

Experiment Number: 20523 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 10/29/2014

Time Report Requested: 10:15:41

First Dose M/F: 07/20/09 / 07/20/09

Lab: BNW

F1_RE

NTP Study Number: C20523
Lock Date: 06/04/2012
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.2_002
PWG Approval Date: NONE

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF METAL WORKING FLUIDS (TRIM VX)

MALE RATS

Organ

Adrenal Cortex
Kidney: Pelvis
Larynx
Larynx: Epiglottis

Liver

Lung

Lung: Alveolar Epithelium

Lung: Alveolar/Bronchiolar Epithelium
Lung: Alveolus
Lung: Bronchus-Associated Lymphoid Tissue
Lymph Node, Bronchial
Lymph Node, Mediastinal
Lymph Node: Iliac
Nose
Nose: Goblet Cell
Nose: Olfactory Epithelium
Nose: Olfactory Epithelium, Glands
Nose: Respiratory Epithelium

Nose: Transitional Epithelium

Pancreas: Acinus
Pituitary Gland: Pars Intermedia
Seminal Vesicle
Spleen: Lymphoid Follicle
Testes: Artery

Morphology

Necrosis
Inflammation
Infiltration Cellular Mixed Cell
Hyperplasia
Metaplasia
Angiectasis
Basophilic Focus
Clear Cell Focus
Fibrosis
Infiltration Cellular Histiocyte
Inflammation Chronic
Hyperplasia
Metaplasia
Hyperplasia
Proteinosis
Hyperplasia Lymphohistiocytic
Hyperplasia Lymphohistiocytic
Hyperplasia Lymphohistiocytic
Hyperplasia
Inflammation
Hyperplasia
Accumulation, Hyaline Droplet
Hyperplasia
Accumulation, Hyaline Droplet
Hyperplasia
Hyperplasia
Metaplasia
Atrophy
Hyperplasia
Inflammation
Atrophy
Inflammation Chronic

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF METAL WORKING FLUIDS (TRIM VX)

Testes: Germinal Epithelium
Thymus

Atrophy
Atrophy

FEMALE RATS

Organ

Adrenal Cortex
Adrenal Medulla
Clitoral Gland
Heart
Kidney: Pelvis
Kidney: Renal Tubule
Larynx
Larynx: Epiglottis

Liver

Liver: Bile Duct
Lung

Lung: Alveolar Epithelium

Lung: Alveolar/Bronchiolar Epithelium
Lung: Alveolus
Lung: Bronchus-Associated Lymphoid Tissue
Lymph Node, Bronchial
Lymph Node, Mediastinal

Lymph Node: Lumbar
Mammary Gland
Nose
Nose: Goblet Cell
Nose: Olfactory Epithelium

Morphology

Hematopoietic Cell Proliferation
Hyperplasia
Cyst
Cardiomyopathy
Inflammation
Cyst
Infiltration Cellular Mixed Cell
Hyperplasia
Metaplasia
Angiectasis
Basophilic Focus
Clear Cell Focus
Mixed Cell Focus
Hyperplasia
Fibrosis
Infiltration Cellular Histiocyte
Inflammation Chronic
Hyperplasia
Metaplasia
Hyperplasia
Proteinosis
Hyperplasia Lymphohistiocytic
Hyperplasia Lymphohistiocytic
Hyperplasia
Hyperplasia Lymphohistiocytic
Hyperplasia
Hyperplasia
Inflammation
Hyperplasia
Accumulation, Hyaline Droplet

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF METAL WORKING FLUIDS (TRIM VX)

Nose: Olfactory Epithelium, Glands	Metaplasia
Nose: Respiratory Epithelium	Hyperplasia
	Accumulation, Hyaline Droplet
	Hyperplasia
Nose: Transitional Epithelium	Hyperplasia
	Metaplasia
Pituitary Gland: Pars Distalis	Hyperplasia
Skin	Ulcer
Spleen: Lymphoid Follicle	Atrophy
Stomach, Forestomach	Inflammation
Stomach, Forestomach: Epithelium	Hyperplasia

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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex				
Angiectasis				
LESION RATES				
OVERALL (a)	4/50 (8%)	1/50 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	4/44.72	1/47.08	1/41.94	3/41.73
POLY-3 PERCENT (g)	8.9%	2.1%	2.4%	7.2%
TERMINAL (d)	4/36 (11%)	1/39 (3%)	1/33 (3%)	2/34 (6%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	695
STATISTICAL TESTS				
POLY 3	P=0.492	P=0.164N	P=0.198N	P=0.538N
POLY 1.5	P=0.509	P=0.170N	P=0.194N	P=0.525N
POLY 6	P=0.476	P=0.156N	P=0.202N	P=0.547N
COCH-ARM / FISHERS	P=0.535	P=0.181N	P=0.181N	P=0.500N
MAX-ISO-POLY-3	P=0.245N	P=0.080N	P=0.102N	P=0.385N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex				
Hematopoietic Cell Proliferation				
<hr/>				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex Hypertrophy				
LESION RATES				
OVERALL (a)	13/50 (26%)	18/50 (36%)	13/50 (26%)	15/50 (30%)
POLY-3 RATE (b)	13/44.86	18/47.46	13/42.96	15/42.68
POLY-3 PERCENT (g)	29%	37.9%	30.3%	35.2%
TERMINAL (d)	12/36 (33%)	14/39 (36%)	10/33 (30%)	11/34 (32%)
FIRST INCIDENCE	694	684	554	568
STATISTICAL TESTS				
POLY 3	P=0.449	P=0.245	P=0.541	P=0.348
POLY 1.5	P=0.486	P=0.220	P=0.546	P=0.368
POLY 6	P=0.422	P=0.278	P=0.544	P=0.340
COCH-ARM / FISHERS	P=0.550	P=0.194	P=0.590N	P=0.412
MAX-ISO-POLY-3	P=0.444	P=0.187	P=0.447	P=0.272

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex Necrosis				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/44.72	0/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	4.5%	0%	0%	0%
TERMINAL (d)	2/36 (6%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.269N	P=0.226N	P=0.252N	P=0.254N
POLY 1.5	P=0.264N	P=0.231N	P=0.248N	P=0.248N
POLY 6	P=0.275N	P=0.220N	P=0.254N	P=0.258N
COCH-ARM / FISHERS	P=0.260N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.048N*	P=0.076N	P=0.090N	P=0.092N

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex				
Vacuolization Cytoplasmic				
LESION RATES				
OVERALL (a)	19/50 (38%)	23/50 (46%)	21/50 (42%)	21/50 (42%)
POLY-3 RATE (b)	19/45.52	23/47.46	21/43.33	21/44.23
POLY-3 PERCENT (g)	41.7%	48.5%	48.5%	47.5%
TERMINAL (d)	17/36 (47%)	19/39 (49%)	17/33 (52%)	14/34 (41%)
FIRST INCIDENCE	603	684	555	491
STATISTICAL TESTS				
POLY 3	P=0.436	P=0.328	P=0.334	P=0.368
POLY 1.5	P=0.464	P=0.301	P=0.349	P=0.381
POLY 6	P=0.425	P=0.363	P=0.329	P=0.373
COCH-ARM / FISHERS	P=0.522	P=0.272	P=0.419	P=0.419
MAX-ISO-POLY-3	P=0.440	P=0.260	P=0.265	P=0.293

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Medulla Hyperplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/49 (0%)	1/49 (2%)
POLY-3 RATE (b)	1/45.16	1/47.08	0/40.94	1/40.60
POLY-3 PERCENT (g)	2.2%	2.1%	0%	2.5%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	0/32 (0%)	1/33 (3%)
FIRST INCIDENCE	603	729 (T)	---	729 (T)
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Brain Compression				
LESION RATES				
OVERALL (a)	8/50 (16%)	6/50 (12%)	8/50 (16%)	7/50 (14%)
POLY-3 RATE (b)	8/46.98	6/47.53	8/45.07	7/45.82
POLY-3 PERCENT (g)	17%	12.6%	17.8%	15.3%
TERMINAL (d)	3/36 (8%)	3/39 (8%)	1/33 (3%)	0/34 (0%)
FIRST INCIDENCE	421	684	452	367
STATISTICAL TESTS				
POLY 3	P=0.568N	P=0.378N	P=0.572	P=0.521N
POLY 1.5	P=0.558N	P=0.384N	P=0.575	P=0.515N
POLY 6	P=0.564	P=0.366N	P=0.579	P=0.522N
COCH-ARM / FISHERS	P=0.542N	P=0.387N	P=0.607N	P=0.500N
MAX-ISO-POLY-3	P=0.629N	P=0.276N	P=0.464	P=0.409N

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Brain				
Hydrocephalus				
LESION RATES				
OVERALL (a)	5/50 (10%)	3/50 (6%)	8/50 (16%)	4/50 (8%)
POLY-3 RATE (b)	5/46.17	3/47.35	8/45.40	4/44.59
POLY-3 PERCENT (g)	10.8%	6.3%	17.6%	9%
TERMINAL (d)	1/36 (3%)	1/39 (3%)	1/33 (3%)	0/34 (0%)
FIRST INCIDENCE	529	684	270	367
STATISTICAL TESTS				
POLY 3	P=0.557N	P=0.343N	P=0.264	P=0.522N
POLY 1.5	P=0.539N	P=0.350N	P=0.264	P=0.513N
POLY 6	P=0.577N	P=0.334N	P=0.268	P=0.531N
COCH-ARM / FISHERS	P=0.516N	P=0.357N	P=0.277	P=0.500N
MAX-ISO-POLY-3	P=0.386	P=0.223N	P=0.179	P=0.385N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Eye: Retina Atrophy				
LESION RATES				
OVERALL (a)	5/50 (10%)	5/50 (10%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	5/45.34	5/47.08	1/41.94	3/42.19
POLY-3 PERCENT (g)	11%	10.6%	2.4%	7.1%
TERMINAL (d)	4/36 (11%)	5/39 (13%)	1/33 (3%)	2/34 (6%)
FIRST INCIDENCE	529	729 (T)	729 (T)	540
STATISTICAL TESTS				
POLY 3	P=0.326N	P=0.606N	P=0.120N	P=0.396N
POLY 1.5	P=0.313N	P=0.617N	P=0.115N	P=0.383N
POLY 6	P=0.338N	P=0.593N	P=0.124N	P=0.407N
COCH-ARM / FISHERS	P=0.293N	P=0.630N	P=0.102N	P=0.357N
MAX-ISO-POLY-3	P=0.242N	P=0.474N	P=0.061N	P=0.271N

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Harderian Gland Inflammation				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/44.72	1/47.08	1/41.94	2/42.20
POLY-3 PERCENT (g)	2.2%	2.1%	2.4%	4.7%
TERMINAL (d)	1/36 (3%)	1/39 (3%)	1/33 (3%)	1/34 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	535
STATISTICAL TESTS				
POLY 3	P=0.336	P=0.749N	P=0.746	P=0.480
POLY 1.5	P=0.346	P=0.754N	P=0.749	P=0.487
POLY 6	P=0.327	P=0.743N	P=0.744	P=0.475
COCH-ARM / FISHERS	P=0.363	P=0.753N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.398	P=0.485N	P=0.481	P=0.269

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Heart				
Cardiomyopathy				
LESION RATES				
OVERALL (a)	21/50 (42%)	17/50 (34%)	22/50 (44%)	18/50 (36%)
POLY-3 RATE (b)	21/46.14	17/49.02	22/44.44	18/42.87
POLY-3 PERCENT (g)	45.5%	34.7%	49.5%	42%
TERMINAL (d)	16/36 (44%)	10/39 (26%)	15/33 (46%)	14/34 (41%)
FIRST INCIDENCE	535	323	452	540
STATISTICAL TESTS				
POLY 3	P=0.508	P=0.192N	P=0.432	P=0.451N
POLY 1.5	P=0.525N	P=0.220N	P=0.439	P=0.410N
POLY 6	P=0.440	P=0.164N	P=0.436	P=0.489N
COCH-ARM / FISHERS	P=0.407N	P=0.268N	P=0.500	P=0.341N
MAX-ISO-POLY-3	P=0.473	P=0.146N	P=0.352	P=0.371N

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Heart: Endocardium Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	0/47.08	2/42.02	0/41.60
POLY-3 PERCENT (g)	0%	0%	4.8%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	1/33 (3%)	0/34 (0%)
FIRST INCIDENCE	---	---	707	---
STATISTICAL TESTS				
POLY 3	P=0.711N	(e)	P=0.223	(e)
POLY 1.5	P=0.700N	(e)	P=0.226	(e)
POLY 6	P=0.721N	(e)	P=0.221	(e)
COCH-ARM / FISHERS	P=0.679N	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.256	(e)	P=0.076	(e)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Kidney				
Hydronephrosis				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/44.72	0/47.08	1/41.94	3/41.65
POLY-3 PERCENT (g)	2.2%	0%	2.4%	7.2%
TERMINAL (d)	1/36 (3%)	0/39 (0%)	1/33 (3%)	2/34 (6%)
FIRST INCIDENCE	729 (T)	---	729 (T)	716
STATISTICAL TESTS				
POLY 3	P=0.067	P=0.490N	P=0.746	P=0.280
POLY 1.5	P=0.072	P=0.494N	P=0.749	P=0.289
POLY 6	P=0.063	P=0.484N	P=0.744	P=0.273
COCH-ARM / FISHERS	P=0.081	P=0.500N	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.082	P=0.158N	P=0.481	P=0.145

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Kidney Infarct				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	1/47.08	2/42.07	0/41.60
POLY-3 PERCENT (g)	0%	2.1%	4.8%	0%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	1/33 (3%)	0/34 (0%)
FIRST INCIDENCE	---	729 (T)	694	---
STATISTICAL TESTS				
POLY 3	P=0.534N	P=0.510	P=0.224	(e)
POLY 1.5	P=0.522N	P=0.506	P=0.227	(e)
POLY 6	P=0.544N	P=0.516	P=0.222	(e)
COCH-ARM / FISHERS	P=0.502N	P=0.500	P=0.247	(e)
MAX-ISO-POLY-3	P=0.336	P=0.172	P=0.076	(e)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Kidney Nephropathy				
LESION RATES				
OVERALL (a)	27/50 (54%)	31/50 (62%)	27/50 (54%)	28/50 (56%)
POLY-3 RATE (b)	27/46.77	31/47.44	27/44.31	28/43.04
POLY-3 PERCENT (g)	57.7%	65.4%	60.9%	65.1%
TERMINAL (d)	20/36 (56%)	27/39 (69%)	22/33 (67%)	23/34 (68%)
FIRST INCIDENCE	529	690	452	568
STATISTICAL TESTS				
POLY 3	P=0.369	P=0.289	P=0.461	P=0.306
POLY 1.5	P=0.458	P=0.279	P=0.486	P=0.375
POLY 6	P=0.297	P=0.301	P=0.439	P=0.252
COCH-ARM / FISHERS	P=0.498N	P=0.272	P=0.579N	P=0.500
MAX-ISO-POLY-3	P=0.393	P=0.222	P=0.378	P=0.242

