

Study Number: C20302B-03
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Rat/Harlan Sprague Dawley

I02: Animal Removals: Chronological Description
Test Compound: alpha-Pinene
CAS Number: 80-56-8

Date Report Requested: 03/08/2023
Time Report Requested: 15:42:58
Lab: Battelle

Study Number: C20302B-03
Study Sex: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.4.3

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Lab: Battelle

Males: Fertility Males

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
0	SD106	401	06/08/15	08:17	106	16	390.0		Scheduled Removal (Terminal)	Normal
	SD106	402	06/08/15	08:21	106	16	375.8		Scheduled Removal (Terminal)	Normal
	SD106	403	06/08/15	08:24	106	16	389.2		Scheduled Removal (Terminal)	Normal
	SD106	404	06/08/15	08:28	106	16	445.6		Scheduled Removal (Terminal)	Normal
	SD106	405	06/08/15	08:30	106	16	423.2		Scheduled Removal (Terminal)	Normal
	SD106	406	06/08/15	08:33	106	16	401.2		Scheduled Removal (Terminal)	Normal
	SD106	407	06/08/15	08:35	106	16	408.8		Scheduled Removal (Terminal)	Normal
	SD106	408	06/08/15	08:38	106	16	395.2		Scheduled Removal (Terminal)	Normal
	SD106	409	06/08/15	08:42	106	16	454.3		Scheduled Removal (Terminal)	Normal
	SD106	410	06/08/15	08:45	106	16	434.4		Scheduled Removal (Terminal)	Normal
	SD107	411	06/09/15	07:33	107	16	414.7		Scheduled Removal (Terminal)	Normal
	SD107	412	06/09/15	07:39	107	16	407.3		Scheduled Removal (Terminal)	Normal
	SD107	413	06/09/15	07:46	107	16	394.3		Scheduled Removal (Terminal)	Normal
	SD107	414	06/09/15	07:52	107	16	380.6		Scheduled Removal (Terminal)	Normal
	SD107	415	06/09/15	07:57	107	16	401.1		Scheduled Removal (Terminal)	Normal
	SD107	416	06/09/15	08:03	107	16	429.2		Scheduled Removal (Terminal)	Normal
	SD107	417	06/09/15	08:12	107	16	467.9		Scheduled Removal (Terminal)	Normal

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100	SD107	418	06/09/15	08:16	107	16	381.6		Scheduled Removal (Terminal)	Normal
	SD108	419	06/10/15	07:13	108	16	467.0		Scheduled Removal (Terminal)	Normal
	SD108	420	06/10/15	07:17	108	16	384.8		Scheduled Removal (Terminal)	Normal
	SD108	421	06/10/15	07:21	108	16	412.6		Scheduled Removal (Terminal)	Normal
	SD108	422	06/10/15	07:25	108	16	375.4		Scheduled Removal (Terminal)	Normal
	SD108	423	06/10/15	07:29	108	16	481.4		Scheduled Removal (Terminal)	Normal
	SD108	424	06/10/15	07:32	108	16	372.1		Scheduled Removal (Terminal)	Normal
	SD108	425	06/10/15	07:36	108	16	396.6		Scheduled Removal (Terminal)	Normal
	SD106	426	06/08/15	08:18	106	16	426.3		Scheduled Removal (Terminal)	Normal
	SD106	427	06/08/15	08:21	106	16	436.3		Scheduled Removal (Terminal)	Normal
	SD106	428	06/08/15	08:25	106	16	391.2		Scheduled Removal (Terminal)	Normal
	SD106	429	06/08/15	08:28	106	16	426.4		Scheduled Removal (Terminal)	Normal
	SD106	430	06/08/15	08:31	106	16	489.7		Scheduled Removal (Terminal)	Normal
	SD106	431	06/08/15	08:33	106	16	424.4		Scheduled Removal (Terminal)	Normal
	SD106	432	06/08/15	08:36	106	16	383.2		Scheduled Removal (Terminal)	Normal
	SD106	433R	06/08/15	08:39	106	16	491.4		Scheduled Removal (Terminal)	Normal
	SD106	434	06/08/15	08:43	106	16	414.3		Scheduled Removal (Terminal)	Normal

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	SD106	435	06/08/15	08:46	106	16	408.3		Scheduled Removal (Terminal)	Normal
	SD107	436	06/09/15	07:35	107	16	403.6		Scheduled Removal (Terminal)	Normal
	SD107	437	06/09/15	07:42	107	16	424.6		Scheduled Removal (Terminal)	Normal
	SD107	438	06/09/15	07:47	107	16	380.5		Scheduled Removal (Terminal)	Normal
	SD107	439	06/09/15	07:53	107	16	444.9		Scheduled Removal (Terminal)	Normal
	SD107	440	06/09/15	07:59	107	16	414.6		Scheduled Removal (Terminal)	Normal
	SD107	441	06/09/15	08:04	107	16	360.5		Scheduled Removal (Terminal)	Normal
	SD107	442	06/09/15	08:13	107	16	444.3		Scheduled Removal (Terminal)	Normal
	SD107	443	06/09/15	08:17	107	16	405.9		Scheduled Removal (Terminal)	Normal
	SD108	444	06/10/15	07:14	108	16	384.5		Scheduled Removal (Terminal)	Normal
	SD108	445	06/10/15	07:18	108	16	380.6		Scheduled Removal (Terminal)	Normal
	SD108	446	06/10/15	07:22	108	16	449.1		Scheduled Removal (Terminal)	Normal
	SD108	447	06/10/15	07:26	108	16	375.6		Scheduled Removal (Terminal)	Normal
	SD108	448	06/10/15	07:30	108	16	476.8		Scheduled Removal (Terminal)	Normal
	SD108	449	06/10/15	07:33	108	16	448.8		Scheduled Removal (Terminal)	Normal
	SD108	450	06/10/15	07:37	108	16	425.2		Scheduled Removal (Terminal)	Normal
200	SD106	451	06/08/15	08:19	106	16	423.8		Scheduled Removal (Terminal)	Normal

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	SD106	452	06/08/15	08:22	106	16	400.3		Scheduled Removal (Terminal)	Normal
	SD106	453	06/08/15	08:25	106	16	417.6		Scheduled Removal (Terminal)	Normal
	SD106	454	06/08/15	08:29	106	16	392.6		Scheduled Removal (Terminal)	Normal
	SD106	455	06/08/15	08:32	106	16	416.2		Scheduled Removal (Terminal)	Normal
	SD106	456	06/08/15	08:34	106	16	402.5		Scheduled Removal (Terminal)	Normal
	SD106	457	06/08/15	08:37	106	16	448.2		Scheduled Removal (Terminal)	Normal
	SD106	458	06/08/15	08:40	106	16	416.3		Scheduled Removal (Terminal)	Normal
	SD106	459	06/08/15	08:44	106	16	342.7		Scheduled Removal (Terminal)	Normal
	SD106	460	06/08/15	08:46	106	16	382.6		Scheduled Removal (Terminal)	Normal
	SD107	461	06/09/15	07:36	107	16	440.7		Scheduled Removal (Terminal)	Normal
	SD107	462	06/09/15	07:43	107	16	448.0		Scheduled Removal (Terminal)	Normal
	SD107	463	06/09/15	07:49	107	16	393.3		Scheduled Removal (Terminal)	Normal
	SD107	464	06/09/15	07:55	107	16	416.4		Scheduled Removal (Terminal)	Normal
	SD107	465	06/09/15	08:00	107	16	407.8		Scheduled Removal (Terminal)	Normal
	SD107	466	06/09/15	08:06	107	16	400.8		Scheduled Removal (Terminal)	Normal
	SD107	467	06/09/15	08:14	107	16	401.9		Scheduled Removal (Terminal)	Normal
	SD108	468	06/10/15	07:15	108	16	424.8		Scheduled Removal (Terminal)	Normal

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400	SD108	469	06/10/15	07:19	108	16	428.6		Scheduled Removal (Terminal)	Normal
	SD108	470	06/10/15	07:23	108	16	432.3		Scheduled Removal (Terminal)	Normal
	SD108	471	06/10/15	07:27	108	16	417.2		Scheduled Removal (Terminal)	Normal
	SD108	472	06/10/15	07:31	108	16	380.4		Scheduled Removal (Terminal)	Normal
	SD108	473	06/10/15	07:34	108	16	429.4		Scheduled Removal (Terminal)	Normal
	SD108	474	06/10/15	07:38	108	16	410.8		Scheduled Removal (Terminal)	Normal
	SD108	475	06/10/15	07:40	108	16	422.4		Scheduled Removal (Terminal)	Normal
	SD106	476	06/08/15	08:20	106	16	476.6		Scheduled Removal (Terminal)	Normal
	SD106	477	06/08/15	08:23	106	16	416.5		Scheduled Removal (Terminal)	Normal
	SD106	478	06/08/15	08:26	106	16	392.4		Scheduled Removal (Terminal)	Normal
	SD106	479	06/08/15	08:29	106	16	384.8		Scheduled Removal (Terminal)	Normal
	SD106	480	06/08/15	08:32	106	16	399.4		Scheduled Removal (Terminal)	Normal
	SD106	481	06/08/15	08:35	106	16	404.3		Scheduled Removal (Terminal)	Normal
	SD106	482	06/08/15	08:37	106	16	413.0		Scheduled Removal (Terminal)	Normal
	SD106	483	06/08/15	08:41	106	16	413.7		Scheduled Removal (Terminal)	Normal
	SD106	484	06/08/15	08:45	106	16	420.1		Scheduled Removal (Terminal)	Normal
	SD106	485	06/08/15	08:47	106	16	398.5		Scheduled Removal (Terminal)	Normal

