

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

F1_R2

NTP Study Number: C20303
Lock Date: 05/09/2008
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.5.0.0_004
PWG Approval Date: NONE

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF VINYLIDENE CHLORIDE

MALE RATS

Organ

Epididymis
Heart

Liver

Liver: Bile Duct
Lung: Alveolar Epithelium
Mesentery: Fat
Nose

Nose: Olfactory Epithelium

Nose: Respiratory Epithelium

Nose: Turbinate

Skin
Spleen
Stomach, Glandular

FEMALE RATS

Organ

Adrenal Cortex

Clitoral Gland
Liver

Morphology

Hyperplasia Mesothelium
Cardiomyopathy
Thrombosis
Basophilic Focus
Degeneration Cystic
Fatty Change Diffuse
Hepatodiaphragmatic Nodule
Inflammation Chronic
Mixed Cell Focus
Necrosis
Hyperplasia
Hyperplasia
Necrosis
Inflammation Acute
Inflammation Chronic
Thrombosis
Metaplasia
Metaplasia Respiratory
Hyperplasia
Metaplasia
Atrophy
Hyperostosis
Cyst Epithelial Inclusion
Fibrosis
Necrosis

Morphology

Hyperplasia
Hypertrophy
Hyperplasia
Basophilic Focus

Experiment Number: 20303 - 05

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Species/Strain: RATS/F 344/N

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF VINYLIDENE CHLORIDE

Liver: Bile Duct

Nose

Nose: Olfactory Epithelium

Nose: Respiratory Epithelium

Nose: Turbinate

Ovary: Bursa

Pancreas: Acinus

Spleen

Stomach, Glandular

Clear Cell Focus

Degeneration Cystic

Eosinophilic Focus

Fatty Change Diffuse

Inflammation Chronic

Mixed Cell Focus

Necrosis

Hyperplasia

Inflammation Chronic

Polyp, Inflammatory

Thrombosis

Metaplasia Respiratory

Hyperplasia

Metaplasia

Atrophy

Hyperostosis

Dilatation

Hyperplasia

Necrosis

Necrosis

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Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Cortex				
Hematopoietic Cell Proliferation				
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LESION RATES				
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.32	0/39.85	0/37.31	0/37.88
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Cortex Hyperplasia				
LESION RATES				
OVERALL (a)	26/49 (53%)	27/50 (54%)	27/49 (55%)	27/50 (54%)
POLY-3 RATE (b)	26/43.33	27/41.23	27/41.20	27/42.46
POLY-3 PERCENT (g)	60%	65.5%	65.5%	63.6%
TERMINAL (d)	17/25 (68%)	21/27 (78%)	17/22 (77%)	13/19 (68%)
FIRST INCIDENCE	492	619	418	449
STATISTICAL TESTS				
POLY 3	P=0.434	P=0.377	P=0.375	P=0.450
POLY 1.5	P=0.449	P=0.440	P=0.427	P=0.474
POLY 6	P=0.410	P=0.317	P=0.307	P=0.423
COCH-ARM / FISHERS	P=0.502	P=0.543	P=0.500	P=0.543
MAX-ISO-POLY-3	P=0.495	P=0.296	P=0.294	P=0.361

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Cortex Hypertrophy				
LESION RATES				
OVERALL (a)	1/49 (2%)	2/50 (4%)	2/49 (4%)	4/50 (8%)
POLY-3 RATE (b)	1/41.32	2/40.67	2/37.54	4/38.61
POLY-3 PERCENT (g)	2.4%	4.9%	5.3%	10.4%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	1/22 (5%)	2/19 (11%)
FIRST INCIDENCE	729 (T)	560	666	617
STATISTICAL TESTS				
POLY 3	P=0.095	P=0.494	P=0.467	P=0.157
POLY 1.5	P=0.103	P=0.498	P=0.480	P=0.167
POLY 6	P=0.086	P=0.495	P=0.451	P=0.145
COCH-ARM / FISHERS	P=0.116	P=0.508	P=0.500	P=0.187
MAX-ISO-POLY-3	P=0.109	P=0.278	P=0.262	P=0.078

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Cortex Necrosis				
LESION RATES				
OVERALL (a)	0/49 (0%)	2/50 (4%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.32	2/40.53	0/37.31	0/37.88
POLY-3 PERCENT (g)	0%	4.9%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	619	---	---
STATISTICAL TESTS				
POLY 3	P=0.432N	P=0.232	(e)	(e)
POLY 1.5	P=0.421N	P=0.235	(e)	(e)
POLY 6	P=0.448N	P=0.232	(e)	(e)
COCH-ARM / FISHERS	P=0.402N	P=0.253	(e)	(e)
MAX-ISO-POLY-3	P=0.283N	P=0.077	(e)	(e)

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Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Medulla Hyperplasia				
LESION RATES				
OVERALL (a)	25/49 (51%)	22/50 (44%)	18/48 (38%)	29/50 (58%)
POLY-3 RATE (b)	25/44.02	22/41.25	18/38.29	29/42.07
POLY-3 PERCENT (g)	56.8%	53.3%	47%	68.9%
TERMINAL (d)	15/25 (60%)	16/27 (59%)	12/21 (57%)	15/19 (79%)
FIRST INCIDENCE	562	611	555	534
STATISTICAL TESTS				
POLY 3	P=0.122	P=0.458N	P=0.246N	P=0.161
POLY 1.5	P=0.154	P=0.397N	P=0.188N	P=0.207
POLY 6	P=0.086	P=0.527N	P=0.341N	P=0.112
COCH-ARM / FISHERS	P=0.224	P=0.309N	P=0.128N	P=0.310
MAX-ISO-POLY-3	P=0.085	P=0.373N	P=0.194N	P=0.116

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Coagulating Gland Hyperplasia				
LESION RATES				
OVERALL (a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/3 (67%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	2/2.86
POLY-3 PERCENT (g)	0%	0%	0%	69.9%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/1 (100%)
FIRST INCIDENCE	---	---	---	628
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=1.000N	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Epididymis				
Hyperplasia Mesothelium				
LESION RATES				
OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.91	3/39.88	1/37.70	0/37.88
POLY-3 PERCENT (g)	0%	7.5%	2.7%	0%
TERMINAL (d)	0/25 (0%)	2/27 (7%)	1/22 (5%)	0/19 (0%)
FIRST INCIDENCE	---	723	729 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.413N	P=0.109	P=0.479	(e)
POLY 1.5	P=0.395N	P=0.112	P=0.487	(e)
POLY 6	P=0.437N	P=0.107	P=0.468	(e)
COCH-ARM / FISHERS	P=0.366N	P=0.121	P=0.500	(e)
MAX-ISO-POLY-3	P=0.255N	P=0.037*	P=0.158	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
<hr/>				
Eye Cataract				
<hr/>				
LESION RATES				
OVERALL (a)	3/48 (6%)	1/48 (2%)	1/47 (2%)	1/49 (2%)
POLY-3 RATE (b)	3/40.51	1/38.81	1/36.58	1/37.87
POLY-3 PERCENT (g)	7.4%	2.6%	2.7%	2.6%
TERMINAL (d)	3/25 (12%)	1/27 (4%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	637	617
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.251N	P=0.320N	P=0.342N	P=0.329N
POLY 1.5	P=0.246N	P=0.316N	P=0.331N	P=0.318N
POLY 6	P=0.260N	P=0.322N	P=0.355N	P=0.345N
COCH-ARM / FISHERS	P=0.237N	P=0.308N	P=0.316N	P=0.301N
MAX-ISO-POLY-3	P=0.237N	P=0.169N	P=0.190N	P=0.179N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Eye Degeneration				
LESION RATES				
OVERALL (a)	0/48 (0%)	1/48 (2%)	0/47 (0%)	1/49 (2%)
POLY-3 RATE (b)	0/40.51	1/38.81	0/36.25	1/37.48
POLY-3 PERCENT (g)	0%	2.6%	0%	2.7%
TERMINAL (d)	0/25 (0%)	1/27 (4%)	0/22 (0%)	1/19 (5%)
FIRST INCIDENCE	---	729 (T)	---	729 (T)
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
<hr/>				
Eye: Retina Atrophy				
<hr/>				
LESION RATES				
OVERALL (a)	2/48 (4%)	0/48 (0%)	1/47 (2%)	1/49 (2%)
POLY-3 RATE (b)	2/40.51	0/38.81	1/36.34	1/37.87
POLY-3 PERCENT (g)	4.9%	0%	2.8%	2.6%
TERMINAL (d)	2/25 (8%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	729 (T)	---	705	617
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.505N	P=0.246N	P=0.538N	P=0.523N
POLY 1.5	P=0.500N	P=0.244N	P=0.526N	P=0.513N
POLY 6	P=0.513N	P=0.247N	P=0.552N	P=0.539N
COCH-ARM / FISHERS	P=0.494N	P=0.247N	P=0.508N	P=0.492N
MAX-ISO-POLY-3	P=0.321N	P=0.085N	P=0.320N	P=0.306N

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Harderian Gland Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/49 (4%)	1/48 (2%)	0/49 (0%)
POLY-3 RATE (b)	0/41.91	2/39.23	1/36.74	0/37.48
POLY-3 PERCENT (g)	0%	5.1%	2.7%	0%
TERMINAL (d)	0/25 (0%)	1/27 (4%)	1/22 (5%)	0/19 (0%)
FIRST INCIDENCE	---	723	729 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.503N	P=0.222	P=0.474	(e)
POLY 1.5	P=0.490N	P=0.225	P=0.481	(e)
POLY 6	P=0.521N	P=0.221	P=0.465	(e)
COCH-ARM / FISHERS	P=0.466N	P=0.242	P=0.490	(e)
MAX-ISO-POLY-3	P=0.335	P=0.074	P=0.155	(e)

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TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Heart				
Cardiomyopathy				
<hr/>				
LESION RATES				
OVERALL (a)	42/50 (84%)	41/50 (82%)	39/50 (78%)	35/50 (70%)
POLY-3 RATE (b)	42/47.77	41/46.13	39/45.38	35/44.11
POLY-3 PERCENT (g)	87.9%	88.9%	85.9%	79.3%
TERMINAL (d)	24/25 (96%)	26/27 (96%)	21/22 (96%)	18/19 (95%)
FIRST INCIDENCE	367	294	500	449
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.093N	P=0.579	P=0.511N	P=0.176N
POLY 1.5	P=0.076N	P=0.624	P=0.437N	P=0.139N
POLY 6	P=0.122N	P=0.543	P=0.585N	P=0.237N
COCH-ARM / FISHERS	P=0.043N*	P=0.500N	P=0.306N	P=0.077N
MAX-ISO-POLY-3	P=0.140N	P=0.433	P=0.377N	P=0.115N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Heart Thrombosis				
LESION RATES				
OVERALL (a)	3/50 (6%)	3/50 (6%)	6/50 (12%)	8/50 (16%)
POLY-3 RATE (b)	3/42.65	3/41.13	6/40.08	8/40.53
POLY-3 PERCENT (g)	7%	7.3%	15%	19.7%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	562	543	535	535
STATISTICAL TESTS				
POLY 3	P=0.031*	P=0.646	P=0.210	P=0.080
POLY 1.5	P=0.033*	P=0.650	P=0.222	P=0.086
POLY 6	P=0.028*	P=0.647	P=0.199	P=0.075
COCH-ARM / FISHERS	P=0.040*	P=0.661N	P=0.243	P=0.100
MAX-ISO-POLY-3	P=0.047*	P=0.481	P=0.130	P=0.046*

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Islets, Pancreatic Hyperplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	3/50 (6%)	3/50 (6%)	3/49 (6%)
POLY-3 RATE (b)	1/41.91	3/39.85	3/37.96	3/37.66
POLY-3 PERCENT (g)	2.4%	7.5%	7.9%	8%
TERMINAL (d)	1/25 (4%)	3/27 (11%)	2/22 (9%)	1/19 (5%)
FIRST INCIDENCE	729 (T)	729 (T)	661	694
STATISTICAL TESTS				
POLY 3	P=0.240	P=0.287	P=0.270	P=0.267
POLY 1.5	P=0.255	P=0.293	P=0.284	P=0.278
POLY 6	P=0.219	P=0.283	P=0.254	P=0.253
COCH-ARM / FISHERS	P=0.283	P=0.309	P=0.309	P=0.301
MAX-ISO-POLY-3	P=0.265	P=0.146	P=0.141	P=0.139

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Kidney Infarct				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/49 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/41.91	0/39.85	1/37.62	2/38.44
POLY-3 PERCENT (g)	0%	0%	2.7%	5.2%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	642	600
STATISTICAL TESTS				
POLY 3	P=0.062	(e)	P=0.478	P=0.218
POLY 1.5	P=0.065	(e)	P=0.485	P=0.225
POLY 6	P=0.059	(e)	P=0.471	P=0.210
COCH-ARM / FISHERS	P=0.070	(e)	P=0.495	P=0.247
MAX-ISO-POLY-3	P=0.077	(e)	P=0.157	P=0.075

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Kidney Inflammation				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/49 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/41.91	2/41.47	1/37.98	2/38.44
POLY-3 PERCENT (g)	0%	4.8%	2.6%	5.2%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	355	502	607
STATISTICAL TESTS				
POLY 3	P=0.215	P=0.234	P=0.480	P=0.218
POLY 1.5	P=0.225	P=0.235	P=0.487	P=0.224
POLY 6	P=0.201	P=0.235	P=0.473	P=0.210
COCH-ARM / FISHERS	P=0.245	P=0.247	P=0.495	P=0.247
MAX-ISO-POLY-3	P=0.159	P=0.076	P=0.157	P=0.075

