

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : 169 BRIDGETON PIKE MULICA HILL, NJ # 0800X062

REMINGTON & VERNICK ENGINEERS

2059 Springdale Road

Cherry Hill, NJ - 08003

Phone No: 856-795-9595

ORDER ID : 02505

ATTENTION : Justin Zarzecki



Laboratory Certification ID # 20012



ANALYTICAL RESULTS SUMMARY

PROJECT NAME : 169 BRIDGETON PIKE MULICA HILL, NJ # 0800X062

REMINGTON & VERNICK ENGINEERS

2059 Springdale Road

Cherry Hill, NJ - 08003

Phone No: 856-795-9595

ORDER ID : 02505

ATTENTION : Justin Zarzecki





284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	O2505	OrderDate:	4/26/2023 11:28:25 AM
Client:	Remington & Vernick Engineers	Project:	169 Bridgeton Pike Mullica Hill, NJ # 0800X062
Contact:	Justin Zarzecki	Location:	M11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
02505-04	WO-4	SOIL	SVOC-TCL BNA -20	8270E	04/25/23	05/03/23	05/09/23	04/26/23
02505-05	WO-5	SOIL	SVOC-TCL BNA -20	8270E	04/25/23	05/03/23	05/09/23	04/26/23



**- COVER PAGE -
ANALYSIS DATA PACKAGE**

Client:	<u>Remington & Vernick Engineers</u>					
SDG No.:	<u>O2505</u>	Method Type:	<u>8270E</u>	SOW No.:	<u></u>	
Contract:	<u>REMI02</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>O2505</u>	SAS No.: <u>O2505</u>

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>QC Description</u>
<u>O2505-04</u>	<u>WO-4</u>	<u></u>
<u>O2505-05</u>	<u>WO-5</u>	<u></u>
<u>O2583-04MS</u>	<u>CF-24MS</u>	<u>Matrix Spike</u>
<u>O2583-04MSD</u>	<u>CF-24MSD</u>	<u>Matrix Spike Duplicate</u>
<u>PB152548BL</u>	<u>PB152548BL</u>	<u>Method Blank</u>
<u>PB152548BS</u>	<u>PB152548BS</u>	<u>Laboratory Control Sam</u>

Comments: _____

Signature: _____ **Name:** shreena

Date: _____ **Title:** Analyst



Surrogate Summary

SW-846

SDG No.: O2505

Client: Remington & Vernick Engineers

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
O2505-04	WO-4	2-Fluorophenol	150	62.3	42		30 (18)	130 (112)
		Phenol-d6	150	59.0	39		30 (21)	130 (104)
		Nitrobenzene-d5	100	41.5	41		30 (27)	130 (109)
		2-Fluorobiphenyl	100	51.8	52		30 (30)	130 (103)
		2,4,6-Tribromophenol	150	47.2	31		30 (10)	130 (121)
		Terphenyl-d14	100	40.2	40		30 (21)	130 (107)
O2505-05	WO-5	2-Fluorophenol	150	81.3	54		30 (18)	130 (112)
		Phenol-d6	150	78.7	52		30 (21)	130 (104)
		Nitrobenzene-d5	100	53.4	53		30 (27)	130 (109)
		2-Fluorobiphenyl	100	66.4	66		30 (30)	130 (103)
		2,4,6-Tribromophenol	150	64.5	43		30 (10)	130 (121)
		Terphenyl-d14	100	85.6	86		30 (21)	130 (107)
O2583-04MS	CF-24MS	2-Fluorophenol	150	94.8	63		30 (18)	130 (112)
		Phenol-d6	150	92.8	62		30 (21)	130 (104)
		Nitrobenzene-d5	100	60.0	60		30 (27)	130 (109)
		2-Fluorobiphenyl	100	63.2	63		30 (30)	130 (103)
		2,4,6-Tribromophenol	150	54.0	36		30 (10)	130 (121)
		Terphenyl-d14	100	68.9	69		30 (21)	130 (107)
O2583-04MSD	CF-24MSD	2-Fluorophenol	150	94.4	63		30 (18)	130 (112)
		Phenol-d6	150	92.0	61		30 (21)	130 (104)
		Nitrobenzene-d5	100	59.8	60		30 (27)	130 (109)
		2-Fluorobiphenyl	100	64.0	64		30 (30)	130 (103)
		2,4,6-Tribromophenol	150	59.2	39		30 (10)	130 (121)
		Terphenyl-d14	100	69.8	70		30 (21)	130 (107)
PB152548BL	PB152548BL	2-Fluorophenol	150	119	79		30 (18)	130 (112)
		Phenol-d6	150	116	77		30 (21)	130 (104)
		Nitrobenzene-d5	100	73.4	73		30 (27)	130 (109)
		2-Fluorobiphenyl	100	71.6	72		30 (30)	130 (103)
		2,4,6-Tribromophenol	150	106	71		30 (10)	130 (121)
		Terphenyl-d14	100	67.5	68		30 (21)	130 (107)
PB152548BS	PB152548BS	2-Fluorophenol	150	105	70		30 (18)	130 (112)
		Phenol-d6	150	104	69		30 (21)	130 (104)
		Nitrobenzene-d5	100	69.3	69		30 (27)	130 (109)
		2-Fluorobiphenyl	100	70.9	71		30 (30)	130 (103)
		2,4,6-Tribromophenol	150	102	68		30 (10)	130 (121)
		Terphenyl-d14	100	65.2	65		30 (21)	130 (107)

