

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

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

Date Report Requested: 04/13/2016
Time Report Requested: 17:05:23
First Dose M/F: NA / NA
Lab: BNW

C Number: C10472B
Lock Date: 08/29/2013
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: 01/12/2016

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

Adrenal Cortex
Adrenal Medulla
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-

MALE RAT

Organ

Adrenal Cortex
Intestine Small: Site Unspecified
Islets, Pancreatic

Liver

Lung

Parathyroid Gland

Skin

Thyroid Gland: C-Cell

All Organs

FEMALE RAT

Organ

Adrenal Medulla

Mammary Gland

Ovary

Pituitary Gland: Pars Distalis or Unspecified Site

Pituitary Gland: Pars Intermedia

Thyroid Gland: C-Cell

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

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Lab: BNW

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

Uterus

Carcinoma or Adenoma

Carcinoma

Polyp Stromal

Sarcoma Stromal or Polyp Stromal

All Organs

Benign Tumors

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First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Adrenal Cortex				
Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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=0.185N	P=0.178N	P=0.047N*	P=0.248N
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

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First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Adrenal Medulla				
Pheochromocytoma Benign				
TUMOR RATES				
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	12/34.27
POLY-3 PERCENT (g)	29.7%	32.5%	37.8%	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%)			
STATISTICAL TESTS				
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=0.454	P=0.393	P=0.218	P=0.321
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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First Dose M/F: NA / NA

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Adrenal Medulla				
Pheochromocytoma Malignant				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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=0.395	P=0.089N	P=0.483	P=0.418
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
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)	34.1%	32.5%	42.1%	39.6%
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%)			
STATISTICAL TESTS				
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=0.418	P=0.437N	P=0.226	P=0.317
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Intestine Small: Jejunum				
Carcinoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.385	P=0.076	P=0.159	(e)
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

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First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Intestine Small: Site Unspecified				
Carcinoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.316N	P=0.038*	P=0.159	(e)
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Islets, Pancreatic Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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=0.224N	P=0.028N*	P=0.009N**
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

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First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Islets, Pancreatic Carcinoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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=1.000N	P=0.059	(e)	P=0.500
MAX-ISO-POLY-3	P=0.278	P=0.019*	(e)	P=0.158
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