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Kidney Nephropathy				
LESION RATES				
OVERALL (a)	50/50 (100%)	47/50 (94%)	47/49 (96%)	47/50 (94%)
POLY-3 RATE (b)	50/50.00	47/47.87	47/47.81	47/47.97
POLY-3 PERCENT (g)	100%	98.2%	98.3%	98%
TERMINAL (d)	25/25 (100%)	27/27 (100%)	22/22 (100%)	19/19 (100%)
FIRST INCIDENCE	367	355	296	437
STATISTICAL TESTS				
POLY 3	P=0.304N	P=0.574N	P=0.613N	P=0.504N
POLY 1.5	P=0.280N	P=0.277N	P=0.373N	P=0.337N
POLY 6	P=0.502N	P=0.998N	P=0.993N	P=0.911N
COCH-ARM / FISHERS	P=0.165N	P=0.121N	P=0.242N	P=0.121N
MAX-ISO-POLY-3	P=0.164N	P=0.064N	P=0.082N	P=0.082N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Kidney: Renal Tubule Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/49 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/41.91	1/39.92	1/37.54	1/38.36
POLY-3 PERCENT (g)	0%	2.5%	2.7%	2.6%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	711	666	583
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Kidney: Renal Tubule Necrosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/49 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/41.91	0/39.85	2/38.08	0/37.88
POLY-3 PERCENT (g)	0%	0%	5.3%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	563	---
STATISTICAL TESTS				
POLY 3	P=0.549	(e)	P=0.216	(e)
POLY 1.5	P=0.566	(e)	P=0.222	(e)
POLY 6	P=0.522	(e)	P=0.209	(e)
COCH-ARM / FISHERS	P=0.594	(e)	P=0.242	(e)
MAX-ISO-POLY-3	P=0.252	(e)	P=0.074	(e)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Kidney: Transitional Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/49 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/41.91	0/39.85	1/37.98	2/38.84
POLY-3 PERCENT (g)	0%	0%	2.6%	5.2%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	502	534
STATISTICAL TESTS				
POLY 3	P=0.064	(e)	P=0.480	P=0.220
POLY 1.5	P=0.066	(e)	P=0.487	P=0.226
POLY 6	P=0.060	(e)	P=0.473	P=0.213
COCH-ARM / FISHERS	P=0.070	(e)	P=0.495	P=0.247
MAX-ISO-POLY-3	P=0.078	(e)	P=0.157	P=0.075

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Larynx				
Inflammation Chronic				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/49 (2%)	0/49 (0%)	1/49 (2%)
POLY-3 RATE (b)	1/42.38	1/39.44	0/37.31	1/38.09
POLY-3 PERCENT (g)	2.4%	2.5%	0%	2.6%
TERMINAL (d)	0/25 (0%)	1/27 (4%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	591	729 (T)	---	534
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Larynx Metaplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/49 (0%)	1/49 (2%)
POLY-3 RATE (b)	0/41.91	0/39.44	0/37.31	1/38.17
POLY-3 PERCENT (g)	0%	0%	0%	2.6%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	495
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Angiectasis				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.91	2/39.88	0/37.70	0/37.88
POLY-3 PERCENT (g)	0%	5%	0%	0%
TERMINAL (d)	0/25 (0%)	1/27 (4%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	723	---	---
STATISTICAL TESTS				
POLY 3	P=0.436N	P=0.226	(e)	(e)
POLY 1.5	P=0.424N	P=0.229	(e)	(e)
POLY 6	P=0.451N	P=0.223	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.281N	P=0.075	(e)	(e)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Basophilic Focus				
LESION RATES				
OVERALL (a)	15/50 (30%)	7/50 (14%)	5/50 (10%)	5/50 (10%)
POLY-3 RATE (b)	15/43.71	7/41.95	5/37.86	5/38.26
POLY-3 PERCENT (g)	34.3%	16.7%	13.2%	13.1%
TERMINAL (d)	10/25 (40%)	3/27 (11%)	4/22 (18%)	3/19 (16%)
FIRST INCIDENCE	492	492	689	656
STATISTICAL TESTS				
POLY 3	P=0.014N*	P=0.049N*	P=0.022N*	P=0.021N*
POLY 1.5	P=0.011N*	P=0.048N*	P=0.016N*	P=0.016N*
POLY 6	P=0.019N*	P=0.048N*	P=0.033N*	P=0.030N*
COCH-ARM / FISHERS	P=0.009N**	P=0.045N*	P=0.011N*	P=0.011N*
MAX-ISO-POLY-3	P=0.015N*	P=0.031N*	P=0.017N*	P=0.015N*

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Clear Cell Focus				
LESION RATES				
OVERALL (a)	22/50 (44%)	23/50 (46%)	19/50 (38%)	15/50 (30%)
POLY-3 RATE (b)	22/42.56	23/39.85	19/38.65	15/38.54
POLY-3 PERCENT (g)	51.7%	57.7%	49.2%	38.9%
TERMINAL (d)	21/25 (84%)	23/27 (85%)	17/22 (77%)	12/19 (63%)
FIRST INCIDENCE	514	729 (T)	557	617
STATISTICAL TESTS				
POLY 3	P=0.085N	P=0.364	P=0.498N	P=0.165N
POLY 1.5	P=0.074N	P=0.416	P=0.431N	P=0.143N
POLY 6	P=0.103N	P=0.314	P=0.584N	P=0.197N
COCH-ARM / FISHERS	P=0.056N	P=0.500	P=0.342N	P=0.107N
MAX-ISO-POLY-3	P=0.119N	P=0.287	P=0.408N	P=0.125N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Degeneration Cystic				
LESION RATES				
OVERALL (a)	2/50 (4%)	5/50 (10%)	7/50 (14%)	12/50 (24%)
POLY-3 RATE (b)	2/42.14	5/40.06	7/38.81	12/39.42
POLY-3 PERCENT (g)	4.8%	12.5%	18%	30.4%
TERMINAL (d)	1/25 (4%)	3/27 (11%)	4/22 (18%)	7/19 (37%)
FIRST INCIDENCE	670	694	586	534
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.194	P=0.058	P=0.002**
POLY 1.5	P<0.001**	P=0.202	P=0.066	P=0.002**
POLY 6	P<0.001**	P=0.189	P=0.051	P<0.001**
COCH-ARM / FISHERS	P=0.002**	P=0.218	P=0.080	P=0.004**
MAX-ISO-POLY-3	P<0.001**	P=0.109	P=0.032*	P<0.001**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Eosinophilic Focus				
LESION RATES				
OVERALL (a)	3/50 (6%)	6/50 (12%)	7/50 (14%)	5/50 (10%)
POLY-3 RATE (b)	3/42.36	6/40.24	7/38.02	5/38.37
POLY-3 PERCENT (g)	7.1%	14.9%	18.4%	13%
TERMINAL (d)	1/25 (4%)	4/27 (15%)	6/22 (27%)	3/19 (16%)
FIRST INCIDENCE	614	661	642	656
STATISTICAL TESTS				
POLY 3	P=0.281	P=0.215	P=0.114	P=0.302
POLY 1.5	P=0.311	P=0.224	P=0.131	P=0.321
POLY 6	P=0.241	P=0.209	P=0.095	P=0.276
COCH-ARM / FISHERS	P=0.363	P=0.243	P=0.159	P=0.357
MAX-ISO-POLY-3	P=0.217	P=0.132	P=0.070	P=0.198

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Fatty Change Diffuse				
LESION RATES				
OVERALL (a)	4/50 (8%)	19/50 (38%)	18/50 (36%)	26/50 (52%)
POLY-3 RATE (b)	4/42.08	19/43.29	18/41.73	26/43.02
POLY-3 PERCENT (g)	9.5%	43.9%	43.1%	60.4%
TERMINAL (d)	3/25 (12%)	11/27 (41%)	9/22 (41%)	12/19 (63%)
FIRST INCIDENCE	686	466	296	495
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
<hr/>				
Liver				
Fatty Change Focal				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.91	0/39.85	0/37.70	0/37.88
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Hepatodiaphragmatic Nodule				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	5/50 (10%)
POLY-3 RATE (b)	1/42.45	1/39.85	1/37.70	5/38.39
POLY-3 PERCENT (g)	2.4%	2.5%	2.7%	13%
TERMINAL (d)	0/25 (0%)	1/27 (4%)	1/22 (5%)	3/19 (16%)
FIRST INCIDENCE	564	729 (T)	729 (T)	619
STATISTICAL TESTS				
POLY 3	P=0.019*	P=0.747	P=0.734	P=0.078
POLY 1.5	P=0.021*	P=0.751	P=0.745	P=0.087
POLY 6	P=0.017*	P=0.743	P=0.720	P=0.069
COCH-ARM / FISHERS	P=0.025*	P=0.753N	P=0.753N	P=0.102
MAX-ISO-POLY-3	P=0.025*	P=0.482	P=0.467	P=0.039*

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	29/50 (58%)	46/50 (92%)	46/50 (92%)	44/50 (88%)
POLY-3 RATE (b)	29/44.53	46/48.23	46/48.64	44/47.84
POLY-3 PERCENT (g)	65.1%	95.4%	94.6%	92%
TERMINAL (d)	20/25 (80%)	27/27 (100%)	22/22 (100%)	18/19 (95%)
FIRST INCIDENCE	514	294	296	10
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P=0.002**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Mixed Cell Focus				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	8/50 (16%)	6/50 (12%)
POLY-3 RATE (b)	1/41.91	1/39.99	8/37.70	6/38.27
POLY-3 PERCENT (g)	2.4%	2.5%	21.2%	15.7%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	8/22 (36%)	5/19 (26%)
FIRST INCIDENCE	729 (T)	694	729 (T)	617
STATISTICAL TESTS				
POLY 3	P=0.009**	P=0.751	P=0.009**	P=0.041*
POLY 1.5	P=0.011*	P=0.753	P=0.011*	P=0.046*
POLY 6	P=0.006**	P=0.750	P=0.006**	P=0.035*
COCH-ARM / FISHERS	P=0.017*	P=0.753N	P=0.015*	P=0.056
MAX-ISO-POLY-3	P=0.013*	P=0.486	P=0.004**	P=0.020*

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Liver Necrosis				
LESION RATES				
OVERALL (a)	2/50 (4%)	6/50 (12%)	8/50 (16%)	6/50 (12%)
POLY-3 RATE (b)	2/42.45	6/42.35	8/40.53	6/39.97
POLY-3 PERCENT (g)	4.7%	14.2%	19.7%	15%
TERMINAL (d)	1/25 (4%)	1/27 (4%)	1/22 (5%)	1/19 (5%)
FIRST INCIDENCE	562	466	500	535
STATISTICAL TESTS				
POLY 3	P=0.121	P=0.130	P=0.036*	P=0.112
POLY 1.5	P=0.133	P=0.130	P=0.039*	P=0.119
POLY 6	P=0.108	P=0.135	P=0.033*	P=0.105
COCH-ARM / FISHERS	P=0.160	P=0.134	P=0.046*	P=0.134
MAX-ISO-POLY-3	P=0.076	P=0.067	P=0.018*	P=0.061

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Liver: Bile Duct Hyperplasia				
LESION RATES				
OVERALL (a)	38/50 (76%)	23/50 (46%)	16/50 (32%)	14/50 (28%)
POLY-3 RATE (b)	38/45.33	23/41.81	16/40.36	14/39.16
POLY-3 PERCENT (g)	83.8%	55%	39.6%	35.8%
TERMINAL (d)	23/25 (92%)	16/27 (59%)	8/22 (36%)	8/19 (42%)
FIRST INCIDENCE	564	563	563	600
STATISTICAL TESTS				
POLY 3	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**
POLY 1.5	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**
POLY 6	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.002N**	P<0.001N**	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P<0.001N**	P<0.001N**	P<0.001N**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Lung Inflammation Chronic				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/42.12	0/39.85	1/38.51	0/37.88
POLY-3 PERCENT (g)	4.8%	0%	2.6%	0%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	675	---	423	---
STATISTICAL TESTS				
POLY 3	P=0.194N	P=0.249N	P=0.531N	P=0.261N
POLY 1.5	P=0.191N	P=0.245N	P=0.518N	P=0.252N
POLY 6	P=0.199N	P=0.252N	P=0.548N	P=0.274N
COCH-ARM / FISHERS	P=0.188N	P=0.247N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.108N	P=0.088N	P=0.314N	P=0.099N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Lung Thrombosis				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/42.45	1/40.59	2/38.49	0/37.88
POLY-3 PERCENT (g)	2.4%	2.5%	5.2%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	562	466	555	---
STATISTICAL TESTS				
POLY 3	P=0.405N	P=0.751	P=0.466	P=0.523N
POLY 1.5	P=0.390N	P=0.754	P=0.479	P=0.514N
POLY 6	P=0.427N	P=0.749	P=0.450	P=0.534N
COCH-ARM / FISHERS	P=0.366N	P=0.753N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.301N	P=0.487	P=0.261	P=0.186N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Lung: Alveolar Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	7/50 (14%)	18/50 (36%)	14/50 (28%)	14/50 (28%)
POLY-3 RATE (b)	7/42.55	18/41.43	14/39.60	14/40.42
POLY-3 PERCENT (g)	16.5%	43.5%	35.4%	34.6%
TERMINAL (d)	5/25 (20%)	14/27 (52%)	10/22 (46%)	6/19 (32%)
FIRST INCIDENCE	620	492	296	534
STATISTICAL TESTS				
POLY 3	P=0.119	P=0.005**	P=0.039*	P=0.045*
POLY 1.5	P=0.138	P=0.006**	P=0.051	P=0.052
POLY 6	P=0.099	P=0.004**	P=0.028*	P=0.039*
COCH-ARM / FISHERS	P=0.186	P=0.010**	P=0.070	P=0.070
MAX-ISO-POLY-3	P=0.026*	P=0.002**	P=0.026*	P=0.028*