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: 02505

Client: Remington & Vernick Engineers

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	02583-04MS	Client Sample ID:	CF-24MS					DataFile:	BF133210.D		
Benzaldehyde	2000	0	2400	ug/Kg	120				20 (26)	160 (163)	
Phenol	2000	0	1900	ug/Kg	95				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	2000	0	1900	ug/Kg	95				70 (74)	130 (116)	
2-Chlorophenol	2000	0	2100	ug/Kg	105				70 (61)	130 (138)	
2-Methylphenol	2000	0	1900	ug/Kg	95				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	2000	0	1800	ug/Kg	90				70 (52)	130 (115)	
Acetophenone	2000	0	1900	ug/Kg	95				70 (75)	130 (111)	
3+4-Methylphenols	2000	0	1800	ug/Kg	90				20 (53)	160 (132)	
N-Nitroso-di-n-propylamine	2000	0	1700	ug/Kg	85				70 (59)	130 (119)	
Hexachloroethane	2000	0	2000	ug/Kg	100				20 (65)	160 (117)	
Nitrobenzene	2000	0	1800	ug/Kg	90				70 (70)	130 (119)	
Isophorone	2000	0	1800	ug/Kg	90				70 (76)	130 (122)	
2-Nitrophenol	2000	0	1900	ug/Kg	95				70 (54)	130 (145)	
2,4-Dimethylphenol	2000	0	2000	ug/Kg	100				70 (83)	130 (144)	
bis(2-Chloroethoxy)methane	2000	0	1900	ug/Kg	95				70 (68)	130 (112)	
2,4-Dichlorophenol	2000	0	1900	ug/Kg	95				70 (72)	130 (118)	
Naphthalene	2000	0	1800	ug/Kg	90				70 (72)	130 (110)	
4-Chloroaniline	2000	0	910	ug/Kg	46	*			70 (10)	130 (100)	
Hexachlorobutadiene	2000	0	1900	ug/Kg	95				70 (66)	130 (114)	
Caprolactam	2000	0	1600	ug/Kg	80				20 (51)	160 (134)	
4-Chloro-3-methylphenol	2000	0	1900	ug/Kg	95				70 (57)	130 (132)	
2-Methylnaphthalene	2000	0	1800	ug/Kg	90				70 (59)	130 (123)	
Hexachlorocyclopentadiene	3900	0	2800	ug/Kg	72				20 (10)	160 (175)	
2,4,6-Trichlorophenol	2000	0	1500	ug/Kg	75				70 (72)	130 (117)	
2,4,5-Trichlorophenol	2000	0	1300	ug/Kg	65	*			70 (72)	130 (117)	
1,1-Biphenyl	2000	0	1800	ug/Kg	90				70 (75)	130 (113)	
2-Chloronaphthalene	2000	0	1900	ug/Kg	95				70 (67)	130 (118)	
2-Nitroaniline	2000	0	1900	ug/Kg	95				70 (69)	130 (127)	
Dimethylphthalate	2000	0	1900	ug/Kg	95				70 (70)	130 (113)	
Acenaphthylene	2000	0	1800	ug/Kg	90				70 (79)	130 (118)	
2,6-Dinitrotoluene	2000	0	1900	ug/Kg	95				70 (70)	130 (125)	
3-Nitroaniline	2000	0	1400	ug/Kg	70				70 (20)	130 (111)	
Acenaphthene	2000	0	1700	ug/Kg	85				70 (70)	130 (121)	
2,4-Dinitrophenol	3900	0	0	ug/Kg	0	*			20 (16)	160 (160)	
4-Nitrophenol	3900	0	2000	ug/Kg	51				20 (45)	160 (133)	
Dibenzofuran	2000	0	1800	ug/Kg	90				70 (72)	130 (110)	
2,4-Dinitrotoluene	2000	0	1900	ug/Kg	95				70 (55)	130 (128)	
Diethylphthalate	2000	0	1900	ug/Kg	95				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	2000	0	1800	ug/Kg	90				70 (71)	130 (108)	
Fluorene	2000	0	1800	ug/Kg	90				70 (68)	130 (116)	
4-Nitroaniline	2000	0	2000	ug/Kg	100				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	2000	0	0	ug/Kg	0	*			70 (32)	130 (145)	
N-Nitrosodiphenylamine	2000	0	2000	ug/Kg	100				70 (73)	130 (118)	
4-Bromophenyl-phenylether	2000	0	1900	ug/Kg	95				70 (65)	130 (121)	
Hexachlorobenzene	2000	0	2000	ug/Kg	100				70 (67)	130 (118)	
Atrazine	2000	0	2200	ug/Kg	110				70 (79)	130 (127)	
Pentachlorophenol	3900	0	380	ug/Kg	10	*			20 (47)	160 (128)	

() = LABORATORY INHOUSE LIMIT



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2505

Client: Remington & Vernick Engineers

Analytical Method: SW8270E

Parameter	Spike	Sample		Units	Rec	Rec		RPD		Limits		RPD
		Result	Result			Qual	RPD	Qual	Low	High		
Phenanthrene	2000	0	1800	ug/Kg	90					70 (72)	130 (113)	
Anthracene	2000	0	1800	ug/Kg	90					70 (62)	130 (124)	
Carbazole	2000	0	1800	ug/Kg	90					70 (59)	130 (119)	
Di-n-butylphthalate	2000	0	2000	ug/Kg	100					70 (69)	130 (118)	
Fluoranthene	2000	0	1500	ug/Kg	75					70 (59)	130 (125)	
Pyrene	2000	0	2000	ug/Kg	100					70 (52)	130 (128)	
Butylbenzylphthalate	2000	0	2400	ug/Kg	120					70 (64)	130 (126)	
3,3-Dichlorobenzidine	2000	0	1500	ug/Kg	75					70 (10)	130 (164)	
Benzo(a)anthracene	2000	0	1800	ug/Kg	90					70 (71)	130 (114)	
Chrysene	2000	0	1900	ug/Kg	95					70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	2000	0	2200	ug/Kg	110					70 (66)	130 (127)	
Di-n-octyl phthalate	2000	0	2600	ug/Kg	130					70 (71)	130 (126)	
Benzo(b)fluoranthene	2000	0	1900	ug/Kg	95					70 (67)	130 (121)	
Benzo(k)fluoranthene	2000	0	1800	ug/Kg	90					70 (74)	130 (114)	
Benzo(a)pyrene	2000	0	1800	ug/Kg	90					70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	2000	0	1900	ug/Kg	95					70 (61)	130 (125)	
Dibenz(a,h)anthracene	2000	0	1900	ug/Kg	95					70 (67)	130 (130)	
Benzo(g,h,i)perylene	2000	0	1700	ug/Kg	85					70 (53)	130 (140)	
1,2,4,5-Tetrachlorobenzene	2000	0	1800	ug/Kg	90					70 (69)	130 (124)	
1,4-Dioxane	2000	0	1800	ug/Kg	90					20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	2000	0	870	ug/Kg	44	*				70 (56)	130 (133)	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: **O2505**