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Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Islets, Pancreatic Carcinoma or Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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=0.342	P=0.028N*	P=0.031N*
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Kidney: Renal Tubule				
Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.299	(e)	P=0.076	(e)
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Liver				
Cholangiocarcinoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Liver				
Hepatocellular Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Liver				
Hepatocellular Carcinoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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=0.076	(e)	P=0.158
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Liver				
Hepatocellular Carcinoma or Hepatocellular Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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=0.323	P=0.038*	(e)	P=0.158
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Liver				
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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=0.323	P=0.038*	(e)	P=0.158
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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=0.076	(e)	P=0.158
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Lung				
Alveolar/Bronchiolar Carcinoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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=0.075
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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=0.041*	P=0.076	(e)	P=0.037*
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Mammary Gland				
Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Mammary Gland				
Carcinoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Mammary Gland				
Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Mammary Gland				
Fibroadenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.296N	P=0.484	P=0.131N
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Mammary Gland				
Fibroma, Fibroadenoma or Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.486	P=0.484	P=0.131N
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.486	P=0.484	P=0.131N
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Parathyroid Gland				
Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Pituitary Gland: Pars Distalis or Unspecified Site				
Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.251N	P=0.098N	P=0.174N	P=0.175N
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Pituitary Gland: Pars Intermedia				
Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Basal Cell Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.076	(e)
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.076	(e)
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.692	P=0.378N	P=0.471	P=0.462N
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Fibroma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.076	(e)
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.179N	P=0.042*	P=0.274	P=0.218N
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Keratoacanthoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.504	P=0.350N	P=0.347N	P=0.404
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Schwannoma Malignant				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.076	(e)
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Squamous Cell Papilloma				
TUMOR RATES	#	#	#	#
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)	2.5%	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%)			
STATISTICAL TESTS				
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=0.472N	P=0.270	P=0.169N	P=0.439
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.547N	P=0.378N	P=0.222N	P=0.462N
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.547N	P=0.378N	P=0.222N	P=0.462N
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin: Sebaceous Gland				
Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.318N	P=0.270	P=0.269	P=0.219N
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Stomach, Forestomach				
Squamous Cell Papilloma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.341N	P=0.076	(e)	(e)
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Testes				
Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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=0.076	P=0.076	(e)
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Thyroid Gland: C-Cell				
Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
POLY 3	P=0.000**	P=0.192	P=0.482	P<0.001**
POLY 1.5	P=0.000**	P=0.194	P=0.489	P<0.001**
POLY 6	P=0.000**	P=0.193	P=0.465	P=0.000**
COCH-ARM / FISHERS	P<0.001**	P=0.210	P=0.490	P=0.004**
MAX-ISO-POLY-3	P=0.000**	P=0.108	P=0.309	P=0.000**
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Thyroid Gland: C-Cell Carcinoma				
TUMOR RATES	#	#	#	#
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)	2.5%	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Thyroid Gland: C-Cell Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
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%	10.5%	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%)			
STATISTICAL TESTS				
POLY 3	P=0.000**	P=0.326	P=0.481	P<0.001**
POLY 1.5	P=0.000**	P=0.328	P=0.488	P=0.002**
POLY 6	P=0.000**	P=0.327	P=0.462	P=0.000**
COCH-ARM / FISHERS	P<0.001**	P=0.346	P=0.489	P=0.006**
MAX-ISO-POLY-3	P=0.000**	P=0.209	P=0.331	P<0.001**
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
Zymbal's Gland				
Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.266N	P=0.271	P=0.171N	P=0.218N
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.358	P=0.304
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
All Organs				
Leukemia: Lymphocytic, Monocytic, Mononuclear or Undifferentiated				
TUMOR RATES	#	#	#	#
OVERALL(a)	3/50 (6%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/40.20	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%)			
STATISTICAL TESTS				
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=0.218N	P=0.355N	P=0.047N*	P=0.246N
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
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%	29.5%	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%)			
STATISTICAL TESTS				
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=0.520	P=0.140	P=0.407	P=0.440
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	MALE			
	Control	100 ppm	300 ppm	1000 ppm
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
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 (90%)	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%)			
STATISTICAL TESTS				
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=0.374	P=0.097	P=0.259	P=0.391
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Adrenal Cortex				
Adenoma				
TUMOR RATES				
OVERALL(a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/34.94	1/37.42	2/39.52	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%)			
STATISTICAL TESTS				
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=0.103	P=0.211
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Adrenal Medulla				
Pheochromocytoma Benign				
TUMOR RATES				
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%	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%)			
STATISTICAL TESTS				
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				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Adrenal Medulla				
Pheochromocytoma Malignant				
TUMOR RATES				
OVERALL(a)	0/49 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/33.94	1/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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=0.053	P=0.028*	P=0.040*	P=0.023*
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Intestine Small: Jejunum				
Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL(a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:24

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Intestine Small: Site Unspecified Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL(a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Islets, Pancreatic				
Adenoma				
TUMOR RATES				
OVERALL(a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/34.94	1/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Islets, Pancreatic Carcinoma				
TUMOR RATES				
OVERALL(a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/35.03	0/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Islets, Pancreatic Carcinoma or Adenoma				
TUMOR RATES				
OVERALL(a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/35.03	1/37.11	0/39.52	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%)			
STATISTICAL TESTS				
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=0.212N	P=0.268N	P=0.075N	P=0.241N
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Kidney: Renal Tubule				
Adenoma				
TUMOR RATES	#	#	#	#
OVERALL(a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/34.94	0/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Liver				
Cholangiocarcinoma				
TUMOR RATES				
OVERALL(a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	2/37.11	0/39.52	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%)			
STATISTICAL TESTS				
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=0.089	(e)	(e)
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Liver				
Hepatocellular Adenoma				
TUMOR RATES				
OVERALL(a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	2/34.94	2/37.63	1/39.52	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%)			
STATISTICAL TESTS				
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=0.349	P=0.471N	P=0.256N	P=0.308
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Liver				
Hepatocellular Carcinoma				
TUMOR RATES				
OVERALL(a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	1/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Liver				
Hepatocellular Carcinoma or Hepatocellular Adenoma				
TUMOR RATES				
OVERALL(a)	2/50 (4%)	2/50 (4%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	2/34.94	2/37.63	2/39.52	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%)			
STATISTICAL TESTS				
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=0.438	P=0.471N	P=0.453N	P=0.308
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Liver				
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma				
TUMOR RATES				
OVERALL(a)	2/50 (4%)	2/50 (4%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	2/34.94	2/37.63	2/39.52	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%)			
STATISTICAL TESTS				
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=0.438	P=0.471N	P=0.453N	P=0.308
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