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Lung: Alveolar Epithelium Metaplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.91	0/39.85	1/37.70	0/37.88
POLY-3 PERCENT (g)	0%	0%	2.7%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	1/22 (5%)	0/19 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Lung: Alveolus Infiltration Cellular Histiocyte				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.91	0/39.85	0/37.70	0/37.88
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Lung: Bronchiole Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.91	0/39.85	0/37.70	0/37.88
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Lymph Node, Bronchial Ectasia				
LESION RATES				
OVERALL (a)	0/8 (0%)	1/9 (11%)	2/9 (22%)	0/9 (0%)
POLY-3 RATE (b)	0/4.97	1/6.90	2/7.06	0/5.76
POLY-3 PERCENT (g)	0%	14.5%	28.3%	0%
TERMINAL (d)	0/3 (0%)	1/4 (25%)	2/4 (50%)	0/2 (0%)
FIRST INCIDENCE	---	729 (T)	729 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.603N	P=0.565	P=0.306	(e)
POLY 1.5	P=0.592N	P=0.550	P=0.285	(e)
POLY 6	P=0.639N	P=0.577	P=0.325	(e)
COCH-ARM / FISHERS	P=0.597N	P=0.529	P=0.265	(e)
MAX-ISO-POLY-3	P=0.381N	P=0.226	P=0.129	(e)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Lymph Node, Mediastinal Hyperplasia Lymphoid				
LESION RATES				
OVERALL (a)	2/28 (7%)	0/21 (0%)	2/24 (8%)	2/30 (7%)
POLY-3 RATE (b)	2/24.48	0/17.32	2/18.74	2/24.10
POLY-3 PERCENT (g)	8.2%	0%	10.7%	8.3%
TERMINAL (d)	1/16 (6%)	0/13 (0%)	1/10 (10%)	1/14 (7%)
FIRST INCIDENCE	705	---	502	701
STATISTICAL TESTS				
POLY 3	P=0.473	P=0.316N	P=0.596	P=0.691
POLY 1.5	P=0.481	P=0.310N	P=0.616	P=0.692N
POLY 6	P=0.461	P=0.323N	P=0.566	P=0.678
COCH-ARM / FISHERS	P=0.501	P=0.321N	P=0.634	P=0.667N
MAX-ISO-POLY-3	P=0.438	P=0.135N	P=0.398	P=0.493

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Mammary Gland				
Galactocele				
LESION RATES				
OVERALL (a)	0/36 (0%)	0/29 (0%)	0/24 (0%)	0/32 (0%)
POLY-3 RATE (b)	0/31.55	0/25.25	0/19.91	0/25.49
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/20 (0%)	0/19 (0%)	0/14 (0%)	0/16 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Mesentery				
Inflammation Chronic				
<hr/>				
LESION RATES				
OVERALL (a)	2/16 (13%)	0/15 (0%)	1/21 (5%)	0/23 (0%)
POLY-3 RATE (b)	2/14.73	0/10.99	1/15.93	0/16.76
POLY-3 PERCENT (g)	13.6%	0%	6.3%	0%
TERMINAL (d)	0/10 (0%)	0/7 (0%)	0/7 (0%)	0/5 (0%)
FIRST INCIDENCE	564	---	617	---
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.123N	P=0.302N	P=0.472N	P=0.200N
POLY 1.5	P=0.120N	P=0.280N	P=0.440N	P=0.178N
POLY 6	P=0.135N	P=0.326N	P=0.522N	P=0.237N
COCH-ARM / FISHERS	P=0.124N	P=0.258N	P=0.396N	P=0.162N
MAX-ISO-POLY-3	P=0.065N	P=0.133N	P=0.257N	P=0.060N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Mesentery: Fat Necrosis				
LESION RATES				
OVERALL (a)	13/16 (81%)	10/15 (67%)	14/21 (67%)	12/23 (52%)
POLY-3 RATE (b)	13/14.72	10/12.92	14/18.71	12/20.34
POLY-3 PERCENT (g)	88.3%	77.4%	74.8%	59%
TERMINAL (d)	10/10 (100%)	5/7 (71%)	5/7 (71%)	4/5 (80%)
FIRST INCIDENCE	614	466	574	449
STATISTICAL TESTS				
POLY 3	P=0.024N*	P=0.387N	P=0.272N	P=0.043N*
POLY 1.5	P=0.030N*	P=0.365N	P=0.272N	P=0.049N*
POLY 6	P=0.024N*	P=0.373N	P=0.275N	P=0.040N*
COCH-ARM / FISHERS	P=0.048N*	P=0.303N	P=0.272N	P=0.062N
MAX-ISO-POLY-3	P=0.033N*	P=0.209N	P=0.146N	P=0.023N*

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Nose				
Foreign Body				
LESION RATES				
OVERALL (a)	2/49 (4%)	2/50 (4%)	2/50 (4%)	5/50 (10%)
POLY-3 RATE (b)	2/41.31	2/39.85	2/37.70	5/38.84
POLY-3 PERCENT (g)	4.8%	5%	5.3%	12.9%
TERMINAL (d)	1/25 (4%)	2/27 (7%)	2/22 (9%)	3/19 (16%)
FIRST INCIDENCE	675	729 (T)	729 (T)	495
STATISTICAL TESTS				
POLY 3	P=0.099	P=0.682	P=0.661	P=0.190
POLY 1.5	P=0.106	P=0.688	P=0.678	P=0.202
POLY 6	P=0.088	P=0.676	P=0.639	P=0.173
COCH-ARM / FISHERS	P=0.118	P=0.684N	P=0.684N	P=0.226
MAX-ISO-POLY-3	P=0.133	P=0.485	P=0.464	P=0.108

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Nose				
Inflammation Acute				
LESION RATES				
OVERALL (a)	2/49 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/41.54	0/39.85	0/37.70	0/37.88
POLY-3 PERCENT (g)	4.8%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	669	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.108N	P=0.246N	P=0.259N	P=0.258N
POLY 1.5	P=0.109N	P=0.241N	P=0.248N	P=0.248N
POLY 6	P=0.107N	P=0.251N	P=0.274N	P=0.273N
COCH-ARM / FISHERS	P=0.113N	P=0.242N	P=0.242N	P=0.242N
MAX-ISO-POLY-3	P=0.050N*	P=0.086N	P=0.098N	P=0.097N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Nose				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	9/49 (18%)	36/50 (72%)	45/50 (90%)	48/50 (96%)
POLY-3 RATE (b)	9/42.56	36/45.00	45/46.60	48/48.91
POLY-3 PERCENT (g)	21.2%	80%	96.6%	98.2%
TERMINAL (d)	5/25 (20%)	22/27 (82%)	22/22 (100%)	19/19 (100%)
FIRST INCIDENCE	564	466	423	10
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Nose				
Polyp, Inflammatory				
LESION RATES				
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.10	0/39.85	0/37.70	0/37.88
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Nose				
Thrombosis				
LESION RATES				
OVERALL (a)	4/49 (8%)	4/50 (8%)	11/50 (22%)	7/50 (14%)
POLY-3 RATE (b)	4/42.20	4/41.81	11/42.02	7/41.22
POLY-3 PERCENT (g)	9.5%	9.6%	26.2%	17%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	562	535	500	437
STATISTICAL TESTS				
POLY 3	P=0.123	P=0.639	P=0.040*	P=0.245
POLY 1.5	P=0.131	P=0.643	P=0.043*	P=0.254
POLY 6	P=0.108	P=0.639	P=0.038*	P=0.230
COCH-ARM / FISHERS	P=0.150	P=0.631N	P=0.049*	P=0.274
MAX-ISO-POLY-3	P=0.099	P=0.494	P=0.021*	P=0.159

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Nose: Olfactory Epithelium Metaplasia				
LESION RATES				
OVERALL (a)	0/49 (0%)	0/50 (0%)	1/50 (2%)	5/50 (10%)
POLY-3 RATE (b)	0/41.10	0/39.85	1/37.70	5/38.82
POLY-3 PERCENT (g)	0%	0%	2.7%	12.9%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	1/22 (5%)	1/19 (5%)
FIRST INCIDENCE	---	---	729 (T)	607
STATISTICAL TESTS				
POLY 3	P<0.001**	(e)	P=0.483	P=0.025*
POLY 1.5	P<0.001**	(e)	P=0.491	P=0.028*
POLY 6	P<0.001**	(e)	P=0.472	P=0.023*
COCH-ARM / FISHERS	P=0.002**	(e)	P=0.505	P=0.030*
MAX-ISO-POLY-3	P=0.002**	(e)	P=0.159	P=0.009**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Nose: Olfactory Epithelium Metaplasia Respiratory				
LESION RATES				
OVERALL (a)	3/49 (6%)	49/50 (98%)	49/50 (98%)	48/50 (96%)
POLY-3 RATE (b)	3/41.33	49/49.31	49/49.40	48/48.40
POLY-3 PERCENT (g)	7.3%	99.4%	99.2%	99.2%
TERMINAL (d)	2/25 (8%)	27/27 (100%)	22/22 (100%)	19/19 (100%)
FIRST INCIDENCE	670	294	296	437
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Nose: Respiratory Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	5/49 (10%)	8/50 (16%)	22/50 (44%)	31/50 (62%)
POLY-3 RATE (b)	5/42.03	8/40.37	22/40.46	31/43.06
POLY-3 PERCENT (g)	11.9%	19.8%	54.4%	72%
TERMINAL (d)	3/25 (12%)	6/27 (22%)	15/22 (68%)	15/19 (79%)
FIRST INCIDENCE	564	599	500	495
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.246	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.261	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.234	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.290	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.168	P<0.001**	P<0.001**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Nose: Respiratory Epithelium Metaplasia				
LESION RATES				
OVERALL (a)	0/49 (0%)	0/50 (0%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	0/41.10	0/39.85	1/37.70	3/38.32
POLY-3 PERCENT (g)	0%	0%	2.7%	7.8%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	1/22 (5%)	2/19 (11%)
FIRST INCIDENCE	---	---	729 (T)	600
STATISTICAL TESTS				
POLY 3	P=0.017*	(e)	P=0.483	P=0.106
POLY 1.5	P=0.018*	(e)	P=0.491	P=0.112
POLY 6	P=0.015*	(e)	P=0.472	P=0.098
COCH-ARM / FISHERS	P=0.021*	(e)	P=0.505	P=0.125
MAX-ISO-POLY-3	P=0.023*	(e)	P=0.159	P=0.038*

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Nose: Turbinate Atrophy				
LESION RATES				
OVERALL (a)	0/49 (0%)	50/50 (100%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	0/41.10	50/50.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	0%	100%	100%	100%
TERMINAL (d)	0/25 (0%)	27/27 (100%)	22/22 (100%)	19/19 (100%)
FIRST INCIDENCE	---	294	296	10
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Nose: Turbinate Hyperostosis				
LESION RATES				
OVERALL (a)	0/49 (0%)	49/50 (98%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	0/41.10	49/50.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	0%	98%	100%	100%
TERMINAL (d)	0/25 (0%)	26/27 (96%)	22/22 (100%)	19/19 (100%)
FIRST INCIDENCE	---	294	296	10
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Pancreas Atrophy				
LESION RATES				
OVERALL (a)	21/50 (42%)	16/50 (32%)	25/50 (50%)	20/49 (41%)
POLY-3 RATE (b)	21/46.25	16/43.21	25/43.53	20/42.95
POLY-3 PERCENT (g)	45.4%	37%	57.4%	46.6%
TERMINAL (d)	9/25 (36%)	10/27 (37%)	12/22 (55%)	6/19 (32%)
FIRST INCIDENCE	492	294	296	437
STATISTICAL TESTS				
POLY 3	P=0.331	P=0.275N	P=0.170	P=0.541
POLY 1.5	P=0.349	P=0.239N	P=0.213	P=0.566
POLY 6	P=0.309	P=0.331N	P=0.123	P=0.509
COCH-ARM / FISHERS	P=0.406	P=0.204N	P=0.274	P=0.534N
MAX-ISO-POLY-3	P=0.249	P=0.215N	P=0.128	P=0.456

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Pancreas Hyperplasia				
LESION RATES				
OVERALL (a)	4/50 (8%)	5/50 (10%)	2/50 (4%)	7/49 (14%)
POLY-3 RATE (b)	4/42.12	5/40.12	2/37.70	7/37.48
POLY-3 PERCENT (g)	9.5%	12.5%	5.3%	18.7%
TERMINAL (d)	3/25 (12%)	4/27 (15%)	2/22 (9%)	7/19 (37%)
FIRST INCIDENCE	675	656	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.170	P=0.469	P=0.389N	P=0.194
POLY 1.5	P=0.187	P=0.479	P=0.367N	P=0.214
POLY 6	P=0.146	P=0.464	P=0.417N	P=0.167
COCH-ARM / FISHERS	P=0.215	P=0.500	P=0.339N	P=0.251
MAX-ISO-POLY-3	P=0.159	P=0.337	P=0.252N	P=0.129