Client: **Remington & Vernick Engineers**

Analytical Method: **SW8270E**

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits		
									Low	High	RPD
Lab Sample ID:	O2583-04MSD	Client Sample ID:	CF-24MSD					DataFile:	BF133211.D		
Benzaldehyde	2000	0	2300	ug/Kg	115		4		20 (26)	160 (163)	30 (20)
Phenol	2000	0	1800	ug/Kg	90		5		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	2000	0	1900	ug/Kg	95		0		70 (74)	130 (116)	30 (20)
2-Chlorophenol	2000	0	2000	ug/Kg	100		5		70 (61)	130 (138)	30 (20)
2-Methylphenol	2000	0	1800	ug/Kg	90		5		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	2000	0	1800	ug/Kg	90		0		70 (52)	130 (115)	30 (20)
Acetophenone	2000	0	1900	ug/Kg	95		0		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	2000	0	1900	ug/Kg	95		5		20 (53)	160 (132)	30 (20)
N-Nitroso-di-n-propylamine	2000	0	1700	ug/Kg	85		0		70 (59)	130 (119)	30 (20)
Hexachloroethane	2000	0	2000	ug/Kg	100		0		20 (65)	160 (117)	30 (20)
Nitrobenzene	2000	0	1800	ug/Kg	90		0		70 (70)	130 (119)	30 (20)
Isophorone	2000	0	1800	ug/Kg	90		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	2000	0	2000	ug/Kg	100		5		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	2000	0	1900	ug/Kg	95		5		70 (83)	130 (144)	30 (20)
bis(2-Chloroethoxy)methane	2000	0	1800	ug/Kg	90		5		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	2000	0	1900	ug/Kg	95		0		70 (72)	130 (118)	30 (20)
Naphthalene	2000	0	1800	ug/Kg	90		0		70 (72)	130 (110)	30 (20)
4-Chloroaniline	2000	0	990	ug/Kg	50	*	8		70 (10)	130 (100)	30 (20)
Hexachlorobutadiene	2000	0	1900	ug/Kg	95		0		70 (66)	130 (114)	30 (20)
Caprolactam	2000	0	1600	ug/Kg	80		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	2000	0	1900	ug/Kg	95		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	2000	0	1800	ug/Kg	90		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	3900	0	2900	ug/Kg	74		3		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	2000	0	1600	ug/Kg	80		6		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	2000	0	1400	ug/Kg	70		7		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	2000	0	1900	ug/Kg	95		5		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	2000	0	1900	ug/Kg	95		0		70 (67)	130 (118)	30 (20)
2-Nitroaniline	2000	0	1900	ug/Kg	95		0		70 (69)	130 (127)	30 (20)
Dimethylphthalate	2000	0	1900	ug/Kg	95		0		70 (70)	130 (113)	30 (20)
Acenaphthylene	2000	0	1800	ug/Kg	90		0		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	2000	0	1900	ug/Kg	95		0		70 (70)	130 (125)	30 (20)
3-Nitroaniline	2000	0	1400	ug/Kg	70		0		70 (20)	130 (111)	30 (20)
Acenaphthene	2000	0	1700	ug/Kg	85		0		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	3900	0	0	ug/Kg	0	*	0		20 (16)	160 (160)	30 (20)
4-Nitrophenol	3900	0	2200	ug/Kg	56		9		20 (45)	160 (133)	30 (20)
Dibenzofuran	2000	0	1800	ug/Kg	90		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	2000	0	2000	ug/Kg	100		5		70 (55)	130 (128)	30 (20)
Diethylphthalate	2000	0	1900	ug/Kg	95		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	2000	0	1800	ug/Kg	90		0		70 (71)	130 (108)	30 (20)
Fluorene	2000	0	1800	ug/Kg	90		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	2000	0	2000	ug/Kg	100		0		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	2000	0	110	ug/Kg	6	*	200	*	70 (32)	130 (145)	30 (20)
N-Nitrosodiphenylamine	2000	0	2000	ug/Kg	100		0		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	2000	0	2000	ug/Kg	100		5		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	2000	0	2000	ug/Kg	100		0		70 (67)	130 (118)	30 (20)
Atrazine	2000	0	2200	ug/Kg	110		0		70 (79)	130 (127)	30 (20)
Pentachlorophenol	3900	0	600	ug/Kg	15	*	40	*	20 (47)	160 (128)	30 (20)

() = LABORATORY INHOUSE LIMIT



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2505

Client: Remington & Vernick Engineers

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec		RPD		Limits	
						Qual	RPD	Qual	Low	High	RPD
Phenanthrene	2000	0	1900	ug/Kg	95		5		70 (72)	130 (113)	30 (20)
Anthracene	2000	0	1800	ug/Kg	90		0		70 (62)	130 (124)	30 (20)
Carbazole	2000	0	1800	ug/Kg	90		0		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	2000	0	2000	ug/Kg	100		0		70 (69)	130 (118)	30 (20)
Fluoranthene	2000	0	1600	ug/Kg	80		6		70 (59)	130 (125)	30 (20)
Pyrene	2000	0	2000	ug/Kg	100		0		70 (52)	130 (128)	30 (20)
Butylbenzylphthalate	2000	0	2400	ug/Kg	120		0		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	2000	0	1600	ug/Kg	80		6		70 (10)	130 (164)	30 (20)
Benzo(a)anthracene	2000	0	1900	ug/Kg	95		5		70 (71)	130 (114)	30 (20)
Chrysene	2000	0	1900	ug/Kg	95		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	2000	0	2200	ug/Kg	110		0		70 (66)	130 (127)	30 (20)
Di-n-octyl phthalate	2000	0	2600	ug/Kg	130		0		70 (71)	130 (126)	30 (20)
Benzo(b)fluoranthene	2000	0	1900	ug/Kg	95		0		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	2000	0	1700	ug/Kg	85		6		70 (74)	130 (114)	30 (20)
Benzo(a)pyrene	2000	0	1800	ug/Kg	90		0		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	2000	0	2000	ug/Kg	100		5		70 (61)	130 (125)	30 (20)
Dibenz(a,h)anthracene	2000	0	2000	ug/Kg	100		5		70 (67)	130 (130)	30 (20)
Benzo(g,h,i)perylene	2000	0	1800	ug/Kg	90		6		70 (53)	130 (140)	30 (20)
1,2,4,5-Tetrachlorobenzene	2000	0	1900	ug/Kg	95		5		70 (69)	130 (124)	30 (20)
1,4-Dioxane	2000	0	1800	ug/Kg	90		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	2000	0	1000	ug/Kg	50	*	13		70 (56)	130 (133)	30 (20)



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2505

Client: Remington & Vernick Engineers

Analytical Method: 8270E

DataFile: BF133203.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB152548BS	Benzaldehyde	1700	1700	ug/Kg	100				20 (10)	160 (109)	
	Phenol	1700	1400	ug/Kg	82				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	2-Chlorophenol	1700	1500	ug/Kg	88				70 (65)	130 (112)	
	2-Methylphenol	1700	1400	ug/Kg	82				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1400	ug/Kg	82				70 (51)	130 (100)	
	Acetophenone	1700	1500	ug/Kg	88				70 (55)	130 (104)	
	3+4-Methylphenols	1700	1400	ug/Kg	82				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1300	ug/Kg	76				70 (63)	130 (95)	
	Hexachloroethane	1700	1600	ug/Kg	94				20 (59)	160 (102)	
	Nitrobenzene	1700	1400	ug/Kg	82				70 (57)	130 (101)	
	Isophorone	1700	1400	ug/Kg	82				70 (59)	130 (99)	
	2-Nitrophenol	1700	1600	ug/Kg	94				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1500	ug/Kg	88				70 (67)	130 (119)	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				70 (53)	130 (105)	
	2,4-Dichlorophenol	1700	1600	ug/Kg	94				70 (62)	130 (107)	
	Naphthalene	1700	1500	ug/Kg	88				70 (62)	130 (100)	
	4-Chloroaniline	1700	930	ug/Kg	55		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				70 (53)	130 (98)	
	Caprolactam	1700	1700	ug/Kg	100				20 (42)	160 (122)	
	4-Chloro-3-methylphenol	1700	1600	ug/Kg	94				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	3100	ug/Kg	94				20 (45)	160 (134)	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1300	ug/Kg	76				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1400	ug/Kg	82				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				70 (58)	130 (99)	
	2-Nitroaniline	1700	1400	ug/Kg	82				70 (53)	130 (105)	
	Dimethylphthalate	1700	1400	ug/Kg	82				70 (61)	130 (99)	
	Acenaphthylene	1700	1400	ug/Kg	82				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				70 (61)	130 (104)	
	3-Nitroaniline	1700	1100	ug/Kg	65		*		70 (28)	130 (100)	
	Acenaphthene	1700	1600	ug/Kg	94				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	3400	ug/Kg	103				20 (37)	160 (128)	
	4-Nitrophenol	3300	2800	ug/Kg	85				20 (48)	160 (119)	
	Dibenzofuran	1700	1400	ug/Kg	82				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				70 (60)	130 (106)	
	Diethylphthalate	1700	1400	ug/Kg	82				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				70 (58)	130 (98)	
	Fluorene	1700	1400	ug/Kg	82				70 (61)	130 (101)	
	4-Nitroaniline	1700	1600	ug/Kg	94				70 (47)	130 (102)	
	4,6-Dinitro-2-methylphenol	1700	1700	ug/Kg	100				70 (48)	130 (132)	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				70 (56)	130 (107)	
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				70 (55)	130 (99)	
	Hexachlorobenzene	1700	1500	ug/Kg	88				70 (64)	130 (98)	
	Atrazine	1700	1700	ug/Kg	100				70 (47)	130 (125)	

() = LABORATORY INHOUSE LIMIT



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2505

Client: Remington & Vernick Engineers

Analytical Method: 8270E

DataFile: BF133203.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB152548BS	Pentachlorophenol	3300	2400	ug/Kg	73				20 (67)	160 (105)	
	Phenanthrene	1700	1400	ug/Kg	82				70 (59)	130 (103)	
	Anthracene	1700	1400	ug/Kg	82				70 (61)	130 (105)	
	Carbazole	1700	1400	ug/Kg	82				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1500	ug/Kg	88				70 (58)	130 (104)	
	Fluoranthene	1700	1400	ug/Kg	82				70 (57)	130 (107)	
	Pyrene	1700	1400	ug/Kg	82				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1400	ug/Kg	82				70 (30)	130 (89)	
	Benzo(a)anthracene	1700	1400	ug/Kg	82				70 (60)	130 (102)	
	Chrysene	1700	1400	ug/Kg	82				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				70 (51)	130 (114)	
	Di-n-octyl phthalate	1700	1700	ug/Kg	100				70 (52)	130 (114)	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1500	ug/Kg	88				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1400	ug/Kg	82				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1500	ug/Kg	88				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70 (57)	130 (116)	
	1,2,4,5-Tetrachlorobenzene	1700	1400	ug/Kg	82				70 (53)	130 (101)	
	1,4-Dioxane	1700	1400	ug/Kg	82				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (108)	



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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB152548BL

Lab Name: CHEMTECH

Contract: REMI02

Lab Code: CHEM Case No.: O2505

SAS No.: O2505 SDG NO.: O2505

Lab File ID: BF133204.D

Lab Sample ID: PB152548BL

Instrument ID: BNA_F

Date Extracted: 05/03/2023

Matrix: (soil/water) SOIL

Date Analyzed: 05/03/2023

Level: (low/med) LOW

Time Analyzed: 13:29

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
WO-5	O2505-05	BF133323.D	05/09/2023
WO-4	O2505-04	BF133324.D	05/09/2023
CF-24MS	O2583-04MS	BF133210.D	05/03/2023
CF-24MSD	O2583-04MSD	BF133211.D	05/03/2023
PB152548BS	PB152548BS	BF133203.D	05/03/2023

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: REMI02

Lab Code: CHEM

SAS No.: 02505 SDG NO.: 02505

Lab File ID: BF132964.D

DFTPP Injection Date: 04/21/2023

Instrument ID: BNA_F

DFTPP Injection Time: 12:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.3
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	36.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.8
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.3
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	13.8
442	Greater than 50% of mass 198	89.4
443	15.0 - 24.0% of mass 442	16.9 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF132965.D	04/21/2023	13:11
SSTDICC005	SSTDICC005	BF132966.D	04/21/2023	13:42
SSTDICC010	SSTDICC010	BF132967.D	04/21/2023	14:12
SSTDICC020	SSTDICC020	BF132968.D	04/21/2023	14:43
SSTDICCC040	SSTDICCC040	BF132969.D	04/21/2023	15:15
SSTDICC050	SSTDICC050	BF132970.D	04/21/2023	15:47
SSTDICC060	SSTDICC060	BF132971.D	04/21/2023	16:19
SSTDICC080	SSTDICC080	BF132972.D	04/21/2023	16:50



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: REMI02

Lab Code: CHEM

SAS No.: O2505 SDG NO.: O2505

Lab File ID: BF133199.D

DFTPP Injection Date: 05/03/2023

Instrument ID: BNA_F

DFTPP Injection Time: 10:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.5
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	33.8
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	45.5
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	25.5
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	14.1
442	Greater than 50% of mass 198	93.2
443	15.0 - 24.0% of mass 442	16.8 (18) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133200.D	05/03/2023	11:25
PB152548BS	PB152548BS	BF133203.D	05/03/2023	12:58
PB152548BL	PB152548BL	BF133204.D	05/03/2023	13:29
CF-24MS	O2583-04MS	BF133210.D	05/03/2023	16:43
CF-24MSD	O2583-04MSD	BF133211.D	05/03/2023	17:14



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: REMI02

Lab Code: CHEM

SAS No.: 02505 SDG NO.: 02505

Lab File ID: BF133308.D

DFTPP Injection Date: 05/09/2023

Instrument ID: BNA_F

DFTPP Injection Time: 09:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.3
68	Less than 2.0% of mass 69	0.4 (1.3) 1
69	Mass 69 relative abundance	34
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	46.6
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	25.5
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	13.6
442	Greater than 50% of mass 198	86.4
443	15.0 - 24.0% of mass 442	16.3 (18.8) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133309.D	05/09/2023	10:04
WO-5	O2505-05	BF133323.D	05/09/2023	18:15
WO-4	O2505-04	BF133324.D	05/09/2023	18:46