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

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

Date Report Requested: 04/13/2016
 Time Report Requested: 17:05:25
 First Dose M/F: NA / NA
 Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL(a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Lung				
Alveolar/Bronchiolar Carcinoma				
TUMOR RATES				
OVERALL(a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL(a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Mammary Gland				
Adenoma				
TUMOR RATES	#	#	#	#
OVERALL(a)	4/50 (8%)	4/50 (8%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	4/35.70	4/37.51	0/39.52	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%)			
STATISTICAL TESTS				
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=0.472N	P=0.019N*	P=0.070N
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.352N	P=0.201N	P=0.037N*
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Mammary Gland				
Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
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)	23.9%	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%)			
STATISTICAL TESTS				
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=0.384N	P=0.024N*	P=0.008N**
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Mammary Gland				
Fibroadenoma				
TUMOR RATES	#	#	#	#
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	18/46.76
POLY-3 PERCENT (g)	49.6%	62.7%	69.3%	38.5%
TERMINAL (d)	10/22 (45%)	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%)			
STATISTICAL TESTS				
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=0.114	P=0.030*	P=0.163N
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Mammary Gland				
Fibroma, Fibroadenoma or Adenoma				
TUMOR RATES	#	#	#	#
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	19/46.76
POLY-3 PERCENT (g)	55.9%	69.2%	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%)			
STATISTICAL TESTS				
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=0.099	P=0.097	P=0.083N
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
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	20/46.76
POLY-3 PERCENT (g)	63.2%	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%)			
STATISTICAL TESTS				
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=0.000N**	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=0.102	P=0.156	P=0.027N*
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Ovary				
Granulosa Cell Tumor Benign				
TUMOR RATES				
OVERALL(a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/35.25	0/37.11	0/39.52	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%)			
STATISTICAL TESTS				
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				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Parathyroid Gland				
Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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=0.112	(e)
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Pituitary Gland: Pars Distalis or Unspecified Site				
Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
POLY 3	P=0.000N**	P=0.226N	P=0.273N	P=0.000N**
POLY 1.5	P=0.000N**	P=0.233N	P=0.318N	P=0.000N**
POLY 6	P=0.000N**	P=0.245N	P=0.244N	P=0.000N**
COCH-ARM / FISHERS	P=0.002N**	P=0.260N	P=0.417N	P=0.002N**
MAX-ISO-POLY-3	P=0.000N**	P=0.163N	P=0.213N	P=0.000N**
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Pituitary Gland: Pars Intermedia				
Adenoma				
TUMOR RATES	#	#	#	#
OVERALL(a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.52	2/43.98
POLY-3 PERCENT (g)	0%	0%	0%	4.5%
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%)			
STATISTICAL TESTS				
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=0.087	(e)	(e)	P=0.128
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Basal Cell Adenoma				
TUMOR RATES	#	#	#	#
OVERALL(a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL(a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/35.55	0/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma				
TUMOR RATES	#	#	#	#
OVERALL(a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/35.55	0/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Fibroma				
TUMOR RATES	#	#	#	#
OVERALL(a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	1/37.33	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
OVERALL(a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	2/37.64	0/39.52	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%)			
STATISTICAL TESTS				
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=0.092	(e)	(e)
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL(a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Schwannoma Malignant				
TUMOR RATES	#	#	#	#
OVERALL(a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	1/37.11	1/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Squamous Cell Papilloma				
TUMOR RATES	#	#	#	#
OVERALL(a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL(a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin				
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL(a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Skin: Sebaceous Gland				
Adenoma				
TUMOR RATES	#	#	#	#
OVERALL(a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Stomach, Forestomach				
Squamous Cell Papilloma				
TUMOR RATES	#	#	#	#
OVERALL(a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/34.94	0/37.11	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Thyroid Gland: C-Cell				
Adenoma				
TUMOR RATES	#	#	#	#
OVERALL(a)	2/50 (4%)	8/50 (16%)	8/50 (16%)	14/50 (28%)
POLY-3 RATE (b)	2/36.31	8/39.26	8/39.52	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%)			
STATISTICAL TESTS				
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=0.005**	P=0.031*	P=0.033*	P=0.003**
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Thyroid Gland: C-Cell Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL(a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/34.94	2/37.11	0/39.52	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%)			
STATISTICAL TESTS				
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=0.383	P=0.089	(e)	P=0.213
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Thyroid Gland: C-Cell Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL(a)	2/50 (4%)	10/50 (20%)	8/50 (16%)	15/50 (30%)
POLY-3 RATE (b)	2/36.31	10/39.26	8/39.52	15/44.62
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%)			
STATISTICAL TESTS				
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=0.000**
MAX-ISO-POLY-3	P=0.003**	P=0.009**	P=0.033*	P=0.002**
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Uterus				
Adenoma or Adenocarcinoma				
TUMOR RATES	#	#	#	#
OVERALL(a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	5/50 (10%)
POLY-3 RATE (b)	1/34.94	2/37.60	0/39.52	5/44.28
POLY-3 PERCENT (g)	2.90%	5.30%	0%	11.30%
TERMINAL (d)	1/22 (5%)	1/21 (5%)	0/25 (0%)	3/30 (10%)
FIRST INCIDENCE	731(T)	585	---	530
HC TUMORS SAME ROUTE	0/0(0%)			
HC TUMORS ALL ROUTES	0/0(0%)			
STATISTICAL TESTS				
POLY 3	P=0.044*	P=0.526	P=0.475N	P=0.166
POLY 1.5	P=0.037*	P=0.516	P=0.484N	P=0.14
POLY 6	P=0.051	P=0.529	P=0.468N	P=0.192
COCH-ARM / FISHERS	P=0.029*	P=0.5	P=0.500N	P=0.102
MAX-ISO-POLY-3	P=0.071	P=0.307	P=0.158N	P=0.105
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Uterus				
Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL(a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	5/50 (10%)
POLY-3 RATE (b)	1/34.94	1/37.11	0/39.52	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%)			
STATISTICAL TESTS				
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=0.484N	P=0.158N	P=0.105
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Uterus				
Polyp Stromal				
TUMOR RATES	#	#	#	#
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%	23.7%	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%)			
STATISTICAL TESTS				
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=0.178	P=0.336	P=0.035*	P=0.235
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Uterus				
Sarcoma Stromal or Polyp Stromal				
TUMOR RATES	#	#	#	#
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%	23.7%	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%)			
STATISTICAL TESTS				
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=0.148	P=0.336	P=0.021*	P=0.235
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Vagina				
Granular Cell Tumor Benign				
TUMOR RATES	#	#	#	#
OVERALL(a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/34.94	2/37.11	0/39.52	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%)			
STATISTICAL TESTS				
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=0.187N	P=0.302	P=0.158N	P=0.158N
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
Zymbal's Gland				
Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL(a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/34.94	1/37.40	0/39.52	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%)			
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
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: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.462	P=0.105N
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
All Organs				
Leukemia: Lymphocytic, Monocytic, Mononuclear or Undifferentiated				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.104	(e)
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL(a)	10/50 (20%)	13/50 (26%)	12/50 (24%)	12/50 (24%)
POLY-3 RATE (b)	10/38.15	13/38.79	12/41.43	12/46.06
POLY-3 PERCENT (g)	26.2%	33.5%	29%	26.1%
TERMINAL (d)	3/22 (14%)	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%)			
STATISTICAL TESTS				
POLY 3	P=0.397N	P=0.323	P=0.491	P=0.591N
POLY 1.5	P=0.485N	P=0.321	P=0.459	P=0.532
POLY 6	P=0.313N	P=0.313	P=0.522	P=0.526N
COCH-ARM / FISHERS	P=0.483	P=0.318	P=0.405	P=0.405
MAX-ISO-POLY-3	P=0.568N	P=0.240	P=0.395	P=0.494N
HISTCONT SAME RTE				
HISTCONT ALL RTEs				
CURR VS HC SAME RTE				
CURR VS HC ALL RTEs				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

Lab: BNW

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

DOSE	FEMALE			
	Control	100 ppm	300 ppm	1000 ppm
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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=0.334N	P=0.385	P=0.349	P=0.288N
HISTCONT SAME RTE				
HISTCONT ALL RTES				
CURR VS HC SAME RTE				
CURR VS HC ALL RTES				

Experiment Number: 10472-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/HSD

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Test Compound: p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 04/13/2016

Time Report Requested: 17:05:25

First Dose M/F: NA / NA

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.
 - (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 ****