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Kidney: Pelvis Inflammation				
LESION RATES				
OVERALL (a)	19/50 (38%)	17/50 (34%)	5/50 (10%)	9/50 (18%)
POLY-3 RATE (b)	19/46.32	17/47.46	5/42.17	9/44.01
POLY-3 PERCENT (g)	41%	35.8%	11.9%	20.5%
TERMINAL (d)	13/36 (36%)	14/39 (36%)	3/33 (9%)	5/34 (15%)
FIRST INCIDENCE	535	684	694	367
STATISTICAL TESTS				
POLY 3	P=0.021N*	P=0.380N	P<0.001N**	P=0.027N*
POLY 1.5	P=0.018N*	P=0.397N	P<0.001N**	P=0.024N*
POLY 6	P=0.023N*	P=0.364N	P=0.002N**	P=0.030N*
COCH-ARM / FISHERS	P=0.018N*	P=0.418N	P<0.001N**	P=0.022N*
MAX-ISO-POLY-3	P=0.007N**	P=0.304N	P<0.001N**	P=0.018N*

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Kidney: Renal Tubule Cyst				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	1/47.08	1/41.94	0/41.60
POLY-3 PERCENT (g)	0%	2.1%	2.4%	0%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	1/33 (3%)	0/34 (0%)
FIRST INCIDENCE	---	729 (T)	729 (T)	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Larynx				
Infiltration Cellular Mixed Cell				
LESION RATES				
OVERALL (a)	1/50 (2%)	9/50 (18%)	27/50 (54%)	31/50 (62%)
POLY-3 RATE (b)	1/44.75	9/48.15	27/46.46	31/45.37
POLY-3 PERCENT (g)	2.2%	18.7%	58.1%	68.3%
TERMINAL (d)	0/36 (0%)	6/39 (15%)	19/33 (58%)	23/34 (68%)
FIRST INCIDENCE	722	323	222	409
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.011*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.010**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.013*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.008**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.006**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (Trim VX)
CAS Number: TRIMVX

Date Report Requested: 10/29/2014
Time Report Requested: 10:15:41
First Dose M/F: 07/20/09 / 07/20/09
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<hr/>				
Larynx Inflammation Chronic				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.72	1/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	2.2%	2.1%	0%	0%
TERMINAL (d)	1/36 (3%)	1/39 (3%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Larynx: Epiglottis Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	26/50 (52%)	48/50 (96%)	50/50 (100%)
POLY-3 RATE (b)	0/44.72	26/48.54	48/48.43	50/50.00
POLY-3 PERCENT (g)	0%	53.6%	99.1%	100%
TERMINAL (d)	0/36 (0%)	20/39 (51%)	33/33 (100%)	34/34 (100%)
FIRST INCIDENCE	---	323	222	367
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Larynx: Epiglottis Metaplasia				
LESION RATES				
OVERALL (a)	3/50 (6%)	50/50 (100%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	3/44.86	50/50.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	6.7%	100%	100%	100%
TERMINAL (d)	2/36 (6%)	39/39 (100%)	33/33 (100%)	34/34 (100%)
FIRST INCIDENCE	694	323	222	367
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Angiectasis				
LESION RATES				
OVERALL (a)	5/50 (10%)	2/50 (4%)	0/50 (0%)	4/50 (8%)
POLY-3 RATE (b)	5/45.33	2/47.08	0/41.94	4/41.96
POLY-3 PERCENT (g)	11%	4.3%	0%	9.5%
TERMINAL (d)	4/36 (11%)	2/39 (5%)	0/33 (0%)	3/34 (9%)
FIRST INCIDENCE	535	729 (T)	---	627
STATISTICAL TESTS				
POLY 3	P=0.464	P=0.201N	P=0.037N*	P=0.548N
POLY 1.5	P=0.480	P=0.208N	P=0.036N*	P=0.531N
POLY 6	P=0.450	P=0.193N	P=0.039N*	P=0.561N
COCH-ARM / FISHERS	P=0.503	P=0.218N	P=0.028N*	P=0.500N
MAX-ISO-POLY-3	P=0.187N	P=0.113N	P=0.015N*	P=0.411N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Basophilic Focus				
LESION RATES				
OVERALL (a)	5/50 (10%)	10/50 (20%)	15/50 (30%)	9/50 (18%)
POLY-3 RATE (b)	5/44.72	10/47.23	15/42.44	9/41.65
POLY-3 PERCENT (g)	11.2%	21.2%	35.3%	21.6%
TERMINAL (d)	5/36 (14%)	9/39 (23%)	13/33 (39%)	8/34 (24%)
FIRST INCIDENCE	729 (T)	690	626	716
STATISTICAL TESTS				
POLY 3	P=0.288	P=0.155	P=0.006**	P=0.152
POLY 1.5	P=0.330	P=0.144	P=0.007**	P=0.167
POLY 6	P=0.252	P=0.170	P=0.005**	P=0.142
COCH-ARM / FISHERS	P=0.405	P=0.131	P=0.011*	P=0.194
MAX-ISO-POLY-3	P=0.047*	P=0.103	P=0.003**	P=0.101

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Clear Cell Focus				
LESION RATES				
OVERALL (a)	14/50 (28%)	23/50 (46%)	17/50 (34%)	23/50 (46%)
POLY-3 RATE (b)	14/45.14	23/47.08	17/42.61	23/42.75
POLY-3 PERCENT (g)	31%	48.9%	39.9%	53.8%
TERMINAL (d)	12/36 (33%)	23/39 (59%)	15/33 (46%)	19/34 (56%)
FIRST INCIDENCE	674	729 (T)	626	626
STATISTICAL TESTS				
POLY 3	P=0.062	P=0.059	P=0.257	P=0.022*
POLY 1.5	P=0.081	P=0.053	P=0.274	P=0.029*
POLY 6	P=0.051	P=0.066	P=0.246	P=0.019*
COCH-ARM / FISHERS	P=0.126	P=0.048*	P=0.333	P=0.048*
MAX-ISO-POLY-3	P=0.026*	P=0.040*	P=0.197	P=0.015*

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Eosinophilic Focus				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	2/44.72	0/47.08	0/41.94	2/41.60
POLY-3 PERCENT (g)	4.5%	0%	0%	4.8%
TERMINAL (d)	2/36 (6%)	0/39 (0%)	0/33 (0%)	2/34 (6%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.345	P=0.226N	P=0.252N	P=0.668
POLY 1.5	P=0.357	P=0.231N	P=0.248N	P=0.677
POLY 6	P=0.335	P=0.220N	P=0.254N	P=0.660
COCH-ARM / FISHERS	P=0.373	P=0.247N	P=0.247N	P=0.691N
MAX-ISO-POLY-3	P=0.263	P=0.076N	P=0.090N	P=0.470

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver Fatty Change				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/44.72	0/47.08	1/41.94	1/42.09
POLY-3 PERCENT (g)	0%	0%	2.4%	2.4%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	1/33 (3%)	0/34 (0%)
FIRST INCIDENCE	---	---	729 (T)	581
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Hepatodiaphragmatic Nodule				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/45.33	2/47.99	0/41.94	1/41.60
POLY-3 PERCENT (g)	2.2%	4.2%	0%	2.4%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	0/33 (0%)	1/34 (3%)
FIRST INCIDENCE	535	323	---	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.587N	P=0.520	P=0.516N	P=0.741
POLY 1.5	P=0.581N	P=0.512	P=0.512N	P=0.748
POLY 6	P=0.593N	P=0.528	P=0.519N	P=0.735
COCH-ARM / FISHERS	P=0.572N	P=0.500	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.443N	P=0.302	P=0.177N	P=0.475

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Inflammation Granulomatous				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/44.72	1/47.08	0/41.94	2/41.65
POLY-3 PERCENT (g)	0%	2.1%	0%	4.8%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	0/33 (0%)	1/34 (3%)
FIRST INCIDENCE	---	729 (T)	---	716
STATISTICAL TESTS				
POLY 3	P=0.137	P=0.510	(e)	P=0.221
POLY 1.5	P=0.142	P=0.506	(e)	P=0.227
POLY 6	P=0.134	P=0.516	(e)	P=0.217
COCH-ARM / FISHERS	P=0.149	P=0.500	(e)	P=0.247
MAX-ISO-POLY-3	P=0.080	P=0.172	(e)	P=0.076

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Mixed Cell Focus				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/44.72	1/47.08	2/41.94	1/41.60
POLY-3 PERCENT (g)	0%	2.1%	4.8%	2.4%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	2/33 (6%)	1/34 (3%)
FIRST INCIDENCE	---	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.479	P=0.510	P=0.223	P=0.486
POLY 1.5	P=0.495	P=0.506	P=0.226	P=0.491
POLY 6	P=0.466	P=0.516	P=0.220	P=0.481
COCH-ARM / FISHERS	P=0.522	P=0.500	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.234	P=0.172	P=0.076	P=0.158

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver: Bile Duct Cyst				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/44.72	0/47.08	2/41.94	1/41.60
POLY-3 PERCENT (g)	0%	0%	4.8%	2.4%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	2/33 (6%)	1/34 (3%)
FIRST INCIDENCE	---	---	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.334	(e)	P=0.223	P=0.486
POLY 1.5	P=0.350	(e)	P=0.226	P=0.491
POLY 6	P=0.320	(e)	P=0.220	P=0.481
COCH-ARM / FISHERS	P=0.377	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.177	(e)	P=0.076	P=0.158

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver: Bile Duct Dilatation				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/44.72	0/47.08	0/41.94	2/41.60
POLY-3 PERCENT (g)	2.2%	0%	0%	4.8%
TERMINAL (d)	1/36 (3%)	0/39 (0%)	0/33 (0%)	2/34 (6%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.168	P=0.490N	P=0.513N	P=0.475
POLY 1.5	P=0.175	P=0.494N	P=0.510N	P=0.484
POLY 6	P=0.162	P=0.484N	P=0.515N	P=0.467
COCH-ARM / FISHERS	P=0.186	P=0.500N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.132	P=0.158N	P=0.174N	P=0.266

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver: Bile Duct Hyperplasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/44.93	2/47.08	1/41.94	1/41.60
POLY-3 PERCENT (g)	4.5%	4.3%	2.4%	2.4%
TERMINAL (d)	1/36 (3%)	2/39 (5%)	1/33 (3%)	1/34 (3%)
FIRST INCIDENCE	675	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.422N	P=0.677N	P=0.524N	P=0.527N
POLY 1.5	P=0.411N	P=0.684N	P=0.518N	P=0.517N
POLY 6	P=0.433N	P=0.669N	P=0.529N	P=0.535N
COCH-ARM / FISHERS	P=0.393N	P=0.691N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.494N	P=0.480N	P=0.306N	P=0.309N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung Fibrosis				
LESION RATES				
OVERALL (a)	4/50 (8%)	43/50 (86%)	45/50 (90%)	49/50 (98%)
POLY-3 RATE (b)	4/44.72	43/48.94	45/46.48	49/49.25
POLY-3 PERCENT (g)	8.9%	87.9%	96.8%	99.5%
TERMINAL (d)	4/36 (11%)	35/39 (90%)	33/33 (100%)	34/34 (100%)
FIRST INCIDENCE	729 (T)	571	452	367
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung				
Infiltration Cellular Histiocyte				
LESION RATES				
OVERALL (a)	14/50 (28%)	50/50 (100%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	14/47.50	50/50.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	29.5%	100%	100%	100%
TERMINAL (d)	7/36 (19%)	39/39 (100%)	33/33 (100%)	34/34 (100%)
FIRST INCIDENCE	529	323	222	367
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung Inflammation Chronic				
LESION RATES				
OVERALL (a)	7/50 (14%)	46/50 (92%)	46/50 (92%)	48/50 (96%)
POLY-3 RATE (b)	7/45.30	46/48.99	46/47.99	48/49.47
POLY-3 PERCENT (g)	15.5%	93.9%	95.9%	97%
TERMINAL (d)	5/36 (14%)	37/39 (95%)	32/33 (97%)	33/34 (97%)
FIRST INCIDENCE	626	571	270	367
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung: Alveolar Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	11/50 (22%)	43/50 (86%)	45/50 (90%)	49/50 (98%)
POLY-3 RATE (b)	11/46.24	43/49.26	45/47.04	49/49.51
POLY-3 PERCENT (g)	23.8%	87.3%	95.7%	99%
TERMINAL (d)	7/36 (19%)	35/39 (90%)	32/33 (97%)	34/34 (100%)
FIRST INCIDENCE	421	323	452	367
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung: Alveolar Epithelium Metaplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	5/50 (10%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	5/41.60
POLY-3 PERCENT (g)	0%	0%	0%	12%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	5/34 (15%)
FIRST INCIDENCE	---	---	---	729 (T)
STATISTICAL TESTS				
POLY 3	P<0.001**	(e)	(e)	P=0.025*
POLY 1.5	P<0.001**	(e)	(e)	P=0.027*
POLY 6	P<0.001**	(e)	(e)	P=0.023*
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.028*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.009**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung: Alveolar/Bronchiolar Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	4/50 (8%)	22/50 (44%)	39/50 (78%)	46/50 (92%)
POLY-3 RATE (b)	4/44.72	22/47.40	39/45.40	46/48.32
POLY-3 PERCENT (g)	8.9%	46.4%	85.9%	95.2%
TERMINAL (d)	4/36 (11%)	19/39 (49%)	30/33 (91%)	33/34 (97%)
FIRST INCIDENCE	729 (T)	687	222	367
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung: Alveolus Proteinosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	31/50 (62%)	45/50 (90%)
POLY-3 RATE (b)	0/44.72	1/47.08	31/44.56	45/48.94
POLY-3 PERCENT (g)	0%	2.1%	69.6%	92%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	24/33 (73%)	31/34 (91%)
FIRST INCIDENCE	---	729 (T)	551	367
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.510	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.506	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.516	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.172	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung: Bronchus-Associated Lymphoid Tissue Hyperplasia Lymphohistiocytic				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	4/50 (8%)	6/50 (12%)
POLY-3 RATE (b)	0/44.72	1/47.14	4/42.17	6/42.80
POLY-3 PERCENT (g)	0%	2.1%	9.5%	14%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	3/33 (9%)	4/34 (12%)
FIRST INCIDENCE	---	715	666	535
STATISTICAL TESTS				
POLY 3	P=0.004**	P=0.510	P=0.053	P=0.013*
POLY 1.5	P=0.005**	P=0.506	P=0.054	P=0.014*
POLY 6	P=0.004**	P=0.516	P=0.052	P=0.012*
COCH-ARM / FISHERS	P=0.007**	P=0.500	P=0.059	P=0.013*
MAX-ISO-POLY-3	P=0.006**	P=0.172	P=0.019*	P=0.004**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lymph Node, Bronchial Hyperplasia Lymphohistiocytic				
LESION RATES				
OVERALL (a)	0/39 (0%)	17/43 (40%)	29/42 (69%)	35/42 (83%)
POLY-3 RATE (b)	0/34.63	17/40.77	29/37.74	35/40.48
POLY-3 PERCENT (g)	0%	41.7%	76.9%	86.5%
TERMINAL (d)	0/28 (0%)	14/33 (42%)	20/27 (74%)	22/27 (82%)
FIRST INCIDENCE	---	702	551	367
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (Trim VX)
CAS Number: TRIMVX