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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: REMI02
Lab Code: CHEM Case No.: O2505 SAS No.: O2505 SDG No.: O2505
Instrument ID: BNA_F Calibration Date(s): 04/21/2023 04/21/2023
Calibration Time(s): 13:11 16:50

LAB FILE ID:		RRF2.5 = BF132965.D		RRF005 = BF132966.D		RRF010 = BF132967.D		
		RRF020 = BF132968.D		RRF040 = BF132969.D		RRF050 = BF132970.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.587	1.456	1.437	1.322	1.200	1.324	13.5
Benzaldehyde			1.115	1.002	0.762	0.683	0.791	28.0
Phenol-d6		1.918	1.800	1.795	1.629	1.504	1.643	12.2
Phenol		2.117	1.981	1.990	1.822	1.664	1.813	12.7
bis(2-Chloroethyl)ether		1.563	1.433	1.459	1.366	1.265	1.360	9.8
2-Chlorophenol		1.575	1.485	1.479	1.354	1.225	1.344	13.3
2-Methylphenol		1.399	1.313	1.314	1.238	1.135	1.231	9.6
2,2-oxybis(1-Chloropropane)		2.695	2.537	2.568	2.379	2.181	2.363	10.6
Acetophenone		0.563	0.525	0.502	0.454	0.411	0.463	14.7
3+4-Methylphenols		1.803	1.697	1.649	1.438	1.266	1.450	18.9
n-Nitroso-di-n-propylamine	1.129	1.150	1.087	1.086	1.001	0.913	1.023	10.1
Nitrobenzene-d5		0.407	0.381	0.389	0.379	0.350	0.371	6.9
Hexachloroethane		0.562	0.541	0.544	0.500	0.465	0.498	10.8
Nitrobenzene		0.411	0.391	0.396	0.382	0.359	0.375	7.3
Isophorone		0.754	0.706	0.717	0.710	0.665	0.704	4.1
2-Nitrophenol		0.172	0.172	0.187	0.192	0.181	0.181	4.2
2,4-Dimethylphenol		0.344	0.320	0.323	0.319	0.289	0.311	7.0
bis(2-Chloroethoxy)methane		0.470	0.437	0.434	0.420	0.391	0.416	8.3
2,4-Dichlorophenol		0.306	0.291	0.299	0.292	0.268	0.283	6.8
Naphthalene		1.196	1.094	1.079	1.011	0.898	1.000	13.4
4-Chloroaniline		0.456	0.442	0.444	0.402	0.367	0.404	11.1
Hexachlorobutadiene		0.182	0.174	0.172	0.164	0.150	0.162	9.1
Caprolactam		0.096	0.093	0.097	0.100	0.092	0.095	3.2
4-Chloro-3-methylphenol		0.330	0.317	0.316	0.312	0.284	0.305	6.3
2-Methylnaphthalene		0.823	0.760	0.739	0.689	0.614	0.684	14.3
Hexachlorocyclopentadiene		0.286	0.296	0.334	0.334	0.313	0.314	5.9
2,4,6-Trichlorophenol		0.396	0.372	0.396	0.381	0.353	0.372	5.5
2-Fluorobiphenyl			1.476	1.430	1.210	1.081	1.195	18.4
2,4,5-Trichlorophenol		0.464	0.437	0.452	0.444	0.411	0.430	6.3
1,1-Biphenyl		1.887	1.771	1.752	1.598	1.440	1.586	14.5
2-Chloronaphthalene		1.344	1.228	1.260	1.168	1.074	1.161	10.9
2-Nitroaniline		0.373	0.379	0.407	0.402	0.372	0.384	4.0
Dimethylphthalate		1.577	1.470	1.496	1.409	1.289	1.395	9.2
Acenaphthylene		2.146	2.002	2.049	1.893	1.709	1.855	12.5
2,6-Dinitrotoluene		0.320	0.312	0.332	0.321	0.304	0.314	3.9
3-Nitroaniline		0.372	0.372	0.394	0.391	0.365	0.373	4.2

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: REMI02

Lab Code: CHEM Case No.: O2505 SAS No.: O2505 SDG No.: O2505

Instrument ID: BNA_F Calibration Date(s): 04/21/2023 04/21/2023

Calibration Time(s): 13:11 16:50

LAB FILE ID:		RRF2.5 = BF132965.D		RRF005 = BF132966.D		RRF010 = BF132967.D		
		RRF020 = BF132968.D		RRF040 = BF132969.D		RRF050 = BF132970.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Acenaphthene		1.448	1.334	1.352	1.258	1.138	1.242	11.9
2,4-Dinitrophenol		0.116	0.125	0.157	0.175	0.172	0.158	16.9
4-Nitrophenol		0.282	0.281	0.303	0.309	0.286	0.289	4.1
Dibenzofuran		2.046	1.864	1.856	1.699	1.535	1.695	14.4
2,4-Dinitrotoluene		0.408	0.398	0.428	0.424	0.389	0.400	5.8
Diethylphthalate		1.503	1.395	1.422	1.334	1.224	1.317	10.2
4-Chlorophenyl-phenylether		0.744	0.689	0.688	0.596	0.535	0.605	17.3
Fluorene		1.579	1.434	1.383	1.209	1.094	1.241	18.6
4-Nitroaniline		0.351	0.350	0.377	0.347	0.322	0.343	5.9
4,6-Dinitro-2-methylphenol		0.094	0.105	0.125	0.134	0.128	0.121	12.8
n-Nitrosodiphenylamine		0.746	0.703	0.704	0.645	0.598	0.649	11.0
2,4,6-Tribromophenol		0.211	0.203	0.214	0.208	0.191	0.201	5.4
4-Bromophenyl-phenylether		0.237	0.226	0.229	0.219	0.205	0.217	7.0
Hexachlorobenzene		0.236	0.231	0.236	0.225	0.210	0.222	6.0
Atrazine		0.203	0.199	0.197	0.194	0.174	0.187	8.0
Pentachlorophenol		0.150	0.154	0.164	0.170	0.156	0.158	4.4
Phenanthrene		1.314	1.187	1.153	1.062	0.972	1.075	14.3
Anthracene		1.314	1.214	1.194	1.099	0.992	1.100	13.6
Carbazole		1.120	1.068	1.044	0.991	0.896	0.980	10.9
Di-n-butylphthalate		1.186	1.160	1.191	1.152	1.057	1.109	7.7
Fluoranthene		1.251	1.164	1.164	1.094	0.992	1.079	11.5
Pyrene		1.801	1.685	1.720	1.762	1.659	1.714	3.2
Terphenyl-d14		1.290	1.208	1.208	1.173	1.078	1.160	7.4
Butylbenzylphthalate		0.487	0.516	0.592	0.665	0.639	0.607	12.9
3,3-Dichlorobenzidine		0.375	0.382	0.423	0.411	0.374	0.380	9.2
Benzo (a) anthracene		1.506	1.401	1.466	1.417	1.298	1.375	7.2
Chrysene		1.501	1.402	1.426	1.413	1.302	1.375	6.1
Bis (2-ethylhexyl) phthalate		0.727	0.743	0.806	0.817	0.759	0.762	5.1
Di-n-octyl phthalate		1.065	1.096	1.296	1.351	1.273	1.242	9.1
Benzo (b) fluoranthene		1.321	1.257	1.295	1.334	1.247	1.272	3.5
Benzo (k) fluoranthene		1.317	1.332	1.424	1.289	1.177	1.261	9.2
Benzo (a) pyrene		1.181	1.145	1.203	1.202	1.127	1.158	3.4
Indeno (1,2,3-cd) pyrene		1.036	0.939	1.052	1.207	1.180	1.138	11.4
Dibenzo (a,h) anthracene		0.856	0.786	0.885	1.022	0.980	0.949	11.3
Benzo (g,h,i) perylene		0.827	0.732	0.853	1.005	0.989	0.937	14.3
1,2,4,5-Tetrachlorobenzene		0.611	0.578	0.583	0.541	0.495	0.538	10.4

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: REMI02
Lab Code: CHEM Case No.: O2505 SAS No.: O2505 SDG No.: O2505
Instrument ID: BNA_F Calibration Date(s): 04/21/2023 04/21/2023
Calibration Time(s): 13:11 16:50

LAB FILE ID:		RRF2.5 = BF132965.D			RRF005 = BF132966.D		RRF010 = BF132967.D	
		RRF020 = BF132968.D			RRF040 = BF132969.D		RRF050 = BF132970.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
1,4-Dioxane		0.714	0.644	0.646	0.612	0.569	0.614	9.7
2,3,4,6-Tetrachlorophenol		0.369	0.342	0.356	0.338	0.316	0.333	7.8

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: REMI02

Lab Code: CHEM Case No.: O2505 SAS No.: O2505 SDG No.: O2505

Instrument ID: BNA_F Calibration Date/Time: 05/03/2023 11:25

Lab File ID: BF133200.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.270		-4.1	
Benzaldehyde	0.791	0.761		-3.8	
Phenol-d6	1.643	1.567		-4.6	
Phenol	1.813	1.672		-7.8	20.0
bis(2-Chloroethyl) ether	1.360	1.262		-7.2	
2-Chlorophenol	1.344	1.305		-2.9	
2-Methylphenol	1.231	1.179		-4.2	
2,2-oxybis(1-Chloropropane)	2.363	2.055		-13.0	
Acetophenone	0.463	0.442		-4.5	
3+4-Methylphenols	1.450	1.354		-6.6	
n-Nitroso-di-n-propylamine	1.023	0.856	0.050	-16.3	
Nitrobenzene-d5	0.371	0.356		-4.0	
Hexachloroethane	0.498	0.467		-6.2	
Nitrobenzene	0.375	0.363		-3.2	
Isophorone	0.704	0.657		-6.7	
2-Nitrophenol	0.181	0.190		5.0	20.0
2,4-Dimethylphenol	0.311	0.304		-2.3	
bis(2-Chloroethoxy) methane	0.416	0.390		-6.3	
2,4-Dichlorophenol	0.283	0.279		-1.4	20.0
Naphthalene	1.000	0.971		-2.9	
4-Chloroaniline	0.404	0.424		4.9	
Hexachlorobutadiene	0.162	0.155		-4.3	20.0
Caprolactam	0.095	0.104		9.5	
4-Chloro-3-methylphenol	0.305	0.305		0.0	20.0
2-Methylnaphthalene	0.684	0.661		-3.4	
Hexachlorocyclopentadiene	0.314	0.279	0.050	-11.1	
2,4,6-Trichlorophenol	0.372	0.354		-4.8	20.0
2-Fluorobiphenyl	1.195	1.150		-3.8	
2,4,5-Trichlorophenol	0.430	0.423		-1.6	
1,1-Biphenyl	1.586	1.487		-6.2	
2-Chloronaphthalene	1.161	1.110		-4.4	
2-Nitroaniline	0.384	0.386		0.5	
Dimethylphthalate	1.395	1.361		-2.4	
Acenaphthylene	1.855	1.805		-2.7	
2,6-Dinitrotoluene	0.314	0.318		1.3	
3-Nitroaniline	0.373	0.395		5.9	
Acenaphthene	1.242	1.196		-3.7	20.0
2,4-Dinitrophenol	0.158	0.169	0.050	7.0	
4-Nitrophenol	0.289	0.276	0.050	-4.5	
Dibenzofuran	1.695	1.623		-4.2	
2,4-Dinitrotoluene	0.400	0.425		6.3	



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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: REMI02

Lab Code: CHEM Case No.: O2505 SAS No.: O2505 SDG No.: O2505

Instrument ID: BNA_F Calibration Date/Time: 05/03/2023 11:25

Lab File ID: BF133200.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.293		-1.8	
4-Chlorophenyl-phenylether	0.605	0.569		-5.9	
Fluorene	1.241	1.201		-3.2	
4-Nitroaniline	0.343	0.387		12.8	
4,6-Dinitro-2-methylphenol	0.121	0.132		9.1	
n-Nitrosodiphenylamine	0.649	0.612		-5.7	20.0
2,4,6-Tribromophenol	0.201	0.197		-2.0	
4-Bromophenyl-phenylether	0.217	0.198		-8.8	
Hexachlorobenzene	0.222	0.205		-7.7	
Atrazine	0.187	0.185		-1.1	
Pentachlorophenol	0.158	0.145		-8.2	20.0
Phenanthrene	1.075	0.999		-7.1	
Anthracene	1.100	1.048		-4.7	
Carbazole	0.980	0.953		-2.8	
Di-n-butylphthalate	1.109	1.102		-0.6	
Fluoranthene	1.079	1.050		-2.7	20.0
Pyrene	1.714	1.577		-8.0	
Terphenyl-d14	1.160	1.033		-10.9	
Butylbenzylphthalate	0.607	0.685		12.9	
3,3-Dichlorobenzidine	0.380	0.420		10.5	
Benzo(a)anthracene	1.375	1.268		-7.8	
Chrysene	1.375	1.277		-7.1	
Bis(2-ethylhexyl)phthalate	0.762	0.787		3.3	
Di-n-octyl phthalate	1.242	1.319		6.2	20.0
Benzo(b)fluoranthene	1.272	1.254		-1.4	
Benzo(k)fluoranthene	1.261	1.214		-3.7	
Benzo(a)pyrene	1.158	1.130		-2.4	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.220		7.2	
Dibenzo(a,h)anthracene	0.949	1.023		7.8	
Benzo(g,h,i)perylene	0.937	1.051		12.2	
1,2,4,5-Tetrachlorobenzene	0.538	0.506		-5.9	
1,4-Dioxane	0.614	0.595		-3.1	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.323		-3.0	

All other compounds must meet a minimum RRF of 0.010.



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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: REMI02

Lab Code: CHEM Case No.: 02505 SAS No.: 02505 SDG No.: 02505

Instrument ID: BNA_F Calibration Date/Time: 05/09/2023 10:04

Lab File ID: BF133309.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.233		-6.9	
Benzaldehyde	0.791	0.721		-8.9	
Phenol-d6	1.643	1.498		-8.8	
Phenol	1.813	1.594		-12.1	20.0
bis(2-Chloroethyl) ether	1.360	1.237		-9.0	
2-Chlorophenol	1.344	1.261		-6.2	
2-Methylphenol	1.231	1.125		-8.6	
2,2-oxybis(1-Chloropropane)	2.363	1.945		-17.7	
Acetophenone	0.463	0.435		-6.0	
3+4-Methylphenols	1.450	1.319		-9.0	
n-Nitroso-di-n-propylamine	1.023	0.829	0.050	-19.0	
Nitrobenzene-d5	0.371	0.348		-6.2	
Hexachloroethane	0.498	0.469		-5.8	
Nitrobenzene	0.375	0.354		-5.6	
Isophorone	0.704	0.642		-8.8	
2-Nitrophenol	0.181	0.186		2.8	20.0
2,4-Dimethylphenol	0.311	0.296		-4.8	
bis(2-Chloroethoxy) methane	0.416	0.383		-7.9	
2,4-Dichlorophenol	0.283	0.275		-2.8	20.0
Naphthalene	1.000	0.953		-4.7	
4-Chloroaniline	0.404	0.408		1.0	
Hexachlorobutadiene	0.162	0.157		-3.1	20.0
Caprolactam	0.095	0.093		-2.1	
4-Chloro-3-methylphenol	0.305	0.293		-3.9	20.0
2-Methylnaphthalene	0.684	0.641		-6.3	
Hexachlorocyclopentadiene	0.314	0.251	0.050	-20.1	
2,4,6-Trichlorophenol	0.372	0.346		-7.0	20.0
2-Fluorobiphenyl	1.195	1.114		-6.8	
2,4,5-Trichlorophenol	0.430	0.405		-5.8	
1,1-Biphenyl	1.586	1.463		-7.8	
2-Chloronaphthalene	1.161	1.093		-5.9	
2-Nitroaniline	0.384	0.360		-6.3	
Dimethylphthalate	1.395	1.303		-6.6	
Acenaphthylene	1.855	1.722		-7.2	
2,6-Dinitrotoluene	0.314	0.299		-4.8	
3-Nitroaniline	0.373	0.360		-3.5	
Acenaphthene	1.242	1.144		-7.9	20.0
2,4-Dinitrophenol	0.158	0.138	0.050	-12.7	
4-Nitrophenol	0.289	0.243	0.050	-15.9	
Dibenzofuran	1.695	1.545		-8.9	
2,4-Dinitrotoluene	0.400	0.387		-3.3	



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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: REMI02

Lab Code: CHEM Case No.: O2505 SAS No.: O2505 SDG No.: O2505

Instrument ID: BNA_F Calibration Date/Time: 05/09/2023 10:04

Lab File ID: BF133309.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.226		-6.9	
4-Chlorophenyl-phenylether	0.605	0.558		-7.8	
Fluorene	1.241	1.144		-7.8	
4-Nitroaniline	0.343	0.345		0.6	
4,6-Dinitro-2-methylphenol	0.121	0.125		3.3	
n-Nitrosodiphenylamine	0.649	0.604		-6.9	20.0
2,4,6-Tribromophenol	0.201	0.179		-10.9	
4-Bromophenyl-phenylether	0.217	0.202		-6.9	
Hexachlorobenzene	0.222	0.203		-8.6	
Atrazine	0.187	0.180		-3.7	
Pentachlorophenol	0.158	0.131		-17.1	20.0
Phenanthrene	1.075	0.996		-7.3	
Anthracene	1.100	1.014		-7.8	
Carbazole	0.980	0.904		-7.8	
Di-n-butylphthalate	1.109	1.094		-1.4	
Fluoranthene	1.079	0.972		-9.9	20.0
Pyrene	1.714	1.740		1.5	
Terphenyl-d14	1.160	1.140		-1.7	
Butylbenzylphthalate	0.607	0.713		17.5	
3,3-Dichlorobenzidine	0.380	0.376		-1.1	
Benzo(a)anthracene	1.375	1.246		-9.4	
Chrysene	1.375	1.249		-9.2	
Bis(2-ethylhexyl)phthalate	0.762	0.764		0.3	
Di-n-octyl phthalate	1.242	1.184		-4.7	20.0
Benzo(b)fluoranthene	1.272	1.214		-4.6	
Benzo(k)fluoranthene	1.261	1.129		-10.5	
Benzo(a)pyrene	1.158	1.114		-3.8	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.319		15.9	
Dibenzo(a,h)anthracene	0.949	1.094		15.3	
Benzo(g,h,i)perylene	0.937	1.109		18.4	
1,2,4,5-Tetrachlorobenzene	0.538	0.501		-6.9	
1,4-Dioxane	0.614	0.560		-8.8	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.303		-9.0	

All other compounds must meet a minimum RRF of 0.010.