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Pancreas: Acinus Atrophy				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/41.91	0/39.85	0/37.70	0/37.48
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Pancreas: Acinus Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/41.91	0/39.85	0/37.70	0/37.48
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Parathyroid Gland Hyperplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/49 (4%)	1/47 (2%)	2/45 (4%)
POLY-3 RATE (b)	1/42.14	2/38.85	1/36.72	2/34.96
POLY-3 PERCENT (g)	2.4%	5.2%	2.7%	5.7%
TERMINAL (d)	0/25 (0%)	2/26 (8%)	0/21 (0%)	0/17 (0%)
FIRST INCIDENCE	669	729 (T)	502	670
STATISTICAL TESTS				
POLY 3	P=0.374	P=0.472	P=0.730	P=0.435
POLY 1.5	P=0.388	P=0.479	P=0.737	P=0.447
POLY 6	P=0.354	P=0.465	P=0.720	P=0.419
COCH-ARM / FISHERS	P=0.405	P=0.492	P=0.737	P=0.460
MAX-ISO-POLY-3	P=0.388	P=0.263	P=0.462	P=0.241

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Pituitary Gland: Pars Distalis Angiectasis				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/49 (0%)	0/49 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/42.30	0/39.44	0/36.70	1/37.88
POLY-3 PERCENT (g)	4.7%	0%	0%	2.6%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	0/21 (0%)	1/19 (5%)
FIRST INCIDENCE	620	---	---	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.460N	P=0.253N	P=0.270N	P=0.538N
POLY 1.5	P=0.459N	P=0.249N	P=0.258N	P=0.524N
POLY 6	P=0.465N	P=0.255N	P=0.285N	P=0.559N
COCH-ARM / FISHERS	P=0.460N	P=0.253N	P=0.253N	P=0.500N
MAX-ISO-POLY-3	P=0.184N	P=0.090N	P=0.105N	P=0.322N

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm

Pituitary Gland: Pars Distalis
Hyperplasia

LESION RATES

OVERALL (a)	10/50 (20%)	13/49 (27%)	14/49 (29%)	9/50 (18%)
POLY-3 RATE (b)	10/44.50	13/41.98	14/40.42	9/39.72
POLY-3 PERCENT (g)	22.5%	31%	34.6%	22.7%
TERMINAL (d)	4/25 (16%)	8/27 (30%)	5/21 (24%)	3/19 (16%)
FIRST INCIDENCE	367	355	500	535

STATISTICAL TESTS

POLY 3	P=0.529N	P=0.256	P=0.155	P=0.595
POLY 1.5	P=0.478N	P=0.270	P=0.178	P=0.573N
POLY 6	P=0.497	P=0.247	P=0.135	P=0.552
COCH-ARM / FISHERS	P=0.383N	P=0.298	P=0.224	P=0.500N
MAX-ISO-POLY-3	P=0.397	P=0.189	P=0.113	P=0.491

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Prostate Hyperplasia				
LESION RATES				
OVERALL (a)	5/50 (10%)	4/50 (8%)	7/50 (14%)	5/50 (10%)
POLY-3 RATE (b)	5/42.01	4/39.85	7/38.62	5/38.34
POLY-3 PERCENT (g)	11.9%	10%	18.1%	13%
TERMINAL (d)	4/25 (16%)	4/27 (15%)	4/22 (18%)	4/19 (21%)
FIRST INCIDENCE	705	729 (T)	575	593
STATISTICAL TESTS				
POLY 3	P=0.417	P=0.533N	P=0.319	P=0.573
POLY 1.5	P=0.442	P=0.522N	P=0.342	P=0.593
POLY 6	P=0.380	P=0.541N	P=0.293	P=0.544
COCH-ARM / FISHERS	P=0.484	P=0.500N	P=0.380	P=0.630N
MAX-ISO-POLY-3	P=0.449	P=0.395N	P=0.226	P=0.440

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Prostate Inflammation				
LESION RATES				
OVERALL (a)	4/50 (8%)	5/50 (10%)	9/50 (18%)	8/50 (16%)
POLY-3 RATE (b)	4/43.22	5/42.18	9/41.78	8/41.77
POLY-3 PERCENT (g)	9.3%	11.9%	21.5%	19.2%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	1/22 (5%)	0/19 (0%)
FIRST INCIDENCE	562	535	418	437
STATISTICAL TESTS				
POLY 3	P=0.096	P=0.485	P=0.099	P=0.158
POLY 1.5	P=0.101	P=0.488	P=0.106	P=0.163
POLY 6	P=0.088	P=0.488	P=0.092	P=0.150
COCH-ARM / FISHERS	P=0.113	P=0.500	P=0.117	P=0.178
MAX-ISO-POLY-3	P=0.126	P=0.349	P=0.059	P=0.098

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Salivary Glands				
Basophilic Focus				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.91	0/39.85	0/37.70	0/37.88
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Cyst Epithelial Inclusion				
LESION RATES				
OVERALL (a)	4/50 (8%)	2/50 (4%)	2/49 (4%)	0/50 (0%)
POLY-3 RATE (b)	4/41.95	2/39.85	2/37.29	0/37.88
POLY-3 PERCENT (g)	9.5%	5%	5.4%	0%
TERMINAL (d)	3/25 (12%)	2/27 (7%)	1/22 (5%)	0/19 (0%)
FIRST INCIDENCE	719	729 (T)	698	---
STATISTICAL TESTS				
POLY 3	P=0.052N	P=0.360N	P=0.392N	P=0.073N
POLY 1.5	P=0.049N*	P=0.353N	P=0.374N	P=0.069N
POLY 6	P=0.057N	P=0.365N	P=0.414N	P=0.081N
COCH-ARM / FISHERS	P=0.044N*	P=0.339N	P=0.349N	P=0.059N
MAX-ISO-POLY-3	P=0.049N*	P=0.224N	P=0.254N	P=0.030N*

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/49 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/42.61	0/39.85	1/37.97	0/37.88
POLY-3 PERCENT (g)	4.7%	0%	2.6%	0%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	492	---	423	---
STATISTICAL TESTS				
POLY 3	P=0.195N	P=0.252N	P=0.540N	P=0.264N
POLY 1.5	P=0.192N	P=0.247N	P=0.527N	P=0.254N
POLY 6	P=0.201N	P=0.256N	P=0.556N	P=0.278N
COCH-ARM / FISHERS	P=0.189N	P=0.247N	P=0.508N	P=0.247N
MAX-ISO-POLY-3	P=0.112N	P=0.090N	P=0.322N	P=0.101N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Spleen Fibrosis				
LESION RATES				
OVERALL (a)	3/50 (6%)	0/50 (0%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	3/42.03	0/39.85	2/38.15	4/38.42
POLY-3 PERCENT (g)	7.1%	0%	5.2%	10.4%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	1/22 (5%)	3/19 (16%)
FIRST INCIDENCE	712	---	596	561
STATISTICAL TESTS				
POLY 3	P=0.206	P=0.128N	P=0.544N	P=0.451
POLY 1.5	P=0.214	P=0.125N	P=0.526N	P=0.468
POLY 6	P=0.194	P=0.130N	P=0.565N	P=0.426
COCH-ARM / FISHERS	P=0.227	P=0.121N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.163	P=0.046N*	P=0.369N	P=0.310

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Spleen				
Hematopoietic Cell Proliferation				
LESION RATES				
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	3/43.80	1/40.08	1/37.82	0/37.88
POLY-3 PERCENT (g)	6.9%	2.5%	2.6%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	492	668	698	---
STATISTICAL TESTS				
POLY 3	P=0.082N	P=0.337N	P=0.359N	P=0.146N
POLY 1.5	P=0.078N	P=0.326N	P=0.337N	P=0.136N
POLY 6	P=0.090N	P=0.347N	P=0.386N	P=0.162N
COCH-ARM / FISHERS	P=0.073N	P=0.309N	P=0.309N	P=0.121N
MAX-ISO-POLY-3	P=0.074N	P=0.186N	P=0.209N	P=0.062N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Spleen Necrosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	0/41.91	1/40.59	2/37.80	2/38.74
POLY-3 PERCENT (g)	0%	2.5%	5.3%	5.2%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	1/22 (5%)	0/19 (0%)
FIRST INCIDENCE	---	466	705	600
STATISTICAL TESTS				
POLY 3	P=0.138	P=0.494	P=0.214	P=0.220
POLY 1.5	P=0.146	P=0.495	P=0.223	P=0.225
POLY 6	P=0.129	P=0.493	P=0.204	P=0.212
COCH-ARM / FISHERS	P=0.160	P=0.500	P=0.247	P=0.247
MAX-ISO-POLY-3	P=0.153	P=0.158	P=0.075	P=0.075

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Stomach, Forestomach Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/41.91	2/40.53	2/38.24	1/38.15
POLY-3 PERCENT (g)	0%	4.9%	5.2%	2.6%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	1/22 (5%)	0/19 (0%)
FIRST INCIDENCE	---	619	563	656
STATISTICAL TESTS				
POLY 3	P=0.418	P=0.229	P=0.217	P=0.481
POLY 1.5	P=0.436	P=0.231	P=0.225	P=0.488
POLY 6	P=0.394	P=0.230	P=0.208	P=0.472
COCH-ARM / FISHERS	P=0.469	P=0.247	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.238	P=0.075	P=0.075	P=0.158

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Stomach, Forestomach Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.91	2/40.65	0/37.70	0/37.88
POLY-3 PERCENT (g)	0%	4.9%	0%	0%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	599	---	---
STATISTICAL TESTS				
POLY 3	P=0.434N	P=0.230	(e)	(e)
POLY 1.5	P=0.423N	P=0.232	(e)	(e)
POLY 6	P=0.448N	P=0.231	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.285N	P=0.075	(e)	(e)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Stomach, Forestomach Ulcer				
LESION RATES				
OVERALL (a)	4/50 (8%)	3/50 (6%)	1/50 (2%)	6/50 (12%)
POLY-3 RATE (b)	4/43.14	3/40.34	1/37.80	6/40.19
POLY-3 PERCENT (g)	9.3%	7.4%	2.7%	14.9%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	551	619	705	437
STATISTICAL TESTS				
POLY 3	P=0.229	P=0.537N	P=0.221N	P=0.324
POLY 1.5	P=0.239	P=0.524N	P=0.203N	P=0.340
POLY 6	P=0.211	P=0.548N	P=0.246N	P=0.300
COCH-ARM / FISHERS	P=0.256	P=0.500N	P=0.181N	P=0.370
MAX-ISO-POLY-3	P=0.145	P=0.384N	P=0.124N	P=0.222

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Stomach, Glandular Necrosis				
LESION RATES				
OVERALL (a)	0/49 (0%)	0/50 (0%)	3/49 (6%)	3/50 (6%)
POLY-3 RATE (b)	0/41.32	0/39.85	3/38.39	3/38.71
POLY-3 PERCENT (g)	0%	0%	7.8%	7.8%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	575	535
STATISTICAL TESTS				
POLY 3	P=0.028*	(e)	P=0.105	P=0.107
POLY 1.5	P=0.030*	(e)	P=0.110	P=0.112
POLY 6	P=0.024*	(e)	P=0.100	P=0.100
COCH-ARM / FISHERS	P=0.035*	(e)	P=0.121	P=0.125
MAX-ISO-POLY-3	P=0.042*	(e)	P=0.037*	P=0.038*

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Testes				
Atrophy				
LESION RATES				
OVERALL (a)	9/50 (18%)	10/50 (20%)	13/50 (26%)	4/50 (8%)
POLY-3 RATE (b)	9/43.31	10/41.28	13/40.96	4/39.26
POLY-3 PERCENT (g)	20.8%	24.2%	31.7%	10.2%
TERMINAL (d)	5/25 (20%)	6/27 (22%)	6/22 (27%)	0/19 (0%)
FIRST INCIDENCE	514	548	502	495
STATISTICAL TESTS				
POLY 3	P=0.155N	P=0.453	P=0.182	P=0.153N
POLY 1.5	P=0.135N	P=0.467	P=0.200	P=0.139N
POLY 6	P=0.188N	P=0.449	P=0.166	P=0.173N
COCH-ARM / FISHERS	P=0.107N	P=0.500	P=0.235	P=0.117N
MAX-ISO-POLY-3	P=0.080N	P=0.354	P=0.130	P=0.102N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Testes				
Hyperplasia Mesothelium				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.91	2/40.74	0/37.70	0/37.88
POLY-3 PERCENT (g)	0%	4.9%	0%	0%
TERMINAL (d)	0/25 (0%)	1/27 (4%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	355	---	---
STATISTICAL TESTS				
POLY 3	P=0.433N	P=0.230	(e)	(e)
POLY 1.5	P=0.422N	P=0.233	(e)	(e)
POLY 6	P=0.448N	P=0.229	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.285N	P=0.075	(e)	(e)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Testes: Interstitial Cell Hyperplasia				
LESION RATES				
OVERALL (a)	4/50 (8%)	4/50 (8%)	6/50 (12%)	3/50 (6%)
POLY-3 RATE (b)	4/43.99	4/41.75	6/40.65	3/38.67
POLY-3 PERCENT (g)	9.1%	9.6%	14.8%	7.8%
TERMINAL (d)	0/25 (0%)	1/27 (4%)	0/22 (0%)	1/19 (5%)
FIRST INCIDENCE	367	355	423	542
STATISTICAL TESTS				
POLY 3	P=0.536N	P=0.615	P=0.320	P=0.570N
POLY 1.5	P=0.505N	P=0.624	P=0.338	P=0.545N
POLY 6	P=0.549	P=0.608	P=0.302	P=0.602N
COCH-ARM / FISHERS	P=0.449N	P=0.643N	P=0.370	P=0.500N
MAX-ISO-POLY-3	P=0.512N	P=0.469	P=0.220	P=0.418N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Testes: Tunic Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	0/41.91	2/39.85	2/37.94	2/38.64
POLY-3 PERCENT (g)	0%	5%	5.3%	5.2%
TERMINAL (d)	0/25 (0%)	2/27 (7%)	1/22 (5%)	1/19 (5%)
FIRST INCIDENCE	---	729 (T)	666	449
STATISTICAL TESTS				
POLY 3	P=0.209	P=0.226	P=0.215	P=0.219
POLY 1.5	P=0.221	P=0.229	P=0.224	P=0.226
POLY 6	P=0.192	P=0.223	P=0.205	P=0.210
COCH-ARM / FISHERS	P=0.242	P=0.247	P=0.247	P=0.247
MAX-ISO-POLY-3	P=0.188	P=0.075	P=0.075	P=0.075

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Thyroid Gland: C-Cell Hyperplasia				
LESION RATES				
OVERALL (a)	15/50 (30%)	16/49 (33%)	19/49 (39%)	19/48 (40%)
POLY-3 RATE (b)	15/44.77	16/42.04	19/40.25	19/41.74
POLY-3 PERCENT (g)	33.5%	38.1%	47.2%	45.5%
TERMINAL (d)	7/25 (28%)	9/27 (33%)	9/21 (43%)	5/19 (26%)
FIRST INCIDENCE	492	466	502	495
STATISTICAL TESTS				
POLY 3	P=0.124	P=0.413	P=0.138	P=0.174
POLY 1.5	P=0.134	P=0.430	P=0.173	P=0.183
POLY 6	P=0.111	P=0.409	P=0.106	P=0.164
COCH-ARM / FISHERS	P=0.164	P=0.473	P=0.240	P=0.217
MAX-ISO-POLY-3	P=0.175	P=0.331	P=0.104	P=0.128

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Thyroid Gland: Follicular Cell Hyperplasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/49 (0%)	2/49 (4%)	1/48 (2%)
POLY-3 RATE (b)	2/42.12	0/39.21	2/36.70	1/37.27
POLY-3 PERCENT (g)	4.8%	0%	5.5%	2.7%
TERMINAL (d)	1/25 (4%)	0/27 (0%)	2/21 (10%)	1/19 (5%)
FIRST INCIDENCE	676	---	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.560N	P=0.253N	P=0.644	P=0.543N
POLY 1.5	P=0.553N	P=0.249N	P=0.662	P=0.532N
POLY 6	P=0.574N	P=0.255N	P=0.620	P=0.559N
COCH-ARM / FISHERS	P=0.543N	P=0.253N	P=0.684	P=0.515N
MAX-ISO-POLY-3	P=0.489N	P=0.090N	P=0.446	P=0.324N

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Tongue Hyperplasia				
LESION RATES				
OVERALL (a)	0/0 (0%)	0/1 (0%)	0/0 (0%)	2/2 (100%)
POLY-3 RATE (b)	0/0.00	0/1.00	0/0.00	2/2.00
POLY-3 PERCENT (g)	0%	0%	0%	100%
TERMINAL (d)	0/0 (0%)	0/1 (0%)	0/0 (0%)	1/1 (100%)
FIRST INCIDENCE	---	---	---	676
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.193	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	25 ppm	50 ppm	100 ppm
Urinary Bladder: Transitional Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	0/49 (0%)	0/50 (0%)	1/49 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/41.32	0/39.85	1/37.81	2/38.37
POLY-3 PERCENT (g)	0%	0%	2.6%	5.2%
TERMINAL (d)	0/25 (0%)	0/27 (0%)	0/22 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	502	628
STATISTICAL TESTS				
POLY 3	P=0.063	(e)	P=0.482	P=0.221
POLY 1.5	P=0.066	(e)	P=0.489	P=0.228
POLY 6	P=0.059	(e)	P=0.474	P=0.211
COCH-ARM / FISHERS	P=0.072	(e)	P=0.500	P=0.253
MAX-ISO-POLY-3	P=0.078	(e)	P=0.158	P=0.076

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Cortex				
Hematopoietic Cell Proliferation				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	2/42.20	0/41.57	0/41.39
POLY-3 PERCENT (g)	0%	4.7%	0%	0%
TERMINAL (d)	0/30 (0%)	1/26 (4%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	6/10	---	---
STATISTICAL TESTS				
POLY 3	P=0.436N	P=0.221	(e)	(e)
POLY 1.5	P=0.423N	P=0.228	(e)	(e)
POLY 6	P=0.452N	P=0.213	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.273N	P=0.076	(e)	(e)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Cortex Hyperplasia				
LESION RATES				
OVERALL (a)	30/50 (60%)	28/50 (56%)	20/50 (40%)	25/50 (50%)
POLY-3 RATE (b)	30/47.51	28/43.74	20/43.68	25/44.57
POLY-3 PERCENT (g)	63.2%	64%	45.8%	56.1%
TERMINAL (d)	21/30 (70%)	18/26 (69%)	13/29 (45%)	13/19 (68%)
FIRST INCIDENCE	547	610	514	395
STATISTICAL TESTS				
POLY 3	P=0.181N	P=0.554	P=0.067N	P=0.311N
POLY 1.5	P=0.166N	P=0.538N	P=0.052N	P=0.273N
POLY 6	P=0.220N	P=0.461	P=0.083N	P=0.387N
COCH-ARM / FISHERS	P=0.141N	P=0.420N	P=0.036N*	P=0.211N
MAX-ISO-POLY-3	P=0.169N	P=0.465	P=0.049N*	P=0.246N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Cortex Hypertrophy				
LESION RATES				
OVERALL (a)	7/50 (14%)	3/50 (6%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	7/45.65	3/41.79	1/41.57	4/42.54
POLY-3 PERCENT (g)	15.3%	7.2%	2.4%	9.4%
TERMINAL (d)	5/30 (17%)	3/26 (12%)	1/29 (3%)	0/19 (0%)
FIRST INCIDENCE	666	731 (T)	731 (T)	567
STATISTICAL TESTS				
POLY 3	P=0.228N	P=0.195N	P=0.041N*	P=0.302N
POLY 1.5	P=0.225N	P=0.179N	P=0.037N*	P=0.288N
POLY 6	P=0.233N	P=0.217N	P=0.045N*	P=0.326N
COCH-ARM / FISHERS	P=0.220N	P=0.159N	P=0.030N*	P=0.262N
MAX-ISO-POLY-3	P=0.097N	P=0.126N	P=0.022N*	P=0.209N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Cortex Necrosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.39	0/41.79	0/41.57	1/41.67
POLY-3 PERCENT (g)	0%	0%	0%	2.4%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	656
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Adrenal Medulla Hyperplasia				
LESION RATES				
OVERALL (a)	7/50 (14%)	10/50 (20%)	9/50 (18%)	12/49 (24%)
POLY-3 RATE (b)	7/45.88	10/42.55	9/43.05	12/42.70
POLY-3 PERCENT (g)	15.3%	23.5%	20.9%	28.1%
TERMINAL (d)	4/30 (13%)	8/26 (31%)	4/29 (14%)	3/19 (16%)
FIRST INCIDENCE	687	535	526	642
STATISTICAL TESTS				
POLY 3	P=0.110	P=0.237	P=0.339	P=0.110
POLY 1.5	P=0.119	P=0.263	P=0.358	P=0.121
POLY 6	P=0.096	P=0.206	P=0.323	P=0.094
COCH-ARM / FISHERS	P=0.137	P=0.298	P=0.393	P=0.142
MAX-ISO-POLY-3	P=0.117	P=0.172	P=0.251	P=0.074

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Clitoral Gland Hyperplasia				
LESION RATES				
OVERALL (a)	0/47 (0%)	4/48 (8%)	1/45 (2%)	1/48 (2%)
POLY-3 RATE (b)	0/42.41	4/39.95	1/37.77	1/39.67
POLY-3 PERCENT (g)	0%	10%	2.7%	2.5%
TERMINAL (d)	0/28 (0%)	3/24 (13%)	1/26 (4%)	1/18 (6%)
FIRST INCIDENCE	---	689	731 (T)	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.601N	P=0.052	P=0.477	P=0.487
POLY 1.5	P=0.583N	P=0.057	P=0.482	P=0.493
POLY 6	P=0.583	P=0.047*	P=0.472	P=0.477
COCH-ARM / FISHERS	P=0.552N	P=0.061	P=0.489	P=0.505
MAX-ISO-POLY-3	P=0.186	P=0.019*	P=0.155	P=0.160

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Coagulating Gland Hyperplasia				
LESION RATES				
OVERALL (a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Eye Cataract				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/49 (2%)	3/50 (6%)	1/49 (2%)
POLY-3 RATE (b)	1/45.39	1/41.07	3/42.07	1/40.83
POLY-3 PERCENT (g)	2.2%	2.4%	7.1%	2.5%
TERMINAL (d)	1/30 (3%)	1/26 (4%)	1/29 (3%)	0/19 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	659	677
STATISTICAL TESTS				
POLY 3	P=0.513	P=0.738	P=0.278	P=0.737
POLY 1.5	P=0.526	P=0.746	P=0.288	P=0.744
POLY 6	P=0.491	P=0.729	P=0.271	P=0.726
COCH-ARM / FISHERS	P=0.551	P=0.747	P=0.309	P=0.747
MAX-ISO-POLY-3	P=0.425	P=0.472	P=0.145	P=0.470

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Eye Degeneration				
LESION RATES				
OVERALL (a)	1/50 (2%)	3/49 (6%)	1/50 (2%)	0/49 (0%)
POLY-3 RATE (b)	1/45.39	3/41.07	1/41.57	0/40.63
POLY-3 PERCENT (g)	2.2%	7.3%	2.4%	0%
TERMINAL (d)	1/30 (3%)	3/26 (12%)	1/29 (3%)	0/19 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	731 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.232N	P=0.270	P=0.741	P=0.522N
POLY 1.5	P=0.221N	P=0.282	P=0.748	P=0.516N
POLY 6	P=0.249N	P=0.256	P=0.734	P=0.533N
COCH-ARM / FISHERS	P=0.203N	P=0.301	P=0.753N	P=0.505N
MAX-ISO-POLY-3	P=0.178N	P=0.141	P=0.475	P=0.184N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Eye: Retina Atrophy				
LESION RATES				
OVERALL (a)	1/50 (2%)	4/49 (8%)	3/50 (6%)	2/49 (4%)
POLY-3 RATE (b)	1/45.39	4/42.06	3/42.88	2/41.11
POLY-3 PERCENT (g)	2.2%	9.5%	7%	4.9%
TERMINAL (d)	1/30 (3%)	1/26 (4%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	731 (T)	541	421	655
STATISTICAL TESTS				
POLY 3	P=0.486	P=0.156	P=0.285	P=0.466
POLY 1.5	P=0.504	P=0.163	P=0.292	P=0.475
POLY 6	P=0.460	P=0.149	P=0.280	P=0.451
COCH-ARM / FISHERS	P=0.537	P=0.175	P=0.309	P=0.492
MAX-ISO-POLY-3	P=0.280	P=0.076	P=0.146	P=0.260

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Harderian Gland Hyperplasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/45.39	0/41.79	1/41.57	0/41.39
POLY-3 PERCENT (g)	4.4%	0%	2.4%	0%
TERMINAL (d)	2/30 (7%)	0/26 (0%)	1/29 (3%)	0/19 (0%)
FIRST INCIDENCE	731 (T)	---	731 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.189N	P=0.256N	P=0.531N	P=0.258N
POLY 1.5	P=0.189N	P=0.248N	P=0.519N	P=0.250N
POLY 6	P=0.191N	P=0.266N	P=0.541N	P=0.271N
COCH-ARM / FISHERS	P=0.188N	P=0.247N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.104N	P=0.094N	P=0.314N	P=0.096N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Heart				
Cardiomyopathy				
LESION RATES				
OVERALL (a)	33/50 (66%)	34/50 (68%)	32/50 (64%)	27/50 (54%)
POLY-3 RATE (b)	33/47.87	34/44.86	32/43.95	27/44.93
POLY-3 PERCENT (g)	68.9%	75.8%	72.8%	60.1%
TERMINAL (d)	22/30 (73%)	22/26 (85%)	25/29 (86%)	13/19 (68%)
FIRST INCIDENCE	547	451	423	567
STATISTICAL TESTS				
POLY 3	P=0.134N	P=0.297	P=0.426	P=0.243N
POLY 1.5	P=0.123N	P=0.382	P=0.529	P=0.214N
POLY 6	P=0.158N	P=0.202	P=0.303	P=0.288N
COCH-ARM / FISHERS	P=0.091N	P=0.500	P=0.500N	P=0.154N
MAX-ISO-POLY-3	P=0.142N	P=0.226	P=0.340	P=0.186N

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Heart Thrombosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.39	1/42.39	0/41.57	1/41.39
POLY-3 PERCENT (g)	0%	2.4%	0%	2.4%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	1/19 (5%)
FIRST INCIDENCE	---	535	---	731 (T)
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Islets, Pancreatic Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	1/41.83	0/41.57	0/41.39
POLY-3 PERCENT (g)	0%	2.4%	0%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	719	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Kidney Infarct				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/45.39	1/42.55	0/41.57	2/41.95
POLY-3 PERCENT (g)	2.2%	2.4%	0%	4.8%
TERMINAL (d)	1/30 (3%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	731 (T)	451	---	607
STATISTICAL TESTS				
POLY 3	P=0.350	P=0.746	P=0.517N	P=0.473
POLY 1.5	P=0.356	P=0.752	P=0.511N	P=0.482
POLY 6	P=0.341	P=0.738	P=0.524N	P=0.457
COCH-ARM / FISHERS	P=0.366	P=0.753N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.270	P=0.481	P=0.180N	P=0.265

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Kidney Inflammation				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	0/41.79	0/41.57	0/41.39
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Kidney Nephropathy				
LESION RATES				
OVERALL (a)	45/50 (90%)	40/50 (80%)	43/50 (86%)	42/50 (84%)
POLY-3 RATE (b)	45/49.42	40/47.15	43/46.87	42/47.50
POLY-3 PERCENT (g)	91.1%	84.8%	91.7%	88.4%
TERMINAL (d)	29/30 (97%)	22/26 (85%)	28/29 (97%)	15/19 (79%)
FIRST INCIDENCE	547	451	514	579
STATISTICAL TESTS				
POLY 3	P=0.521N	P=0.251N	P=0.604	P=0.462N
POLY 1.5	P=0.505N	P=0.191N	P=0.581N	P=0.426N
POLY 6	P=0.496N	P=0.338N	P=0.532	P=0.468N
COCH-ARM / FISHERS	P=0.369N	P=0.131N	P=0.380N	P=0.277N
MAX-ISO-POLY-3	P=0.517N	P=0.162N	P=0.449	P=0.332N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Kidney: Renal Tubule Hyperplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/45.41	2/41.79	0/41.57	2/41.39
POLY-3 PERCENT (g)	2.2%	4.8%	0%	4.8%
TERMINAL (d)	0/30 (0%)	2/26 (8%)	0/29 (0%)	2/19 (11%)
FIRST INCIDENCE	725	731 (T)	---	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.440	P=0.471	P=0.518N	P=0.468
POLY 1.5	P=0.451	P=0.483	P=0.511N	P=0.480
POLY 6	P=0.423	P=0.456	P=0.524N	P=0.448
COCH-ARM / FISHERS	P=0.469	P=0.500	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.393	P=0.264	P=0.180N	P=0.263

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Kidney: Renal Tubule Necrosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	0/41.79	1/42.22	0/41.39
POLY-3 PERCENT (g)	0%	0%	2.4%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	514	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Kidney: Transitional Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	0/41.79	0/41.57	0/41.39
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Larynx				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/45.39	2/41.93	1/41.57	0/41.39
POLY-3 PERCENT (g)	4.4%	4.8%	2.4%	0%
TERMINAL (d)	2/30 (7%)	1/26 (4%)	1/29 (3%)	0/19 (0%)
FIRST INCIDENCE	731 (T)	694	731 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.140N	P=0.665	P=0.531N	P=0.258N
POLY 1.5	P=0.135N	P=0.677	P=0.519N	P=0.250N
POLY 6	P=0.149N	P=0.651	P=0.541N	P=0.271N
COCH-ARM / FISHERS	P=0.125N	P=0.691N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.179N	P=0.468	P=0.314N	P=0.096N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Larynx Metaplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.63	3/42.35	0/41.57	0/41.39
POLY-3 PERCENT (g)	2.2%	7.1%	0%	0%
TERMINAL (d)	0/30 (0%)	1/26 (4%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	666	610	---	---
STATISTICAL TESTS				
POLY 3	P=0.173N	P=0.279	P=0.519N	P=0.519N
POLY 1.5	P=0.165N	P=0.290	P=0.511N	P=0.512N
POLY 6	P=0.187N	P=0.266	P=0.526N	P=0.531N
COCH-ARM / FISHERS	P=0.153N	P=0.309	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.138N	P=0.145	P=0.181N	P=0.182N

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
<hr/>				
Liver Angiectasis				
<hr/>				
LESION RATES				
OVERALL (a)	2/50 (4%)	4/50 (8%)	4/50 (8%)	5/50 (10%)
POLY-3 RATE (b)	2/45.63	4/42.10	4/42.29	5/41.64
POLY-3 PERCENT (g)	4.4%	9.5%	9.5%	12%
TERMINAL (d)	1/30 (3%)	2/26 (8%)	2/29 (7%)	2/19 (11%)
FIRST INCIDENCE	666	661	583	701
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.157	P=0.300	P=0.302	P=0.180
POLY 1.5	P=0.171	P=0.316	P=0.315	P=0.193
POLY 6	P=0.137	P=0.282	P=0.292	P=0.160
COCH-ARM / FISHERS	P=0.194	P=0.339	P=0.339	P=0.218
MAX-ISO-POLY-3	P=0.179	P=0.182	P=0.183	P=0.104

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Basophilic Focus				
LESION RATES				
OVERALL (a)	46/50 (92%)	41/50 (82%)	32/50 (64%)	29/50 (58%)
POLY-3 RATE (b)	46/49.15	41/46.74	32/44.53	29/44.34
POLY-3 PERCENT (g)	93.6%	87.7%	71.9%	65.4%
TERMINAL (d)	29/30 (97%)	23/26 (89%)	22/29 (76%)	13/19 (68%)
FIRST INCIDENCE	547	541	423	567
STATISTICAL TESTS				
POLY 3	P<0.001N**	P=0.240N	P=0.002N**	P<0.001N**
POLY 1.5	P<0.001N**	P=0.181N	P<0.001N**	P<0.001N**
POLY 6	P<0.001N**	P=0.308N	P=0.005N**	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.117N	P<0.001N**	P<0.001N**
MAX-ISO-POLY-3	P<0.001N**	P=0.143N	P<0.001N**	P<0.001N**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Clear Cell Focus				
LESION RATES				
OVERALL (a)	15/50 (30%)	19/50 (38%)	22/50 (44%)	18/50 (36%)
POLY-3 RATE (b)	15/45.58	19/41.79	22/42.18	18/42.92
POLY-3 PERCENT (g)	32.9%	45.5%	52.2%	41.9%
TERMINAL (d)	13/30 (43%)	19/26 (73%)	20/29 (69%)	13/19 (68%)
FIRST INCIDENCE	687	731 (T)	563	567
STATISTICAL TESTS				
POLY 3	P=0.240	P=0.157	P=0.048*	P=0.252
POLY 1.5	P=0.268	P=0.200	P=0.067	P=0.279
POLY 6	P=0.196	P=0.108	P=0.033*	P=0.210
COCH-ARM / FISHERS	P=0.328	P=0.263	P=0.107	P=0.335
MAX-ISO-POLY-3	P=0.137	P=0.119	P=0.034*	P=0.193

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Degeneration Cystic				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	4/50 (8%)	7/50 (14%)
POLY-3 RATE (b)	0/45.39	2/41.79	4/41.86	7/42.26
POLY-3 PERCENT (g)	0%	4.8%	9.6%	16.6%
TERMINAL (d)	0/30 (0%)	2/26 (8%)	2/29 (7%)	1/19 (5%)
FIRST INCIDENCE	---	731 (T)	659	676
STATISTICAL TESTS				
POLY 3	P=0.002**	P=0.219	P=0.050*	P=0.005**
POLY 1.5	P=0.002**	P=0.227	P=0.054	P=0.006**
POLY 6	P<0.001**	P=0.210	P=0.047*	P=0.004**
COCH-ARM / FISHERS	P=0.003**	P=0.247	P=0.059	P=0.006**
MAX-ISO-POLY-3	P=0.003**	P=0.076	P=0.019*	P=0.002**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Eosinophilic Focus				
LESION RATES				
OVERALL (a)	6/50 (12%)	11/50 (22%)	7/50 (14%)	16/50 (32%)
POLY-3 RATE (b)	6/46.67	11/42.60	7/42.00	16/42.94
POLY-3 PERCENT (g)	12.9%	25.8%	16.7%	37.3%
TERMINAL (d)	2/30 (7%)	8/26 (31%)	6/29 (21%)	7/19 (37%)
FIRST INCIDENCE	547	551	606	655
STATISTICAL TESTS				
POLY 3	P=0.007**	P=0.097	P=0.419	P=0.006**
POLY 1.5	P=0.009**	P=0.115	P=0.450	P=0.008**
POLY 6	P=0.005**	P=0.077	P=0.389	P=0.004**
COCH-ARM / FISHERS	P=0.016*	P=0.143	P=0.500	P=0.014*
MAX-ISO-POLY-3	P=0.005**	P=0.066	P=0.316	P=0.004**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Fatty Change Diffuse				
LESION RATES				
OVERALL (a)	19/50 (38%)	30/50 (60%)	26/50 (52%)	30/50 (60%)
POLY-3 RATE (b)	19/45.80	30/45.90	26/45.05	30/44.79
POLY-3 PERCENT (g)	41.5%	65.4%	57.7%	67%
TERMINAL (d)	13/30 (43%)	15/26 (58%)	17/29 (59%)	13/19 (68%)
FIRST INCIDENCE	687	451	514	567
STATISTICAL TESTS				
POLY 3	P=0.023*	P=0.014*	P=0.084	P=0.009**
POLY 1.5	P=0.028*	P=0.016*	P=0.092	P=0.012*
POLY 6	P=0.019*	P=0.014*	P=0.083	P=0.008**
COCH-ARM / FISHERS	P=0.049*	P=0.022*	P=0.114	P=0.022*
MAX-ISO-POLY-3	P=0.008**	P=0.008**	P=0.057	P=0.005**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Fatty Change Focal				
LESION RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	2/45.39	1/41.95	3/41.57	0/41.39
POLY-3 PERCENT (g)	4.4%	2.4%	7.2%	0%
TERMINAL (d)	2/30 (7%)	0/26 (0%)	3/29 (10%)	0/19 (0%)
FIRST INCIDENCE	731 (T)	689	731 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.266N	P=0.527N	P=0.460	P=0.258N
POLY 1.5	P=0.257N	P=0.516N	P=0.475	P=0.250N
POLY 6	P=0.283N	P=0.541N	P=0.446	P=0.271N
COCH-ARM / FISHERS	P=0.242N	P=0.500N	P=0.500	P=0.247N
MAX-ISO-POLY-3	P=0.207N	P=0.310N	P=0.297	P=0.096N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Hepatodiaphragmatic Nodule				
LESION RATES				
OVERALL (a)	3/50 (6%)	6/50 (12%)	4/50 (8%)	5/50 (10%)
POLY-3 RATE (b)	3/45.39	6/42.35	4/41.80	5/41.95
POLY-3 PERCENT (g)	6.6%	14.2%	9.6%	11.9%
TERMINAL (d)	3/30 (10%)	4/26 (15%)	3/29 (10%)	3/19 (16%)
FIRST INCIDENCE	731 (T)	610	670	656
STATISTICAL TESTS				
POLY 3	P=0.347	P=0.208	P=0.455	P=0.313
POLY 1.5	P=0.366	P=0.222	P=0.472	P=0.329
POLY 6	P=0.318	P=0.192	P=0.441	P=0.290
COCH-ARM / FISHERS	P=0.401	P=0.243	P=0.500	P=0.357
MAX-ISO-POLY-3	P=0.350	P=0.130	P=0.314	P=0.205