Date Report Requested: 10/29/2014
Time Report Requested: 10:15:41
First Dose M/F: 07/20/09 / 07/20/09
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lymph Node, Mediastinal Hyperplasia				
LESION RATES				
OVERALL (a)	0/43 (0%)	0/48 (0%)	0/44 (0%)	0/43 (0%)
POLY-3 RATE (b)	0/38.38	0/45.08	0/37.24	0/35.20
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/37 (0%)	0/30 (0%)	0/28 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lymph Node, Mediastinal Hyperplasia Lymphohistiocytic				
LESION RATES				
OVERALL (a)	0/43 (0%)	20/48 (42%)	22/44 (50%)	32/43 (74%)
POLY-3 RATE (b)	0/38.38	20/46.69	22/39.98	32/41.34
POLY-3 PERCENT (g)	0%	42.8%	55%	77.4%
TERMINAL (d)	0/31 (0%)	13/37 (35%)	17/30 (57%)	21/28 (75%)
FIRST INCIDENCE	---	571	452	367
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lymph Node: Iliac Hyperplasia				
LESION RATES				
OVERALL (a)	1/11 (9%)	2/7 (29%)	4/7 (57%)	1/8 (13%)
POLY-3 RATE (b)	1/9.62	2/6.89	4/7.00	1/6.36
POLY-3 PERCENT (g)	10.4%	29%	57.1%	15.7%
TERMINAL (d)	0/7 (0%)	2/6 (33%)	1/4 (25%)	0/4 (0%)
FIRST INCIDENCE	603	729 (T)	555	626
STATISTICAL TESTS				
POLY 3	P=0.637	P=0.376	P=0.048*	P=0.667
POLY 1.5	P=0.608N	P=0.361	P=0.041*	P=0.677
POLY 6	P=0.587	P=0.392	P=0.058	P=0.654
COCH-ARM / FISHERS	P=0.557N	P=0.326	P=0.047*	P=0.678
MAX-ISO-POLY-3	P=0.238	P=0.183	P=0.015*	P=0.393

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lymph Node: Lumbar Hyperplasia				
LESION RATES				
OVERALL (a)	7/11 (64%)	5/7 (71%)	3/7 (43%)	4/8 (50%)
POLY-3 RATE (b)	7/9.39	5/7.00	3/6.00	4/6.88
POLY-3 PERCENT (g)	74.5%	71.4%	50%	58.1%
TERMINAL (d)	6/7 (86%)	4/6 (67%)	3/4 (75%)	2/4 (50%)
FIRST INCIDENCE	675	702	729 (T)	568
STATISTICAL TESTS				
POLY 3	P=0.362N	P=0.665N	P=0.323N	P=0.433N
POLY 1.5	P=0.351N	P=0.684	P=0.330N	P=0.442N
POLY 6	P=0.377N	P=0.581N	P=0.338N	P=0.419N
COCH-ARM / FISHERS	P=0.335N	P=0.572	P=0.352N	P=0.449N
MAX-ISO-POLY-3	P=0.354N	P=0.444N	P=0.174N	P=0.251N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lymph Node: Renal Hyperplasia				
LESION RATES				
OVERALL (a)	2/11 (18%)	0/7 (0%)	0/7 (0%)	2/8 (25%)
POLY-3 RATE (b)	2/9.19	0/6.89	0/6.00	2/6.36
POLY-3 PERCENT (g)	21.8%	0%	0%	31.5%
TERMINAL (d)	2/7 (29%)	0/6 (0%)	0/4 (0%)	1/4 (25%)
FIRST INCIDENCE	729 (T)	---	---	626
STATISTICAL TESTS				
POLY 3	P=0.277	P=0.291N	P=0.327N	P=0.561
POLY 1.5	P=0.296	P=0.309N	P=0.329N	P=0.569
POLY 6	P=0.256	P=0.270N	P=0.328N	P=0.553
COCH-ARM / FISHERS	P=0.323	P=0.359N	P=0.359N	P=0.574
MAX-ISO-POLY-3	P=0.216	P=0.100N	P=0.132N	P=0.352

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland Hyperplasia				
LESION RATES				
OVERALL (a)	1/4 (25%)	0/5 (0%)	0/1 (0%)	0/2 (0%)
POLY-3 RATE (b)	1/4.00	0/4.26	0/1.00	0/1.63
POLY-3 PERCENT (g)	25%	0%	0%	0%
TERMINAL (d)	1/4 (25%)	0/2 (0%)	0/1 (0%)	0/1 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland: Duct Cyst				
LESION RATES				
OVERALL (a)	0/4 (0%)	0/5 (0%)	0/1 (0%)	0/2 (0%)
POLY-3 RATE (b)	0/4.00	0/4.26	0/1.00	0/1.63
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/4 (0%)	0/2 (0%)	0/1 (0%)	0/1 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mesentery: Fat Necrosis				
LESION RATES				
OVERALL (a)	2/2 (100%)	2/2 (100%)	2/3 (67%)	4/5 (80%)
POLY-3 RATE (b)	2/2.00	2/2.00	2/2.67	4/5.00
POLY-3 PERCENT (g)	100%	100%	74.8%	80%
TERMINAL (d)	1/1 (100%)	1/1 (100%)	1/1 (100%)	2/3 (67%)
FIRST INCIDENCE	675	684	646	568
STATISTICAL TESTS				
POLY 3	P=0.489N	(e)	P=0.715N	P=0.673N
POLY 1.5	P=0.513N	(e)	P=0.642N	P=0.673N
POLY 6	P=0.451N	(e)	P=0.869N	P=0.673N
COCH-ARM / FISHERS	P=0.544N	(e)	P=0.600N	P=0.714N
MAX-ISO-POLY-3	P=0.454N	(e)	P=0.230N	P=0.308N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose Inflammation				
LESION RATES				
OVERALL (a)	7/50 (14%)	46/50 (92%)	47/50 (94%)	46/50 (92%)
POLY-3 RATE (b)	7/45.01	46/50.00	47/49.90	46/49.12
POLY-3 PERCENT (g)	15.6%	92%	94.2%	93.7%
TERMINAL (d)	4/36 (11%)	35/39 (90%)	31/33 (94%)	32/34 (94%)
FIRST INCIDENCE	674	323	222	367
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose: Goblet Cell Hyperplasia				
LESION RATES				
OVERALL (a)	5/50 (10%)	36/50 (72%)	37/50 (74%)	42/50 (84%)
POLY-3 RATE (b)	5/44.78	36/49.73	37/46.85	42/47.19
POLY-3 PERCENT (g)	11.2%	72.4%	79%	89%
TERMINAL (d)	4/36 (11%)	27/39 (69%)	27/33 (82%)	30/34 (88%)
FIRST INCIDENCE	716	323	222	459
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose: Olfactory Epithelium Accumulation, Hyaline Droplet				
LESION RATES				
OVERALL (a)	20/50 (40%)	50/50 (100%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	20/48.29	50/50.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	41.4%	100%	100%	100%
TERMINAL (d)	11/36 (31%)	39/39 (100%)	33/33 (100%)	34/34 (100%)
FIRST INCIDENCE	421	323	222	367
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose: Olfactory Epithelium Metaplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/44.72	1/47.08	0/41.94	1/41.60
POLY-3 PERCENT (g)	0%	2.1%	0%	2.4%
TERMINAL (d)	0/36 (0%)	1/39 (3%)	0/33 (0%)	1/34 (3%)
FIRST INCIDENCE	---	729 (T)	---	729 (T)
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose: Olfactory Epithelium, Glands Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	43/50 (86%)	41/50 (82%)	49/50 (98%)
POLY-3 RATE (b)	0/44.72	43/49.90	41/48.56	49/49.25
POLY-3 PERCENT (g)	0%	86.2%	84.4%	99.5%
TERMINAL (d)	0/36 (0%)	33/39 (85%)	28/33 (85%)	34/34 (100%)
FIRST INCIDENCE	---	323	222	367
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose: Respiratory Epithelium Accumulation, Hyaline Droplet				
LESION RATES				
OVERALL (a)	10/50 (20%)	50/50 (100%)	48/50 (96%)	50/50 (100%)
POLY-3 RATE (b)	10/45.75	50/50.00	48/49.90	50/50.00
POLY-3 PERCENT (g)	21.9%	100%	96.2%	100%
TERMINAL (d)	7/36 (19%)	39/39 (100%)	32/33 (97%)	34/34 (100%)
FIRST INCIDENCE	535	323	222	367
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose: Respiratory Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	7/50 (14%)	7/50 (14%)	19/50 (38%)
POLY-3 RATE (b)	2/44.78	7/47.19	7/42.34	19/44.17
POLY-3 PERCENT (g)	4.5%	14.8%	16.5%	43%
TERMINAL (d)	1/36 (3%)	6/39 (15%)	5/33 (15%)	14/34 (41%)
FIRST INCIDENCE	716	702	646	367
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.092	P=0.065	P<0.001**
POLY 1.5	P<0.001**	P=0.086	P=0.068	P<0.001**
POLY 6	P<0.001**	P=0.099	P=0.064	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.080	P=0.080	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.050*	P=0.034*	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose: Transitional Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	7/50 (14%)	7/50 (14%)	8/50 (16%)	13/50 (26%)
POLY-3 RATE (b)	7/44.99	7/47.24	8/41.94	13/41.60
POLY-3 PERCENT (g)	15.6%	14.8%	19.1%	31.3%
TERMINAL (d)	5/36 (14%)	5/39 (13%)	8/33 (24%)	13/34 (38%)
FIRST INCIDENCE	674	702	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.025*	P=0.575N	P=0.441	P=0.067
POLY 1.5	P=0.032*	P=0.592N	P=0.456	P=0.080
POLY 6	P=0.019*	P=0.555N	P=0.427	P=0.057
COCH-ARM / FISHERS	P=0.048*	P=0.613N	P=0.500	P=0.105
MAX-ISO-POLY-3	P=0.039*	P=0.461N	P=0.337	P=0.045*

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose: Transitional Epithelium Metaplasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	2/50 (4%)	3/50 (6%)	6/50 (12%)
POLY-3 RATE (b)	2/44.72	2/47.08	3/41.94	6/41.60
POLY-3 PERCENT (g)	4.5%	4.3%	7.2%	14.4%
TERMINAL (d)	2/36 (6%)	2/39 (5%)	3/33 (9%)	6/34 (18%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.038*	P=0.675N	P=0.471	P=0.110
POLY 1.5	P=0.043*	P=0.683N	P=0.477	P=0.118
POLY 6	P=0.034*	P=0.665N	P=0.466	P=0.103
COCH-ARM / FISHERS	P=0.053	P=0.691N	P=0.500	P=0.134
MAX-ISO-POLY-3	P=0.061	P=0.478N	P=0.303	P=0.061