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	SD107	486	06/09/15	07:38	107	16	439.8		Scheduled Removal (Terminal)	Normal
	SD107	487	06/09/15	07:45	107	16	395.2		Scheduled Removal (Terminal)	Normal
	SD107	488	06/09/15	07:51	107	16	413.0		Scheduled Removal (Terminal)	Normal
	SD107	489	06/09/15	07:56	107	16	416.3		Scheduled Removal (Terminal)	Normal
	SD107	490	06/09/15	08:01	107	16	382.7		Scheduled Removal (Terminal)	Normal
	SD107	491	06/09/15	08:11	107	16	373.3		Scheduled Removal (Terminal)	Normal
	SD107	492	06/09/15	08:15	107	16	373.6		Scheduled Removal (Terminal)	Normal
	SD108	493	06/10/15	07:16	108	16	439.4		Scheduled Removal (Terminal)	Normal
	SD108	494	06/10/15	07:20	108	16	408.3		Scheduled Removal (Terminal)	Normal
	SD108	495	06/10/15	07:24	108	16	397.6		Scheduled Removal (Terminal)	Normal
	SD108	496	06/10/15	07:28	108	16	394.4		Scheduled Removal (Terminal)	Normal
	SD108	497	06/10/15	07:31	108	16	380.9		Scheduled Removal (Terminal)	Normal
	SD108	498	06/10/15	07:35	108	16	432.2		Scheduled Removal (Terminal)	Normal
	SD108	499	06/10/15	07:39	108	16	393.0		Scheduled Removal (Terminal)	Normal
	SD108	500	06/10/15	07:41	108	16	393.7		Scheduled Removal (Terminal)	Normal

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Males: Core Animals**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
0	SD142	33	07/14/15	03:26	142	21	435.9		Euthanized Moribund	Coat Ruffled; Mass Head Soft; Thin
	SD323	14	01/11/16	07:42	323	47	453.4		Found Dead	Normal
	SD477	29	06/13/16	02:24	477	69	682.7		Found Dead	Mass Abdomen Left, Moveable
	SD514	9	07/20/16	02:22	514	74	510.8		Found Dead	Normal
	SD515	23	07/21/16	07:24	515	74	451.7		Found Dead	Discharge Eye Red
	SD567	15	09/11/16	09:41	567	81	544.6		Euthanized Moribund	Coat Ruffled; Lethargic; Swelling Hind Limb Bilateral
	SD572	7	09/16/16	03:52	572	82	653.8		Found Dead	Normal
	SD572	44	09/16/16	03:54	572	82	683.1		Found Dead	Discharge Eye Red
	SD605	31	10/19/16	02:51	605	87	563.8		Found Dead	Normal
	SD605	40	10/19/16	07:10	605	87	422.2		Euthanized Moribund	Breathing, labored; Discharge Eye Bilateral, Red; Lethargic
	SD607	10	10/21/16	07:29	607	87	543.4		Found Dead	Normal
	SD613	50	10/27/16	07:52	613	88	572.8		Found Dead	Normal
	SD614	28R	10/28/16	02:48	614	88	411.6		Euthanized Moribund	Discolored Fore Limb Red; Swelling Nose/Snout Bilateral
	SD617	13	10/31/16	08:13	617	89	283.1		Euthanized Moribund	Coat Ruffled; Hunched; Lethargic; Thin
	SD622	4	11/05/16	09:30	622	89	437.6		Found Dead	Normal
	SD637	36	11/20/16	08:56	637	91	417.9		Found Dead	Discharge Eye Brown; Discharge Nose/Snout Brown
	SD643	2	11/26/16	08:08	643	92	498.6		Found Dead	Normal
	SD670	24	12/23/16	08:56	670	96	592.2		Found Dead	Discharge Eye Left
	SD681	25	01/03/17	03:00	681	98	325.9		Euthanized Moribund	Breathing, labored; Damaged Tail; Discharge Eye Red; Mass Abdomen 1, Right, Small (1-5mm); Thin
	SD683	46	01/05/17	07:24	683	98	325.0		Euthanized Moribund	Discharge Eye Right; Discharge Nose/Snout Red; Lethargic; Maloccluded/Broken Teeth; Mass Head 1, Right, Small (1-5mm), Ulcerated
	SD698	12	01/20/17	03:52	698	100	502.4		Found Dead	Normal

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Males: Core Animals**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	SD698	35	01/20/17	06:53	698	100	350.5		Euthanized Moribund	Discharge Eye Red; Lethargic
	SD705	6	01/27/17	02:37	705	101	458.6		Found Dead	Discharge Nose/Snout Red
	SD708	11	01/30/17	02:59	708	102	426.5		Euthanized Moribund	Discharge Eye Bilateral, Red; Eye Abnormality Right; Lethargic
	SD708	45	01/30/17	07:11	708	102	677.6		Found Dead	Mass Thorax 1, Large (>15mm), Right
	SD709	1	01/31/17	07:25	709	102	483.4		Found Dead	Normal
	SD715	41	02/06/17	03:40	715	103	338.3		Euthanized Moribund	Breathing, labored; Hunched; Lethargic; Thin
	SD717	5	02/08/17	02:36	717	103	548.4		Found Dead	Eye Abnormality Left
	SD730	17	02/21/17	08:28	730	105	613.2		Scheduled Removal (Terminal)	Normal
	SD730	20	02/21/17	08:32	730	105	615.2		Scheduled Removal (Terminal)	Normal
	SD730	21	02/21/17	08:11	730	105	687.2		Scheduled Removal (Terminal)	Normal
	SD730	22	02/21/17	08:24	730	105	476.1		Scheduled Removal (Terminal)	Normal
	SD730	27	02/21/17	08:38	730	105	444.3		Scheduled Removal (Terminal)	Normal
	SD730	30	02/21/17	08:22	730	105	578.4		Scheduled Removal (Terminal)	Normal
	SD730	34	02/21/17	08:24	730	105	591.2		Scheduled Removal (Terminal)	Normal
	SD730	38	02/21/17	08:22	730	105	499.9		Scheduled Removal (Terminal)	Normal
	SD730	43	02/21/17	08:18	730	105	539.0		Scheduled Removal (Terminal)	Normal
	SD730	47	02/21/17	08:35	730	105	653.9		Scheduled Removal (Terminal)	Normal
	SD730	48	02/21/17	08:31	730	105	597.4		Scheduled Removal (Terminal)	Mass Abdomen 1, Left, Small (1-5mm)
	SD731	3	02/22/17	07:44	731	105	535.8		Scheduled Removal (Terminal)	Normal

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50	SD731	8	02/22/17	08:22	731	105	679.5		Scheduled Removal (Terminal)	Mass Thorax 1, Large (>15mm), Left
	SD731	16	02/22/17	07:43	731	105	396.7		Scheduled Removal (Terminal)	Normal
	SD731	18	02/22/17	07:59	731	105	548.5		Scheduled Removal (Terminal)	Normal
	SD731	19	02/22/17	08:00	731	105	502.6		Scheduled Removal (Terminal)	Normal
	SD731	26	02/22/17	08:01	731	105	613.2		Scheduled Removal (Terminal)	Damaged Tail; Discharge Eye Red; Mass Abdomen 1, Large (>15mm)
	SD731	32	02/22/17	07:41	731	105	587.2		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Right
	SD731	37R	02/22/17	08:06	731	105	619.2		Scheduled Removal (Terminal)	Mass Fore Limb 1, Large (>15mm), Right, Scabbed
	SD731	39	02/22/17	08:07	731	105	591.7		Scheduled Removal (Terminal)	Normal
	SD731	42	02/22/17	07:40	731	105	486.5		Scheduled Removal (Terminal)	Normal
	SD731	49	02/22/17	07:29	731	105	554.3		Scheduled Removal (Terminal)	Normal
	SD383	82	03/11/16	03:19	383	55	231.5		Euthanized Moribund	Maloccluded/Broken Teeth; Thin
	SD427	52	04/24/16	02:26	427	61	365.1		Euthanized Moribund	Breathing, labored; Coat Ruffled; Discharge Nose/Snout Red; Lethargic; Thin
	SD444	86	05/11/16	07:32	444	64	319.5		Euthanized Moribund	Breathing, labored; Lethargic
	SD493	93	06/29/16	08:59	493	71	289.5		Found Dead	Discharge Nose/Snout Red
	SD537	72	08/12/16	06:45	537	77	NA		Found Dead	Damaged Tail
	SD552	70	08/27/16	09:09	552	79	499.3		Euthanized Moribund	Discharge Eye Red; Lethargic
	SD572	98	09/16/16	03:56	572	82	616.3		Found Dead	Normal
	SD572	100	09/16/16	07:38	572	82	409.9		Euthanized Moribund	Coat Ruffled; Coat Unkempt; Discharge Eye Red; Discharge Nose/Snout Red; Lethargic
	SD589	88	10/03/16	06:55	589	85	373.8		Found Dead	Discharge Eye Red; Discharge Nose/Snout Red

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	SD603	73	10/17/16	07:18	603	87	653.0		Found Dead	Discharge Eye Red
	SD605	81	10/19/16	07:10	605	87	457.4		Euthanized Moribund	Breathing, labored; Lethargic
	SD607	63	10/21/16	07:31	607	87	427.3		Euthanized Moribund	Coat Ruffled; Cold To Touch; Lethargic; Swelling Nose/Snout Bilateral
	SD624	92	11/07/16	02:39	624	90	501.9		Found Dead	Discharge Eye Red; Discharge Nose/Snout Red
	SD637	95	11/20/16	08:58	637	91	360.1		Found Dead	Thin
	SD645	74	11/28/16	07:53	645	93	490.2		Found Dead	Normal
	SD648	91	12/01/16	04:21	648	93	590.8		Found Dead	Discharge Eye Bilateral, Red; Mass Head 1, Scabbed, Small (1-5mm)
	SD655	94	12/08/16	03:18	655	94	613.4		Found Dead	Mass Thorax 1, Right, Small (1-5mm)
	SD658	78	12/11/16	08:07	658	94	641.1		Found Dead	Normal
	SD666	66	12/19/16	03:10	666	96	333.2		Found Dead	Discharge Anus Brown; Discharge Nose/Snout Brown
	SD671	61	12/24/16	09:33	671	96	574.2		Found Dead	Wound Dorsum Right
	SD681	96	01/03/17	03:04	681	98	698.3		Euthanized Moribund	Discharge Eye Red; Discharge Nose/Snout Red; Mass Fore Limb 1, Large (>15mm), Right; Thin
	SD686	58	01/08/17	09:07	686	98	581.1		Found Dead	Discharge Eye Red; Mass Dorsum 1, Medium (6-15mm), Right, Ulcerated
	SD688	99	01/10/17	07:37	688	99	359.9		Euthanized Moribund	Discharge Eye Red; Discharge Urogenital Brown; Lethargic
	SD690	69	01/12/17	07:40	690	99	509.3		Found Dead	Mass Ear 1, Medium (6-15mm), Right; Mass Thorax Hairless, Large (>15mm); Thin
	SD692	71	01/14/17	01:56	692	99	625.5		Euthanized Moribund	Mass Hind Limb 1, Firm, Large (>15mm), Left; Swelling Hind Paw Left
	SD695	62	01/17/17	07:55	695	100	509.8		Euthanized Moribund	Discharge Eye Red; Discharge Nose/Snout Red; Lethargic

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Males: Core Animals**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	SD705	65	01/27/17	07:04	705	101	424.9		Euthanized Moribund	Coat Ruffled; Lethargic; Seizure; Thin
	SD715	55	02/06/17	03:42	715	103	460.0		Found Dead	Discharge Nose/Snout Red; Scab Tail Bilateral
	SD717	53	02/08/17	07:33	717	103	416.3		Found Dead	Discharge Eye Bilateral, Red; Discharge Nose/Snout Red
	SD722	90	02/13/17	02:47	722	104	492.5		Euthanized Moribund	Discharge Nose/Snout Red; Lethargic; Twitches, Moderate; Weakness Hind Limb Bilateral
	SD727	76	02/18/17	02:43	727	104	494.6		Found Dead	Discharge Eye Red; Mass Dorsum 1, Medium (6-15mm), Right, Ulcerated
	SD730	51	02/21/17	08:17	730	105	612.2		Scheduled Removal (Terminal)	Normal
	SD730	54	02/21/17	08:20	730	105	545.0		Scheduled Removal (Terminal)	Normal
	SD730	59	02/21/17	08:14	730	105	551.9		Scheduled Removal (Terminal)	Mass Dorsum 1, Scabbed, Small (1-5mm); Sore Head Left
	SD730	64	02/21/17	08:23	730	105	492.6		Scheduled Removal (Terminal)	Normal
	SD730	67	02/21/17	08:26	730	105	536.7		Scheduled Removal (Terminal)	Sore Tail Bilateral
	SD730	68	02/21/17	08:23	730	105	569.8		Scheduled Removal (Terminal)	Normal
	SD730	79	02/21/17	08:28	730	105	592.7		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm)
	SD730	80	02/21/17	08:34	730	105	632.1		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Left, Ulcerated
	SD730	85	02/21/17	08:27	730	105	584.9		Scheduled Removal (Terminal)	Mass Abdomen 1, Left, Medium (6-15mm)
	SD731	56	02/22/17	07:36	731	105	408.9		Scheduled Removal (Terminal)	Normal
	SD731	57	02/22/17	08:21	731	105	508.6		Scheduled Removal (Terminal)	Damaged Tail; Mass Abdomen 1, Large (>15mm), Right

Study Number: C20302B-03

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Rat/Harlan Sprague Dawley

I02: Animal Removals: Chronological Description

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Date Report Requested: 03/08/2023

Time Report Requested: 15:42:58

Lab: Battelle

Males: Core Animals

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
100	SD731	60	02/22/17	08:23	731	105	480.0		Scheduled Removal (Terminal)	Normal
	SD731	75	02/22/17	08:09	731	105	554.0		Scheduled Removal (Terminal)	Sore Dorsum Right
	SD731	77	02/22/17	07:28	731	105	470.3		Scheduled Removal (Terminal)	Normal
	SD731	83	02/22/17	07:28	731	105	571.5		Scheduled Removal (Terminal)	Mass Dorsum 1, Bilateral, Small (1-5mm)
	SD731	84	02/22/17	08:25	731	105	515.0		Scheduled Removal (Terminal)	Mass Hind Limb 1, Left, Medium (6-15mm)
	SD731	87	02/22/17	08:10	731	105	605.2		Scheduled Removal (Terminal)	Normal
	SD731	89	02/22/17	07:51	731	105	604.2		Scheduled Removal (Terminal)	Normal
	SD731	97	02/22/17	08:11	731	105	464.0		Scheduled Removal (Terminal)	Normal
	SD445	106	05/12/16	07:25	445	64	457.7		Found Dead	Normal
	SD477	145	06/13/16	07:29	477	69	450.5		Found Dead	Normal
	SD505	111	07/11/16	03:30	505	73	610.6		Found Dead	Normal
	SD544	122	08/19/16	07:19	544	78	412.3		Euthanized Moribund	Coat Ruffled; Lethargic; Opacity Eye Bilateral; Thin
	SD560	118	09/04/16	09:07	560	80	634.3		Found Dead	Discharge Eye Red; Mass Hind Limb Large (>15mm), Right
	SD564	136	09/08/16	07:29	564	81	357.8		Euthanized Moribund	Hunched; Lethargic; Thin
	SD590	147	10/04/16	02:54	590	85	519.6		Euthanized Moribund	Discharge Penis Red; Hypoactivity; Lethargic
	SD594	124	10/08/16	02:37	594	85	605.0		Found Dead	Damaged Tail
	SD600	112	10/14/16	03:29	600	86	440.6		Euthanized Moribund	Coat Ruffled; Eye Abnormality Bilateral; Lethargic
	SD611	114	10/25/16	07:30	611	88	309.4		Found Dead	Damaged Tail
	SD621	133	11/04/16	07:31	621	89	555.7		Found Dead	Discharge Penis Yellow
	SD630	141	11/13/16	02:34	630	90	383.2		Euthanized Moribund	Hunched; Lethargic; Thin
	SD637	127	11/20/16	08:59	637	91	320.8		Found Dead	Normal

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Males: Core Animals**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	SD639	102	11/22/16	07:42	639	92	358.0		Found Dead	Normal
	SD639	119	11/22/16	07:43	639	92	302.1		Found Dead	Normal
	SD645	126	11/28/16	07:57	645	93	287.5		Euthanized Moribund	Lethargic; Mass Abdomen 1, Left, Small (1-5mm); Thin
	SD651	115	12/04/16	07:17	651	93	311.2		Found Dead	Hunched; Thin
	SD655	128	12/08/16	03:22	655	94	431.3		Euthanized Moribund	Discharge Eye Bilateral, Brown; Lethargic; Nails Broken Hind Paw Left
	SD656	104	12/09/16	07:03	656	94	412.2		Euthanized Moribund	Coat Ruffled; Discharge Anus Red; Discharge Eye Bilateral, Red; Discharge Nose/Snout Bilateral, Red; Lethargic
	SD658	108	12/11/16	07:59	658	94	400.1		Found Dead	Discharge Eye Red; Discharge Nose/Snout Red
	SD661	110	12/14/16	02:38	661	95	419.1		Found Dead	Discharge Eye Bilateral, Red; Discharge Nose/Snout Brown
	SD663	139	12/16/16	06:55	663	95	291.5		Euthanized Moribund	Breathing, labored; Lethargic; Mass Head 1, Right, Small (1-5mm)
	SD674	105	12/27/16	02:48	674	97	334.1		Euthanized Moribund	Breathing, labored; Cold To Touch; Damaged Tail; Discharge Eye Red; Discharge Nose/Snout Clear; Lethargic; Thin
	SD683	101	01/05/17	07:29	683	98	336.9		Found Dead	Discharge Nose/Snout Brown; Discharge Urogenital Brown; Mass Abdomen 1, Medium (6-15mm), Right
	SD699	146	01/21/17	10:00	699	100	346.9		Found Dead	Normal
	SD715	135	02/06/17	03:43	715	103	509.0		Found Dead	Normal
	SD715	140	02/06/17	03:46	715	103	354.0		Euthanized Moribund	Breathing, labored; Coat Ruffled; Cold To Touch; Discharge Eye Red; Lethargic; Thin
	SD718	117	02/09/17	03:00	718	103	459.0		Found Dead	Discharge Eye Left, Red; Mass Fore Limb 1, Large (>15mm), Left
	SD724	107	02/15/17	07:10	724	104	341.1		Found Dead	Normal

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Males: Core Animals**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	SD730	109	02/21/17	08:31	730	105	341.3		Scheduled Removal (Terminal)	Normal
	SD730	116	02/21/17	08:25	730	105	521.0		Scheduled Removal (Terminal)	Normal
	SD730	121	02/21/17	08:37	730	105	454.2		Scheduled Removal (Terminal)	Normal
	SD730	123	02/21/17	08:37	730	105	555.6		Scheduled Removal (Terminal)	Normal
	SD730	132	02/21/17	08:21	730	105	510.0		Scheduled Removal (Terminal)	Normal
	SD730	134	02/21/17	08:13	730	105	580.5		Scheduled Removal (Terminal)	Mass Head 1, Bilateral, Large (>15mm)
	SD730	138	02/21/17	08:25	730	105	556.3		Scheduled Removal (Terminal)	Damaged Tail
	SD730	144	02/21/17	08:30	730	105	507.2		Scheduled Removal (Terminal)	Normal
	SD730	149	02/21/17	08:11	730	105	570.5		Scheduled Removal (Terminal)	Normal
	SD730	150	02/21/17	08:16	730	105	500.0		Scheduled Removal (Terminal)	Damaged Tail
	SD731	103	02/22/17	07:35	731	105	549.3		Scheduled Removal (Terminal)	Normal
	SD731	113	02/22/17	08:12	731	105	514.7		Scheduled Removal (Terminal)	Normal
	SD731	120	02/22/17	07:52	731	105	448.5		Scheduled Removal (Terminal)	Normal
	SD731	125	02/22/17	08:18	731	105	467.8		Scheduled Removal (Terminal)	Sore Dorsum
	SD731	130	02/22/17	07:49	731	105	466.5		Scheduled Removal (Terminal)	Normal
	SD731	131	02/22/17	07:49	731	105	529.8		Scheduled Removal (Terminal)	Sore Dorsum Left
	SD731	137	02/22/17	08:17	731	105	515.0		Scheduled Removal (Terminal)	Mass Head 1, Left, Small (1-5mm)

