TGL 3-NCL			

PRIMARY CAUSE OF DEATH -

Animal Note: Lesion 2 identified grossly as Mammary Gland is microscopically identified as occurring in Skin.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 998

TRT#: 20

SEX: Female

DAY ON TEST: 739

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-998

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	Lymph Node	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Pineal Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adren Medulla			
Note: Only one of pair available for evaluation.			
* Adrenal Cortex	Bilateral	Angiectasis	Mild
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: Axillary Lymph Node is Normal			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-12, 2-13, 3-14]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 999

TRT#: 20

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-999

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Bilateral	Angiectasis	Minimal
	Bilateral	Vacuolization Cytoplasmic	Focal, Mild
* Bone	Femur	Hyperostosis	Moderate
	Turbinates	Hyperostosis	Marked
* Bone Marrow		Hyperplasia	Mild
* Brain			
Note: TGL 3-NCL			
* Clitoral Gland		Adenoma	
		Hyperplasia	Focal, Moderate
[Adenoma TGLS = 1-9]			
* Harderian Gland		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral, Renal Tubule	Accumulation, Hyaline Droplet	Mild
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 4-12]			
* Nose	Olfactory Epi	Cytoplasmic Alteration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 999	TRT#: 20 DOSE: 10 GAUSS	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 738 HISTO: 94-5216-999
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pineal Gland		Mineralization	Minimal
* Pituitary Gland [Adenoma TGLS = 2-3]	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
* Stomach, Glandular	Glands	Cyst	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Focal, Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 89029-05
Test Type: CHRONIC
Route: MAGNETIC FIELDS
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/19/2014
Time Report Requested: 14:06:28
First Dose M/F: NA / NA
Lab: IIT

ANIMAL ID: 1000

TRT#: 20

SEX: Female

DAY ON TEST: 738

DOSE: 10 GAUSS

DISP: Terminal Sacrifice

HISTO: 94-5216-1000

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Nose	* Ovary
* Parathyroid Gland	* Pineal Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Infiltration Cellular	Lymphocyte, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Bilateral	Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Rathkes Cleft	Pigmentation	Minimal
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

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**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE