

**Experiment Number:** 10472 - 03  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

p-Chloro-a,a,a-trifluorotoluene

**CAS Number:** 98-56-6

**Date Report Requested:** 05/16/2016

**Time Report Requested:** 11:15:09

**First Dose M/F:** 01/17/11 / 01/17/11

**Lab:** BNW

F2\_HSD Rats

**NTP Study Number:** C10472B  
**Lock Date:** 08/29/2013  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** 03/08/2016

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**FOR ALL DOSES THE TUMOR RATES IN THE FOLLOWING TISSUES/ORGANS ARE BASED ON NUMBER OF TISSUES EXAMINED.  
IN OTHER TISSUES/ORGANS RATES ARE BASED ON THE NUMBER OF ANIMALS NECROPSIED.**

Adrenal Cortex

Adrenal Medulla

Brain

Islets, Pancreatic

Kidney

Liver

Lung

Ovary

Parathyroid Gland

Pituitary Gland

Testes

Thyroid Gland

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**SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF P-CHLORO-A,A,A-TRIFLUOROTOLUENE**

**MALE RATS**

**Organ**

Adrenal Cortex  
Intestine Small: Site Unspecified  
Islets, Pancreatic

Liver

Lung

Parathyroid Gland  
Skin

Thyroid Gland: C-Cell

All Organs

**FEMALE RATS**

**Organ**

Adrenal Medulla

Mammary Gland

Ovary

Pituitary Gland: Pars Distalis or Unspecified Site

Pituitary Gland: Pars Intermedia

Thyroid Gland: C-Cell

Uterus

**Morphology**

Adenoma  
Carcinoma  
Adenoma  
Carcinoma  
Carcinoma or Adenoma  
Hepatocellular Carcinoma or Hepatocellular Adenoma  
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma  
Alveolar/Bronchiolar Carcinoma  
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma  
Adenoma  
Fibroma  
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma  
Adenoma  
Carcinoma or Adenoma  
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated

**Morphology**

Pheochromocytoma Benign  
Pheochromocytoma: Benign, Complex, Malignant, NOS  
Adenoma  
Carcinoma  
Carcinoma or Adenoma  
Fibroadenoma  
Fibroma, Fibroadenoma or Adenoma  
Fibroma, Fibroadenoma, Carcinoma, or Adenoma  
Granulosa Cell Tumor Benign  
Adenoma  
Adenoma  
Adenoma  
Carcinoma or Adenoma  
Carcinoma

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**SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF P-CHLORO-A,A,A-TRIFLUOROTOLUENE**

All Organs

Polyp Stromal  
Sarcoma Stromal or Polyp Stromal  
Benign Tumors

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Adrenal Cortex</b>				
<b>Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	3/50 (6%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/40.16	1/37.55	0/37.75	1/31.16
POLY-3 PERCENT (g)	7.5%	2.7%	0%	3.2%
TERMINAL (d)	1/25 (4%)	1/21 (5%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	516	729 (T)	---	645
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.390N	P=0.329N	P=0.129N	P=0.400N
POLY 1.5	P=0.378N	P=0.323N	P=0.123N	P=0.357N
POLY 6	P=0.406N	P=0.336N	P=0.142N	P=0.475N
COCH-ARM / FISHERS	P=0.364N	P=0.309N	P=0.121N	P=0.309N
MAX-ISO-POLY-3	P=0.183N	P=0.178N	P=0.047N*	P=0.248N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTEs	(e)			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma Benign</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	12/50 (24%)	13/50 (26%)	16/50 (32%)	12/50 (24%)
POLY-3 RATE (b)	12/40.39	13/40.02	16/42.28	12/34.28
POLY-3 PERCENT (g)	29.7%	32.5%	37.9%	35%
TERMINAL (d)	8/25 (32%)	6/21 (29%)	4/15 (27%)	2/5 (40%)
FIRST INCIDENCE	374	485	500	476
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.392	P=0.489	P=0.288	P=0.403
POLY 1.5	P=0.497	P=0.476	P=0.274	P=0.483
POLY 6	P=0.246	P=0.523	P=0.296	P=0.284
COCH-ARM / FISHERS	P=0.484N	P=0.500	P=0.252	P=0.592N
MAX-ISO-POLY-3	P=0.455	P=0.391	P=0.218	P=0.321
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma Malignant</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/39.87	0/37.55	2/38.22	2/31.88
POLY-3 PERCENT (g)	5%	0%	5.2%	6.3%
TERMINAL (d)	1/25 (4%)	0/21 (0%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	533	---	607	571
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.359	P=0.250N	P=0.680	P=0.611
POLY 1.5	P=0.396	P=0.247N	P=0.688	P=0.649
POLY 6	P=0.301	P=0.253N	P=0.661	P=0.547
COCH-ARM / FISHERS	P=0.437	P=0.247N	P=0.691N	P=0.691N
MAX-ISO-POLY-3	P=0.396	P=0.088N	P=0.482	P=0.417
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma: Benign, Complex, Malignant, NOS</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	14/50 (28%)	13/50 (26%)	18/50 (36%)	14/50 (28%)
POLY-3 RATE (b)	14/41.00	13/40.02	18/42.75	14/35.31
POLY-3 PERCENT (g)	34.2%	32.5%	42.1%	39.7%
TERMINAL (d)	9/25 (36%)	6/21 (29%)	4/15 (27%)	2/5 (40%)
FIRST INCIDENCE	374	485	500	476
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.321	P=0.531N	P=0.296	P=0.395
POLY 1.5	P=0.417	P=0.536N	P=0.281	P=0.474
POLY 6	P=0.197	P=0.507N	P=0.306	P=0.281
COCH-ARM / FISHERS	P=0.547	P=0.500N	P=0.260	P=0.588N
MAX-ISO-POLY-3	P=0.419	P=0.435N	P=0.226	P=0.317
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			



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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Brain</b>				
<b>Glioma Malignant</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/40.13	1/37.55	1/38.37	0/30.85
POLY-3 PERCENT (g)	5%	2.7%	2.6%	0%
TERMINAL (d)	0/25 (0%)	1/21 (5%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	505	729 (T)	528	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.240N	P=0.523N	P=0.516N	P=0.300N
POLY 1.5	P=0.222N	P=0.517N	P=0.507N	P=0.270N
POLY 6	P=0.272N	P=0.530N	P=0.536N	P=0.352N
COCH-ARM / FISHERS	P=0.200N	P=0.500N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.221N	P=0.305N	P=0.297N	P=0.135N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTEs	(e)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Intestine Small: Jejunum Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/39.26	2/38.18	1/38.16	0/30.85
POLY-3 PERCENT (g)	0%	5.2%	2.6%	0%
TERMINAL (d)	0/25 (0%)	1/21 (5%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	---	525	611	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.452N	P=0.230	P=0.494	(e)
POLY 1.5	P=0.422N	P=0.231	P=0.498	(e)
POLY 6	P=0.501N	P=0.231	P=0.485	(e)
COCH-ARM / FISHERS	P=0.383N	P=0.247	P=0.500	(e)
MAX-ISO-POLY-3	P=0.386	P=0.075	P=0.158	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Intestine Small: Site Unspecified Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/39.26	3/38.18	1/38.16	0/30.85
POLY-3 PERCENT (g)	0%	7.9%	2.6%	0%
TERMINAL (d)	0/25 (0%)	2/21 (10%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	---	525	611	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.350N	P=0.113	P=0.494	(e)
POLY 1.5	P=0.319N	P=0.113	P=0.498	(e)
POLY 6	P=0.404N	P=0.113	P=0.485	(e)
COCH-ARM / FISHERS	P=0.280N	P=0.121	P=0.500	(e)
MAX-ISO-POLY-3	P=0.315N	P=0.037*	P=0.158	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Islets, Pancreatic Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	8/50 (16%)	5/50 (10%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	8/40.43	5/37.82	2/38.17	0/30.85
POLY-3 PERCENT (g)	19.8%	13.2%	5.2%	0%
TERMINAL (d)	4/25 (16%)	4/21 (19%)	1/15 (7%)	0/5 (0%)
FIRST INCIDENCE	533	655	607	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.008N**	P=0.316N	P=0.052N	P=0.011N*
POLY 1.5	P=0.006N**	P=0.306N	P=0.048N*	P=0.007N**
POLY 6	P=0.013N*	P=0.329N	P=0.064N	P=0.025N*
COCH-ARM / FISHERS	P=0.004N**	P=0.277N	P=0.046N*	P=0.003N**
MAX-ISO-POLY-3	P=0.013N*	P=0.225N	P=0.028N*	P=0.009N**
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Islets, Pancreatic Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	4/50 (8%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/39.26	4/37.76	0/37.75	1/31.01
POLY-3 PERCENT (g)	0%	10.6%	0%	3.2%
TERMINAL (d)	0/25 (0%)	3/21 (14%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	---	674	---	686
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.569N	P=0.054	(e)	P=0.453
POLY 1.5	P=0.542N	P=0.055	(e)	P=0.474
POLY 6	P=0.609N	P=0.053	(e)	P=0.420
COCH-ARM / FISHERS	P=0.500N	P=0.059	(e)	P=0.500
MAX-ISO-POLY-3	P=0.277	P=0.019*	(e)	P=0.158
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Islets, Pancreatic Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	8/50 (16%)	9/50 (18%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	8/40.43	9/38.03	2/38.17	1/31.01
POLY-3 PERCENT (g)	19.8%	23.7%	5.2%	3.2%
TERMINAL (d)	4/25 (16%)	7/21 (33%)	1/15 (7%)	0/5 (0%)
FIRST INCIDENCE	533	655	607	686
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.012N*	P=0.443	P=0.052N	P=0.041N*
POLY 1.5	P=0.008N**	P=0.458	P=0.048N*	P=0.027N*
POLY 6	P=0.023N*	P=0.428	P=0.064N	P=0.078N
COCH-ARM / FISHERS	P=0.006N**	P=0.500	P=0.046N*	P=0.015N*
MAX-ISO-POLY-3	P=0.020N*	P=0.341	P=0.028N*	P=0.030N*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Kidney: Renal Tubule Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/39.26	0/37.55	2/38.47	0/30.85
POLY-3 PERCENT (g)	0%	0%	5.2%	0%
TERMINAL (d)	0/25 (0%)	0/21 (0%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	597	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.704	(e)	P=0.232	(e)
POLY 1.5	P=0.714N	(e)	P=0.235	(e)
POLY 6	P=0.610	(e)	P=0.223	(e)
COCH-ARM / FISHERS	P=0.675N	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.298	(e)	P=0.075	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Liver</b>				
<b>Cholangiocarcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.26	0/37.55	0/37.75	0/30.85
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/21 (0%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			



Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Liver</b>				
<b>Hepatocellular Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.26	1/37.90	0/37.75	0/30.85
POLY-3 PERCENT (g)	0%	2.6%	0%	0%
TERMINAL (d)	0/25 (0%)	0/21 (0%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	---	631	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Liver</b>				
<b>Hepatocellular Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/39.26	2/37.55	0/37.75	1/31.26
POLY-3 PERCENT (g)	0%	5.3%	0%	3.2%
TERMINAL (d)	0/25 (0%)	2/21 (10%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	---	729 (T)	---	612
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.551	P=0.227	(e)	P=0.455
POLY 1.5	P=0.579	P=0.229	(e)	P=0.475
POLY 6	P=0.504	P=0.225	(e)	P=0.422
COCH-ARM / FISHERS	P=0.617	P=0.247	(e)	P=0.500
MAX-ISO-POLY-3	P=0.332	P=0.075	(e)	P=0.158
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Liver</b>				
<b>Hepatocellular Carcinoma or Hepatocellular Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	3/50 (6%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/39.26	3/37.90	0/37.75	1/31.26
POLY-3 PERCENT (g)	0%	7.9%	0%	3.2%
TERMINAL (d)	0/25 (0%)	2/21 (10%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	---	631	---	612
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.653	P=0.111	(e)	P=0.455
POLY 1.5	P=0.660N	P=0.112	(e)	P=0.475
POLY 6	P=0.602	P=0.111	(e)	P=0.422
COCH-ARM / FISHERS	P=0.627N	P=0.121	(e)	P=0.500
MAX-ISO-POLY-3	P=0.324	P=0.037*	(e)	P=0.158
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Liver</b>				
<b>Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	3/50 (6%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/39.26	3/37.90	0/37.75	1/31.26
POLY-3 PERCENT (g)	0%	7.9%	0%	3.2%
TERMINAL (d)	0/25 (0%)	2/21 (10%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	---	631	---	612
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.653	P=0.111	(e)	P=0.455
POLY 1.5	P=0.660N	P=0.112	(e)	P=0.475
POLY 6	P=0.602	P=0.111	(e)	P=0.422
COCH-ARM / FISHERS	P=0.627N	P=0.121	(e)	P=0.500
MAX-ISO-POLY-3	P=0.324	P=0.037*	(e)	P=0.158
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Lung</b>				
<b>Alveolar/Bronchiolar Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/39.26	2/37.84	0/37.75	1/31.49
POLY-3 PERCENT (g)	0%	5.3%	0%	3.2%
TERMINAL (d)	0/25 (0%)	1/21 (5%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	---	650	---	516
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.553	P=0.228	(e)	P=0.456
POLY 1.5	P=0.581	P=0.229	(e)	P=0.476
POLY 6	P=0.507	P=0.228	(e)	P=0.424
COCH-ARM / FISHERS	P=0.617	P=0.247	(e)	P=0.500
MAX-ISO-POLY-3	P=0.332	P=0.075	(e)	P=0.158
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Lung</b>				
<b>Alveolar/Bronchiolar Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/39.26	0/37.55	0/37.75	2/31.47
POLY-3 PERCENT (g)	0%	0%	0%	6.4%
TERMINAL (d)	0/25 (0%)	0/21 (0%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	549
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.032*	(e)	(e)	P=0.191
POLY 1.5	P=0.036*	(e)	(e)	P=0.211
POLY 6	P=0.027*	(e)	(e)	P=0.162
COCH-ARM / FISHERS	P=0.042*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.034*	(e)	(e)	P=0.074
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Lung</b>				
<b>Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	0/39.26	2/37.84	0/37.75	3/32.11
POLY-3 PERCENT (g)	0%	5.3%	0%	9.3%
TERMINAL (d)	0/25 (0%)	1/21 (5%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	---	650	---	516
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.073	P=0.228	(e)	P=0.086
POLY 1.5	P=0.084	P=0.229	(e)	P=0.099
POLY 6	P=0.059	P=0.228	(e)	P=0.067
COCH-ARM / FISHERS	P=0.101	P=0.247	(e)	P=0.121
MAX-ISO-POLY-3	P=0.042*	P=0.075	(e)	P=0.036*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Mammary Gland Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.26	1/37.87	0/37.75	0/30.85
POLY-3 PERCENT (g)	0%	2.6%	0%	0%
TERMINAL (d)	0/25 (0%)	0/21 (0%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	---	640	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			



Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Mammary Gland Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.26	0/37.55	0/37.75	0/30.85
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/25 (0%)	0/21 (0%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Mammary Gland Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.26	1/37.87	0/37.75	0/30.85
POLY-3 PERCENT (g)	0%	2.6%	0%	0%
TERMINAL (d)	0/25 (0%)	0/21 (0%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	---	640	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Mammary Gland Fibroadenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	2/39.26	1/37.55	2/37.75	0/30.85
POLY-3 PERCENT (g)	5.1%	2.7%	5.3%	0%
TERMINAL (d)	2/25 (8%)	1/21 (5%)	2/15 (13%)	0/5 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.268N	P=0.516N	P=0.681	P=0.294N
POLY 1.5	P=0.239N	P=0.513N	P=0.689	P=0.267N
POLY 6	P=0.320N	P=0.518N	P=0.662	P=0.342N
COCH-ARM / FISHERS	P=0.208N	P=0.500N	P=0.691N	P=0.247N
MAX-ISO-POLY-3	P=0.255N	P=0.297N	P=0.483	P=0.130N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Mammary Gland</b>				
<b>Fibroma, Fibroadenoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	2/39.26	2/37.87	2/37.75	0/30.85
POLY-3 PERCENT (g)	5.1%	5.3%	5.3%	0%
TERMINAL (d)	2/25 (8%)	1/21 (5%)	2/15 (13%)	0/5 (0%)
FIRST INCIDENCE	729 (T)	640	729 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.215N	P=0.682	P=0.681	P=0.294N
POLY 1.5	P=0.187N	P=0.683	P=0.689	P=0.267N
POLY 6	P=0.267N	P=0.684	P=0.662	P=0.342N
COCH-ARM / FISHERS	P=0.157N	P=0.691N	P=0.691N	P=0.247N
MAX-ISO-POLY-3	P=0.279N	P=0.485	P=0.483	P=0.130N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Mammary Gland</b>				
<b>Fibroma, Fibroadenoma, Carcinoma, or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	2/39.26	2/37.87	2/37.75	0/30.85
POLY-3 PERCENT (g)	5.1%	5.3%	5.3%	0%
TERMINAL (d)	2/25 (8%)	1/21 (5%)	2/15 (13%)	0/5 (0%)
FIRST INCIDENCE	729 (T)	640	729 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.215N	P=0.682	P=0.681	P=0.294N
POLY 1.5	P=0.187N	P=0.683	P=0.689	P=0.267N
POLY 6	P=0.267N	P=0.684	P=0.662	P=0.342N
COCH-ARM / FISHERS	P=0.157N	P=0.691N	P=0.691N	P=0.247N
MAX-ISO-POLY-3	P=0.279N	P=0.485	P=0.483	P=0.130N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Parathyroid Gland Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/48 (0%)	0/48 (0%)	0/48 (0%)	2/46 (4%)
POLY-3 RATE (b)	0/37.26	0/35.55	0/36.51	2/28.55
POLY-3 PERCENT (g)	0%	0%	0%	7%
TERMINAL (d)	0/23 (0%)	0/19 (0%)	0/15 (0%)	1/4 (25%)
FIRST INCIDENCE	---	---	---	575
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.029*	(e)	(e)	P=0.182
POLY 1.5	P=0.032*	(e)	(e)	P=0.201
POLY 6	P=0.024*	(e)	(e)	P=0.153
COCH-ARM / FISHERS	P=0.038*	(e)	(e)	P=0.237
MAX-ISO-POLY-3	P=0.031*	(e)	(e)	P=0.072
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Pituitary Gland: Pars Distalis or Unspecified Site Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	11/50 (22%)	6/50 (12%)	7/49 (14%)	6/50 (12%)
POLY-3 RATE (b)	11/39.29	6/38.03	7/37.22	6/33.24
POLY-3 PERCENT (g)	28%	15.8%	18.8%	18.1%
TERMINAL (d)	10/25 (40%)	4/21 (19%)	5/15 (33%)	1/5 (20%)
FIRST INCIDENCE	723	607	717	430
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.333N	P=0.150N	P=0.245N	P=0.233N
POLY 1.5	P=0.280N	P=0.153N	P=0.235N	P=0.188N
POLY 6	P=0.437N	P=0.142N	P=0.278N	P=0.332N
COCH-ARM / FISHERS	P=0.230N	P=0.143N	P=0.232N	P=0.143N
MAX-ISO-POLY-3	P=0.250N	P=0.097N	P=0.173N	P=0.175N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Pituitary Gland: Pars Intermedia Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/39.26	0/37.55	0/37.16	1/30.85
POLY-3 PERCENT (g)	0%	0%	0%	3.2%
TERMINAL (d)	0/25 (0%)	0/21 (0%)	0/15 (0%)	1/5 (20%)
FIRST INCIDENCE	---	---	---	729 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			



Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
<b>Basal Cell Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/39.26	0/37.55	2/37.75	0/30.85
POLY-3 PERCENT (g)	0%	0%	5.3%	0%
TERMINAL (d)	0/25 (0%)	0/21 (0%)	2/15 (13%)	0/5 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.704	(e)	P=0.228	(e)
POLY 1.5	P=0.714N	(e)	P=0.233	(e)
POLY 6	P=0.613	(e)	P=0.216	(e)
COCH-ARM / FISHERS	P=0.675N	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.295	(e)	P=0.075	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
<b>Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/39.26	0/37.55	2/37.75	0/30.85
POLY-3 PERCENT (g)	0%	0%	5.3%	0%
TERMINAL (d)	0/25 (0%)	0/21 (0%)	2/15 (13%)	0/5 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.704	(e)	P=0.228	(e)
POLY 1.5	P=0.714N	(e)	P=0.233	(e)
POLY 6	P=0.613	(e)	P=0.216	(e)
COCH-ARM / FISHERS	P=0.675N	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.295	(e)	P=0.075	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	4/50 (8%)	3/50 (6%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	4/39.68	3/37.55	4/37.75	3/32.16
POLY-3 PERCENT (g)	10.1%	8%	10.6%	9.3%
TERMINAL (d)	2/25 (8%)	3/21 (14%)	4/15 (27%)	1/5 (20%)
FIRST INCIDENCE	618	729 (T)	729 (T)	467
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.592	P=0.530N	P=0.617	P=0.614N
POLY 1.5	P=0.545N	P=0.523N	P=0.632	P=0.563N
POLY 6	P=0.495	P=0.539N	P=0.582	P=0.610
COCH-ARM / FISHERS	P=0.486N	P=0.500N	P=0.643N	P=0.500N
MAX-ISO-POLY-3	P=0.691	P=0.377N	P=0.470	P=0.461N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTEs	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
<b>Fibroma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	4/50 (8%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/39.26	4/37.74	2/38.67	0/30.85
POLY-3 PERCENT (g)	0%	10.6%	5.2%	0%
TERMINAL (d)	0/25 (0%)	3/21 (14%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	---	680	590	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.299N	P=0.054	P=0.233	(e)
POLY 1.5	P=0.259N	P=0.055	P=0.236	(e)
POLY 6	P=0.373N	P=0.053	P=0.225	(e)
COCH-ARM / FISHERS	P=0.213N	P=0.059	P=0.247	(e)
MAX-ISO-POLY-3	P=0.247	P=0.019*	P=0.075	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	5/50 (10%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/39.75	5/38.65	2/38.67	0/30.85
POLY-3 PERCENT (g)	2.5%	12.9%	5.2%	0%
TERMINAL (d)	0/25 (0%)	3/21 (14%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	584	318	590	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.167N	P=0.093	P=0.490	P=0.550N
POLY 1.5	P=0.137N	P=0.095	P=0.497	P=0.528N
POLY 6	P=0.227N	P=0.091	P=0.475	P=0.586N
COCH-ARM / FISHERS	P=0.106N	P=0.102	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.178N	P=0.042*	P=0.274	P=0.219N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
<b>Keratoacanthoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	3/50 (6%)	2/50 (4%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	3/39.65	2/37.55	2/37.75	3/32.16
POLY-3 PERCENT (g)	7.6%	5.3%	5.3%	9.3%
TERMINAL (d)	2/25 (8%)	2/21 (10%)	2/15 (13%)	1/5 (20%)
FIRST INCIDENCE	618	729 (T)	729 (T)	467
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.426	P=0.525N	P=0.523N	P=0.563
POLY 1.5	P=0.468	P=0.519N	P=0.509N	P=0.609
POLY 6	P=0.356	P=0.531N	P=0.551N	P=0.482
COCH-ARM / FISHERS	P=0.517	P=0.500N	P=0.500N	P=0.661N
MAX-ISO-POLY-3	P=0.503	P=0.348N	P=0.346N	P=0.403
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTEs	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
<b>Schwannoma Malignant</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/39.26	0/37.55	2/37.75	0/30.85
POLY-3 PERCENT (g)	0%	0%	5.3%	0%
TERMINAL (d)	0/25 (0%)	0/21 (0%)	2/15 (13%)	0/5 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.704	(e)	P=0.228	(e)
POLY 1.5	P=0.714N	(e)	P=0.233	(e)
POLY 6	P=0.613	(e)	P=0.216	(e)
COCH-ARM / FISHERS	P=0.675N	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.295	(e)	P=0.075	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
<b>Squamous Cell Papilloma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/39.29	2/37.55	0/37.75	1/30.85
POLY-3 PERCENT (g)	2.6%	5.3%	0%	3.2%
TERMINAL (d)	0/25 (0%)	2/21 (10%)	0/15 (0%)	1/5 (20%)
FIRST INCIDENCE	722	729 (T)	---	729 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.619N	P=0.484	P=0.508N	P=0.704
POLY 1.5	P=0.602N	P=0.487	P=0.503N	P=0.731
POLY 6	P=0.642N	P=0.482	P=0.519N	P=0.656
COCH-ARM / FISHERS	P=0.577N	P=0.500	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.473N	P=0.271	P=0.168N	P=0.437
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			



Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
<b>Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	4/50 (8%)	3/50 (6%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	4/39.68	3/37.55	2/37.75	3/32.16
POLY-3 PERCENT (g)	10.1%	8%	5.3%	9.3%
TERMINAL (d)	2/25 (8%)	3/21 (14%)	2/15 (13%)	1/5 (20%)
FIRST INCIDENCE	618	729 (T)	729 (T)	467
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.599N	P=0.530N	P=0.359N	P=0.614N
POLY 1.5	P=0.561N	P=0.523N	P=0.346N	P=0.563N
POLY 6	P=0.527	P=0.539N	P=0.389N	P=0.610
COCH-ARM / FISHERS	P=0.515N	P=0.500N	P=0.339N	P=0.500N
MAX-ISO-POLY-3	P=0.545N	P=0.377N	P=0.222N	P=0.461N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTEs	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
<b>Squamous Cell Papilloma, Papilloma, or Keratoacanthoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	4/50 (8%)	3/50 (6%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	4/39.68	3/37.55	2/37.75	3/32.16
POLY-3 PERCENT (g)	10.1%	8%	5.3%	9.3%
TERMINAL (d)	2/25 (8%)	3/21 (14%)	2/15 (13%)	1/5 (20%)
FIRST INCIDENCE	618	729 (T)	729 (T)	467
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.599N	P=0.530N	P=0.359N	P=0.614N
POLY 1.5	P=0.561N	P=0.523N	P=0.346N	P=0.563N
POLY 6	P=0.527	P=0.539N	P=0.389N	P=0.610
COCH-ARM / FISHERS	P=0.515N	P=0.500N	P=0.339N	P=0.500N
MAX-ISO-POLY-3	P=0.545N	P=0.377N	P=0.222N	P=0.461N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTEs	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin: Sebaceous Gland Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/39.79	2/37.84	2/37.75	0/30.85
POLY-3 PERCENT (g)	2.5%	5.3%	5.3%	0%
TERMINAL (d)	0/25 (0%)	1/21 (5%)	2/15 (13%)	0/5 (0%)
FIRST INCIDENCE	568	650	729 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.324N	P=0.482	P=0.482	P=0.550N
POLY 1.5	P=0.286N	P=0.486	P=0.492	P=0.528N
POLY 6	P=0.392N	P=0.480	P=0.459	P=0.586N
COCH-ARM / FISHERS	P=0.243N	P=0.500	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.317N	P=0.270	P=0.269	P=0.219N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Stomach, Forestomach Squamous Cell Papilloma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.26	2/38.21	0/37.75	0/30.85
POLY-3 PERCENT (g)	0%	5.2%	0%	0%
TERMINAL (d)	0/25 (0%)	0/21 (0%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	---	589	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.427N	P=0.230	(e)	(e)
POLY 1.5	P=0.414N	P=0.231	(e)	(e)
POLY 6	P=0.447N	P=0.232	(e)	(e)
COCH-ARM / FISHERS	P=0.392N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.342N	P=0.075	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Testes</b>				
<b>Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/39.26	2/37.94	2/38.37	0/30.85
POLY-3 PERCENT (g)	0%	5.3%	5.2%	0%
TERMINAL (d)	0/25 (0%)	1/21 (5%)	1/15 (7%)	0/5 (0%)
FIRST INCIDENCE	---	618	528	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.468N	P=0.229	P=0.231	(e)
POLY 1.5	P=0.425N	P=0.230	P=0.235	(e)
POLY 6	P=0.541N	P=0.229	P=0.221	(e)
COCH-ARM / FISHERS	P=0.373N	P=0.247	P=0.247	(e)
MAX-ISO-POLY-3	P=0.332	P=0.075	P=0.075	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Thyroid Gland: C-Cell Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	5/49 (10%)	3/49 (6%)	12/50 (24%)
POLY-3 RATE (b)	2/39.26	5/37.26	3/37.78	12/33.06
POLY-3 PERCENT (g)	5.1%	13.4%	7.9%	36.3%
TERMINAL (d)	2/25 (8%)	4/21 (19%)	1/15 (7%)	3/5 (60%)
FIRST INCIDENCE	729 (T)	680	669	568
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.192	P=0.482	P<0.001**
POLY 1.5	P<0.001**	P=0.194	P=0.489	P<0.001**
POLY 6	P<0.001**	P=0.193	P=0.465	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.210	P=0.490	P=0.004**
MAX-ISO-POLY-3	P<0.001**	P=0.107	P=0.309	P<0.001**
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Thyroid Gland: C-Cell Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	0/49 (0%)	1/49 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/39.26	0/37.07	1/37.57	1/30.93
POLY-3 PERCENT (g)	2.6%	0%	2.7%	3.2%
TERMINAL (d)	1/25 (4%)	0/21 (0%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	729 (T)	---	691	709
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Thyroid Gland: C-Cell Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	3/50 (6%)	5/49 (10%)	4/49 (8%)	13/50 (26%)
POLY-3 RATE (b)	3/39.26	5/37.26	4/37.93	13/33.14
POLY-3 PERCENT (g)	7.6%	13.4%	10.6%	39.2%
TERMINAL (d)	3/25 (12%)	4/21 (19%)	1/15 (7%)	3/5 (60%)
FIRST INCIDENCE	729 (T)	680	669	568
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.326	P=0.481	P<0.001**
POLY 1.5	P<0.001**	P=0.328	P=0.488	P=0.002**
POLY 6	P<0.001**	P=0.327	P=0.462	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.346	P=0.489	P=0.006**
MAX-ISO-POLY-3	P<0.001**	P=0.210	P=0.330	P<0.001**
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			



Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>Zymbal's Gland Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/39.65	2/38.08	0/37.75	0/30.85
POLY-3 PERCENT (g)	2.5%	5.3%	0%	0%
TERMINAL (d)	0/25 (0%)	1/21 (5%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	618	565	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.258N	P=0.486	P=0.510N	P=0.549N
POLY 1.5	P=0.246N	P=0.488	P=0.504N	P=0.527N
POLY 6	P=0.277N	P=0.484	P=0.522N	P=0.585N
COCH-ARM / FISHERS	P=0.228N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.265N	P=0.272	P=0.171N	P=0.218N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>All Organs</b>				
<b>Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	3/50 (6%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/40.21	2/37.65	0/37.75	1/31.32
POLY-3 PERCENT (g)	7.5%	5.3%	0%	3.2%
TERMINAL (d)	0/25 (0%)	0/21 (0%)	0/15 (0%)	0/5 (0%)
FIRST INCIDENCE	590	710	---	589
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.316N	P=0.530N	P=0.129N	P=0.399N
POLY 1.5	P=0.300N	P=0.522N	P=0.123N	P=0.355N
POLY 6	P=0.341N	P=0.541N	P=0.144N	P=0.474N
COCH-ARM / FISHERS	P=0.280N	P=0.500N	P=0.121N	P=0.309N
MAX-ISO-POLY-3	P=0.216N	P=0.354N	P=0.047N*	P=0.246N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>All Organs</b>				
<b>Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	30/50 (60%)	32/50 (64%)	32/50 (64%)	30/50 (60%)
POLY-3 RATE (b)	30/43.98	32/42.11	32/44.72	30/41.09
POLY-3 PERCENT (g)	68.2%	76%	71.6%	73%
TERMINAL (d)	17/25 (68%)	18/21 (86%)	12/15 (80%)	5/5 (100%)
FIRST INCIDENCE	374	485	500	430
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.477	P=0.273	P=0.452	P=0.394
POLY 1.5	P=0.553	P=0.295	P=0.442	P=0.466
POLY 6	P=0.326	P=0.290	P=0.442	P=0.273
COCH-ARM / FISHERS	P=0.463N	P=0.418	P=0.418	P=0.581N
MAX-ISO-POLY-3	P=0.459	P=0.200	P=0.357	P=0.304
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 05/16/2016

Time Report Requested: 11:15:09

First Dose M/F: 01/17/11 / 01/17/11

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>All Organs</b>				
<b>Malignant Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	12/50 (24%)	16/50 (32%)	12/50 (24%)	10/50 (20%)
POLY-3 RATE (b)	12/44.15	16/41.78	12/40.61	10/34.63
POLY-3 PERCENT (g)	27.2%	38.3%	29.6%	28.9%
TERMINAL (d)	1/25 (4%)	8/21 (38%)	3/15 (20%)	0/5 (0%)
FIRST INCIDENCE	374	306	463	528
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.458N	P=0.189	P=0.500	P=0.534
POLY 1.5	P=0.344N	P=0.213	P=0.545	P=0.556N
POLY 6	P=0.483	P=0.157	P=0.424	P=0.380
COCH-ARM / FISHERS	P=0.207N	P=0.252	P=0.592N	P=0.405N
MAX-ISO-POLY-3	P=0.519	P=0.139	P=0.405	P=0.439
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	100 ppm	300 ppm	1000 ppm
<b>All Organs</b>				
<b>Malignant and Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	37/50 (74%)	41/50 (82%)	39/50 (78%)	35/50 (70%)
POLY-3 RATE (b)	37/46.72	41/46.35	39/46.42	35/43.00
POLY-3 PERCENT (g)	79.2%	88.5%	84%	81.4%
TERMINAL (d)	18/25 (72%)	19/21 (91%)	13/15 (87%)	5/5 (100%)
FIRST INCIDENCE	374	306	463	430
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.475N	P=0.158	P=0.360	P=0.502
POLY 1.5	P=0.350N	P=0.171	P=0.388	P=0.601
POLY 6	P=0.484	P=0.158	P=0.299	P=0.344
COCH-ARM / FISHERS	P=0.192N	P=0.235	P=0.408	P=0.412N
MAX-ISO-POLY-3	P=0.375	P=0.097	P=0.259	P=0.390
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Adrenal Cortex</b>				
<b>Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/34.94	1/37.42	2/39.53	1/43.55
POLY-3 PERCENT (g)	0%	2.7%	5.1%	2.3%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	2/25 (8%)	1/30 (3%)
FIRST INCIDENCE	---	646	731 (T)	731 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.623	P=0.514	P=0.265	P=0.543
POLY 1.5	P=0.589	P=0.509	P=0.255	P=0.528
POLY 6	P=0.656	P=0.515	P=0.274	P=0.557
COCH-ARM / FISHERS	P=0.526	P=0.500	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.299	P=0.175	P=0.102	P=0.211
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma Benign</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/49 (0%)	3/50 (6%)	4/50 (8%)	6/50 (12%)
POLY-3 RATE (b)	0/33.94	3/37.27	4/40.56	6/44.38
POLY-3 PERCENT (g)	0%	8.1%	9.9%	13.5%
TERMINAL (d)	0/21 (0%)	2/21 (10%)	2/25 (8%)	4/30 (13%)
FIRST INCIDENCE	---	691	478	530
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.066	P=0.135	P=0.085	P=0.035*
POLY 1.5	P=0.049*	P=0.130	P=0.076	P=0.027*
POLY 6	P=0.088	P=0.135	P=0.095	P=0.045*
COCH-ARM / FISHERS	P=0.029*	P=0.125	P=0.061	P=0.014*
MAX-ISO-POLY-3	P=0.045*	P=0.051	P=0.040*	P=0.023*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma Malignant</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/49 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/33.94	1/37.11	0/39.53	0/43.55
POLY-3 PERCENT (g)	0%	2.7%	0%	0%
TERMINAL (d)	0/21 (0%)	1/21 (5%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	731 (T)	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTEs	(n)			



Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
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 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma: Benign, Complex, Malignant, NOS</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/49 (0%)	4/50 (8%)	4/50 (8%)	6/50 (12%)
POLY-3 RATE (b)	0/33.94	4/37.27	4/40.56	6/44.38
POLY-3 PERCENT (g)	0%	10.7%	9.9%	13.5%
TERMINAL (d)	0/21 (0%)	3/21 (14%)	2/25 (8%)	4/30 (13%)
FIRST INCIDENCE	---	691	478	530
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.106	P=0.071	P=0.085	P=0.035*
POLY 1.5	P=0.081	P=0.068	P=0.076	P=0.027*
POLY 6	P=0.137	P=0.071	P=0.095	P=0.045*
COCH-ARM / FISHERS	P=0.049*	P=0.061	P=0.061	P=0.014*
MAX-ISO-POLY-3	P=0.052	P=0.028*	P=0.040*	P=0.023*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Brain</b>				
<b>Glioma Malignant</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/34.94	1/37.11	0/39.53	0/43.55
POLY-3 PERCENT (g)	2.9%	2.7%	0%	0%
TERMINAL (d)	1/22 (5%)	1/21 (5%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
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 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Intestine Small: Jejunum Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.53	0/43.55
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
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 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Intestine Small: Site Unspecified Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.53	0/43.55
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Islets, Pancreatic Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/34.94	1/37.11	0/39.53	1/43.77
POLY-3 PERCENT (g)	2.9%	2.7%	0%	2.3%
TERMINAL (d)	1/22 (5%)	1/21 (5%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	---	674
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTEs	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTEs	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

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 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Islets, Pancreatic Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/35.03	0/37.11	0/39.53	0/43.55
POLY-3 PERCENT (g)	2.9%	0%	0%	0%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	710	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Islets, Pancreatic Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/35.03	1/37.11	0/39.53	1/43.77
POLY-3 PERCENT (g)	5.7%	2.7%	0%	2.3%
TERMINAL (d)	1/22 (5%)	1/21 (5%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	710	731 (T)	---	674
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.500N	P=0.480N	P=0.211N	P=0.423N
POLY 1.5	P=0.509N	P=0.487N	P=0.220N	P=0.451N
POLY 6	P=0.488N	P=0.481N	P=0.203N	P=0.399N
COCH-ARM / FISHERS	P=0.526N	P=0.500N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.211N	P=0.268N	P=0.075N	P=0.242N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTEs	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Kidney: Renal Tubule Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/34.94	0/37.11	0/39.53	1/43.55
POLY-3 PERCENT (g)	2.9%	0%	0%	2.3%
TERMINAL (d)	1/22 (5%)	0/21 (0%)	0/25 (0%)	1/30 (3%)
FIRST INCIDENCE	731 (T)	---	---	731 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			



Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Liver</b>				
<b>Cholangiocarcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	2/37.11	0/39.53	0/43.55
POLY-3 PERCENT (g)	0%	5.4%	0%	0%
TERMINAL (d)	0/22 (0%)	2/21 (10%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	731 (T)	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.356N	P=0.250	(e)	(e)
POLY 1.5	P=0.368N	P=0.245	(e)	(e)
POLY 6	P=0.348N	P=0.249	(e)	(e)
COCH-ARM / FISHERS	P=0.392N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.265N	P=0.088	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Liver</b>				
<b>Hepatocellular Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	2/34.94	2/37.63	1/39.53	4/43.87
POLY-3 PERCENT (g)	5.7%	5.3%	2.5%	9.1%
TERMINAL (d)	2/22 (9%)	0/21 (0%)	1/25 (4%)	3/30 (10%)
FIRST INCIDENCE	731 (T)	648	731 (T)	642
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.256	P=0.668N	P=0.457N	P=0.446
POLY 1.5	P=0.232	P=0.678N	P=0.472N	P=0.406
POLY 6	P=0.283	P=0.664N	P=0.444N	P=0.484
COCH-ARM / FISHERS	P=0.191	P=0.691N	P=0.500N	P=0.339
MAX-ISO-POLY-3	P=0.350	P=0.470N	P=0.257N	P=0.308
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Liver</b>				
<b>Hepatocellular Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	1/39.53	0/43.55
POLY-3 PERCENT (g)	0%	0%	2.5%	0%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	1/25 (4%)	0/30 (0%)
FIRST INCIDENCE	---	---	731 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
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 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Liver</b>				
<b>Hepatocellular Carcinoma or Hepatocellular Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	2/50 (4%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	2/34.94	2/37.63	2/39.53	4/43.87
POLY-3 PERCENT (g)	5.7%	5.3%	5.1%	9.1%
TERMINAL (d)	2/22 (9%)	0/21 (0%)	2/25 (8%)	3/30 (10%)
FIRST INCIDENCE	731 (T)	648	731 (T)	642
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.298	P=0.668N	P=0.650N	P=0.446
POLY 1.5	P=0.266	P=0.678N	P=0.665N	P=0.406
POLY 6	P=0.332	P=0.664N	P=0.636N	P=0.484
COCH-ARM / FISHERS	P=0.215	P=0.691N	P=0.691N	P=0.339
MAX-ISO-POLY-3	P=0.439	P=0.470N	P=0.451N	P=0.308
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Liver</b>				
<b>Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	2/50 (4%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	2/34.94	2/37.63	2/39.53	4/43.87
POLY-3 PERCENT (g)	5.7%	5.3%	5.1%	9.1%
TERMINAL (d)	2/22 (9%)	0/21 (0%)	2/25 (8%)	3/30 (10%)
FIRST INCIDENCE	731 (T)	648	731 (T)	642
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.298	P=0.668N	P=0.650N	P=0.446
POLY 1.5	P=0.266	P=0.678N	P=0.665N	P=0.406
POLY 6	P=0.332	P=0.664N	P=0.636N	P=0.484
COCH-ARM / FISHERS	P=0.215	P=0.691N	P=0.691N	P=0.339
MAX-ISO-POLY-3	P=0.439	P=0.470N	P=0.451N	P=0.308
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
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 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Lung</b>				
<b>Alveolar/Bronchiolar Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.53	0/43.55
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
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 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Lung</b>				
<b>Alveolar/Bronchiolar Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.53	0/43.55
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Lung</b>				
<b>Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.53	0/43.55
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			



Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Mammary Gland Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	4/50 (8%)	4/50 (8%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	4/35.70	4/37.51	0/39.53	1/43.55
POLY-3 PERCENT (g)	11.2%	10.7%	0%	2.3%
TERMINAL (d)	2/22 (9%)	2/21 (10%)	0/25 (0%)	1/30 (3%)
FIRST INCIDENCE	459	646	---	731 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.084N	P=0.618N	P=0.047N*	P=0.124N
POLY 1.5	P=0.092N	P=0.627N	P=0.051N	P=0.142N
POLY 6	P=0.076N	P=0.619N	P=0.044N*	P=0.110N
COCH-ARM / FISHERS	P=0.111N	P=0.643N	P=0.059N	P=0.181N
MAX-ISO-POLY-3	P=0.064N	P=0.470N	P=0.018N*	P=0.069N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Mammary Gland Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	5/50 (10%)	4/50 (8%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	5/36.82	4/37.48	3/40.17	1/43.55
POLY-3 PERCENT (g)	13.6%	10.7%	7.5%	2.3%
TERMINAL (d)	1/22 (5%)	2/21 (10%)	1/25 (4%)	1/30 (3%)
FIRST INCIDENCE	303	674	584	731 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.051N	P=0.489N	P=0.307N	P=0.067N
POLY 1.5	P=0.061N	P=0.492N	P=0.324N	P=0.078N
POLY 6	P=0.044N*	P=0.500N	P=0.295N	P=0.059N
COCH-ARM / FISHERS	P=0.081N	P=0.500N	P=0.357N	P=0.102N
MAX-ISO-POLY-3	P=0.071N	P=0.350N	P=0.201N	P=0.037N*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Mammary Gland Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	9/50 (18%)	8/50 (16%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	9/37.58	8/37.88	3/40.17	2/43.55
POLY-3 PERCENT (g)	24%	21.1%	7.5%	4.6%
TERMINAL (d)	3/22 (14%)	4/21 (19%)	1/25 (4%)	2/30 (7%)
FIRST INCIDENCE	303	646	584	731 (T)
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.007N**	P=0.492N	P=0.042N*	P=0.012N*
POLY 1.5	P=0.010N**	P=0.495N	P=0.048N*	P=0.015N*
POLY 6	P=0.006N**	P=0.507N	P=0.038N*	P=0.009N**
COCH-ARM / FISHERS	P=0.017N*	P=0.500N	P=0.061N	P=0.026N*
MAX-ISO-POLY-3	P=0.012N*	P=0.382N	P=0.024N*	P=0.007N**
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Mammary Gland Fibroadenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	20/50 (40%)	28/50 (56%)	31/50 (62%)	18/50 (36%)
POLY-3 RATE (b)	20/40.36	28/44.67	31/44.72	18/46.77
POLY-3 PERCENT (g)	49.6%	62.7%	69.3%	38.5%
TERMINAL (d)	10/22 (46%)	12/21 (57%)	17/25 (68%)	9/30 (30%)
FIRST INCIDENCE	311	395	395	530
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.015N*	P=0.149	P=0.041*	P=0.202N
POLY 1.5	P=0.032N*	P=0.110	P=0.031*	P=0.275N
POLY 6	P=0.007N**	P=0.198	P=0.057	P=0.146N
COCH-ARM / FISHERS	P=0.102N	P=0.080	P=0.022*	P=0.418N
MAX-ISO-POLY-3	P=0.024N*	P=0.113	P=0.030*	P=0.162N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Mammary Gland Fibroma, Fibroadenoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	23/50 (46%)	31/50 (62%)	31/50 (62%)	19/50 (38%)
POLY-3 RATE (b)	23/41.12	31/44.77	31/44.72	19/46.77
POLY-3 PERCENT (g)	55.9%	69.3%	69.3%	40.6%
TERMINAL (d)	11/22 (50%)	14/21 (67%)	17/25 (68%)	10/30 (33%)
FIRST INCIDENCE	311	395	395	530
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.004N**	P=0.133	P=0.131	P=0.105N
POLY 1.5	P=0.011N*	P=0.100	P=0.107	P=0.157N
POLY 6	P=0.002N**	P=0.178	P=0.165	P=0.070N
COCH-ARM / FISHERS	P=0.046N*	P=0.080	P=0.080	P=0.272N
MAX-ISO-POLY-3	P=0.007N**	P=0.098	P=0.096	P=0.083N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Mammary Gland</b>				
<b>Fibroma, Fibroadenoma, Carcinoma, or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	27/50 (54%)	34/50 (68%)	33/50 (66%)	20/50 (40%)
POLY-3 RATE (b)	27/42.69	34/45.14	33/45.21	20/46.77
POLY-3 PERCENT (g)	63.3%	75.3%	73%	42.8%
TERMINAL (d)	12/22 (55%)	15/21 (71%)	18/25 (72%)	11/30 (37%)
FIRST INCIDENCE	303	395	395	530
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001N**	P=0.145	P=0.213	P=0.036N*
POLY 1.5	P=0.002N**	P=0.115	P=0.183	P=0.059N
POLY 6	P<0.001N**	P=0.191	P=0.256	P=0.022N*
COCH-ARM / FISHERS	P=0.011N*	P=0.109	P=0.154	P=0.115N
MAX-ISO-POLY-3	P<0.001N**	P=0.101	P=0.156	P=0.027N*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Ovary</b>				
<b>Granulosa Cell Tumor Benign</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/35.25	0/37.11	0/39.53	0/43.55
POLY-3 PERCENT (g)	8.5%	0%	0%	0%
TERMINAL (d)	2/22 (9%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	646	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.145N	P=0.108N	P=0.098N	P=0.085N
POLY 1.5	P=0.145N	P=0.112N	P=0.105N	P=0.096N
POLY 6	P=0.141N	P=0.109N	P=0.093N	P=0.077N
COCH-ARM / FISHERS	P=0.149N	P=0.121N	P=0.121N	P=0.121N
MAX-ISO-POLY-3	P=0.010N**	P=0.037N*	P=0.037N*	P=0.037N*
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Parathyroid Gland Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/45 (0%)	0/44 (0%)	2/48 (4%)	0/42 (0%)
POLY-3 RATE (b)	0/31.62	0/32.16	2/37.85	0/36.47
POLY-3 PERCENT (g)	0%	0%	5.3%	0%
TERMINAL (d)	0/20 (0%)	0/19 (0%)	2/24 (8%)	0/25 (0%)
FIRST INCIDENCE	---	---	731 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.627N	(e)	P=0.278	(e)
POLY 1.5	P=0.652N	(e)	P=0.269	(e)
POLY 6	P=0.602N	(e)	P=0.286	(e)
COCH-ARM / FISHERS	P=0.693N	(e)	P=0.264	(e)
MAX-ISO-POLY-3	P=0.317	(e)	P=0.111	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			



Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Pituitary Gland: Pars Distalis or Unspecified Site Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	18/50 (36%)	14/50 (28%)	16/50 (32%)	5/50 (10%)
POLY-3 RATE (b)	18/38.66	14/39.07	16/42.55	5/44.51
POLY-3 PERCENT (g)	46.6%	35.8%	37.6%	11.2%
TERMINAL (d)	7/22 (32%)	5/21 (24%)	7/25 (28%)	1/30 (3%)
FIRST INCIDENCE	528	643	541	626
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001N**	P=0.226N	P=0.273N	P<0.001N**
POLY 1.5	P<0.001N**	P=0.233N	P=0.318N	P<0.001N**
POLY 6	P<0.001N**	P=0.245N	P=0.244N	P<0.001N**
COCH-ARM / FISHERS	P=0.002N**	P=0.260N	P=0.417N	P=0.002N**
MAX-ISO-POLY-3	P<0.001N**	P=0.163N	P=0.213N	P<0.001N**
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Pituitary Gland: Pars Intermedia Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.53	2/43.98
POLY-3 PERCENT (g)	0%	0%	0%	4.6%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	650
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.053	(e)	(e)	P=0.292
POLY 1.5	P=0.048*	(e)	(e)	P=0.271
POLY 6	P=0.060	(e)	(e)	P=0.312
COCH-ARM / FISHERS	P=0.042*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.086	(e)	(e)	P=0.128
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
<b>Basal Cell Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.53	0/43.55
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
<b>Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/35.55	0/37.11	0/39.53	0/43.55
POLY-3 PERCENT (g)	2.8%	0%	0%	0%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	534	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/35.55	0/37.11	0/39.53	1/43.77
POLY-3 PERCENT (g)	2.8%	0%	0%	2.3%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	534	---	---	674
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
<b>Fibroma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	1/37.33	0/39.53	0/43.55
POLY-3 PERCENT (g)	0%	2.7%	0%	0%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	674	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	2/37.64	0/39.53	0/43.55
POLY-3 PERCENT (g)	0%	5.3%	0%	0%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	646	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.353N	P=0.253	(e)	(e)
POLY 1.5	P=0.367N	P=0.247	(e)	(e)
POLY 6	P=0.343N	P=0.256	(e)	(e)
COCH-ARM / FISHERS	P=0.392N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.268N	P=0.091	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
<b>Keratoacanthoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.53	0/43.55
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			



Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
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 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
<b>Schwannoma Malignant</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	1/37.11	1/39.53	0/43.55
POLY-3 PERCENT (g)	0%	2.7%	2.5%	0%
TERMINAL (d)	0/22 (0%)	1/21 (5%)	1/25 (4%)	0/30 (0%)
FIRST INCIDENCE	---	731 (T)	731 (T)	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
<b>Squamous Cell Papilloma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.53	1/43.77
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	674
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
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 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
<b>Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.53	1/43.77
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	674
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
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 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin</b>				
<b>Squamous Cell Papilloma, Papilloma, or Keratoacanthoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.53	1/43.77
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	674
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Skin: Sebaceous Gland Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.53	1/43.77
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	674
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
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 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Stomach, Forestomach Squamous Cell Papilloma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.53	0/43.55
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
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 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Thyroid Gland: C-Cell Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	8/50 (16%)	8/50 (16%)	14/50 (28%)
POLY-3 RATE (b)	2/36.31	8/39.26	8/39.53	14/44.32
POLY-3 PERCENT (g)	5.5%	20.4%	20.2%	31.6%
TERMINAL (d)	0/22 (0%)	3/21 (14%)	8/25 (32%)	11/30 (37%)
FIRST INCIDENCE	459	534	731 (T)	646
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.008**	P=0.056	P=0.057	P=0.003**
POLY 1.5	P=0.005**	P=0.051	P=0.054	P=0.002**
POLY 6	P=0.011*	P=0.058	P=0.058	P=0.004**
COCH-ARM / FISHERS	P=0.003**	P=0.046*	P=0.046*	P<0.001**
MAX-ISO-POLY-3	P=0.006**	P=0.031*	P=0.032*	P=0.003**
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Thyroid Gland: C-Cell Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/34.94	2/37.11	0/39.53	1/43.86
POLY-3 PERCENT (g)	0%	5.4%	0%	2.3%
TERMINAL (d)	0/22 (0%)	2/21 (10%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	731 (T)	---	646
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.681	P=0.250	(e)	P=0.545
POLY 1.5	P=0.658	P=0.245	(e)	P=0.529
POLY 6	P=0.700	P=0.249	(e)	P=0.559
COCH-ARM / FISHERS	P=0.617	P=0.247	(e)	P=0.500
MAX-ISO-POLY-3	P=0.384	P=0.088	(e)	P=0.213
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTEs	(e)			



Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Thyroid Gland: C-Cell Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	10/50 (20%)	8/50 (16%)	15/50 (30%)
POLY-3 RATE (b)	2/36.31	10/39.26	8/39.53	15/44.63
POLY-3 PERCENT (g)	5.5%	25.5%	20.2%	33.6%
TERMINAL (d)	0/22 (0%)	5/21 (24%)	8/25 (32%)	11/30 (37%)
FIRST INCIDENCE	459	534	731 (T)	646
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.009**	P=0.017*	P=0.057	P=0.002**
POLY 1.5	P=0.006**	P=0.016*	P=0.054	P<0.001**
POLY 6	P=0.015*	P=0.018*	P=0.058	P=0.003**
COCH-ARM / FISHERS	P=0.003**	P=0.014*	P=0.046*	P<0.001**
MAX-ISO-POLY-3	P=0.004**	P=0.009**	P=0.032*	P=0.002**
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTEs	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Uterus Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	5/50 (10%)
POLY-3 RATE (b)	1/34.94	1/37.11	0/39.53	5/44.28
POLY-3 PERCENT (g)	2.9%	2.7%	0%	11.3%
TERMINAL (d)	1/22 (5%)	1/21 (5%)	0/25 (0%)	3/30 (10%)
FIRST INCIDENCE	731 (T)	731 (T)	---	530
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.017*	P=0.748N	P=0.475N	P=0.166
POLY 1.5	P=0.015*	P=0.752N	P=0.484N	P=0.140
POLY 6	P=0.021*	P=0.749N	P=0.468N	P=0.192
COCH-ARM / FISHERS	P=0.012*	P=0.753N	P=0.500N	P=0.102
MAX-ISO-POLY-3	P=0.028*	P=0.482N	P=0.158N	P=0.104
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Uterus</b>				
<b>Polyp Stromal</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	7/50 (14%)	9/50 (18%)	16/50 (32%)	12/50 (24%)
POLY-3 RATE (b)	7/35.73	9/37.90	16/40.70	12/44.08
POLY-3 PERCENT (g)	19.6%	23.8%	39.3%	27.2%
TERMINAL (d)	5/22 (23%)	6/21 (29%)	12/25 (48%)	10/30 (33%)
FIRST INCIDENCE	590	643	558	646
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.419	P=0.440	P=0.047*	P=0.298
POLY 1.5	P=0.330	P=0.423	P=0.039*	P=0.240
POLY 6	P=0.512	P=0.440	P=0.055	P=0.351
COCH-ARM / FISHERS	P=0.197	P=0.393	P=0.028*	P=0.154
MAX-ISO-POLY-3	P=0.177	P=0.335	P=0.034*	P=0.235
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Uterus</b>				
<b>Sarcoma Stromal or Polyp Stromal</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	7/50 (14%)	9/50 (18%)	17/50 (34%)	12/50 (24%)
POLY-3 RATE (b)	7/35.73	9/37.90	17/40.70	12/44.08
POLY-3 PERCENT (g)	19.6%	23.8%	41.8%	27.2%
TERMINAL (d)	5/22 (23%)	6/21 (29%)	13/25 (52%)	10/30 (33%)
FIRST INCIDENCE	590	643	558	646
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.439	P=0.440	P=0.028*	P=0.298
POLY 1.5	P=0.345	P=0.423	P=0.023*	P=0.240
POLY 6	P=0.536	P=0.440	P=0.033*	P=0.351
COCH-ARM / FISHERS	P=0.205	P=0.393	P=0.017*	P=0.154
MAX-ISO-POLY-3	P=0.147	P=0.335	P=0.021*	P=0.235
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Vagina</b>				
<b>Granular Cell Tumor Benign</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/34.94	2/37.11	0/39.53	0/43.55
POLY-3 PERCENT (g)	2.9%	5.4%	0%	0%
TERMINAL (d)	1/22 (5%)	2/21 (10%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	---	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.203N	P=0.521	P=0.475N	P=0.456N
POLY 1.5	P=0.212N	P=0.514	P=0.484N	P=0.472N
POLY 6	P=0.197N	P=0.521	P=0.468N	P=0.443N
COCH-ARM / FISHERS	P=0.228N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.186N	P=0.302	P=0.158N	P=0.158N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTEs	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
 Time Report Requested: 11:15:09  
 First Dose M/F: 01/17/11 / 01/17/11  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>Zymbal's Gland Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/34.94	1/37.40	0/39.53	1/43.68
POLY-3 PERCENT (g)	0%	2.7%	0%	2.3%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	0/25 (0%)	0/30 (0%)
FIRST INCIDENCE	---	652	---	698
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
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)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
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 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>All Organs</b>				
<b>Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	2/39.77	0/43.55
POLY-3 PERCENT (g)	0%	0%	5%	0%
TERMINAL (d)	0/22 (0%)	0/21 (0%)	1/25 (4%)	0/30 (0%)
FIRST INCIDENCE	---	---	665	---
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.607N	(e)	P=0.267	(e)
POLY 1.5	P=0.633N	(e)	P=0.256	(e)
POLY 6	P=0.580N	(e)	P=0.277	(e)
COCH-ARM / FISHERS	P=0.675N	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.322	(e)	P=0.103	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
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 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>All Organs</b>				
<b>Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	39/50 (78%)	42/50 (84%)	41/50 (82%)	38/50 (76%)
POLY-3 RATE (b)	39/44.64	42/46.52	41/46.61	38/49.00
POLY-3 PERCENT (g)	87.4%	90.3%	88%	77.6%
TERMINAL (d)	19/22 (86%)	18/21 (86%)	23/25 (92%)	22/30 (73%)
FIRST INCIDENCE	311	395	395	530
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.036N*	P=0.451	P=0.604	P=0.152N
POLY 1.5	P=0.089N	P=0.353	P=0.529	P=0.258N
POLY 6	P=0.015N*	P=0.569	P=0.654N	P=0.088N
COCH-ARM / FISHERS	P=0.301N	P=0.306	P=0.402	P=0.500N
MAX-ISO-POLY-3	P=0.058N	P=0.314	P=0.461	P=0.104N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			



Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
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P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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Date Report Requested: 05/16/2016  
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 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>All Organs</b>				
<b>Malignant Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	11/50 (22%)	13/50 (26%)	12/50 (24%)	12/50 (24%)
POLY-3 RATE (b)	11/38.15	13/38.79	12/41.44	12/46.06
POLY-3 PERCENT (g)	28.8%	33.5%	29%	26.1%
TERMINAL (d)	4/22 (18%)	7/21 (33%)	6/25 (24%)	5/30 (17%)
FIRST INCIDENCE	303	585	564	530
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.337N	P=0.421	P=0.594	P=0.484N
POLY 1.5	P=0.424N	P=0.415	P=0.560	P=0.559N
POLY 6	P=0.257N	P=0.412	P=0.573N	P=0.415N
COCH-ARM / FISHERS	P=0.542	P=0.408	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.503N	P=0.327	P=0.494	P=0.395N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

Experiment Number: 10472 - 03  
 Test Type: CHRONIC  
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P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 p-Chloro-a,a,a-trifluorotoluene  
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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	100 ppm	300 ppm	1000 ppm
<b>All Organs</b>				
<b>Malignant and Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	41/50 (82%)	42/50 (84%)	43/50 (86%)	42/50 (84%)
POLY-3 RATE (b)	41/46.27	42/46.52	43/47.35	42/49.55
POLY-3 PERCENT (g)	88.6%	90.3%	90.8%	84.8%
TERMINAL (d)	19/22 (86%)	18/21 (86%)	23/25 (92%)	23/30 (77%)
FIRST INCIDENCE	303	395	395	530
HC TUMORS SAME ROUTE	0/0 (0%)			
HC TUMORS ALL ROUTES	0/0 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.238N	P=0.532	P=0.494	P=0.396N
POLY 1.5	P=0.373N	P=0.477	P=0.445	P=0.524N
POLY 6	P=0.134N	P=0.609	P=0.561	P=0.273N
COCH-ARM / FISHERS	P=0.510	P=0.500	P=0.393	P=0.500
MAX-ISO-POLY-3	P=0.335N	P=0.383	P=0.348	P=0.288N
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)
CURR VS HC SAME RTE	(e)			
CURR VS HC ALL RTES	(e)			

**Experiment Number:** 10472 - 03  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/HSD

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
p-Chloro-a,a,a-trifluorotoluene  
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**Lab:** BNW

## 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.
- (h) Historical Controls statistic is not calculated when the HC Poly-3 rate is higher than the Poly-3 rates for all dose groups.
- (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 \*\*\*