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	42/50 (84%)	48/50 (96%)	49/50 (98%)	48/50 (96%)
POLY-3 RATE (b)	42/48.92	48/48.82	49/49.19	48/48.16
POLY-3 PERCENT (g)	85.9%	98.3%	99.6%	99.7%
TERMINAL (d)	26/30 (87%)	26/26 (100%)	29/29 (100%)	19/19 (100%)
FIRST INCIDENCE	551	451	423	567
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.018*	P=0.007**	P=0.008**
POLY 1.5	P=0.002**	P=0.026*	P=0.009**	P=0.010**
POLY 6	P<0.001**	P=0.015*	P=0.009**	P=0.009**
COCH-ARM / FISHERS	P=0.029*	P=0.046*	P=0.015*	P=0.046*
MAX-ISO-POLY-3	P<0.001**	P=0.006**	P=0.002**	P=0.002**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Liver				
Mixed Cell Focus				
LESION RATES				
OVERALL (a)	4/50 (8%)	16/50 (32%)	12/50 (24%)	13/50 (26%)
POLY-3 RATE (b)	4/45.52	16/42.93	12/41.57	13/42.26
POLY-3 PERCENT (g)	8.8%	37.3%	28.9%	30.8%
TERMINAL (d)	2/30 (7%)	9/26 (35%)	12/29 (41%)	7/19 (37%)
FIRST INCIDENCE	703	551	731 (T)	677
STATISTICAL TESTS				
POLY 3	P=0.040*	P<0.001**	P=0.014*	P=0.008**
POLY 1.5	P=0.051	P<0.001**	P=0.018*	P=0.010**
POLY 6	P=0.027*	P<0.001**	P=0.011*	P=0.006**
COCH-ARM / FISHERS	P=0.080	P=0.003**	P=0.027*	P=0.016*
MAX-ISO-POLY-3	P=0.008**	P<0.001**	P=0.009**	P=0.005**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Liver Necrosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	3/50 (6%)	5/50 (10%)	11/50 (22%)
POLY-3 RATE (b)	0/45.39	3/43.31	5/43.65	11/43.28
POLY-3 PERCENT (g)	0%	6.9%	11.5%	25.4%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	2/19 (11%)
FIRST INCIDENCE	---	451	514	567
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.110	P=0.027*	P<0.001**
POLY 1.5	P<0.001**	P=0.114	P=0.028*	P<0.001**
POLY 6	P<0.001**	P=0.106	P=0.027*	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.121	P=0.028*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.038*	P=0.010**	P<0.001**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Liver: Bile Duct Hyperplasia				
LESION RATES				
OVERALL (a)	7/50 (14%)	0/50 (0%)	1/50 (2%)	6/50 (12%)
POLY-3 RATE (b)	7/46.65	0/41.79	1/41.82	6/42.35
POLY-3 PERCENT (g)	15%	0%	2.4%	14.2%
TERMINAL (d)	3/30 (10%)	0/26 (0%)	0/29 (0%)	1/19 (5%)
FIRST INCIDENCE	579	---	663	655
STATISTICAL TESTS				
POLY 3	P=0.461	P=0.012N*	P=0.043N*	P=0.574N
POLY 1.5	P=0.461	P=0.010N**	P=0.038N*	P=0.547N
POLY 6	P=0.459	P=0.015N*	P=0.050N*	P=0.615N
COCH-ARM / FISHERS	P=0.463	P=0.006N**	P=0.030N*	P=0.500N
MAX-ISO-POLY-3	P=0.083N	P=0.005N**	P=0.024N*	P=0.457N

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Lung				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/45.96	1/41.79	1/41.57	0/41.39
POLY-3 PERCENT (g)	2.2%	2.4%	2.4%	0%
TERMINAL (d)	0/30 (0%)	1/26 (4%)	1/29 (3%)	0/19 (0%)
FIRST INCIDENCE	551	731 (T)	731 (T)	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
<hr/>				
Lung Thrombosis				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.39	0/41.79	0/41.57	1/41.42
POLY-3 PERCENT (g)	0%	0%	0%	2.4%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	724
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Lung: Alveolar Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	12/50 (24%)	13/50 (26%)	13/50 (26%)	8/50 (16%)
POLY-3 RATE (b)	12/45.68	13/42.22	13/41.80	8/42.05
POLY-3 PERCENT (g)	26.3%	30.8%	31.1%	19%
TERMINAL (d)	8/30 (27%)	9/26 (35%)	12/29 (41%)	4/19 (21%)
FIRST INCIDENCE	698	689	670	656
STATISTICAL TESTS				
POLY 3	P=0.221N	P=0.408	P=0.396	P=0.289N
POLY 1.5	P=0.202N	P=0.446	P=0.436	P=0.267N
POLY 6	P=0.259N	P=0.361	P=0.357	P=0.329N
COCH-ARM / FISHERS	P=0.167N	P=0.500	P=0.500	P=0.227N
MAX-ISO-POLY-3	P=0.231N	P=0.325	P=0.315	P=0.218N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Lung: Alveolar Epithelium Metaplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/45.96	0/41.79	2/41.57	2/41.71
POLY-3 PERCENT (g)	2.2%	0%	4.8%	4.8%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	2/29 (7%)	1/19 (5%)
FIRST INCIDENCE	551	---	731 (T)	642
STATISTICAL TESTS				
POLY 3	P=0.227	P=0.519N	P=0.465	P=0.466
POLY 1.5	P=0.234	P=0.511N	P=0.478	P=0.479
POLY 6	P=0.216	P=0.529N	P=0.452	P=0.447
COCH-ARM / FISHERS	P=0.245	P=0.500N	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.264	P=0.182N	P=0.261	P=0.262

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Lung: Alveolus Infiltration Cellular Histiocyte				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/45.39	0/41.79	2/42.61	1/41.93
POLY-3 PERCENT (g)	0%	0%	4.7%	2.4%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	563	567
STATISTICAL TESTS				
POLY 3	P=0.225	(e)	P=0.223	P=0.484
POLY 1.5	P=0.232	(e)	P=0.228	P=0.490
POLY 6	P=0.212	(e)	P=0.220	P=0.475
COCH-ARM / FISHERS	P=0.246	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.175	(e)	P=0.076	P=0.158

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Lung: Bronchiole Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/45.39	2/41.79	1/41.57	1/41.39
POLY-3 PERCENT (g)	0%	4.8%	2.4%	2.4%
TERMINAL (d)	0/30 (0%)	2/26 (8%)	1/29 (3%)	1/19 (5%)
FIRST INCIDENCE	---	731 (T)	731 (T)	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.456	P=0.219	P=0.482	P=0.482
POLY 1.5	P=0.472	P=0.227	P=0.489	P=0.488
POLY 6	P=0.430	P=0.210	P=0.476	P=0.471
COCH-ARM / FISHERS	P=0.500	P=0.247	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.277	P=0.076	P=0.158	P=0.158

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Lymph Node, Bronchial Ectasia				
LESION RATES				
OVERALL (a)	0/4 (0%)	0/7 (0%)	0/4 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/2.58	0/5.11	0/2.40	0/7.62
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/2 (0%)	0/1 (0%)	0/1 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Lymph Node, Mediastinal Hyperplasia Lymphoid				
LESION RATES				
OVERALL (a)	1/33 (3%)	1/26 (4%)	0/29 (0%)	0/38 (0%)
POLY-3 RATE (b)	1/29.95	1/22.53	0/24.02	0/31.82
POLY-3 PERCENT (g)	3.3%	4.4%	0%	0%
TERMINAL (d)	0/18 (0%)	1/16 (6%)	0/18 (0%)	0/16 (0%)
FIRST INCIDENCE	703	731 (T)	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Mammary Gland				
Galactocele				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/45.39	2/42.29	2/42.11	0/41.39
POLY-3 PERCENT (g)	2.2%	4.7%	4.8%	0%
TERMINAL (d)	1/30 (3%)	0/26 (0%)	1/29 (3%)	0/19 (0%)
FIRST INCIDENCE	731 (T)	633	563	---
STATISTICAL TESTS				
POLY 3	P=0.330N	P=0.475	P=0.474	P=0.518N
POLY 1.5	P=0.317N	P=0.485	P=0.483	P=0.512N
POLY 6	P=0.351N	P=0.464	P=0.466	P=0.529N
COCH-ARM / FISHERS	P=0.296N	P=0.500	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.248N	P=0.267	P=0.266	P=0.181N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Mesentery				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/13 (0%)	1/20 (5%)	0/23 (0%)	0/24 (0%)
POLY-3 RATE (b)	0/10.76	1/17.67	0/20.22	0/20.33
POLY-3 PERCENT (g)	0%	5.7%	0%	0%
TERMINAL (d)	0/7 (0%)	0/11 (0%)	0/14 (0%)	0/10 (0%)
FIRST INCIDENCE	---	661	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm

Mesentery: Fat
Necrosis

LESION RATES

OVERALL (a)	13/13 (100%)	19/20 (95%)	22/23 (96%)	23/24 (96%)
POLY-3 RATE (b)	13/13.00	19/19.74	22/22.65	23/23.63
POLY-3 PERCENT (g)	100%	96.3%	97.1%	97.3%
TERMINAL (d)	7/7 (100%)	11/11 (100%)	14/14 (100%)	10/10 (100%)
FIRST INCIDENCE	547	541	563	395

STATISTICAL TESTS

POLY 3	P=0.614N	P=0.714N	P=0.795N	P=0.814N
POLY 1.5	P=0.560N	P=0.647N	P=0.701N	P=0.715N
POLY 6	P=0.736N	P=0.849N	P=0.950N	P=0.965N
COCH-ARM / FISHERS	P=0.512N	P=0.606N	P=0.639N	P=0.649N
MAX-ISO-POLY-3	P=0.447N	P=0.232N	P=0.254N	P=0.259N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Nose				
Foreign Body				
LESION RATES				
OVERALL (a)	2/50 (4%)	4/50 (8%)	0/50 (0%)	5/50 (10%)
POLY-3 RATE (b)	2/45.43	4/41.99	0/41.57	5/41.39
POLY-3 PERCENT (g)	4.4%	9.5%	0%	12.1%
TERMINAL (d)	1/30 (3%)	2/26 (8%)	0/29 (0%)	5/19 (26%)
FIRST INCIDENCE	719	691	---	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.185	P=0.301	P=0.257N	P=0.179
POLY 1.5	P=0.196	P=0.316	P=0.250N	P=0.193
POLY 6	P=0.169	P=0.283	P=0.265N	P=0.158
COCH-ARM / FISHERS	P=0.216	P=0.339	P=0.247N	P=0.218
MAX-ISO-POLY-3	P=0.124	P=0.182	P=0.095N	P=0.104

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
<hr/>				
Nose				
Inflammation Acute				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.41	0/41.79	0/41.57	0/41.39
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	724	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Nose				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	7/50 (14%)	45/50 (90%)	46/50 (92%)	46/50 (92%)
POLY-3 RATE (b)	7/46.29	45/49.04	46/47.48	46/47.71
POLY-3 PERCENT (g)	15.1%	91.8%	96.9%	96.4%
TERMINAL (d)	3/30 (10%)	25/26 (96%)	29/29 (100%)	19/19 (100%)
FIRST INCIDENCE	592	451	514	395
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Nose				
Polyp, Inflammatory				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	0/45.39	0/41.79	0/41.57	3/42.03
POLY-3 PERCENT (g)	0%	0%	0%	7.1%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	642
STATISTICAL TESTS				
POLY 3	P=0.010**	(e)	(e)	P=0.105
POLY 1.5	P=0.010**	(e)	(e)	P=0.110
POLY 6	P=0.010**	(e)	(e)	P=0.098
COCH-ARM / FISHERS	P=0.012*	(e)	(e)	P=0.121
MAX-ISO-POLY-3	P=0.009**	(e)	(e)	P=0.038*

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Nose				
Thrombosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	3/50 (6%)	2/50 (4%)	7/50 (14%)
POLY-3 RATE (b)	0/45.39	3/43.89	2/42.55	7/43.30
POLY-3 PERCENT (g)	0%	6.8%	4.7%	16.2%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	1/19 (5%)
FIRST INCIDENCE	---	451	526	395
STATISTICAL TESTS				
POLY 3	P=0.003**	P=0.113	P=0.223	P=0.006**
POLY 1.5	P=0.003**	P=0.116	P=0.228	P=0.007**
POLY 6	P=0.003**	P=0.108	P=0.219	P=0.005**
COCH-ARM / FISHERS	P=0.004**	P=0.121	P=0.247	P=0.006**
MAX-ISO-POLY-3	P=0.002**	P=0.038*	P=0.076	P=0.002**

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Nose: Olfactory Epithelium Metaplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/45.39	0/41.79	1/41.57	1/41.67
POLY-3 PERCENT (g)	0%	0%	2.4%	2.4%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	1/29 (3%)	0/19 (0%)
FIRST INCIDENCE	---	---	731 (T)	656
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Nose: Olfactory Epithelium Metaplasia Respiratory				
LESION RATES				
OVERALL (a)	1/50 (2%)	50/50 (100%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	1/45.43	50/50.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	2.2%	100%	100%	100%
TERMINAL (d)	0/30 (0%)	26/26 (100%)	29/29 (100%)	19/19 (100%)
FIRST INCIDENCE	719	451	421	116
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Nose: Respiratory Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	4/50 (8%)	12/50 (24%)	14/50 (28%)	27/50 (54%)
POLY-3 RATE (b)	4/45.82	12/43.06	14/42.70	27/44.35
POLY-3 PERCENT (g)	8.7%	27.9%	32.8%	60.9%
TERMINAL (d)	1/30 (3%)	7/26 (27%)	9/29 (31%)	12/19 (63%)
FIRST INCIDENCE	675	600	603	607
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.017*	P=0.004**	P<0.001**
POLY 1.5	P<0.001**	P=0.020*	P=0.005**	P<0.001**
POLY 6	P<0.001**	P=0.013*	P=0.003**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.027*	P=0.009**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.010**	P=0.002**	P<0.001**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Nose: Respiratory Epithelium Metaplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	0/45.39	0/41.79	0/41.57	3/41.71
POLY-3 PERCENT (g)	0%	0%	0%	7.2%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	2/19 (11%)
FIRST INCIDENCE	---	---	---	645
STATISTICAL TESTS				
POLY 3	P=0.010**	(e)	(e)	P=0.104
POLY 1.5	P=0.010**	(e)	(e)	P=0.109
POLY 6	P=0.010**	(e)	(e)	P=0.096
COCH-ARM / FISHERS	P=0.012*	(e)	(e)	P=0.121
MAX-ISO-POLY-3	P=0.009**	(e)	(e)	P=0.038*