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pancreas: Acinus Atrophy				
LESION RATES				
OVERALL (a)	7/50 (14%)	2/50 (4%)	9/50 (18%)	2/50 (4%)
POLY-3 RATE (b)	7/45.76	2/47.08	9/42.07	2/41.60
POLY-3 PERCENT (g)	15.3%	4.3%	21.4%	4.8%
TERMINAL (d)	5/36 (14%)	2/39 (5%)	8/33 (24%)	2/34 (6%)
FIRST INCIDENCE	535	729 (T)	694	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.207N	P=0.072N	P=0.322	P=0.103N
POLY 1.5	P=0.182N	P=0.076N	P=0.341	P=0.094N
POLY 6	P=0.234N	P=0.068N	P=0.305	P=0.113N
COCH-ARM / FISHERS	P=0.149N	P=0.080N	P=0.393	P=0.080N
MAX-ISO-POLY-3	P=0.110N	P=0.037N*	P=0.240	P=0.061N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Parathyroid Gland Fibrosis				
LESION RATES				
OVERALL (a)	1/39 (3%)	0/44 (0%)	0/46 (0%)	0/49 (0%)
POLY-3 RATE (b)	1/33.94	0/41.35	0/38.86	0/40.60
POLY-3 PERCENT (g)	3%	0%	0%	0%
TERMINAL (d)	1/28 (4%)	0/35 (0%)	0/31 (0%)	0/33 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Peripheral Nerve: Axon Degeneration				
LESION RATES				
OVERALL (a)	0/4 (0%)	0/2 (0%)	2/8 (25%)	0/2 (0%)
POLY-3 RATE (b)	0/2.45	0/1.80	2/5.05	0/0.80
POLY-3 PERCENT (g)	0%	0%	39.6%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	646	---
STATISTICAL TESTS				
POLY 3	P=0.547	(e)	P=0.392	(e)
POLY 1.5	P=0.684	(e)	P=0.391	(e)
POLY 6	P=0.304	(e)	P=0.409	(e)
COCH-ARM / FISHERS	P=0.789	(e)	P=0.424	(e)
MAX-ISO-POLY-3	P=0.532	(e)	P=0.158	(e)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pituitary Gland Cyst				
LESION RATES				
OVERALL (a)	2/50 (4%)	2/50 (4%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	2/45.33	2/47.08	4/41.94	1/41.60
POLY-3 PERCENT (g)	4.4%	4.3%	9.5%	2.4%
TERMINAL (d)	1/36 (3%)	2/39 (5%)	4/33 (12%)	1/34 (3%)
FIRST INCIDENCE	535	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.421N	P=0.680N	P=0.302	P=0.530N
POLY 1.5	P=0.400N	P=0.686N	P=0.311	P=0.519N
POLY 6	P=0.442N	P=0.673N	P=0.294	P=0.539N
COCH-ARM / FISHERS	P=0.366N	P=0.691N	P=0.339	P=0.500N
MAX-ISO-POLY-3	P=0.386N	P=0.484N	P=0.182	P=0.313N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pituitary Gland: Pars Distalis Hyperplasia				
LESION RATES				
OVERALL (a)	12/50 (24%)	15/50 (30%)	8/50 (16%)	11/50 (22%)
POLY-3 RATE (b)	12/44.72	15/47.61	8/42.17	11/41.73
POLY-3 PERCENT (g)	26.8%	31.5%	19%	26.4%
TERMINAL (d)	12/36 (33%)	13/39 (33%)	6/33 (18%)	10/34 (29%)
FIRST INCIDENCE	729 (T)	589	694	695
STATISTICAL TESTS				
POLY 3	P=0.449N	P=0.396	P=0.269N	P=0.577N
POLY 1.5	P=0.411N	P=0.364	P=0.261N	P=0.550N
POLY 6	P=0.485N	P=0.436	P=0.272N	P=0.597N
COCH-ARM / FISHERS	P=0.353N	P=0.326	P=0.227N	P=0.500N
MAX-ISO-POLY-3	P=0.406N	P=0.316	P=0.199N	P=0.480N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pituitary Gland: Pars Intermedia Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	0/47.08	3/42.24	0/41.60
POLY-3 PERCENT (g)	0%	0%	7.1%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	2/33 (6%)	0/34 (0%)
FIRST INCIDENCE	---	---	646	---
STATISTICAL TESTS				
POLY 3	P=0.668N	(e)	P=0.109	(e)
POLY 1.5	P=0.652N	(e)	P=0.111	(e)
POLY 6	P=0.682N	(e)	P=0.107	(e)
COCH-ARM / FISHERS	P=0.623N	(e)	P=0.121	(e)
MAX-ISO-POLY-3	P=0.173	(e)	P=0.038*	(e)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Preputial Gland Inflammation				
LESION RATES				
OVERALL (a)	17/49 (35%)	13/50 (26%)	11/50 (22%)	16/50 (32%)
POLY-3 RATE (b)	17/45.88	13/47.83	11/43.58	16/42.70
POLY-3 PERCENT (g)	37.1%	27.2%	25.2%	37.5%
TERMINAL (d)	11/36 (31%)	10/39 (26%)	8/33 (24%)	14/34 (41%)
FIRST INCIDENCE	529	571	268	535
STATISTICAL TESTS				
POLY 3	P=0.337	P=0.211N	P=0.163N	P=0.571
POLY 1.5	P=0.388	P=0.221N	P=0.148N	P=0.553N
POLY 6	P=0.288	P=0.203N	P=0.183N	P=0.519
COCH-ARM / FISHERS	P=0.470	P=0.235N	P=0.119N	P=0.472N
MAX-ISO-POLY-3	P=0.374	P=0.157N	P=0.120N	P=0.483

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Prostate Inflammation				
LESION RATES				
OVERALL (a)	17/50 (34%)	12/50 (24%)	10/50 (20%)	10/50 (20%)
POLY-3 RATE (b)	17/45.83	12/47.73	10/44.22	10/43.44
POLY-3 PERCENT (g)	37.1%	25.1%	22.6%	23%
TERMINAL (d)	13/36 (36%)	7/39 (18%)	4/33 (12%)	7/34 (21%)
FIRST INCIDENCE	529	684	452	367
STATISTICAL TESTS				
POLY 3	P=0.183N	P=0.151N	P=0.100N	P=0.109N
POLY 1.5	P=0.162N	P=0.168N	P=0.101N	P=0.100N
POLY 6	P=0.208N	P=0.132N	P=0.096N	P=0.119N
COCH-ARM / FISHERS	P=0.136N	P=0.189N	P=0.088N	P=0.088N
MAX-ISO-POLY-3	P=0.113N	P=0.109N	P=0.068N	P=0.077N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Seminal Vesicle Inflammation				
LESION RATES				
OVERALL (a)	4/50 (8%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	4/45.18	0/47.08	1/41.94	0/41.60
POLY-3 PERCENT (g)	8.9%	0%	2.4%	0%
TERMINAL (d)	2/36 (6%)	0/39 (0%)	1/33 (3%)	0/34 (0%)
FIRST INCIDENCE	662	---	729 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.113N	P=0.055N	P=0.202N	P=0.071N
POLY 1.5	P=0.107N	P=0.058N	P=0.196N	P=0.067N
POLY 6	P=0.119N	P=0.053N	P=0.208N	P=0.076N
COCH-ARM / FISHERS	P=0.101N	P=0.059N	P=0.181N	P=0.059N
MAX-ISO-POLY-3	P=0.013N*	P=0.019N*	P=0.105N	P=0.028N*

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Cyst Epithelial Inclusion				
LESION RATES				
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/44.72	2/47.08	1/41.94	1/41.60
POLY-3 PERCENT (g)	4.5%	4.3%	2.4%	2.4%
TERMINAL (d)	2/36 (6%)	2/39 (5%)	1/33 (3%)	1/34 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.421N	P=0.675N	P=0.522N	P=0.525N
POLY 1.5	P=0.410N	P=0.683N	P=0.517N	P=0.516N
POLY 6	P=0.432N	P=0.665N	P=0.526N	P=0.532N
COCH-ARM / FISHERS	P=0.393N	P=0.691N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.491N	P=0.478N	P=0.305N	P=0.308N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin Inflammation				
LESION RATES				
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	4/50 (8%)
POLY-3 RATE (b)	2/44.93	1/47.08	0/41.94	4/43.44
POLY-3 PERCENT (g)	4.5%	2.1%	0%	9.2%
TERMINAL (d)	1/36 (3%)	1/39 (3%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	675	729 (T)	---	459
STATISTICAL TESTS				
POLY 3	P=0.092	P=0.484N	P=0.253N	P=0.321
POLY 1.5	P=0.095	P=0.491N	P=0.249N	P=0.326
POLY 6	P=0.089	P=0.476N	P=0.256N	P=0.320
COCH-ARM / FISHERS	P=0.101	P=0.500N	P=0.247N	P=0.339
MAX-ISO-POLY-3	P=0.078	P=0.271N	P=0.091N	P=0.192

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Ulcer				
LESION RATES				
OVERALL (a)	16/50 (32%)	14/50 (28%)	13/50 (26%)	13/50 (26%)
POLY-3 RATE (b)	16/47.57	14/47.62	13/43.89	13/43.87
POLY-3 PERCENT (g)	33.6%	29.4%	29.6%	29.6%
TERMINAL (d)	8/36 (22%)	10/39 (26%)	7/33 (21%)	8/34 (24%)
FIRST INCIDENCE	535	673	554	535
STATISTICAL TESTS				
POLY 3	P=0.453N	P=0.412N	P=0.426N	P=0.426N
POLY 1.5	P=0.414N	P=0.414N	P=0.400N	P=0.391N
POLY 6	P=0.487N	P=0.412N	P=0.450N	P=0.459N
COCH-ARM / FISHERS	P=0.350N	P=0.414N	P=0.330N	P=0.330N
MAX-ISO-POLY-3	P=0.542N	P=0.329N	P=0.346N	P=0.346N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Spleen				
Hematopoietic Cell Proliferation				
LESION RATES				
OVERALL (a)	7/50 (14%)	9/50 (18%)	8/50 (16%)	8/50 (16%)
POLY-3 RATE (b)	7/46.73	9/48.68	8/43.81	8/43.85
POLY-3 PERCENT (g)	15%	18.5%	18.3%	18.3%
TERMINAL (d)	3/36 (8%)	6/39 (15%)	3/33 (9%)	4/34 (12%)
FIRST INCIDENCE	535	323	551	459
STATISTICAL TESTS				
POLY 3	P=0.470	P=0.427	P=0.446	P=0.447
POLY 1.5	P=0.499	P=0.415	P=0.457	P=0.465
POLY 6	P=0.446	P=0.440	P=0.440	P=0.431
COCH-ARM / FISHERS	P=0.549	P=0.393	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.544	P=0.327	P=0.342	P=0.343

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Spleen: Lymphoid Follicle Atrophy				
LESION RATES				
OVERALL (a)	3/50 (6%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	3/45.62	0/47.08	2/42.54	0/41.60
POLY-3 PERCENT (g)	6.6%	0%	4.7%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	529	---	626	---
STATISTICAL TESTS				
POLY 3	P=0.205N	P=0.113N	P=0.532N	P=0.136N
POLY 1.5	P=0.193N	P=0.116N	P=0.524N	P=0.130N
POLY 6	P=0.216N	P=0.110N	P=0.537N	P=0.142N
COCH-ARM / FISHERS	P=0.178N	P=0.121N	P=0.500N	P=0.121N
MAX-ISO-POLY-3	P=0.063N	P=0.038N*	P=0.357N	P=0.053N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Stomach, Forestomach Inflammation				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.97	0/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	662	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Stomach, Forestomach: Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.72	0/47.08	0/41.94	0/41.60
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/39 (0%)	0/33 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Testes				
Edema				
LESION RATES				
OVERALL (a)	3/50 (6%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	3/44.72	2/47.19	1/41.94	2/41.60
POLY-3 PERCENT (g)	6.7%	4.2%	2.4%	4.8%
TERMINAL (d)	3/36 (8%)	1/39 (3%)	1/33 (3%)	2/34 (6%)
FIRST INCIDENCE	729 (T)	702	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.550N	P=0.476N	P=0.328N	P=0.533N
POLY 1.5	P=0.536N	P=0.487N	P=0.323N	P=0.521N
POLY 6	P=0.563N	P=0.462N	P=0.332N	P=0.542N
COCH-ARM / FISHERS	P=0.516N	P=0.500N	P=0.309N	P=0.500N
MAX-ISO-POLY-3	P=0.412N	P=0.307N	P=0.178N	P=0.358N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Testes: Artery				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/44.72	0/47.08	0/41.94	1/41.60
POLY-3 PERCENT (g)	6.7%	0%	0%	2.4%
TERMINAL (d)	3/36 (8%)	0/39 (0%)	0/33 (0%)	1/34 (3%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.493N	P=0.110N	P=0.130N	P=0.331N
POLY 1.5	P=0.484N	P=0.114N	P=0.128N	P=0.322N
POLY 6	P=0.503N	P=0.105N	P=0.132N	P=0.339N
COCH-ARM / FISHERS	P=0.472N	P=0.121N	P=0.121N	P=0.309N
MAX-ISO-POLY-3	P=0.061N	P=0.038N*	P=0.048N*	P=0.181N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Testes: Germinal Epithelium Atrophy				
LESION RATES				
OVERALL (a)	3/50 (6%)	8/50 (16%)	0/50 (0%)	6/50 (12%)
POLY-3 RATE (b)	3/44.78	8/47.18	0/41.94	6/43.96
POLY-3 PERCENT (g)	6.7%	17%	0%	13.7%
TERMINAL (d)	2/36 (6%)	7/39 (18%)	0/33 (0%)	2/34 (6%)
FIRST INCIDENCE	716	705	---	459
STATISTICAL TESTS				
POLY 3	P=0.369	P=0.115	P=0.131N	P=0.232
POLY 1.5	P=0.372	P=0.108	P=0.128N	P=0.235
POLY 6	P=0.369	P=0.125	P=0.133N	P=0.233
COCH-ARM / FISHERS	P=0.380	P=0.100	P=0.121N	P=0.243
MAX-ISO-POLY-3	P=0.214	P=0.069	P=0.048N*	P=0.141

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Testes: Interstitial Cell Hyperplasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/44.72	0/47.08	0/41.94	1/41.60
POLY-3 PERCENT (g)	4.5%	0%	0%	2.4%
TERMINAL (d)	2/36 (6%)	0/39 (0%)	0/33 (0%)	1/34 (3%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.685N	P=0.226N	P=0.252N	P=0.525N
POLY 1.5	P=0.679N	P=0.231N	P=0.248N	P=0.516N
POLY 6	P=0.691	P=0.220N	P=0.254N	P=0.532N
COCH-ARM / FISHERS	P=0.670N	P=0.247N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.165N	P=0.076N	P=0.090N	P=0.308N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thymus Atrophy				
LESION RATES				
OVERALL (a)	35/48 (73%)	36/49 (73%)	26/50 (52%)	26/50 (52%)
POLY-3 RATE (b)	35/45.73	36/47.70	26/46.01	26/49.42
POLY-3 PERCENT (g)	76.5%	75.5%	56.5%	52.6%
TERMINAL (d)	25/34 (74%)	31/39 (80%)	16/33 (49%)	12/34 (35%)
FIRST INCIDENCE	529	673	270	367
STATISTICAL TESTS				
POLY 3	P=0.004N**	P=0.549N	P=0.031N*	P=0.011N*
POLY 1.5	P=0.006N**	P=0.569N	P=0.031N*	P=0.015N*
POLY 6	P=0.003N**	P=0.544N	P=0.030N*	P=0.008N**
COCH-ARM / FISHERS	P=0.013N*	P=0.566	P=0.027N*	P=0.027N*
MAX-ISO-POLY-3	P=0.007N**	P=0.450N	P=0.019N*	P=0.007N**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thymus Cyst				
LESION RATES				
OVERALL (a)	0/48 (0%)	0/49 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/42.72	0/46.99	1/41.94	0/41.60
POLY-3 PERCENT (g)	0%	0%	2.4%	0%
TERMINAL (d)	0/34 (0%)	0/39 (0%)	1/33 (3%)	0/34 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thyroid Gland: C-Cell Hyperplasia				
LESION RATES				
OVERALL (a)	36/50 (72%)	39/50 (78%)	34/50 (68%)	40/50 (80%)
POLY-3 RATE (b)	36/47.54	39/48.13	34/47.35	40/49.14
POLY-3 PERCENT (g)	75.7%	81%	71.8%	81.4%
TERMINAL (d)	27/36 (75%)	34/39 (87%)	22/33 (67%)	26/34 (77%)
FIRST INCIDENCE	529	571	222	367
STATISTICAL TESTS				
POLY 3	P=0.345	P=0.347	P=0.419N	P=0.330
POLY 1.5	P=0.312	P=0.331	P=0.440N	P=0.294
POLY 6	P=0.379	P=0.367	P=0.379N	P=0.372
COCH-ARM / FISHERS	P=0.256	P=0.322	P=0.414N	P=0.241
MAX-ISO-POLY-3	P=0.406	P=0.260	P=0.330N	P=0.247

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thyroid Gland: Follicle Hyperplasia				
LESION RATES				
OVERALL (a)	4/50 (8%)	7/50 (14%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	4/45.33	7/47.08	4/41.94	1/41.60
POLY-3 PERCENT (g)	8.8%	14.9%	9.5%	2.4%
TERMINAL (d)	3/36 (8%)	7/39 (18%)	4/33 (12%)	1/34 (3%)
FIRST INCIDENCE	535	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS				
POLY 3	P=0.076N	P=0.283	P=0.600	P=0.206N
POLY 1.5	P=0.068N	P=0.273	P=0.611	P=0.196N
POLY 6	P=0.084N	P=0.295	P=0.590	P=0.214N
COCH-ARM / FISHERS	P=0.058N	P=0.262	P=0.643N	P=0.181N
MAX-ISO-POLY-3	P=0.114N	P=0.190	P=0.455	P=0.109N

Experiment Number: 20523 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (Trim VX)
CAS Number: TRIMVX

Date Report Requested: 10/29/2014
Time Report Requested: 10:15:41
First Dose M/F: 07/20/09 / 07/20/09
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex				
Angiectasis				
LESION RATES				
OVERALL (a)	28/50 (56%)	25/50 (50%)	28/50 (56%)	27/50 (54%)
POLY-3 RATE (b)	28/44.38	25/43.68	28/46.33	27/46.80
POLY-3 PERCENT (g)	63.1%	57.2%	60.4%	57.7%
TERMINAL (d)	21/30 (70%)	21/33 (64%)	21/33 (64%)	17/30 (57%)
FIRST INCIDENCE	534	590	516	532
STATISTICAL TESTS				
POLY 3	P=0.416N	P=0.361N	P=0.481N	P=0.374N
POLY 1.5	P=0.467N	P=0.376N	P=0.518N	P=0.426N
POLY 6	P=0.362N	P=0.327N	P=0.443N	P=0.312N
COCH-ARM / FISHERS	P=0.534	P=0.344N	P=0.580N	P=0.500N
MAX-ISO-POLY-3	P=0.479N	P=0.283N	P=0.393N	P=0.299N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex Hematopoietic Cell Proliferation				
LESION RATES				
OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/43.60	0/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	6.9%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	352	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.139N	P=0.124N	P=0.116N	P=0.117N
POLY 1.5	P=0.139N	P=0.124N	P=0.117N	P=0.118N
POLY 6	P=0.140N	P=0.122N	P=0.115N	P=0.116N
COCH-ARM / FISHERS	P=0.147N	P=0.121N	P=0.121N	P=0.121N
MAX-ISO-POLY-3	P=0.010N**	P=0.042N*	P=0.038N*	P=0.038N*

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex Hypertrophy				
LESION RATES				
OVERALL (a)	10/50 (20%)	5/50 (10%)	15/50 (30%)	10/50 (20%)
POLY-3 RATE (b)	10/44.48	5/42.51	15/45.46	10/44.63
POLY-3 PERCENT (g)	22.5%	11.8%	33%	22.4%
TERMINAL (d)	4/30 (13%)	4/33 (12%)	12/33 (36%)	7/30 (23%)
FIRST INCIDENCE	534	654	516	613
STATISTICAL TESTS				
POLY 3	P=0.407	P=0.148N	P=0.188	P=0.597N
POLY 1.5	P=0.404	P=0.145N	P=0.187	P=0.595N
POLY 6	P=0.402	P=0.150N	P=0.183	P=0.598
COCH-ARM / FISHERS	P=0.378	P=0.131N	P=0.178	P=0.598N
MAX-ISO-POLY-3	P=0.185	P=0.097N	P=0.133	P=0.496N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex Necrosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/41.92	0/42.23	2/44.39	1/44.05
POLY-3 PERCENT (g)	0%	0%	4.5%	2.3%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	1/33 (3%)	0/30 (0%)
FIRST INCIDENCE	---	---	677	705
STATISTICAL TESTS				
POLY 3	P=0.400	(e)	P=0.250	P=0.510
POLY 1.5	P=0.393	(e)	P=0.245	P=0.506
POLY 6	P=0.405	(e)	P=0.255	P=0.514
COCH-ARM / FISHERS	P=0.377	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.196	(e)	P=0.088	P=0.171

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Cortex				
Vacuolization Cytoplasmic				
LESION RATES				
OVERALL (a)	9/50 (18%)	8/50 (16%)	14/50 (28%)	11/50 (22%)
POLY-3 RATE (b)	9/44.32	8/43.68	14/45.21	11/44.94
POLY-3 PERCENT (g)	20.3%	18.3%	31%	24.5%
TERMINAL (d)	2/30 (7%)	4/33 (12%)	10/33 (30%)	8/30 (27%)
FIRST INCIDENCE	576	586	626	593
STATISTICAL TESTS				
POLY 3	P=0.353	P=0.513N	P=0.179	P=0.414
POLY 1.5	P=0.354	P=0.517N	P=0.178	P=0.412
POLY 6	P=0.339	P=0.504N	P=0.175	P=0.407
COCH-ARM / FISHERS	P=0.332	P=0.500N	P=0.171	P=0.402
MAX-ISO-POLY-3	P=0.285	P=0.405N	P=0.125	P=0.319

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Adrenal Medulla Hyperplasia				
LESION RATES				
OVERALL (a)	3/50 (6%)	1/50 (2%)	0/50 (0%)	1/49 (2%)
POLY-3 RATE (b)	3/42.09	1/42.23	0/44.19	1/43.23
POLY-3 PERCENT (g)	7.1%	2.4%	0%	2.3%
TERMINAL (d)	1/30 (3%)	1/33 (3%)	0/33 (0%)	0/29 (0%)
FIRST INCIDENCE	702	731 (T)	---	653
STATISTICAL TESTS				
POLY 3	P=0.362N	P=0.304N	P=0.110N	P=0.295N
POLY 1.5	P=0.362N	P=0.308N	P=0.113N	P=0.302N
POLY 6	P=0.363N	P=0.295N	P=0.107N	P=0.288N
COCH-ARM / FISHERS	P=0.367N	P=0.309N	P=0.121N	P=0.316N
MAX-ISO-POLY-3	P=0.085N	P=0.153N	P=0.038N*	P=0.151N

Experiment Number: 20523 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (Trim VX)
CAS Number: TRIMVX

Date Report Requested: 10/29/2014
Time Report Requested: 10:15:41
First Dose M/F: 07/20/09 / 07/20/09
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Brain Compression				
LESION RATES				
OVERALL (a)	17/50 (34%)	16/50 (32%)	21/50 (42%)	17/50 (34%)
POLY-3 RATE (b)	17/45.85	16/47.31	21/46.45	17/48.05
POLY-3 PERCENT (g)	37.1%	33.8%	45.2%	35.4%
TERMINAL (d)	7/30 (23%)	4/33 (12%)	14/33 (42%)	6/30 (20%)
FIRST INCIDENCE	534	346	516	436
STATISTICAL TESTS				
POLY 3	P=0.503N	P=0.455N	P=0.279	P=0.517N
POLY 1.5	P=0.516N	P=0.485N	P=0.279	P=0.540N
POLY 6	P=0.502N	P=0.415N	P=0.269	P=0.499N
COCH-ARM / FISHERS	P=0.542	P=0.500N	P=0.268	P=0.583N
MAX-ISO-POLY-3	P=0.510	P=0.372N	P=0.214	P=0.432N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Brain				
Hydrocephalus				
LESION RATES				
OVERALL (a)	6/50 (12%)	9/50 (18%)	4/50 (8%)	8/50 (16%)
POLY-3 RATE (b)	6/43.77	9/46.22	4/44.93	8/47.03
POLY-3 PERCENT (g)	13.7%	19.5%	8.9%	17%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	598	346	646	436
STATISTICAL TESTS				
POLY 3	P=0.487	P=0.327	P=0.353N	P=0.443
POLY 1.5	P=0.472	P=0.305	P=0.358N	P=0.422
POLY 6	P=0.497	P=0.355	P=0.352N	P=0.461
COCH-ARM / FISHERS	P=0.440	P=0.288	P=0.370N	P=0.387
MAX-ISO-POLY-3	P=0.510N	P=0.239	P=0.241N	P=0.337

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Clitoral Gland Cyst				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/48 (0%)	0/49 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/41.92	0/40.56	0/43.56	2/44.13
POLY-3 PERCENT (g)	0%	0%	0%	4.5%
TERMINAL (d)	0/30 (0%)	0/32 (0%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	---	---	---	684
STATISTICAL TESTS				
POLY 3	P=0.045*	(e)	(e)	P=0.249
POLY 1.5	P=0.045*	(e)	(e)	P=0.244
POLY 6	P=0.046*	(e)	(e)	P=0.254
COCH-ARM / FISHERS	P=0.044*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.045*	(e)	(e)	P=0.087

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Clitoral Gland Inflammation				
LESION RATES				
OVERALL (a)	11/50 (22%)	12/48 (25%)	13/49 (27%)	12/50 (24%)
POLY-3 RATE (b)	11/44.63	12/42.22	13/45.21	12/44.64
POLY-3 PERCENT (g)	24.7%	28.4%	28.8%	26.9%
TERMINAL (d)	5/30 (17%)	9/32 (28%)	8/33 (24%)	10/30 (33%)
FIRST INCIDENCE	352	492	516	532
STATISTICAL TESTS				
POLY 3	P=0.535	P=0.438	P=0.420	P=0.500
POLY 1.5	P=0.540	P=0.432	P=0.407	P=0.501
POLY 6	P=0.518	P=0.453	P=0.433	P=0.492
COCH-ARM / FISHERS	P=0.530	P=0.455	P=0.385	P=0.500
MAX-ISO-POLY-3	P=0.568	P=0.347	P=0.331	P=0.402

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Eye: Retina Atrophy				
LESION RATES				
OVERALL (a)	3/50 (6%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	3/41.92	2/42.23	1/44.19	2/43.95
POLY-3 PERCENT (g)	7.2%	4.7%	2.3%	4.6%
TERMINAL (d)	3/30 (10%)	2/33 (6%)	1/33 (3%)	2/30 (7%)
FIRST INCIDENCE	731 (T)	731 (T)	731 (T)	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.503N	P=0.497N	P=0.286N	P=0.478N
POLY 1.5	P=0.506N	P=0.503N	P=0.293N	P=0.487N
POLY 6	P=0.502N	P=0.484N	P=0.279N	P=0.469N
COCH-ARM / FISHERS	P=0.516N	P=0.500N	P=0.309N	P=0.500N
MAX-ISO-POLY-3	P=0.344N	P=0.321N	P=0.147N	P=0.308N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Harderian Gland Inflammation				
LESION RATES				
OVERALL (a)	1/50 (2%)	3/50 (6%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	1/41.92	3/42.23	3/44.66	2/44.02
POLY-3 PERCENT (g)	2.4%	7.1%	6.7%	4.5%
TERMINAL (d)	1/30 (3%)	3/33 (9%)	2/33 (6%)	1/30 (3%)
FIRST INCIDENCE	731 (T)	731 (T)	593	712
STATISTICAL TESTS				
POLY 3	P=0.614N	P=0.307	P=0.328	P=0.517
POLY 1.5	P=0.619	P=0.302	P=0.319	P=0.510
POLY 6	P=0.607N	P=0.317	P=0.337	P=0.525
COCH-ARM / FISHERS	P=0.602	P=0.309	P=0.309	P=0.500
MAX-ISO-POLY-3	P=0.367	P=0.156	P=0.177	P=0.299

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 10/29/2014

Time Report Requested: 10:15:41

First Dose M/F: 07/20/09 / 07/20/09

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Heart				
Cardiomyopathy				
LESION RATES				
OVERALL (a)	7/50 (14%)	7/50 (14%)	8/50 (16%)	1/50 (2%)
POLY-3 RATE (b)	7/41.98	7/42.54	8/44.65	1/44.05
POLY-3 PERCENT (g)	16.7%	16.5%	17.9%	2.3%
TERMINAL (d)	6/30 (20%)	5/33 (15%)	6/33 (18%)	0/30 (0%)
FIRST INCIDENCE	716	654	626	705
STATISTICAL TESTS				
POLY 3	P=0.015N*	P=0.604N	P=0.552	P=0.024N*
POLY 1.5	P=0.016N*	P=0.611	P=0.532	P=0.027N*
POLY 6	P=0.014N*	P=0.580N	P=0.575	P=0.022N*
COCH-ARM / FISHERS	P=0.021N*	P=0.613N	P=0.500	P=0.030N*
MAX-ISO-POLY-3	P=0.024N*	P=0.488N	P=0.440	P=0.011N*

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Heart: Endocardium Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.92	0/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Kidney				
Hydronephrosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.92	2/42.30	0/44.19	1/44.05
POLY-3 PERCENT (g)	0%	4.7%	0%	2.3%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	713	---	705
STATISTICAL TESTS				
POLY 3	P=0.633	P=0.239	(e)	P=0.510
POLY 1.5	P=0.627	P=0.236	(e)	P=0.506
POLY 6	P=0.640	P=0.245	(e)	P=0.514
COCH-ARM / FISHERS	P=0.619	P=0.247	(e)	P=0.500
MAX-ISO-POLY-3	P=0.348	P=0.078	(e)	P=0.171

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Kidney Infarct				
LESION RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.92	2/42.48	0/44.19	0/43.95
POLY-3 PERCENT (g)	2.4%	4.7%	0%	0%
TERMINAL (d)	1/30 (3%)	1/33 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	731 (T)	663	---	---
STATISTICAL TESTS				
POLY 3	P=0.220N	P=0.505	P=0.489N	P=0.491N
POLY 1.5	P=0.222N	P=0.498	P=0.493N	P=0.494N
POLY 6	P=0.217N	P=0.516	P=0.486N	P=0.487N
COCH-ARM / FISHERS	P=0.224N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.178N	P=0.286	P=0.158N	P=0.158N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Kidney Nephropathy				
LESION RATES				
OVERALL (a)	4/50 (8%)	5/50 (10%)	5/50 (10%)	7/50 (14%)
POLY-3 RATE (b)	4/42.53	5/42.23	5/44.68	7/44.41
POLY-3 PERCENT (g)	9.4%	11.8%	11.2%	15.8%
TERMINAL (d)	3/30 (10%)	5/33 (15%)	2/33 (6%)	5/30 (17%)
FIRST INCIDENCE	534	731 (T)	677	626
STATISTICAL TESTS				
POLY 3	P=0.246	P=0.496	P=0.531	P=0.285
POLY 1.5	P=0.239	P=0.490	P=0.519	P=0.276
POLY 6	P=0.253	P=0.508	P=0.545	P=0.297
COCH-ARM / FISHERS	P=0.221	P=0.500	P=0.500	P=0.262
MAX-ISO-POLY-3	P=0.305	P=0.358	P=0.393	P=0.192

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Kidney: Pelvis Inflammation				
LESION RATES				
OVERALL (a)	28/50 (56%)	32/50 (64%)	41/50 (82%)	30/50 (60%)
POLY-3 RATE (b)	28/45.04	32/45.50	41/48.57	30/46.75
POLY-3 PERCENT (g)	62.2%	70.3%	84.4%	64.2%
TERMINAL (d)	19/30 (63%)	23/33 (70%)	29/33 (88%)	19/30 (63%)
FIRST INCIDENCE	534	492	516	532
STATISTICAL TESTS				
POLY 3	P=0.395N	P=0.267	P=0.009**	P=0.507
POLY 1.5	P=0.426N	P=0.243	P=0.006**	P=0.470
POLY 6	P=0.362N	P=0.319	P=0.014*	P=0.558
COCH-ARM / FISHERS	P=0.506N	P=0.270	P=0.004**	P=0.420
MAX-ISO-POLY-3	P=0.150	P=0.199	P=0.005**	P=0.418

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Kidney: Renal Tubule Cyst				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	0/41.92	1/42.23	1/44.19	3/43.95
POLY-3 PERCENT (g)	0%	2.4%	2.3%	6.8%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	1/33 (3%)	3/30 (10%)
FIRST INCIDENCE	---	731 (T)	731 (T)	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.071	P=0.501	P=0.511	P=0.127
POLY 1.5	P=0.069	P=0.499	P=0.507	P=0.124
POLY 6	P=0.072	P=0.507	P=0.514	P=0.130
COCH-ARM / FISHERS	P=0.066	P=0.500	P=0.500	P=0.121
MAX-ISO-POLY-3	P=0.053	P=0.160	P=0.172	P=0.045*

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Larynx				
Infiltration Cellular Mixed Cell				
LESION RATES				
OVERALL (a)	0/50 (0%)	9/50 (18%)	18/50 (36%)	22/50 (44%)
POLY-3 RATE (b)	0/41.92	9/43.76	18/46.02	22/46.23
POLY-3 PERCENT (g)	0%	20.6%	39.1%	47.6%
TERMINAL (d)	0/30 (0%)	6/33 (18%)	12/33 (36%)	14/30 (47%)
FIRST INCIDENCE	---	104	613	532
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.002**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.002**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.002**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Larynx				
Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.92	2/42.23	0/44.19	1/43.95
POLY-3 PERCENT (g)	0%	4.7%	0%	2.3%
TERMINAL (d)	0/30 (0%)	2/33 (6%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	---	731 (T)	---	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.632	P=0.238	(e)	P=0.509
POLY 1.5	P=0.626	P=0.235	(e)	P=0.506
POLY 6	P=0.639	P=0.244	(e)	P=0.513
COCH-ARM / FISHERS	P=0.619	P=0.247	(e)	P=0.500
MAX-ISO-POLY-3	P=0.347	P=0.077	(e)	P=0.170

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Larynx: Epiglottis Hyperplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	24/50 (48%)	41/50 (82%)	50/50 (100%)
POLY-3 RATE (b)	1/41.98	24/43.62	41/49.19	50/50.00
POLY-3 PERCENT (g)	2.4%	55%	83.4%	100%
TERMINAL (d)	0/30 (0%)	20/33 (61%)	27/33 (82%)	30/30 (100%)
FIRST INCIDENCE	716	104	516	436
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Larynx: Epiglottis Metaplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	49/50 (98%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	0/41.92	49/49.39	50/50.00	50/50.00
POLY-3 PERCENT (g)	0%	99.2%	100%	100%
TERMINAL (d)	0/30 (0%)	33/33 (100%)	33/33 (100%)	30/30 (100%)
FIRST INCIDENCE	---	104	516	436
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Angiectasis				
LESION RATES				
OVERALL (a)	0/50 (0%)	4/50 (8%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.92	4/42.25	1/44.19	0/43.95
POLY-3 PERCENT (g)	0%	9.5%	2.3%	0%
TERMINAL (d)	0/30 (0%)	3/33 (9%)	1/33 (3%)	0/30 (0%)
FIRST INCIDENCE	---	725	731 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.190N	P=0.061	P=0.511	(e)
POLY 1.5	P=0.196N	P=0.059	P=0.507	(e)
POLY 6	P=0.183N	P=0.064	P=0.514	(e)
COCH-ARM / FISHERS	P=0.205N	P=0.059	P=0.500	(e)
MAX-ISO-POLY-3	P=0.158N	P=0.020*	P=0.172	(e)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Basophilic Focus				
LESION RATES				
OVERALL (a)	21/50 (42%)	30/50 (60%)	24/50 (48%)	25/50 (50%)
POLY-3 RATE (b)	21/43.73	30/43.09	24/45.32	25/45.37
POLY-3 PERCENT (g)	48%	69.6%	53%	55.1%
TERMINAL (d)	16/30 (53%)	26/33 (79%)	21/33 (64%)	17/30 (57%)
FIRST INCIDENCE	536	638	590	603
STATISTICAL TESTS				
POLY 3	P=0.485N	P=0.026*	P=0.398	P=0.320
POLY 1.5	P=0.516N	P=0.030*	P=0.379	P=0.300
POLY 6	P=0.446N	P=0.026*	P=0.414	P=0.351
COCH-ARM / FISHERS	P=0.524	P=0.055	P=0.344	P=0.274
MAX-ISO-POLY-3	P=0.229	P=0.016*	P=0.320	P=0.251

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Clear Cell Focus				
LESION RATES				
OVERALL (a)	6/50 (12%)	16/50 (32%)	4/50 (8%)	8/50 (16%)
POLY-3 RATE (b)	6/41.92	16/42.95	4/44.19	8/44.04
POLY-3 PERCENT (g)	14.3%	37.3%	9.1%	18.2%
TERMINAL (d)	6/30 (20%)	13/33 (39%)	4/33 (12%)	7/30 (23%)
FIRST INCIDENCE	731 (T)	603	731 (T)	708
STATISTICAL TESTS				
POLY 3	P=0.308N	P=0.013*	P=0.336N	P=0.424
POLY 1.5	P=0.323N	P=0.012*	P=0.349N	P=0.409
POLY 6	P=0.292N	P=0.016*	P=0.323N	P=0.442
COCH-ARM / FISHERS	P=0.351N	P=0.014*	P=0.370N	P=0.387
MAX-ISO-POLY-3	P=0.120N	P=0.007**	P=0.230N	P=0.319

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Eosinophilic Focus				
LESION RATES				
OVERALL (a)	2/50 (4%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	2/42.41	3/42.23	0/44.19	2/44.04
POLY-3 PERCENT (g)	4.7%	7.1%	0%	4.5%
TERMINAL (d)	1/30 (3%)	3/33 (9%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	585	731 (T)	---	708
STATISTICAL TESTS				
POLY 3	P=0.565N	P=0.498	P=0.228N	P=0.681N
POLY 1.5	P=0.567N	P=0.494	P=0.231N	P=0.685N
POLY 6	P=0.562N	P=0.507	P=0.225N	P=0.676N
COCH-ARM / FISHERS	P=0.573N	P=0.500	P=0.247N	P=0.691N
MAX-ISO-POLY-3	P=0.325N	P=0.322	P=0.076N	P=0.484N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Fatty Change				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	2/42.33	0/42.23	3/44.91	0/43.95
POLY-3 PERCENT (g)	4.7%	0%	6.7%	0%
TERMINAL (d)	1/30 (3%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	613	---	633	---
STATISTICAL TESTS				
POLY 3	P=0.269N	P=0.237N	P=0.527	P=0.229N
POLY 1.5	P=0.271N	P=0.240N	P=0.517	P=0.232N
POLY 6	P=0.269N	P=0.233N	P=0.539	P=0.226N
COCH-ARM / FISHERS	P=0.285N	P=0.247N	P=0.500	P=0.247N
MAX-ISO-POLY-3	P=0.160N	P=0.076N	P=0.351	P=0.076N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Hepatodiaphragmatic Nodule				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/41.92	0/42.23	1/44.56	1/44.02
POLY-3 PERCENT (g)	0%	0%	2.2%	2.3%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	626	712
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Inflammation Granulomatous				
LESION RATES				
OVERALL (a)	1/50 (2%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/41.92	3/42.23	0/44.19	2/44.32
POLY-3 PERCENT (g)	2.4%	7.1%	0%	4.5%
TERMINAL (d)	1/30 (3%)	3/33 (9%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	731 (T)	731 (T)	---	626
STATISTICAL TESTS				
POLY 3	P=0.584	P=0.307	P=0.489N	P=0.519
POLY 1.5	P=0.577	P=0.302	P=0.493N	P=0.512
POLY 6	P=0.592	P=0.317	P=0.486N	P=0.529
COCH-ARM / FISHERS	P=0.567	P=0.309	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.434N	P=0.156	P=0.158N	P=0.302

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver				
Mixed Cell Focus				
LESION RATES				
OVERALL (a)	3/50 (6%)	5/50 (10%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/42.03	5/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	7.1%	11.8%	0%	0%
TERMINAL (d)	2/30 (7%)	5/33 (15%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	702	731 (T)	---	---
STATISTICAL TESTS				
POLY 3	P=0.030N*	P=0.358	P=0.110N	P=0.110N
POLY 1.5	P=0.031N*	P=0.351	P=0.113N	P=0.114N
POLY 6	P=0.029N*	P=0.371	P=0.106N	P=0.107N
COCH-ARM / FISHERS	P=0.034N*	P=0.357	P=0.121N	P=0.121N
MAX-ISO-POLY-3	P=0.031N*	P=0.232	P=0.038N*	P=0.038N*

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver: Bile Duct Cyst				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/41.92	0/42.23	2/44.19	1/43.95
POLY-3 PERCENT (g)	0%	0%	4.5%	2.3%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	2/33 (6%)	1/30 (3%)
FIRST INCIDENCE	---	---	731 (T)	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.399	(e)	P=0.249	P=0.509
POLY 1.5	P=0.393	(e)	P=0.245	P=0.506
POLY 6	P=0.403	(e)	P=0.253	P=0.513
COCH-ARM / FISHERS	P=0.377	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.195	(e)	P=0.087	P=0.170

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver: Bile Duct Dilatation				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.92	1/42.23	1/44.56	0/43.95
POLY-3 PERCENT (g)	0%	2.4%	2.2%	0%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	731 (T)	626	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver: Bile Duct Hyperplasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	8/50 (16%)	6/50 (12%)	4/50 (8%)
POLY-3 RATE (b)	2/41.92	8/42.23	6/44.66	4/44.56
POLY-3 PERCENT (g)	4.8%	18.9%	13.4%	9%
TERMINAL (d)	2/30 (7%)	8/33 (24%)	4/33 (12%)	3/30 (10%)
FIRST INCIDENCE	731 (T)	731 (T)	646	532
STATISTICAL TESTS				
POLY 3	P=0.439N	P=0.045*	P=0.153	P=0.365
POLY 1.5	P=0.456N	P=0.043*	P=0.146	P=0.354
POLY 6	P=0.421N	P=0.048*	P=0.163	P=0.378
COCH-ARM / FISHERS	P=0.487N	P=0.046*	P=0.134	P=0.339
MAX-ISO-POLY-3	P=0.167	P=0.021*	P=0.088	P=0.229

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung Fibrosis				
LESION RATES				
OVERALL (a)	5/50 (10%)	35/50 (70%)	49/50 (98%)	50/50 (100%)
POLY-3 RATE (b)	5/42.72	35/45.36	49/49.35	50/50.00
POLY-3 PERCENT (g)	11.7%	77.2%	99.3%	100%
TERMINAL (d)	3/30 (10%)	26/33 (79%)	33/33 (100%)	30/30 (100%)
FIRST INCIDENCE	547	586	516	436
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung				
Infiltration Cellular Histiocyte				
LESION RATES				
OVERALL (a)	16/50 (32%)	48/50 (96%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	16/44.52	48/48.93	50/50.00	50/50.00
POLY-3 PERCENT (g)	35.9%	98.1%	100%	100%
TERMINAL (d)	9/30 (30%)	33/33 (100%)	33/33 (100%)	30/30 (100%)
FIRST INCIDENCE	547	346	516	436
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung Inflammation Chronic				
LESION RATES				
OVERALL (a)	6/50 (12%)	46/50 (92%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	6/42.78	46/48.91	50/50.00	50/50.00
POLY-3 PERCENT (g)	14%	94.1%	100%	100%
TERMINAL (d)	3/30 (10%)	32/33 (97%)	33/33 (100%)	30/30 (100%)
FIRST INCIDENCE	576	346	516	436
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung: Alveolar Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	8/50 (16%)	43/50 (86%)	49/50 (98%)	50/50 (100%)
POLY-3 RATE (b)	8/42.54	43/46.51	49/49.35	50/50.00
POLY-3 PERCENT (g)	18.8%	92.5%	99.3%	100%
TERMINAL (d)	6/30 (20%)	32/33 (97%)	33/33 (100%)	30/30 (100%)
FIRST INCIDENCE	615	492	516	436
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung: Alveolar Epithelium Metaplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	3/50 (6%)	9/50 (18%)	21/50 (42%)
POLY-3 RATE (b)	0/41.92	3/42.23	9/44.62	21/45.03
POLY-3 PERCENT (g)	0%	7.1%	20.2%	46.6%
TERMINAL (d)	0/30 (0%)	3/33 (9%)	8/33 (24%)	17/30 (57%)
FIRST INCIDENCE	---	731 (T)	604	603
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.119	P=0.002**	P<0.001**
POLY 1.5	P<0.001**	P=0.117	P=0.002**	P<0.001**
POLY 6	P<0.001**	P=0.124	P=0.002**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.121	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.039*	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung: Alveolar/Bronchiolar Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	9/50 (18%)	31/50 (62%)	50/50 (100%)
POLY-3 RATE (b)	2/42.52	9/43.14	31/46.33	50/50.00
POLY-3 PERCENT (g)	4.7%	20.9%	66.9%	100%
TERMINAL (d)	1/30 (3%)	7/33 (21%)	24/33 (73%)	30/30 (100%)
FIRST INCIDENCE	536	492	590	436
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.025*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.024*	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.028*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.026*	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.012*	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung: Alveolus Proteinosis				
LESION RATES				
OVERALL (a)	1/50 (2%)	15/50 (30%)	41/50 (82%)	48/50 (96%)
POLY-3 RATE (b)	1/42.31	15/43.60	41/48.69	48/49.66
POLY-3 PERCENT (g)	2.4%	34.4%	84.2%	96.7%
TERMINAL (d)	0/30 (0%)	11/33 (33%)	27/33 (82%)	30/30 (100%)
FIRST INCIDENCE	618	603	516	436
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lung: Bronchus-Associated Lymphoid Tissue Hyperplasia Lymphohistiocytic				
LESION RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	7/50 (14%)	10/50 (20%)
POLY-3 RATE (b)	0/41.92	2/42.23	7/44.50	10/44.81
POLY-3 PERCENT (g)	0%	4.7%	15.7%	22.3%
TERMINAL (d)	0/30 (0%)	2/33 (6%)	6/33 (18%)	6/30 (20%)
FIRST INCIDENCE	---	731 (T)	646	572
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.238	P=0.009**	P<0.001**
POLY 1.5	P<0.001**	P=0.235	P=0.009**	P<0.001**
POLY 6	P<0.001**	P=0.244	P=0.010**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.247	P=0.006**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.077	P=0.003**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lymph Node, Bronchial Hyperplasia Lymphohistiocytic				
LESION RATES				
OVERALL (a)	1/37 (3%)	18/37 (49%)	37/44 (84%)	31/36 (86%)
POLY-3 RATE (b)	1/30.60	18/31.85	37/42.70	31/35.22
POLY-3 PERCENT (g)	3.3%	56.5%	86.6%	88%
TERMINAL (d)	1/21 (5%)	16/23 (70%)	24/29 (83%)	17/20 (85%)
FIRST INCIDENCE	731 (T)	492	593	436
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lymph Node, Mediastinal Hyperplasia				
LESION RATES				
OVERALL (a)	5/46 (11%)	0/49 (0%)	1/46 (2%)	1/45 (2%)
POLY-3 RATE (b)	5/39.51	0/42.23	1/40.56	1/39.13
POLY-3 PERCENT (g)	12.7%	0%	2.5%	2.6%
TERMINAL (d)	2/27 (7%)	0/33 (0%)	0/30 (0%)	1/26 (4%)
FIRST INCIDENCE	536	---	689	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.223N	P=0.025N*	P=0.094N	P=0.102N
POLY 1.5	P=0.222N	P=0.025N*	P=0.096N	P=0.103N
POLY 6	P=0.226N	P=0.023N*	P=0.092N	P=0.101N
COCH-ARM / FISHERS	P=0.228N	P=0.024N*	P=0.102N	P=0.107N
MAX-ISO-POLY-3	P=0.012N*	P=0.008N**	P=0.042N*	P=0.044N*

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lymph Node, Mediastinal Hyperplasia Lymphohistiocytic				
LESION RATES				
OVERALL (a)	0/46 (0%)	11/49 (22%)	14/46 (30%)	28/45 (62%)
POLY-3 RATE (b)	0/38.01	11/42.84	14/42.23	28/42.40
POLY-3 PERCENT (g)	0%	25.7%	33.2%	66%
TERMINAL (d)	0/27 (0%)	10/33 (30%)	8/30 (27%)	18/26 (69%)
FIRST INCIDENCE	---	533	593	436
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (Trim VX)
CAS Number: TRIMVX

Date Report Requested: 10/29/2014
Time Report Requested: 10:15:41
First Dose M/F: 07/20/09 / 07/20/09
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<hr/>				
Lymph Node: Iliac Hyperplasia				
<hr/>				
LESION RATES				
OVERALL (a)	0/4 (0%)	0/1 (0%)	0/2 (0%)	0/1 (0%)
POLY-3 RATE (b)	0/2.19	0/1.00	0/1.36	0/0.92
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lymph Node: Lumbar Hyperplasia				
LESION RATES				
OVERALL (a)	3/4 (75%)	0/1 (0%)	0/2 (0%)	0/1 (0%)
POLY-3 RATE (b)	3/3.60	0/1.00	0/1.36	0/0.92
POLY-3 PERCENT (g)	83.4%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	536	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.232N	P=0.321N	P=0.202N	P=0.367N
POLY 1.5	P=0.231N	P=0.368N	P=0.176N	P=0.389N
POLY 6	P=0.237N	P=0.224N	P=0.284N	P=0.332N
COCH-ARM / FISHERS	P=0.254N	P=0.400N	P=0.200N	P=0.400N
MAX-ISO-POLY-3	P=0.106N	P=0.054N	P=0.044N*	P=0.069N

Experiment Number: 20523 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (Trim VX)
CAS Number: TRIMVX

Date Report Requested: 10/29/2014
Time Report Requested: 10:15:41
First Dose M/F: 07/20/09 / 07/20/09
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Lymph Node: Renal Hyperplasia				
LESION RATES				
OVERALL (a)	1/4 (25%)	0/1 (0%)	0/2 (0%)	0/1 (0%)
POLY-3 RATE (b)	1/2.80	0/1.00	0/1.36	0/0.92
POLY-3 PERCENT (g)	35.7%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	536	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland Hyperplasia				
LESION RATES				
OVERALL (a)	3/50 (6%)	0/50 (0%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	3/42.43	0/42.23	4/44.35	3/44.94
POLY-3 PERCENT (g)	7.1%	0%	9%	6.7%
TERMINAL (d)	2/30 (7%)	0/33 (0%)	3/33 (9%)	0/30 (0%)
FIRST INCIDENCE	576	---	689	593
STATISTICAL TESTS				
POLY 3	P=0.417	P=0.119N	P=0.524	P=0.636N
POLY 1.5	P=0.406	P=0.121N	P=0.515	P=0.646N
POLY 6	P=0.426	P=0.115N	P=0.533	P=0.623N
COCH-ARM / FISHERS	P=0.381	P=0.121N	P=0.500	P=0.661N
MAX-ISO-POLY-3	P=0.326	P=0.038N*	P=0.372	P=0.471N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mammary Gland: Duct Cyst				
LESION RATES				
OVERALL (a)	4/50 (8%)	7/50 (14%)	6/50 (12%)	2/50 (4%)
POLY-3 RATE (b)	4/43.35	7/44.70	6/46.30	2/43.97
POLY-3 PERCENT (g)	9.2%	15.7%	13%	4.6%
TERMINAL (d)	1/30 (3%)	2/33 (6%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	536	346	516	725
STATISTICAL TESTS				
POLY 3	P=0.130N	P=0.278	P=0.411	P=0.330N
POLY 1.5	P=0.129N	P=0.266	P=0.395	P=0.332N
POLY 6	P=0.134N	P=0.296	P=0.429	P=0.330N
COCH-ARM / FISHERS	P=0.133N	P=0.262	P=0.370	P=0.339N
MAX-ISO-POLY-3	P=0.184N	P=0.185	P=0.295	P=0.197N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Mesentery: Fat Necrosis				
LESION RATES				
OVERALL (a)	4/4 (100%)	4/5 (80%)	7/9 (78%)	4/4 (100%)
POLY-3 RATE (b)	4/4.00	4/4.52	7/8.36	4/4.00
POLY-3 PERCENT (g)	100%	88.6%	83.7%	100%
TERMINAL (d)	2/2 (100%)	3/3 (100%)	4/4 (100%)	2/2 (100%)
FIRST INCIDENCE	535	533	593	661
STATISTICAL TESTS				
POLY 3	P=0.688	P=0.826N	P=0.551N	(e)
POLY 1.5	P=0.616	P=0.676N	P=0.486N	(e)
POLY 6	P=0.816	P=0.995N	P=0.685N	(e)
COCH-ARM / FISHERS	P=0.550	P=0.556N	P=0.462N	(e)
MAX-ISO-POLY-3	P=0.420	P=0.190N	P=0.202N	(e)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose Inflammation				
LESION RATES				
OVERALL (a)	1/50 (2%)	46/50 (92%)	47/49 (96%)	48/50 (96%)
POLY-3 RATE (b)	1/41.92	46/47.62	47/48.84	48/49.82
POLY-3 PERCENT (g)	2.4%	96.6%	96.2%	96.4%
TERMINAL (d)	1/30 (3%)	32/33 (97%)	32/33 (97%)	29/30 (97%)
FIRST INCIDENCE	731 (T)	354	516	436
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose: Goblet Cell Hyperplasia				
LESION RATES				
OVERALL (a)	3/50 (6%)	36/50 (72%)	40/49 (82%)	47/50 (94%)
POLY-3 RATE (b)	3/42.05	36/45.28	40/48.15	47/49.82
POLY-3 PERCENT (g)	7.1%	79.5%	83.1%	94.3%
TERMINAL (d)	2/30 (7%)	27/33 (82%)	28/33 (85%)	29/30 (97%)
FIRST INCIDENCE	697	533	516	436
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose: Olfactory Epithelium Accumulation, Hyaline Droplet				
LESION RATES				
OVERALL (a)	14/50 (28%)	50/50 (100%)	49/49 (100%)	50/50 (100%)
POLY-3 RATE (b)	14/43.68	50/50.00	49/49.00	50/50.00
POLY-3 PERCENT (g)	32.1%	100%	100%	100%
TERMINAL (d)	9/30 (30%)	33/33 (100%)	33/33 (100%)	30/30 (100%)
FIRST INCIDENCE	547	104	516	436
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
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Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose: Olfactory Epithelium Metaplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/41.92	0/42.23	0/43.84	2/44.19
POLY-3 PERCENT (g)	0%	0%	0%	4.5%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	687
STATISTICAL TESTS				
POLY 3	P=0.044*	(e)	(e)	P=0.249
POLY 1.5	P=0.043*	(e)	(e)	P=0.244
POLY 6	P=0.044*	(e)	(e)	P=0.255
COCH-ARM / FISHERS	P=0.042*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.045*	(e)	(e)	P=0.087

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose: Olfactory Epithelium, Glands Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	32/50 (64%)	44/49 (90%)	46/50 (92%)
POLY-3 RATE (b)	0/41.92	32/46.27	44/48.19	46/49.14
POLY-3 PERCENT (g)	0%	69.2%	91.3%	93.6%
TERMINAL (d)	0/30 (0%)	22/33 (67%)	30/33 (91%)	29/30 (97%)
FIRST INCIDENCE	---	354	590	436
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose: Respiratory Epithelium Accumulation, Hyaline Droplet				
LESION RATES				
OVERALL (a)	5/50 (10%)	50/50 (100%)	48/49 (98%)	50/50 (100%)
POLY-3 RATE (b)	5/42.53	50/50.00	48/49.00	50/50.00
POLY-3 PERCENT (g)	11.8%	100%	98%	100%
TERMINAL (d)	4/30 (13%)	33/33 (100%)	32/33 (97%)	30/30 (100%)
FIRST INCIDENCE	534	104	516	436
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose: Respiratory Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	7/50 (14%)	8/49 (16%)	25/50 (50%)
POLY-3 RATE (b)	0/41.92	7/42.83	8/44.85	25/46.56
POLY-3 PERCENT (g)	0%	16.3%	17.8%	53.7%
TERMINAL (d)	0/30 (0%)	5/33 (15%)	5/33 (15%)	16/30 (53%)
FIRST INCIDENCE	---	635	590	532
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.008**	P=0.005**	P<0.001**
POLY 1.5	P<0.001**	P=0.007**	P=0.004**	P<0.001**
POLY 6	P<0.001**	P=0.009**	P=0.006**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.006**	P=0.003**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.003**	P=0.002**	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose: Transitional Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	5/50 (10%)	11/50 (22%)	4/49 (8%)	21/50 (42%)
POLY-3 RATE (b)	5/42.65	11/42.56	4/44.00	21/45.14
POLY-3 PERCENT (g)	11.7%	25.9%	9.1%	46.5%
TERMINAL (d)	2/30 (7%)	9/33 (27%)	3/33 (9%)	14/30 (47%)
FIRST INCIDENCE	615	663	689	609
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.079	P=0.480N	P<0.001**
POLY 1.5	P<0.001**	P=0.078	P=0.492N	P<0.001**
POLY 6	P<0.001**	P=0.084	P=0.472N	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.086	P=0.513N	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.045*	P=0.347N	P<0.001**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Nose: Transitional Epithelium Metaplasia				
LESION RATES				
OVERALL (a)	1/50 (2%)	5/50 (10%)	1/49 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/42.13	5/42.30	1/43.84	2/44.13
POLY-3 PERCENT (g)	2.4%	11.8%	2.3%	4.5%
TERMINAL (d)	0/30 (0%)	4/33 (12%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	674	713	731 (T)	684
STATISTICAL TESTS				
POLY 3	P=0.477N	P=0.101	P=0.752N	P=0.516
POLY 1.5	P=0.484N	P=0.099	P=0.757N	P=0.510
POLY 6	P=0.469N	P=0.106	P=0.748N	P=0.523
COCH-ARM / FISHERS	P=0.494N	P=0.102	P=0.747	P=0.500
MAX-ISO-POLY-3	P=0.359	P=0.044*	P=0.488N	P=0.298

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Ovary Cyst				
LESION RATES				
OVERALL (a)	9/50 (18%)	10/50 (20%)	12/50 (24%)	10/50 (20%)
POLY-3 RATE (b)	9/42.61	10/43.48	12/45.35	10/44.46
POLY-3 PERCENT (g)	21.1%	23%	26.5%	22.5%
TERMINAL (d)	7/30 (23%)	7/33 (21%)	9/33 (27%)	8/30 (27%)
FIRST INCIDENCE	547	354	604	613
STATISTICAL TESTS				
POLY 3	P=0.556	P=0.520	P=0.368	P=0.542
POLY 1.5	P=0.545	P=0.502	P=0.346	P=0.525
POLY 6	P=0.564	P=0.547	P=0.394	P=0.560
COCH-ARM / FISHERS	P=0.516	P=0.500	P=0.312	P=0.500
MAX-ISO-POLY-3	P=0.565	P=0.415	P=0.284	P=0.438

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pancreas: Acinus Atrophy				
LESION RATES				
OVERALL (a)	4/50 (8%)	2/50 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	4/41.92	2/42.23	2/44.19	1/44.01
POLY-3 PERCENT (g)	9.5%	4.7%	4.5%	2.3%
TERMINAL (d)	4/30 (13%)	2/33 (6%)	2/33 (6%)	0/30 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	731 (T)	716
STATISTICAL TESTS				
POLY 3	P=0.179N	P=0.333N	P=0.313N	P=0.163N
POLY 1.5	P=0.182N	P=0.340N	P=0.322N	P=0.170N
POLY 6	P=0.178N	P=0.320N	P=0.303N	P=0.157N
COCH-ARM / FISHERS	P=0.191N	P=0.339N	P=0.339N	P=0.181N
MAX-ISO-POLY-3	P=0.114N	P=0.198N	P=0.188N	P=0.079N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Parathyroid Gland Fibrosis				
LESION RATES				
OVERALL (a)	0/42 (0%)	2/43 (5%)	1/47 (2%)	0/47 (0%)
POLY-3 RATE (b)	0/35.30	2/38.82	1/41.61	0/41.13
POLY-3 PERCENT (g)	0%	5.2%	2.4%	0%
TERMINAL (d)	0/26 (0%)	0/31 (0%)	1/32 (3%)	0/28 (0%)
FIRST INCIDENCE	---	346	731 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.342N	P=0.258	P=0.533	(e)
POLY 1.5	P=0.347N	P=0.252	P=0.529	(e)
POLY 6	P=0.338N	P=0.266	P=0.536	(e)
COCH-ARM / FISHERS	P=0.356N	P=0.253	P=0.528	(e)
MAX-ISO-POLY-3	P=0.340N	P=0.095	P=0.191	(e)

Experiment Number: 20523 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (Trim VX)
CAS Number: TRIMVX

Date Report Requested: 10/29/2014
Time Report Requested: 10:15:41
First Dose M/F: 07/20/09 / 07/20/09
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Peripheral Nerve: Axon Degeneration				
LESION RATES				
OVERALL (a)	0/4 (0%)	0/3 (0%)	0/2 (0%)	0/3 (0%)
POLY-3 RATE (b)	0/2.42	0/1.43	0/1.15	0/2.19
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pituitary Gland Cyst				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.92	1/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	0%	2.4%	0%	0%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	731 (T)	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pituitary Gland: Pars Distalis Hyperplasia				
LESION RATES				
OVERALL (a)	4/50 (8%)	13/50 (26%)	12/50 (24%)	16/50 (32%)
POLY-3 RATE (b)	4/41.92	13/42.55	12/45.11	16/45.80
POLY-3 PERCENT (g)	9.5%	30.6%	26.6%	34.9%
TERMINAL (d)	4/30 (13%)	11/33 (33%)	9/33 (27%)	8/30 (27%)
FIRST INCIDENCE	731 (T)	649	613	593
STATISTICAL TESTS				
POLY 3	P=0.030*	P=0.014*	P=0.035*	P=0.004**
POLY 1.5	P=0.024*	P=0.013*	P=0.031*	P=0.003**
POLY 6	P=0.039*	P=0.016*	P=0.040*	P=0.005**
COCH-ARM / FISHERS	P=0.019*	P=0.016*	P=0.027*	P=0.003**
MAX-ISO-POLY-3	P=0.007**	P=0.007**	P=0.022*	P=0.002**

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Pituitary Gland: Pars Intermedia Hyperplasia				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.92	1/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	0%	2.4%	0%	0%
TERMINAL (d)	0/30 (0%)	1/33 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	731 (T)	---	---
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Metal working fluids (Trim VX)
CAS Number: TRIMVX

Date Report Requested: 10/29/2014
Time Report Requested: 10:15:41
First Dose M/F: 07/20/09 / 07/20/09
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<hr/>				
Skin				
Cyst Epithelial Inclusion				
<hr/>				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/41.92	0/42.23	1/44.60	0/43.95
POLY-3 PERCENT (g)	2.4%	0%	2.2%	0%
TERMINAL (d)	1/30 (3%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	731 (T)	---	613	---
<hr/>				
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin Inflammation				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/41.92	1/42.48	1/44.39	1/44.56
POLY-3 PERCENT (g)	0%	2.4%	2.3%	2.2%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	663	677	532
STATISTICAL TESTS				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Skin				
Ulcer				
LESION RATES				
OVERALL (a)	6/50 (12%)	0/50 (0%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	6/42.65	0/42.23	3/44.91	2/44.13
POLY-3 PERCENT (g)	14.1%	0%	6.7%	4.5%
TERMINAL (d)	4/30 (13%)	0/33 (0%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	576	---	613	684
STATISTICAL TESTS				
POLY 3	P=0.299N	P=0.015N*	P=0.216N	P=0.121N
POLY 1.5	P=0.302N	P=0.016N*	P=0.226N	P=0.126N
POLY 6	P=0.301N	P=0.014N*	P=0.206N	P=0.116N
COCH-ARM / FISHERS	P=0.319N	P=0.013N*	P=0.243N	P=0.134N
MAX-ISO-POLY-3	P=0.041N*	P=0.005N**	P=0.133N	P=0.064N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Spleen				
Hematopoietic Cell Proliferation				
LESION RATES				
OVERALL (a)	13/50 (26%)	7/50 (14%)	11/50 (22%)	9/50 (18%)
POLY-3 RATE (b)	13/45.72	7/43.69	11/47.82	9/45.03
POLY-3 PERCENT (g)	28.4%	16%	23%	20%
TERMINAL (d)	4/30 (13%)	2/33 (6%)	2/33 (6%)	4/30 (13%)
FIRST INCIDENCE	352	586	516	593
STATISTICAL TESTS				
POLY 3	P=0.379N	P=0.123N	P=0.358N	P=0.243N
POLY 1.5	P=0.375N	P=0.122N	P=0.379N	P=0.240N
POLY 6	P=0.390N	P=0.119N	P=0.333N	P=0.247N
COCH-ARM / FISHERS	P=0.386N	P=0.105N	P=0.408N	P=0.235N
MAX-ISO-POLY-3	P=0.263N	P=0.083N	P=0.279N	P=0.175N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Spleen: Lymphoid Follicle Atrophy				
LESION RATES				
OVERALL (a)	2/50 (4%)	2/50 (4%)	6/50 (12%)	7/50 (14%)
POLY-3 RATE (b)	2/42.54	2/43.38	6/45.91	7/46.03
POLY-3 PERCENT (g)	4.7%	4.6%	13.1%	15.2%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	585	492	516	532
STATISTICAL TESTS				
POLY 3	P=0.051	P=0.687N	P=0.158	P=0.098
POLY 1.5	P=0.046*	P=0.694N	P=0.148	P=0.090
POLY 6	P=0.056	P=0.677N	P=0.171	P=0.110
COCH-ARM / FISHERS	P=0.039*	P=0.691N	P=0.134	P=0.080
MAX-ISO-POLY-3	P=0.081	P=0.491N	P=0.093	P=0.056

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Stomach, Forestomach Inflammation				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.52	0/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	4.7%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	645	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.258N	P=0.238N	P=0.228N	P=0.230N
POLY 1.5	P=0.256N	P=0.240N	P=0.231N	P=0.232N
POLY 6	P=0.260N	P=0.235N	P=0.227N	P=0.228N
COCH-ARM / FISHERS	P=0.260N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.035N*	P=0.077N	P=0.076N	P=0.076N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Stomach, Forestomach: Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.52	0/42.23	0/44.19	0/43.95
POLY-3 PERCENT (g)	4.7%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/33 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	645	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.258N	P=0.238N	P=0.228N	P=0.230N
POLY 1.5	P=0.256N	P=0.240N	P=0.231N	P=0.232N
POLY 6	P=0.260N	P=0.235N	P=0.227N	P=0.228N
COCH-ARM / FISHERS	P=0.260N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.035N*	P=0.077N	P=0.076N	P=0.076N

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thymus Atrophy				
LESION RATES				
OVERALL (a)	14/48 (29%)	12/49 (24%)	21/49 (43%)	15/49 (31%)
POLY-3 RATE (b)	14/44.88	12/43.85	21/44.87	15/45.68
POLY-3 PERCENT (g)	31.2%	27.4%	46.8%	32.8%
TERMINAL (d)	4/28 (14%)	7/33 (21%)	14/32 (44%)	8/29 (28%)
FIRST INCIDENCE	352	586	593	436
STATISTICAL TESTS				
POLY 3	P=0.469	P=0.435N	P=0.093	P=0.523
POLY 1.5	P=0.467	P=0.428N	P=0.102	P=0.525
POLY 6	P=0.462	P=0.434N	P=0.084	P=0.518
COCH-ARM / FISHERS	P=0.441	P=0.386N	P=0.116	P=0.527
MAX-ISO-POLY-3	P=0.234	P=0.348N	P=0.062	P=0.432

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thymus Cyst				
LESION RATES				
OVERALL (a)	0/48 (0%)	1/49 (2%)	2/49 (4%)	0/49 (0%)
POLY-3 RATE (b)	0/39.92	1/42.12	2/43.19	0/42.95
POLY-3 PERCENT (g)	0%	2.4%	4.6%	0%
TERMINAL (d)	0/28 (0%)	1/33 (3%)	2/32 (6%)	0/29 (0%)
FIRST INCIDENCE	---	731 (T)	731 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.481N	P=0.511	P=0.255	(e)
POLY 1.5	P=0.487N	P=0.506	P=0.250	(e)
POLY 6	P=0.475N	P=0.518	P=0.260	(e)
COCH-ARM / FISHERS	P=0.499N	P=0.505	P=0.253	(e)
MAX-ISO-POLY-3	P=0.348N	P=0.171	P=0.092	(e)

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thyroid Gland: C-Cell Hyperplasia				
LESION RATES				
OVERALL (a)	40/49 (82%)	44/50 (88%)	45/50 (90%)	42/50 (84%)
POLY-3 RATE (b)	40/47.40	44/47.65	45/48.71	42/48.05
POLY-3 PERCENT (g)	84.4%	92.3%	92.4%	87.4%
TERMINAL (d)	24/29 (83%)	30/33 (91%)	32/33 (97%)	28/30 (93%)
FIRST INCIDENCE	352	354	516	436
STATISTICAL TESTS				
POLY 3	P=0.538N	P=0.175	P=0.167	P=0.445
POLY 1.5	P=0.505N	P=0.172	P=0.173	P=0.461
POLY 6	P=0.586	P=0.207	P=0.158	P=0.420
COCH-ARM / FISHERS	P=0.522N	P=0.274	P=0.183	P=0.482
MAX-ISO-POLY-3	P=0.236	P=0.102	P=0.097	P=0.326

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
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 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thyroid Gland: Follicle Hyperplasia				
LESION RATES				
OVERALL (a)	2/49 (4%)	4/50 (8%)	7/50 (14%)	3/50 (6%)
POLY-3 RATE (b)	2/41.41	4/42.79	7/44.60	3/43.95
POLY-3 PERCENT (g)	4.8%	9.4%	15.7%	6.8%
TERMINAL (d)	1/29 (3%)	2/33 (6%)	6/33 (18%)	3/30 (10%)
FIRST INCIDENCE	585	635	614	731 (T)
STATISTICAL TESTS				
POLY 3	P=0.535N	P=0.352	P=0.096	P=0.527
POLY 1.5	P=0.542N	P=0.344	P=0.092	P=0.520
POLY 6	P=0.532N	P=0.367	P=0.101	P=0.534
COCH-ARM / FISHERS	P=0.562N	P=0.349	P=0.085	P=0.510
MAX-ISO-POLY-3	P=0.257	P=0.214	P=0.054	P=0.351

Experiment Number: 20523 - 03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Metal working fluids (Trim VX)
 CAS Number: TRIMVX

Date Report Requested: 10/29/2014
 Time Report Requested: 10:15:41
 First Dose M/F: 07/20/09 / 07/20/09
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(Wistar Han)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Uterus: Endometrium Hyperplasia Cystic				
LESION RATES				
OVERALL (a)	12/50 (24%)	11/50 (22%)	12/50 (24%)	10/50 (20%)
POLY-3 RATE (b)	12/43.10	11/44.46	12/44.93	10/44.41
POLY-3 PERCENT (g)	27.8%	24.7%	26.7%	22.5%
TERMINAL (d)	9/30 (30%)	6/33 (18%)	10/33 (30%)	9/30 (30%)
FIRST INCIDENCE	547	354	516	593
STATISTICAL TESTS				
POLY 3	P=0.362N	P=0.465N	P=0.548N	P=0.371N
POLY 1.5	P=0.363N	P=0.491N	P=0.563N	P=0.384N
POLY 6	P=0.369N	P=0.425N	P=0.537N	P=0.360N
COCH-ARM / FISHERS	P=0.381N	P=0.500N	P=0.592N	P=0.405N
MAX-ISO-POLY-3	P=0.462N	P=0.371N	P=0.452N	P=0.286N

Experiment Number: 20523 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Metal working fluids (Trim VX)

CAS Number: TRIMVX

Date Report Requested: 10/29/2014

Time Report Requested: 10:15:41

First Dose M/F: 07/20/09 / 07/20/09

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 ***