Study Number: C20302B-03

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Rat/Harlan Sprague Dawley

I02: Animal Removals: Chronological Description

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Date Report Requested: 03/08/2023

Time Report Requested: 15:42:58

Lab: Battelle

Males: Core Animals										
Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
200	SD731	142	02/22/17	07:35	731	105	519.9		Scheduled Removal (Terminal)	Normal
	SD731	143	02/22/17	07:57	731	105	447.0		Scheduled Removal (Terminal)	Normal
	SD731	148	02/22/17	07:34	731	105	487.6		Scheduled Removal (Terminal)	Normal
	SD732	129	02/23/17	08:53	732	105	484.8		Scheduled Removal (Terminal)	Normal
	SD241	199	10/21/15	08:06	241	35	482.5		Found Dead	Normal
	SD322	151	01/10/16	02:36	322	46	533.8		Found Dead	Discharge Eye Red
	SD323	186	01/11/16	07:46	323	47	518.8		Euthanized Moribund	Mass Fore Limb Left
	SD342	165	01/30/16	02:40	342	49	385.5		Found Dead	Discharge Eye Red; Discharge Nose/Snout Red
	SD393	188	03/21/16	03:43	393	57	453.4		Euthanized Moribund	Discharge Nose/Snout Red; Swelling Hind Limb Right
	SD411	167	04/08/16	02:50	411	59	475.4		Euthanized Moribund	Swelling Abdomen
	SD482	184	06/18/16	02:42	482	69	415.2		Found Dead	Discharge Eye Bilateral, Red; Discharge Nose/Snout Bilateral, Red
	SD488	179	06/24/16	07:37	488	70	571.4		Found Dead	Normal
	SD526	170	08/01/16	07:11	526	76	429.1		Euthanized Moribund	Coat Ruffled; Mass Head Left; Pale
	SD531	182	08/06/16	08:10	531	76	494.2		Euthanized Moribund	Hunched; Lethargic; Paralysis Hind Limb
	SD560	172	09/04/16	03:06	560	80	283.6		Found Dead	Mass Thorax Bilateral, Medium (6-15mm)
	SD593	169	10/07/16	02:45	593	85	528.7		Found Dead	Normal
	SD596	200	10/10/16	06:50	596	86	429.5		Found Dead	Normal
	SD602	193	10/16/16	02:40	602	86	437.0		Euthanized Moribund	Breathing, labored; Coat Ruffled; Discharge Eye Red; Lethargic; Stained Anus Orange
	SD623	155	11/06/16	08:59	623	89	439.7		Euthanized Moribund	Breathing, rapid; Lethargic

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Males: Core Animals**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	SD636	177	11/19/16	08:20	636	91	794.6		Euthanized Moribund	Lethargic; Mass Hind Limb 1, Large (>15mm), Left, Ulcerated; Pale
	SD645	164	11/28/16	07:58	645	93	548.8		Found Dead	Normal
	SD648	198	12/01/16	07:34	648	93	390.0		Euthanized Moribund	Discharge Eye Red; Discharge Nose/Snout Red; Lethargic; Thin
	SD651	181	12/04/16	02:29	651	93	319.5		Found Dead	Lethargic; Thin
	SD659	156	12/12/16	02:57	659	95	312.5		Euthanized Moribund	Discharge Eye Red; Lethargic; Mass Abdomen 2, Hairless, Left, Medium (6-15mm); Mass Fore Paw 1, Left, Medium (6-15mm); Thin
	SD660	171	12/13/16	03:24	660	95	575.0		Found Dead	Normal
	SD669	168	12/22/16	02:52	669	96	299.6		Euthanized Moribund	Breathing, labored; Discharge Eye Bilateral, Red; Discharge Nose/Snout Red; Thin
	SD669	192	12/22/16	07:51	669	96	409.6		Found Dead	Discharge Nose/Snout Red; Mass Thorax 1, Large (>15mm), Left, Ulcerated
	SD677	158	12/30/16	02:43	677	97	494.4		Found Dead	Discharge Eye Red, Right; Discharge Nose/Snout Red
	SD681	187	01/03/17	03:09	681	98	591.5		Found Dead	Discharge Nose/Snout Red
	SD683	160	01/05/17	07:31	683	98	344.4		Found Dead	Normal
	SD683	175	01/05/17	02:52	683	98	307.2		Found Dead	Discharge Nose/Snout Red; Thin
	SD692	174	01/14/17	09:13	692	99	610.8		Found Dead	Normal
	SD694	194	01/16/17	02:46	694	100	520.7		Found Dead	Normal
	SD696	163	01/18/17	02:47	696	100	432.1		Found Dead	Discharge Eye Bilateral, Red; Discharge Nose/Snout Brown; Discharge Penis Red
	SD696	183	01/18/17	02:48	696	100	500.1		Euthanized Moribund	Discharge Eye Bilateral, Red
	SD699	176	01/21/17	10:03	699	100	346.2		Found Dead	Discharge Eye Red
	SD705	152	01/27/17	07:08	705	101	302.8		Euthanized Moribund	Coat Ruffled; Lethargic; Pale; Thin
	SD709	154	01/31/17	07:29	709	102	353.5		Found Dead	Discharge Nose/Snout Red; Discharge Penis Red

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Males: Core Animals**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	SD712	185	02/03/17	03:26	712	102	434.1		Euthanized Moribund	Breathing, rapid; Mass Abdomen 1, Large (>15mm), Right, Scabbed; Thin
	SD716	153	02/07/17	07:26	716	103	310.0		Euthanized Moribund	Breathing, labored; Lethargic; Mass Thorax 1, Medium (6-15mm), Right; Thin
	SD730	166	02/21/17	08:19	730	105	491.8		Scheduled Removal (Terminal)	Normal
	SD730	173	02/21/17	08:29	730	105	445.0		Scheduled Removal (Terminal)	Normal
	SD730	178	02/21/17	08:17	730	105	428.0		Scheduled Removal (Terminal)	Normal
	SD730	180	02/21/17	08:19	730	105	438.2		Scheduled Removal (Terminal)	Normal
	SD730	191	02/21/17	08:09	730	105	502.7		Scheduled Removal (Terminal)	Normal
	SD730	195	02/21/17	08:36	730	105	545.2		Scheduled Removal (Terminal)	Mass Hind Limb 1, Right, Small (1-5mm)
	SD731	157	02/22/17	07:50	731	105	410.2		Scheduled Removal (Terminal)	Normal
	SD731	159	02/22/17	08:19	731	105	576.7		Scheduled Removal (Terminal)	Normal
	SD731	161	02/22/17	07:58	731	105	478.2		Scheduled Removal (Terminal)	Normal
	SD731	162	02/22/17	08:04	731	105	531.9		Scheduled Removal (Terminal)	Mass Thorax 1, Large (>15mm), Left
	SD731	189	02/22/17	07:56	731	105	514.7		Scheduled Removal (Terminal)	Mass Head 1, Left, Small (1-5mm); Scab Dorsum Bilateral
	SD731	190	02/22/17	07:43	731	105	556.0		Scheduled Removal (Terminal)	Normal
	SD731	196	02/22/17	07:39	731	105	390.7		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm); Mass Ear 1, Left, Small (1-5mm)
	SD731	197	02/22/17	08:37	731	105	374.8		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Right; Mass Thorax 1, Large (>15mm), Left

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Females: Core Animals**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
0	SD429	241	04/26/16	08:12	429	62	204.1		Euthanized Moribund	Coat Ruffled; Dehydrated; Hunched; Lethargic; Thin
	SD430	238	04/27/16	02:42	430	62	293.7		Found Dead	Discharge Nose/Snout Red
	SD435	217	05/02/16	02:40	435	63	339.0		Found Dead	Normal
	SD484	226	06/20/16	07:20	484	70	269.3		Euthanized Moribund	Discharge Urogenital Red; Lethargic
	SD512	215	07/18/16	03:26	512	74	293.7		Euthanized Moribund	Hunched; Mass Abdomen Left; Pale
	SD512	231	07/18/16	03:27	512	74	248.1		Euthanized Moribund	
	SD513	216	07/19/16	07:28	513	74	289.8		Euthanized Moribund	Discharge Eye Red; Lethargic
	SD562	221	09/06/16	03:16	562	81	194.1		Euthanized Moribund	Coat Ruffled; Hunched; Lethargic; Mass Head Ulcerated; Thin
	SD566	209	09/10/16	07:20	566	81	406.5		Euthanized Moribund	Discharge Nose/Snout Red; Hunched; Lethargic; Mass Fore Limb Right; Pale
	SD599	222	10/13/16	09:53	599	86	314.6		Euthanized Moribund	Mass Abdomen 2, Large (>15mm), Ulcerated; Pale
	SD607	235	10/21/16	07:34	607	87	528.6		Euthanized Moribund	Mass Thorax 1, Large (>15mm), Left; Thin
	SD617	232	10/31/16	03:33	617	89	296.1		Found Dead	Discharge Eye Bilateral, Red; Normal
	SD619	227	11/02/16	08:03	619	89	318.7		Euthanized Moribund	Coat Ruffled; Head Tilt; Hunched; Mass Abdomen 1, Large (>15mm), Right; Thin
	SD619	246	11/02/16	08:06	619	89	312.4		Euthanized Moribund	Coat Ruffled; Hunched; Mass Abdomen 1, Large (>15mm), Right, Ulcerated; Thin
	SD648	207	12/01/16	07:39	648	93	247.2		Euthanized Moribund	Discharge Eye Red; Hunched; Maloccluded/Broken Teeth; Mass Hind Limb 1, Large (>15mm), Right; Scab Face Bilateral; Thin
	SD658	219	12/11/16	02:25	658	94	230.6		Euthanized Moribund	Coat Ruffled; Discharge Vagina Red; Lethargic; Thin

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Females: Core Animals**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	SD676	206	12/29/16	06:58	676	97	227.7		Euthanized Moribund	Discharge Eye Red; Discharge Nose/Snout Red; Hunched; Mass Thorax 2, Bilateral, Large (>15mm); Thin
	SD677	218R	12/30/16	07:38	677	97	547.8		Found Dead	Discharge Eye Red; Discharge Nose/Snout Red; Mass Hind Limb 1, Large (>15mm), Left
	SD690	203	01/12/17	07:36	690	99	331.8		Euthanized Moribund	Mass Abdomen 2, Bilateral, Medium (6-15mm)
	SD696	244	01/18/17	02:50	696	100	204.5		Found Dead	Discharge Nose/Snout Brown
	SD699	208	01/21/17	10:05	699	100	335.1		Found Dead	Mass Abdomen 1, Large (>15mm), Left
	SD701	239	01/23/17	07:17	701	101	274.0		Found Dead	Mass Fore Limb 1, Left, Medium (6-15mm)
	SD731	201	02/22/17	09:34	731	105	322.8		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Right
	SD731	202	02/22/17	09:02	731	105	295.0		Scheduled Removal (Terminal)	Normal
	SD731	205	02/22/17	09:44	731	105	298.5		Scheduled Removal (Terminal)	Normal
	SD731	211	02/22/17	09:40	731	105	377.5		Scheduled Removal (Terminal)	Mass Fore Limb 1, Large (>15mm), Right
	SD731	225	02/22/17	09:41	731	105	347.5		Scheduled Removal (Terminal)	Normal
	SD731	228	02/22/17	08:56	731	105	306.5		Scheduled Removal (Terminal)	Normal
	SD731	229	02/22/17	09:01	731	105	292.3		Scheduled Removal (Terminal)	Mass Thorax 3, Bilateral, Large (>15mm)
	SD731	230	02/22/17	09:38	731	105	508.2		Scheduled Removal (Terminal)	Mass Abdomen 1, Bilateral, Large (>15mm); Mass Fore Limb 1, Large (>15mm), Right
	SD731	234	02/22/17	09:25	731	105	439.1		Scheduled Removal (Terminal)	Mass Abdomen 1, Bilateral, Large (>15mm)
	SD731	236	02/22/17	09:27	731	105	235.2		Scheduled Removal (Terminal)	Mass Hind Limb 1, Left, Medium (6-15mm)

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Females: Core Animals**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	SD731	237	02/22/17	09:36	731	105	577.1		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Left; Mass Hind Limb 1, Large (>15mm), Left
	SD731	243	02/22/17	09:24	731	105	311.9		Scheduled Removal (Terminal)	Normal
	SD731	248	02/22/17	07:16	731	105	312.7		Found Dead	Mass Abdomen 1, Large (>15mm), Left
	SD731	249	02/22/17	09:28	731	105	294.7		Scheduled Removal (Terminal)	Mass Abdomen 1, Bilateral, Large (>15mm)
	SD731	250	02/22/17	09:19	731	105	549.2		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Left
	SD732	204	02/23/17	08:44	732	105	266.2		Scheduled Removal (Terminal)	Normal
	SD732	210	02/23/17	08:20	732	105	485.1		Scheduled Removal (Terminal)	Mass Hind Limb 1, Large (>15mm), Left
	SD732	212	02/23/17	08:03	732	105	273.5		Scheduled Removal (Terminal)	Normal
	SD732	213	02/23/17	08:15	732	105	311.8		Scheduled Removal (Terminal)	Normal
	SD732	214	02/23/17	08:48	732	105	424.5		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Right
	SD732	220	02/23/17	08:13	732	105	341.6		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Right
	SD732	223	02/23/17	08:00	732	105	437.2		Scheduled Removal (Terminal)	Mass Abdomen 2, Large (>15mm), Right
	SD732	224	02/23/17	08:03	732	105	308.7		Scheduled Removal (Terminal)	Mass Thorax 1, Left, Small (1-5mm)
	SD732	233	02/23/17	08:41	732	105	345.5		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Left
	SD732	240	02/23/17	08:22	732	105	322.3		Scheduled Removal (Terminal)	Mass Fore Limb 1, Large (>15mm), Left
	SD732	242	02/23/17	07:57	732	105	365.4		Scheduled Removal (Terminal)	Mass Thorax 1, Large (>15mm), Right
	SD732	245	02/23/17	08:01	732	105	298.2		Scheduled Removal (Terminal)	Normal

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Females: Core Animals**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
50	SD732	247	02/23/17	07:54	732	105	288.9		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Left
	SD208	260	09/18/15	05:15	208	30	277.4		Euthanized Moribund	Hunched; Limping Fore Paw, Severe
	SD387	277	03/15/16	07:29	387	56	258.1		Found Dead	Normal
	SD390	294	03/18/16	07:29	390	56	285.3		Found Dead	Discharge Vagina Red
	SD442	271	05/09/16	08:00	442	64	294.8		Euthanized Moribund	Distended Abdomen; Lethargic; Wet Urogenital
	SD449	290	05/16/16	07:28	449	65	322.0		Found Dead	Mass Abdomen Right
	SD491	265	06/27/16	02:51	491	71	288.8		Found Dead	Discharge Vagina Red; Mass Abdomen Left
	SD504	264	07/10/16	07:44	504	72	247.0		Found Dead	Discharge Vagina Red
	SD506	269	07/12/16	07:25	506	73	258.6		Euthanized Moribund	Head Tilt; Hunched; Lethargic
	SD512	266	07/18/16	03:29	512	74	524.4		Euthanized Moribund	Discharge Vagina Yellow; Mass Fore Limb Bilateral
	SD517	300	07/23/16	07:06	517	74	253.1		Found Dead	Discharge Vagina Red
	SD522	253	07/28/16	02:48	522	75	373.2		Euthanized Moribund	Lethargic; Mass Abdomen Left; Mass Thorax; Pale
	SD522	273	07/28/16	02:51	522	75	272.4		Euthanized Moribund	Discharge Vagina Brown; Hunched; Lethargic; Thin
	SD543	289	08/18/16	03:11	543	78	258.9		Found Dead	Discharge Vagina Red; Wound Multiple Sites (>3) Bilateral
	SD544	251	08/19/16	07:21	544	78	780.6		Euthanized Moribund	Coat Ruffled; Mass Abdomen Right; Pale
	SD544	282	08/19/16	07:25	544	78	351.8		Euthanized Moribund	Coat Ruffled; Lethargic; Mass Head 1, Medium (6-15mm), Right; Pale
	SD555	263	08/30/16	02:58	555	80	313.1		Euthanized Moribund	Lethargic; Mass Abdomen Left; Pale; Thin
	SD555	267	08/30/16	07:30	555	80	265.4		Found Dead	Discharge Eye Red; Discharge Vagina Red
	SD574	280	09/18/16	07:36	574	82	305.2		Found Dead	Normal
	SD583	255	09/27/16	07:36	583	84	318.9		Euthanized Moribund	Distended Abdomen; Pale; Thin
	SD612	292	10/26/16	02:22	612	88	302.6		Euthanized Moribund	Swelling Hind Limb Right

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Females: Core Animals**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	SD626	270	11/09/16	07:23	626	90	271.2		Found Dead	Discharge Vagina Red; Mass Hind Limb 1, Large (>15mm), Left; Thin
	SD630	281	11/13/16	02:35	630	90	333.2		Found Dead	Mass Abdomen 1, Large (>15mm), Left
	SD639	287	11/22/16	07:47	639	92	352.4		Found Dead	Mass Abdomen 1, Left, Medium (6-15mm); Mass Hind Limb 1, Large (>15mm), Left
	SD640	252	11/23/16	02:31	640	92	262.2		Found Dead	Normal
	SD667	298	12/20/16	07:38	667	96	217.1		Euthanized Moribund	Hunched; Lethargic; Mass Abdomen 2, Large (>15mm); Thin
	SD675	276	12/28/16	07:15	675	97	461.0		Found Dead	Mass Abdomen 1, Large (>15mm), Left, Scabbed; Mass Hind Limb 1, Large (>15mm), Right, Scabbed; Thin
	SD681	297	01/03/17	07:37	681	98	540.5		Euthanized Moribund	Mass Hind Limb 1, Large (>15mm), Right; Thin
	SD682	295	01/04/17	02:19	682	98	276.2		Found Dead	Discharge Urogenital Brown; Mass Abdomen 1, Large (>15mm), Right
	SD688	254	01/10/17	07:39	688	99	257.7		Euthanized Moribund	Discharge Eye Red; Lethargic; Mass Head 1, Right, Small (1-5mm); Mass Thorax 1, Right, Small (1-5mm)
	SD688	257	01/10/17	07:34	688	99	673.6		Euthanized Moribund	Mass Abdomen 3, Large (>15mm), Left
	SD698	285	01/20/17	06:55	698	100	349.0		Found Dead	Mass Abdomen 2, Bilateral, Large (>15mm), Ulcerated
	SD703	259	01/25/17	03:05	703	101	482.9		Euthanized Moribund	Mass Thorax 1, Large (>15mm), Left, Ulcerated; Thin
	SD712	278	02/03/17	03:28	712	102	489.7		Found Dead	Mass Abdomen 1, Large (>15mm), Left; Thin
	SD713	272	02/04/17	08:20	713	102	180.1		Found Dead	Maloccluded/Broken Teeth; Mass Fore Limb 1, Medium (6-15mm), Right; Thin
	SD719	299	02/10/17	07:07	719	103	495.3		Found Dead	Mass Abdomen 1, Large (>15mm), Right, Ulcerated

Study Number: C20302B-03

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Rat/Harlan Sprague Dawley

I02: Animal Removals: Chronological Description

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Date Report Requested: 03/08/2023

Time Report Requested: 15:42:58

Lab: Battelle

Females: Core Animals

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
100	SD731	256	02/22/17	09:42	731	105	324.6		Scheduled Removal (Terminal)	Normal
	SD731	258	02/22/17	08:54	731	105	284.0		Scheduled Removal (Terminal)	Normal
	SD731	261	02/22/17	09:39	731	105	291.3		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Left
	SD731	274	02/22/17	08:39	731	105	317.9		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Right
	SD731	279	02/22/17	09:23	731	105	360.3		Scheduled Removal (Terminal)	Normal
	SD731	286	02/22/17	09:46	731	105	421.7		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Left; Mass Fore Limb 1, Large (>15mm), Left
	SD731	288	02/22/17	09:06	731	105	424.8		Scheduled Removal (Terminal)	Mass Abdomen 2, Bilateral, Large (>15mm); Mass Head 1, Large (>15mm), Right
	SD732	262	02/23/17	08:42	732	105	402.7		Scheduled Removal (Terminal)	Mass Thorax 1, Large (>15mm), Right
	SD732	268	02/23/17	08:18	732	105	299.1		Scheduled Removal (Terminal)	Normal
	SD732	275	02/23/17	08:36	732	105	322.6		Scheduled Removal (Terminal)	Normal
	SD732	283	02/23/17	07:50	732	105	326.2		Scheduled Removal (Terminal)	Digit Missing Hind Paw Right; Mass Thorax 1, Large (>15mm), Left
	SD732	284	02/23/17	07:52	732	105	314.0		Scheduled Removal (Terminal)	Maloccluded/Broken Teeth
	SD732	291	02/23/17	08:08	732	105	430.0		Scheduled Removal (Terminal)	Maloccluded/Broken Teeth; Mass Abdomen 1, Bilateral, Large (>15mm); Swelling Hind Limb Left
	SD732	293	02/23/17	08:05	732	105	352.6		Scheduled Removal (Terminal)	Mass Thorax 1, Medium (6-15mm), Right
	SD732	296	02/23/17	08:35	732	105	364.3		Scheduled Removal (Terminal)	Normal
	SD264	307	11/13/15	07:06	264	38	278.1		Found Dead	Mass Hind Limb Right

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Females: Core Animals**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	SD295	321	12/14/15	08:44	295	43	291.5		Euthanized Moribund	Mass Head Bilateral; Pale
	SD382	340	03/10/16	07:24	382	55	237.6		Found Dead	Discharge Nose/Snout Red; Discharge Vagina Red; Mass Fore Limb Right
	SD393	311	03/21/16	07:46	393	57	235.0		Found Dead	Mass Abdomen Right
	SD393	315	03/21/16	03:43	393	57	288.3		Euthanized Moribund	Mass Abdomen Firm
	SD422	333	04/19/16	02:54	422	61	490.9		Euthanized Moribund	Coat Ruffled; Mass Hind Limb Right; Thin
	SD436	309	05/03/16	07:33	436	63	275.8		Found Dead	Mass Abdomen Firm
	SD449	316	05/16/16	07:36	449	65	156.4		Found Dead	Discharge Eye Red; Maloccluded/Broken Teeth
	SD459	342	05/26/16	02:41	459	66	317.6		Found Dead	Normal
	SD476	347	06/12/16	10:00	476	68	275.3		Found Dead	Discharge Vagina Red
	SD479	344	06/15/16	09:11	479	69	269.9		Euthanized Moribund	Maloccluded/Broken Teeth; Mass Abdomen Soft; Pale; Wound Abdomen Right
	SD487	328	06/23/16	08:01	487	70	330.3		Found Dead	Discharge Vagina Red
	SD505	306	07/11/16	07:16	505	73	323.4		Found Dead	Discharge Vagina Red
	SD516	310	07/22/16	03:59	516	74	241.4		Euthanized Moribund	Coat Ruffled; Discharge Vagina Red; Lethargic; Pale
	SD521	326	07/27/16	03:24	521	75	198.9		Euthanized Moribund	Coat Ruffled; Discharge Eye Red; Discharge Nose/Snout Red; Discharge Vagina Red; Thin
	SD528	322	08/03/16	07:27	528	76	317.2		Euthanized Moribund	Mass Thorax Right; Pale
	SD532	318	08/07/16	07:24	532	76	413.1		Found Dead	Mass Abdomen Ulcerated
	SD544	319	08/19/16	07:27	544	78	568.9		Euthanized Moribund	Coat Ruffled; Mass Abdomen Right; Mass Fore Limb Left; Pale
	SD544	346	08/19/16	07:29	544	78	568.9		Euthanized Moribund	Breathing, labored; Coat Ruffled; Discharge Eye Bilateral, Red; Mass Fore Limb Right; Pale
	SD551	348	08/26/16	07:17	551	79	268.6		Euthanized Moribund	Discharge Vagina Red; Hunched; Pale
	SD572	317	09/16/16	04:12	572	82	380.6		Euthanized Moribund	Mass Thorax Left

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Females: Core Animals**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	SD572	336	09/16/16	07:44	572	82	372.6		Euthanized Moribund	Coat Ruffled; Discharge Eye Bilateral, Red; Hunched; Lethargic; Mass Fore Limb 1, Medium (6-15mm); Mass Hind Limb 2, Large (>15mm); Pale; Thin
	SD584	335	09/28/16	07:06	584	84	664.4		Found Dead	Mass Hind Limb Right; Mass Thorax Left
	SD585	339	09/29/16	07:38	585	84	487.2		Euthanized Moribund	Coat Soiled Anus; Mass Fore Limb Bilateral; Pale; Thin
	SD592	332	10/06/16	07:20	592	85	375.2		Found Dead	Discharge Vagina Red; Mass Abdomen 1, Large (>15mm), Left
	SD601	323	10/15/16	08:21	601	86	390.9		Euthanized Moribund	Breathing, labored; Lethargic; Wet Urogenital
	SD614	324	10/28/16	02:49	614	88	397.6		Euthanized Moribund	Mass Fore Limb 1, Large (>15mm), Right
	SD614	329	10/28/16	02:50	614	88	640.9		Euthanized Moribund	Mass Abdomen 1, Large (>15mm), Right
	SD635	350	11/18/16	03:07	635	91	645.0		Euthanized Moribund	Lethargic; Mass Abdomen 1, Large (>15mm), Right; Pale; Thin
	SD645	345	11/28/16	08:00	645	93	560.2		Euthanized Moribund	Mass Abdomen 1, Large (>15mm), Right; Mass Fore Limb 1, Large (>15mm), Left
	SD648	349	12/01/16	07:29	648	93	301.1		Found Dead	Normal
	SD659	301	12/12/16	03:08	659	95	242.3		Euthanized Moribund	Discharge Eye Red; Lethargic; Mass Abdomen 1, Medium (6-15mm), Right; Mass Thorax 2, Large (>15mm), Right; Thin
	SD671	308	12/24/16	09:35	671	96	400.9		Found Dead	Mass Fore Limb 2, Large (>15mm), Right
	SD691	325	01/13/17	07:14	691	99	229.8		Euthanized Moribund	Discharge Eye Red; Lethargic; Thin
	SD702	341	01/24/17	07:55	702	101	205.6		Euthanized Moribund	Coat Ruffled; Eye Abnormality Right; Mass Fore Limb 1, Large (>15mm), Right, Ulcerated; Pale; Thin

Study Number: C20302B-03

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Rat/Harlan Sprague Dawley

I02: Animal Removals: Chronological Description

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Date Report Requested: 03/08/2023

Time Report Requested: 15:42:58

Lab: Battelle

Females: Core Animals

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
200	SD708	337	01/30/17	07:13	708	102	637.8		Euthanized Moribund	Mass Hind Limb 2, Large (>15mm), Right, Ulcerated
	SD717	327	02/08/17	07:35	717	103	317.8		Found Dead	Discharge Eye Bilateral, Red; Mass Abdomen 2, Bilateral, Large (>15mm)
	SD731	303	02/22/17	09:31	731	105	401.3		Scheduled Removal (Terminal)	Mass Abdomen 1, Bilateral, Large (>15mm); Mass Thorax 1, Large (>15mm), Left
	SD731	312	02/22/17	09:09	731	105	349.5		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Right; Mass Thorax 1, Large (>15mm), Left
	SD731	320	02/22/17	09:50	731	105	449.3		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Left; Mass Thorax 2, Large (>15mm), Right
	SD731	330	02/22/17	09:00	731	105	303.0		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Left
	SD731	331	02/22/17	09:33	731	105	367.8		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Right
	SD731	343	02/22/17	09:43	731	105	368.2		Scheduled Removal (Terminal)	Normal
	SD732	302	02/23/17	08:17	732	105	403.2		Scheduled Removal (Terminal)	Mass Hind Limb 1, Large (>15mm), Left
	SD732	304	02/23/17	08:51	732	105	293.1		Scheduled Removal (Terminal)	Discharge Vagina Red
	SD732	305	02/23/17	08:39	732	105	518.9		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Right; Mass Thorax 1, Large (>15mm), Left
	SD732	313	02/23/17	08:34	732	105	404.0		Scheduled Removal (Terminal)	Mass Hind Limb 1, Large (>15mm), Right
	SD732	314	02/23/17	08:37	732	105	334.2		Scheduled Removal (Terminal)	Normal
	SD732	334	02/23/17	07:51	732	105	322.1		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Right
	SD732	338	02/23/17	07:58	732	105	278.2		Scheduled Removal (Terminal)	Normal
	SD11	385	03/05/15	08:38	11	2	126.2		Found Dead	Normal

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Females: Core Animals**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	SD250	365	10/30/15	02:55	250	36	270.4		Euthanized Moribund	Coat Ruffled; Mass Dorsum Left; Thin
	SD257	352	11/06/15	07:51	257	37	270.6		Found Dead	Mass Abdomen Left; Missing Fore Paw
	SD262	358	11/11/15	02:44	262	38	278.7		Found Dead	Discharge Vagina Red; Mass Abdomen Right
	SD318	394	01/06/16	08:49	318	46	277.4		Euthanized Moribund	Mass Fore Limb Left
	SD340	363	01/28/16	08:46	340	49	247.2		Euthanized Moribund	Eye Abnormality Right; Mass Fore Limb Left
	SD341	360	01/29/16	04:00	341	49	251.2		Found Dead	Mass Fore Limb Right
	SD352	354	02/09/16	03:10	352	51	320.1		Found Dead	Discharge Nose/Snout Red; Mass Fore Limb Left
	SD354	361	02/11/16	07:13	354	51	252.4		Found Dead	Mass Abdomen Soft
	SD365	400	02/22/16	07:44	365	53	238.8		Found Dead	Mass Fore Limb Right
	SD374	377	03/02/16	07:45	374	54	303.3		Found Dead	Mass Abdomen Soft
	SD382	367	03/10/16	07:27	382	55	221.6		Found Dead	Mass Abdomen Right
	SD383	375	03/11/16	03:21	383	55	207.9		Euthanized Moribund	Discharge Vagina Red; Lethargic; Pale; Thin
	SD393	355	03/21/16	03:44	393	57	265.0		Euthanized Moribund	Mass Hind Limb
	SD422	369	04/19/16	02:56	422	61	222.8		Euthanized Moribund	Discharge Vagina Red
	SD436	353	05/03/16	07:37	436	63	237.8		Euthanized Moribund	Lethargic; Mass Abdomen Ulcerated; Pale
	SD436	357	05/03/16	07:41	436	63	326.4		Euthanized Moribund	Coat Ruffled; Mass Fore Limb Right; Pale
	SD460	379	05/27/16	07:58	460	66	294.5		Euthanized Moribund	Discharge Vagina Red; Lethargic; Mass Fore Limb Left; Pale; Thin
	SD460	383	05/27/16	08:14	460	66	283.0		Euthanized Moribund	Coat Ruffled; Discharge Vagina Red; Pale; Thin
	SD460	389	05/27/16	08:07	460	66	246.0		Euthanized Moribund	Discharge Eye Red; Lethargic; Mass Abdomen Right; Stained Abdomen Yellow
	SD469	359	06/05/16	02:32	469	67	405.4		Found Dead	Mass Abdomen Soft
	SD472	395	06/08/16	08:51	472	68	277.0		Found Dead	Discharge Eye Red

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Females: Core Animals**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	SD480	398	06/16/16	02:56	480	69	254.1		Euthanized Moribund	Discharge Nose/Snout Red; Discharge Vagina Brown; Hypoactivity; Mass Fore Limb Left; Pale; Thin
	SD488	366	06/24/16	03:28	488	70	254.8		Euthanized Moribund	Discharge Vagina Red; Hypoactivity; Pale
	SD488	371	06/24/16	03:29	488	70	442.4		Euthanized Moribund	Mass Hind Limb Right; Pale; Thin
	SD488	392	06/24/16	03:24	488	70	406.3		Euthanized Moribund	Discharge Vagina Brown; Mass Fore Limb Right; Pale; Thin
	SD493	373	06/29/16	09:01	493	71	257.5		Found Dead	Bruising Abdomen; Discharge Nose/Snout Brown
	SD503	368	07/09/16	09:52	503	72	317.3		Euthanized Moribund	Lethargic; Mass Thorax Right; Pale
	SD515	390	07/21/16	07:23	515	74	369.2		Euthanized Moribund	Discharge Eye Red; Lethargic; Mass Abdomen Right
	SD516	384	07/22/16	04:01	516	74	249.5		Euthanized Moribund	Coat Ruffled; Discharge Vagina Red; Lethargic; Mass Abdomen Right; Pale
	SD522	372	07/28/16	03:01	522	75	263.5		Euthanized Moribund	Coat Ruffled; Lethargic; Mass Fore Limb Left; Pale; Thin; Tremors, Mild
	SD529	396	08/04/16	07:47	529	76	232.3		Euthanized Moribund	Discharge Vagina Red; Lethargic; Pale; Twitches, Mild
	SD562	397	09/06/16	07:27	562	81	323.3		Euthanized Moribund	Discharge Eye Red; Hunched; Lethargic; Mass Thorax Left
	SD571	380	09/15/16	02:35	571	82	451.6		Found Dead	
	SD590	388	10/04/16	02:56	590	85	543.8		Euthanized Moribund	Mass Fore Limb 2, Bilateral, Large (>15mm); Thin
	SD593	391	10/07/16	02:48	593	85	501.7		Euthanized Moribund	Mass Abdomen 1, Large (>15mm), Right, Ulcerated; Pale; Thin
	SD606	386	10/20/16	07:18	606	87	219.8		Euthanized Moribund	Hunched; Lethargic; Mass Hind Limb 1, Large (>15mm), Ulcerated; Pale; Thin

Study Number: C20302B-03

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Rat/Harlan Sprague Dawley

I02: Animal Removals: Chronological Description

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Date Report Requested: 03/08/2023

Time Report Requested: 15:42:58

Lab: Battelle

Females: Core Animals

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	SD607	374	10/21/16	07:37	607	87	420.8		Euthanized Moribund	Coat Soiled Anus Bilateral; Mass Abdomen 1, Bilateral, Large (>15mm); Mass Hind Limb 1, Large (>15mm), Left; Thin
	SD614	370	10/28/16	02:52	614	88	578.8		Euthanized Moribund	Mass Fore Limb 1, Bilateral, Large (>15mm); Mass Hind Limb 3, Bilateral, Large (>15mm)
	SD626	378	11/09/16	02:32	626	90	288.7		Found Dead	Damaged Tail; Mass Thorax 1, Large (>15mm), Left, Ulcerated
	SD628	387	11/11/16	07:31	628	90	234.9		Found Dead	Discharge Eye Red; Discharge Nose/Snout Brown
	SD653	362	12/06/16	07:34	653	94	348.5		Found Dead	Discharge Vagina Brown; Mass Abdomen 1, Large (>15mm), Right, Ulcerated; Mass Fore Paw 1, Large (>15mm), Left; Mass Thorax 1, Large (>15mm), Right
	SD667	399	12/20/16	02:58	667	96	280.0		Euthanized Moribund	Coat Ruffled; Discharge Eye Bilateral, Red; Discharge Nose/Snout Red; Discharge Urogenital Brown; Mass Abdomen 1, Medium (6-15mm), Ulcerated
	SD674	381	12/27/16	02:52	674	97	572.4		Euthanized Moribund	Mass Hind Limb 1, Large (>15mm), Left; Mass Thorax 1, Large (>15mm), Right, Ulcerated; Thin
	SD690	356	01/12/17	07:42	690	99	485.9		Found Dead	Discharge Eye Red; Mass Abdomen 1, Large (>15mm), Right; Thin
	SD731	351	02/22/17	09:18	731	105	396.2		Scheduled Removal (Terminal)	Mass Abdomen 2, Bilateral, Large (>15mm)
	SD731	364	02/22/17	09:47	731	105	314.7		Scheduled Removal (Terminal)	Mass Hind Limb Large (>15mm), Left
	SD731	376	02/22/17	08:59	731	105	276.8		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Right; Mass Thorax 1, Large (>15mm), Left
	SD731	382	02/22/17	09:22	731	105	309.1		Scheduled Removal (Terminal)	Mass Abdomen 1, Firm, Large (>15mm), Right; Mass Head 2, Bilateral, Large (>15mm)

Females: Core Animals										
Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	SD731	393	02/22/17	08:53	731	105	265.6		Scheduled Removal (Terminal)	Mass Abdomen 1, Large (>15mm), Right; Mass Thorax 1, Large (>15mm), Left

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Females: Naïve Females**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
0	SD16	515	06/09/15	08:34	16	3	257.8		Scheduled Removal (Terminal)	Normal
	SD17	511	06/10/15	07:59	17	3	264.7		Scheduled Removal (Terminal)	Normal
	SD29	503	06/22/15	07:14	29	5	246.6		Scheduled Removal (Terminal)	Normal
	SD29	513	06/22/15	07:15	29	5	286.2		Euthanized, Sponsor Request (not moribund)	Normal
	SD29	516	06/22/15	07:17	29	5	217.3		Euthanized, Sponsor Request (not moribund)	Discharge Nose/Snout Red
	SD29	519	06/22/15	07:17	29	5	304.0		Euthanized, Sponsor Request (not moribund)	Normal
	GD14	501	06/17/15	06:19	14	2	300.5		Scheduled Removal (Terminal)	Normal
	GD14	502	06/16/15	06:34	14	2	299.4		Scheduled Removal (Terminal)	Normal
	GD14	504	06/11/15	07:07	14	2	279.4		Scheduled Removal (Terminal)	Normal
	GD14	506	06/09/15	08:21	14	2	282.8		Scheduled Removal (Terminal)	Normal
	GD14	507	06/10/15	07:50	14	2	285.4		Scheduled Removal (Terminal)	Normal
	GD14	508	06/22/15	07:14	14	2	301.5		Scheduled Removal (Terminal)	Normal
	GD14	509	06/11/15	07:10	14	2	298.5		Scheduled Removal (Terminal)	Normal
	GD14	510	06/09/15	08:26	14	2	287.3		Scheduled Removal (Terminal)	Normal
	GD14	512	06/09/15	08:31	14	2	291.2		Scheduled Removal (Terminal)	Normal
	GD14	514	06/13/15	07:24	14	2	267.6		Scheduled Removal (Terminal)	Normal
	GD14	517	06/11/15	07:12	14	2	278.8		Scheduled Removal (Terminal)	Normal