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Nose: Turbinate Atrophy				
LESION RATES				
OVERALL (a)	0/50 (0%)	50/50 (100%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	0/45.39	50/50.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	0%	100%	100%	100%
TERMINAL (d)	0/30 (0%)	26/26 (100%)	29/29 (100%)	19/19 (100%)
FIRST INCIDENCE	---	451	421	116
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Nose: Turbinate Hyperostosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	50/50 (100%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	0/45.39	50/50.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	0%	100%	100%	100%
TERMINAL (d)	0/30 (0%)	26/26 (100%)	29/29 (100%)	19/19 (100%)
FIRST INCIDENCE	---	451	421	116
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Ovary: Bursa Dilatation				
LESION RATES				
OVERALL (a)	5/50 (10%)	11/50 (22%)	17/50 (34%)	24/50 (48%)
POLY-3 RATE (b)	5/46.13	11/44.37	17/44.02	24/45.06
POLY-3 PERCENT (g)	10.8%	24.8%	38.6%	53.3%
TERMINAL (d)	1/30 (3%)	4/26 (15%)	10/29 (35%)	11/19 (58%)
FIRST INCIDENCE	656	551	526	395
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.069	P=0.002**	P<0.001**
POLY 1.5	P<0.001**	P=0.075	P=0.002**	P<0.001**
POLY 6	P<0.001**	P=0.064	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.086	P=0.004**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.042*	P<0.001**	P<0.001**

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
<hr/>				
Pancreas Atrophy				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	0/41.79	0/41.57	0/41.39
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Pancreas				
Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	0/41.79	0/41.57	0/41.39
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Pancreas: Acinus Atrophy				
LESION RATES				
OVERALL (a)	9/50 (18%)	13/50 (26%)	11/50 (22%)	11/50 (22%)
POLY-3 RATE (b)	9/46.27	13/44.22	11/43.58	11/43.55
POLY-3 PERCENT (g)	19.5%	29.4%	25.2%	25.3%
TERMINAL (d)	6/30 (20%)	6/26 (23%)	7/29 (24%)	5/19 (26%)
FIRST INCIDENCE	579	470	421	567
STATISTICAL TESTS				
POLY 3	P=0.385	P=0.194	P=0.342	P=0.342
POLY 1.5	P=0.407	P=0.211	P=0.367	P=0.361
POLY 6	P=0.349	P=0.175	P=0.316	P=0.311
COCH-ARM / FISHERS	P=0.454	P=0.235	P=0.402	P=0.402
MAX-ISO-POLY-3	P=0.355	P=0.139	P=0.261	P=0.260

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Pancreas: Acinus Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	0/45.39	1/41.79	3/41.57	3/41.75
POLY-3 PERCENT (g)	0%	2.4%	7.2%	7.2%
TERMINAL (d)	0/30 (0%)	1/26 (4%)	3/29 (10%)	0/19 (0%)
FIRST INCIDENCE	---	731 (T)	731 (T)	676
STATISTICAL TESTS				
POLY 3	P=0.055	P=0.484	P=0.103	P=0.104
POLY 1.5	P=0.059	P=0.490	P=0.109	P=0.109
POLY 6	P=0.049*	P=0.475	P=0.098	P=0.096
COCH-ARM / FISHERS	P=0.067	P=0.500	P=0.121	P=0.121
MAX-ISO-POLY-3	P=0.078	P=0.158	P=0.038*	P=0.038*

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
<hr/>				
Parathyroid Gland Hyperplasia				
<hr/>				
LESION RATES				
OVERALL (a)	1/49 (2%)	0/46 (0%)	0/45 (0%)	0/47 (0%)
POLY-3 RATE (b)	1/44.63	0/38.12	0/37.77	0/38.63
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/23 (0%)	0/26 (0%)	0/17 (0%)
FIRST INCIDENCE	666	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Pituitary Gland: Pars Distalis Angiectasis				
LESION RATES				
OVERALL (a)	4/50 (8%)	4/49 (8%)	4/49 (8%)	1/49 (2%)
POLY-3 RATE (b)	4/45.39	4/41.31	4/41.52	1/40.93
POLY-3 PERCENT (g)	8.8%	9.7%	9.6%	2.4%
TERMINAL (d)	4/30 (13%)	3/25 (12%)	2/29 (7%)	1/19 (5%)
FIRST INCIDENCE	731 (T)	571	579	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.162N	P=0.591	P=0.594	P=0.211N
POLY 1.5	P=0.154N	P=0.608	P=0.607	P=0.202N
POLY 6	P=0.178N	P=0.569	P=0.584	P=0.228N
COCH-ARM / FISHERS	P=0.137N	P=0.631	P=0.631	P=0.187N
MAX-ISO-POLY-3	P=0.198N	P=0.445	P=0.449	P=0.113N

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Pituitary Gland: Pars Distalis Hyperplasia				
LESION RATES				
OVERALL (a)	12/50 (24%)	6/49 (12%)	12/49 (24%)	11/49 (22%)
POLY-3 RATE (b)	12/45.73	6/42.09	12/41.76	11/42.52
POLY-3 PERCENT (g)	26.2%	14.3%	28.7%	25.9%
TERMINAL (d)	10/30 (33%)	3/25 (12%)	9/29 (31%)	6/19 (32%)
FIRST INCIDENCE	675	571	514	579
STATISTICAL TESTS				
POLY 3	P=0.386	P=0.128N	P=0.492	P=0.580N
POLY 1.5	P=0.396	P=0.118N	P=0.521	P=0.562N
POLY 6	P=0.365	P=0.142N	P=0.466	P=0.583
COCH-ARM / FISHERS	P=0.424	P=0.104N	P=0.570	P=0.522N
MAX-ISO-POLY-3	P=0.372	P=0.088N	P=0.398	P=0.484N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Salivary Glands				
Basophilic Focus				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/45.39	0/41.79	2/41.57	1/41.76
POLY-3 PERCENT (g)	0%	0%	4.8%	2.4%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	2/29 (7%)	0/19 (0%)
FIRST INCIDENCE	---	---	731 (T)	628
STATISTICAL TESTS				
POLY 3	P=0.225	(e)	P=0.218	P=0.483
POLY 1.5	P=0.232	(e)	P=0.225	P=0.489
POLY 6	P=0.212	(e)	P=0.211	P=0.474
COCH-ARM / FISHERS	P=0.246	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.171	(e)	P=0.076	P=0.158

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Cyst Epithelial Inclusion				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.39	0/41.79	0/41.57	0/41.39
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	1/30 (3%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	731 (T)	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
CAS Number: 75-35-4

Date Report Requested: 12/12/2011
Time Report Requested: 09:47:55
First Dose M/F: 06/06/05 / 06/06/05
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Skin				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/45.39	1/41.79	1/41.57	1/41.39
POLY-3 PERCENT (g)	0%	2.4%	2.4%	2.4%
TERMINAL (d)	0/30 (0%)	1/26 (4%)	1/29 (3%)	1/19 (5%)
FIRST INCIDENCE	---	731 (T)	731 (T)	731 (T)
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Spleen Fibrosis				
LESION RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	2/45.39	1/42.00	2/42.01	4/41.73
POLY-3 PERCENT (g)	4.4%	2.4%	4.8%	9.6%
TERMINAL (d)	2/30 (7%)	0/26 (0%)	1/29 (3%)	2/19 (11%)
FIRST INCIDENCE	731 (T)	675	603	676
STATISTICAL TESTS				
POLY 3	P=0.148	P=0.527N	P=0.666	P=0.299
POLY 1.5	P=0.154	P=0.516N	P=0.676	P=0.313
POLY 6	P=0.139	P=0.540N	P=0.658	P=0.278
COCH-ARM / FISHERS	P=0.164	P=0.500N	P=0.691N	P=0.339
MAX-ISO-POLY-3	P=0.170	P=0.310N	P=0.469	P=0.181

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Spleen				
Hematopoietic Cell Proliferation				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/45.39	0/41.79	2/42.57	1/41.90
POLY-3 PERCENT (g)	0%	0%	4.7%	2.4%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	514	579
STATISTICAL TESTS				
POLY 3	P=0.225	(e)	P=0.223	P=0.484
POLY 1.5	P=0.232	(e)	P=0.228	P=0.490
POLY 6	P=0.212	(e)	P=0.219	P=0.475
COCH-ARM / FISHERS	P=0.246	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.175	(e)	P=0.076	P=0.158

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Spleen Necrosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	0/45.39	0/41.79	0/41.57	3/42.35
POLY-3 PERCENT (g)	0%	0%	0%	7.1%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	607
STATISTICAL TESTS				
POLY 3	P=0.010**	(e)	(e)	P=0.106
POLY 1.5	P=0.011*	(e)	(e)	P=0.111
POLY 6	P=0.010**	(e)	(e)	P=0.100
COCH-ARM / FISHERS	P=0.012*	(e)	(e)	P=0.121
MAX-ISO-POLY-3	P=0.009**	(e)	(e)	P=0.038*

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Stomach, Forestomach Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	0/45.39	1/42.31	2/41.57	2/41.86
POLY-3 PERCENT (g)	0%	2.4%	4.8%	4.8%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	2/29 (7%)	0/19 (0%)
FIRST INCIDENCE	---	571	731 (T)	655
STATISTICAL TESTS				
POLY 3	P=0.140	P=0.486	P=0.218	P=0.219
POLY 1.5	P=0.147	P=0.492	P=0.225	P=0.226
POLY 6	P=0.130	P=0.479	P=0.211	P=0.210
COCH-ARM / FISHERS	P=0.160	P=0.500	P=0.247	P=0.247
MAX-ISO-POLY-3	P=0.157	P=0.158	P=0.076	P=0.076

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Stomach, Forestomach Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	0/41.79	0/41.57	0/41.39
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Stomach, Forestomach Ulcer				
LESION RATES				
OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	3/45.78	1/42.20	1/41.58	3/42.94
POLY-3 PERCENT (g)	6.6%	2.4%	2.4%	7%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	675	610	729	395
STATISTICAL TESTS				
POLY 3	P=0.489	P=0.335N	P=0.340N	P=0.633
POLY 1.5	P=0.493	P=0.322N	P=0.327N	P=0.643
POLY 6	P=0.479	P=0.351N	P=0.355N	P=0.612
COCH-ARM / FISHERS	P=0.500	P=0.309N	P=0.309N	P=0.661N
MAX-ISO-POLY-3	P=0.398	P=0.184N	P=0.190N	P=0.468

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Stomach, Glandular Necrosis				
LESION RATES				
OVERALL (a)	1/50 (2%)	4/50 (8%)	1/50 (2%)	6/50 (12%)
POLY-3 RATE (b)	1/45.60	4/44.23	1/42.22	6/42.59
POLY-3 PERCENT (g)	2.2%	9%	2.4%	14.1%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	675	451	514	567
STATISTICAL TESTS				
POLY 3	P=0.042*	P=0.169	P=0.743	P=0.045*
POLY 1.5	P=0.045*	P=0.174	P=0.750	P=0.049*
POLY 6	P=0.037*	P=0.163	P=0.737	P=0.040*
COCH-ARM / FISHERS	P=0.054	P=0.181	P=0.753N	P=0.056
MAX-ISO-POLY-3	P=0.023*	P=0.081	P=0.478	P=0.022*

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Thyroid Gland: C-Cell Hyperplasia				
LESION RATES				
OVERALL (a)	35/50 (70%)	30/50 (60%)	32/48 (67%)	27/50 (54%)
POLY-3 RATE (b)	35/49.04	30/46.20	32/45.10	27/45.63
POLY-3 PERCENT (g)	71.4%	64.9%	71%	59.2%
TERMINAL (d)	19/30 (63%)	17/26 (65%)	19/28 (68%)	9/19 (47%)
FIRST INCIDENCE	547	451	514	579
STATISTICAL TESTS				
POLY 3	P=0.149N	P=0.321N	P=0.574N	P=0.146N
POLY 1.5	P=0.130N	P=0.264N	P=0.522N	P=0.119N
POLY 6	P=0.180N	P=0.410N	P=0.550	P=0.189N
COCH-ARM / FISHERS	P=0.088N	P=0.201N	P=0.445N	P=0.074N
MAX-ISO-POLY-3	P=0.166N	P=0.252N	P=0.481N	P=0.108N

Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
Thyroid Gland: Follicular Cell Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/48 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.39	1/41.95	0/40.38	1/41.71
POLY-3 PERCENT (g)	0%	2.4%	0%	2.4%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/28 (0%)	0/19 (0%)
FIRST INCIDENCE	---	689	---	642
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm
<hr/>				
Tongue Hyperplasia				
<hr/>				
LESION RATES				
OVERALL (a)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.83	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
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Date Report Requested: 12/12/2011
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Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	25 ppm	50 ppm	100 ppm

Urinary Bladder: Transitional Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.39	0/41.79	0/41.57	0/41.39
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/26 (0%)	0/29 (0%)	0/19 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20303 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Vinylidene chloride
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LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) Number of tumor-bearing animals/Poly-3 number
 - (d) Observed incidence at terminal kill.
 - (e) Value of statistic cannot be computed.
 - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (n) No statistics are calculated if all dose groups have fewer than two tumors.
 - (I) Interim sacrifice
 - (T) Terminal sacrifice
 - # Tumor rates based on numbers of animals necropsied.
 - * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
 - ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
 - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***