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Females: Naive Females**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
100	GD14	518	06/09/15	08:38	14	2	284.3		Scheduled Removal (Terminal)	Normal
	GD14	520	06/12/15	07:03	14	2	293.2		Scheduled Removal (Terminal)	Normal
	GD14	521	06/09/15	08:40	14	2	275.1		Scheduled Removal (Terminal)	Normal
	GD14	522	06/13/15	07:27	14	2	290.2		Scheduled Removal (Terminal)	Normal
	GD14	523	06/13/15	07:30	14	2	270.2		Scheduled Removal (Terminal)	Normal
	GD14	524	06/17/15	06:20	14	2	290.2		Scheduled Removal (Terminal)	Normal
	GD14	525	06/09/15	08:42	14	2	274.3		Scheduled Removal (Terminal)	Normal
	LD0	505	06/22/15	07:14	0	0	273.3		Euthanized, Sponsor Request (not moribund)	Normal
	SD17	541	06/10/15	08:05	17	3	264.7		Scheduled Removal (Terminal)	Normal
	SD19	544	06/12/15	07:04	19	3	235.9		Scheduled Removal (Terminal)	Normal
	SD20	526	06/13/15	07:25	20	3	210.0		Scheduled Removal (Terminal)	Normal
	SD20	550	06/13/15	07:35	20	3	275.7		Scheduled Removal (Terminal)	Normal
	SD21	547	06/14/15	06:08	21	3	240.9		Scheduled Removal (Terminal)	Normal
	SD29	528	06/22/15	07:18	29	5	372.5		Scheduled Removal (Terminal)	Normal
	GD14	527	06/11/15	07:08	14	2	277.3		Scheduled Removal (Terminal)	Normal
	GD14	529	06/10/15	07:52	14	2	227.0		Scheduled Removal (Terminal)	Discharge Nose/Snout Red
	GD14	531	06/13/15	07:28	14	2	299.0		Scheduled Removal (Terminal)	Normal

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Females: Naive Females**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	GD14	532	06/13/15	07:31	14	2	289.8		Scheduled Removal (Terminal)	Normal
	GD14	533	06/11/15	07:11	14	2	273.6		Scheduled Removal (Terminal)	Normal
	GD14	534	06/11/15	07:13	14	2	280.4		Scheduled Removal (Terminal)	Normal
	GD14	535	06/10/15	08:00	14	2	308.6		Scheduled Removal (Terminal)	Normal
	GD14	536	06/10/15	08:03	14	2	286.9		Scheduled Removal (Terminal)	Normal
	GD14	537	06/11/15	07:16	14	2	281.5		Scheduled Removal (Terminal)	Normal
	GD14	539	06/11/15	07:18	14	2	290.5		Scheduled Removal (Terminal)	Normal
	GD14	540R	06/09/15	08:22	14	2	286.4		Scheduled Removal (Terminal)	Normal
	GD14	542	06/13/15	07:34	14	2	299.1		Scheduled Removal (Terminal)	Normal
	GD14	543	06/09/15	08:27	14	2	276.0		Scheduled Removal (Terminal)	Normal
	GD14	545	06/11/15	07:19	14	2	261.0		Scheduled Removal (Terminal)	Normal
	GD14	546	06/10/15	08:07	14	2	288.6		Scheduled Removal (Terminal)	Normal
	GD14	548	06/11/15	07:21	14	2	265.5		Scheduled Removal (Terminal)	Normal
	GD14	549	06/11/15	07:22	14	2	235.6		Scheduled Removal (Terminal)	Normal
	LD0	530	06/22/15	07:18	0	0	268.7		Euthanized, Sponsor Request (not moribund)	Normal
	LD0	538	06/22/15	07:20	0	0	256.5		Euthanized, Sponsor Request (not moribund)	Normal
200	SD18	561	06/11/15	07:11	18	3	222.3		Scheduled Removal (Terminal)	Normal

Study Number: C20302B-03**Test Type:** TOX**Route:** Whole-Body Inhalation**Species/Strain:** Rat/Harlan Sprague Dawley**I02: Animal Removals: Chronological Description****Test Compound:** alpha-Pinene**CAS Number:** 80-56-8**Date Report Requested:** 03/08/2023**Time Report Requested:** 15:42:58**Lab:** Battelle**Females: Naive Females**

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	SD29	558	06/22/15	07:21	29	5	257.2		Scheduled Removal (Terminal)	Normal
	SD29	559	06/22/15	07:21	29	5	283.5		Euthanized, Sponsor Request (not moribund)	Normal
	GD14	551	06/09/15	08:24	14	2	268.5		Scheduled Removal (Terminal)	Normal
	GD14	552	06/10/15	07:53	14	2	279.8		Scheduled Removal (Terminal)	Normal
	GD14	553	06/13/15	07:25	14	2	282.2		Scheduled Removal (Terminal)	Normal
	GD14	554	06/11/15	07:08	14	2	271.6		Scheduled Removal (Terminal)	Normal
	GD14	555	06/16/15	06:35	14	2	277.0		Scheduled Removal (Terminal)	Normal
	GD14	556	06/14/15	06:10	14	2	305.5		Scheduled Removal (Terminal)	Normal
	GD14	557	06/10/15	08:01	14	2	309.9		Scheduled Removal (Terminal)	Normal
	GD14	560	06/10/15	08:04	14	2	287.3		Scheduled Removal (Terminal)	Normal
	GD14	562	06/10/15	08:06	14	2	286.2		Scheduled Removal (Terminal)	Normal
	GD14	563	06/09/15	08:28	14	2	293.4		Scheduled Removal (Terminal)	Normal
	GD14	564	06/11/15	07:15	14	2	287.9		Scheduled Removal (Terminal)	Normal
	GD14	565	06/10/15	08:08	14	2	299.4		Scheduled Removal (Terminal)	Normal
	GD14	566	06/12/15	07:06	14	2	288.1		Scheduled Removal (Terminal)	Normal
	GD14	567	06/13/15	07:29	14	2	281.8		Scheduled Removal (Terminal)	Normal
	GD14	568	06/10/15	08:09	14	2	292.8		Scheduled Removal (Terminal)	Normal

Study Number: C20302B-03

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Rat/Harlan Sprague Dawley

I02: Animal Removals: Chronological Description

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Date Report Requested: 03/08/2023

Time Report Requested: 15:42:58

Lab: Battelle

Females: Naive Females

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
400	GD14	569	06/11/15	07:16	14	2	278.6		Scheduled Removal (Terminal)	Normal
	GD14	570	06/10/15	08:10	14	2	287.0		Scheduled Removal (Terminal)	Normal
	GD14	571	06/13/15	07:32	14	2	255.2		Scheduled Removal (Terminal)	Normal
	GD14	572	06/09/15	08:32	14	2	270.7		Scheduled Removal (Terminal)	Normal
	GD14	573	06/13/15	07:34	14	2	285.7		Scheduled Removal (Terminal)	Normal
	GD14	574	06/10/15	08:11	14	2	294.8		Scheduled Removal (Terminal)	Normal
	GD14	575	06/09/15	08:35	14	2	287.3		Scheduled Removal (Terminal)	Normal
	SD16	584	06/09/15	08:30	16	3	255.2		Scheduled Removal (Terminal)	Normal
	SD17	594	06/10/15	08:02	17	3	249.2		Scheduled Removal (Terminal)	Normal
	SD18	588	06/11/15	07:17	18	3	232.9		Scheduled Removal (Terminal)	Normal
	SD20	585R	06/13/15	07:30	20	3	284.4		Scheduled Removal (Terminal)	Normal
	SD22	582	06/15/15	07:03	22	4	257.2		Scheduled Removal (Terminal)	Normal
	SD29	600	06/22/15	07:23	29	5	395.5		Scheduled Removal (Terminal)	Normal
	GD14	576	06/11/15	07:09	14	2	289.8		Scheduled Removal (Terminal)	Normal
	GD14	577	06/10/15	07:58	14	2	270.1		Scheduled Removal (Terminal)	Normal
	GD14	578	06/11/15	07:12	14	2	289.6		Scheduled Removal (Terminal)	Normal
	GD14	579	06/12/15	07:07	14	2	304.0		Scheduled Removal (Terminal)	Normal

Study Number: C20302B-03

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Rat/Harlan Sprague Dawley

I02: Animal Removals: Chronological Description

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Date Report Requested: 03/08/2023

Time Report Requested: 15:42:58

Lab: Battelle

Females: Naive Females

Treatment Groups (ppm)	Phase Day	Animal ID	Removal Date	Removal Time	Day	Week	Terminal Weight (g)	Removal Wt Status	Removal Reason	Removal Clinical Obs
	GD14	580	06/11/15	07:15	14	2	279.3		Scheduled Removal (Terminal)	Normal
	GD14	581	06/09/15	08:25	14	2	287.2		Scheduled Removal (Terminal)	Normal
	GD14	583	06/13/15	07:26	14	2	269.6		Scheduled Removal (Terminal)	Normal
	GD14	586	06/16/15	06:36	14	2	274.4		Scheduled Removal (Terminal)	Normal
	GD14	587	06/16/15	06:36	14	2	275.9		Scheduled Removal (Terminal)	Normal
	GD14	589	06/13/15	07:33	14	2	286.2		Scheduled Removal (Terminal)	Normal
	GD14	590	06/22/15	07:22	14	2	307.8		Scheduled Removal (Terminal)	Normal
	GD14	591	06/11/15	07:19	14	2	274.3		Scheduled Removal (Terminal)	Normal
	GD14	592	06/16/15	06:38	14	2	293.0		Scheduled Removal (Terminal)	Normal
	GD14	593	06/11/15	07:20	14	2	283.4		Scheduled Removal (Terminal)	Normal
	GD14	595	06/09/15	08:33	14	2	280.3		Scheduled Removal (Terminal)	Normal
	GD14	596	06/09/15	08:37	14	2	286.4		Scheduled Removal (Terminal)	Normal
	GD14	597	06/12/15	07:09	14	2	282.0		Scheduled Removal (Terminal)	Normal
	GD14	598	06/09/15	08:39	14	2	202.6		Scheduled Removal (Terminal)	Normal
	GD14	599R	06/12/15	07:10	14	2	295.3		Scheduled Removal (Terminal)	Normal

Study Number: C20302B-03

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Rat/Harlan Sprague Dawley

I02: Animal Removals: Chronological Description

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Date Report Requested: 03/08/2023

Time Report Requested: 15:42:58

Lab: Battelle

LEGEND

Removal clinical observations reported for day of death or is blank if no clinical observation was recorded on the day of death.

SD – Study Day; GD – Gestation Day; LD – Lactation Day; PND – Postnatal Day, adults post-weaning

"Removal Wt Status" are items noted at time of removal (e.g. exclude weight).

Naive females listed as SD were not pregnant.

NA - Not Available

**** END OF REPORT ****