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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2505 SAS No.: O2505 SDG NO.: O2505

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/03/2023

Lab File ID: BF133200.D Time Analyzed: 11:25

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	197648	6.734	758638	8.02	395162	9.77
UPPER LIMIT	395296	7.234	1517280	8.516	790324	10.269
LOWER LIMIT	98824	6.234	379319	7.516	197581	9.269
EPA SAMPLE NO.						
01 CF-24MS	197905	6.73	818790	8.02	422731	9.77
02 CF-24MSD	177861	6.73	740021	8.02	377177	9.77
03 PB152548BL	231663	6.73	994899	8.02	533275	9.77
04 PB152548BS	194406	6.73	772245	8.02	416279	9.77

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2505 SAS No.: O2505 SDG NO.: O2505

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/09/2023

Lab File ID: BF133309.D Time Analyzed: 10:04

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	214901	6.722	819732	8.01	422663	9.76
UPPER LIMIT	429802	7.222	1639460	8.51	845326	10.263
LOWER LIMIT	107451	6.222	409866	7.51	211332	9.263
EPA SAMPLE NO.						
01 WO-4	206523	6.72	780947	8.00	355273	9.76
02 WO-5	202754	6.72	750799	8.00	323955	9.76

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2505 SAS No.: O2505 SDG NO.: O2505

EPA Sample No.: SSTDCCC040

Date Analyzed: 05/03/2023

Lab File ID: BF133200.D

Time Analyzed: 11:25

Instrument ID: BNA_F

GC Column: DB-UI ID: 0.18 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	727692	11.251	494981	13.892	410869	15.304
UPPER LIMIT	1455380	11.751	989962	14.392	821738	15.804
LOWER LIMIT	363846	10.751	247491	13.392	205435	14.804
EPA SAMPLE NO.						
01 CF-24MS	684165	11.25	330693	13.89	400793	15.30
02 CF-24MSD	615509	11.25	307937	13.89	385313	15.30
03 PB152548BL	964759	11.25	682883	13.88	595832	15.30
04 PB152548BS	743010	11.25	500357	13.89	440501	15.30

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2505 SAS No.: O2505 SDG NO.: O2505

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/09/2023

Lab File ID: BF133309.D Time Analyzed: 10:04

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	732030	11.239	418006	13.88	358363	15.292
UPPER LIMIT	1464060	11.739	836012	14.38	716726	15.792
LOWER LIMIT	366015	10.739	209003	13.38	179182	14.792
EPA SAMPLE NO.						
01 WO-4	545274	11.24	372530	13.89	271647	15.32
02 WO-5	521705	11.24	201354 *	13.90	214785	15.35

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



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Hit Summary Sheet SW-846

SDG No.: O2505
Client: Remington & Vernick Engineers

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	WO-4							
O2505-04	WO-4	SOIL	Borneol, heptafluorobutyrate	* 2,200.000	J	0	0	ug/Kg
O2505-04	WO-4	SOIL	n-Hexadecanoic acid	* 2,300.000	J	0	0	ug/Kg
Total Tics :				4,500.00				
Total Concentration:				4,500.00				
Client ID :	WO-5							
O2505-05	WO-5	SOIL	Benzo(g,h,i)perylene	1,200.000	J	960	1800	ug/Kg
Total Svoc :				1,200.00				
O2505-05	WO-5	SOIL	1H-Indene, 2,3-dihydro-5-methyl-	* 1,600.000	J	0	0	ug/Kg
O2505-05	WO-5	SOIL	Benzene, 1,2,4,5-tetramethyl-	* 790.000	J	0	0	ug/Kg
O2505-05	WO-5	SOIL	Benzene, 1-ethyl-3-(1-methylethy	* 730.000	J	0	0	ug/Kg
O2505-05	WO-5	SOIL	Benzophenone	* 1,200.000	J	0	0	ug/Kg
O2505-05	WO-5	SOIL	Cetene	* 2,200.000	J	0	0	ug/Kg
O2505-05	WO-5	SOIL	Decane, 2,2,8-trimethyl-	* 990.000	J	0	0	ug/Kg
O2505-05	WO-5	SOIL	Heptadecane	* 1,000.000	J	0	0	ug/Kg
O2505-05	WO-5	SOIL	Heptane, 4-ethyl-2,2,6,6-tetrameth	* 1,200.000	J	0	0	ug/Kg
O2505-05	WO-5	SOIL	Hexadecanal	* 830.000	J	0	0	ug/Kg
O2505-05	WO-5	SOIL	Mesitylene	* 1,200.000	J	0	0	ug/Kg
O2505-05	WO-5	SOIL	Naphthalene, 1-methyl-	* 1,100.000	J	0	0	ug/Kg
O2505-05	WO-5	SOIL	Naphthalene, 2-methyl-	* 820.000	J	0	0	ug/Kg
O2505-05	WO-5	SOIL	n-Hexadecanoic acid	* 6,500.000	J	0	0	ug/Kg
O2505-05	WO-5	SOIL	Octadecanoic acid	* 6,900.000	J	0	0	ug/Kg
O2505-05	WO-5	SOIL	o-Cymene	* 710.000	J	0	0	ug/Kg
O2505-05	WO-5	SOIL	Tetradecanoic acid	* 1,300.000	J	0	0	ug/Kg
O2505-05	WO-5	SOIL	Undecane, 3,5-dimethyl-	* 750.000	J	0	0	ug/Kg
Total Tics :				29,820.00				
Total Concentration:				31,020.00				



NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: _____

SequenceID : _____

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)	_____	_____	_____
2. GC/MS Tuning Specifications. DFTPP Meet Criteria Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)	_____	_____	_____
3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 series	_____	_____	_____
4. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series	_____	_____	_____
5. GC/MS Calibration Met:	_____	_____	_____
a. Initial calibration Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.	_____	_____	_____
b. Continuous Calibration(CCC) Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.	_____	_____	_____
6. Blank Contamination - If yes, list compounds and concentrations in each blank:	_____	_____	_____
a. B/N Fraction			
d. Acid Fraction			

7. Surrogate Recoveries Meet Criteria

If not met, list those compounds and their recoveries which fall outside the acceptable ranges.

a. B/N Fraction

d. Acid Fraction

8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria

If not met, list those compounds and their recoveries which fall outside the acceptable range.

a. B/N Fraction

d. Acid Fraction

9. Internal Standard Area/Retention Time Shift Meet Criteria

Comments:

10. Extraction Holding Time Met

If not met, list number of days exceeded for each sample:

11. Analysis Holding Time Met

If not met, list number of days exceeded for each sample:

ADDITIONAL COMMENTS:

Analyst

Date



NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: _____

SequenceID : _____ NA NO YES



NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: BF050323

SequenceID : BF050323

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)	_____	_____	_____✓_____
2. GC/MS Tuning Specifications. DFTPP Meet Criteria Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)	_____	_____	_____✓_____
3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 series	_____	_____	_____✓_____
4. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series	_____	_____	_____✓_____
5. GC/MS Calibration Met:	_____	_____	_____✓_____
a. Initial calibration Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.	_____	_____	_____✓_____
b. Continuous Calibration(CCC) Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.	_____	_____	_____✓_____
6. Blank Contamination - If yes, list compounds and concentrations in each blank:	_____	_____✓_____	_____
a. B/N Fraction			
d. Acid Fraction			

7. Surrogate Recoveries Meet Criteria	_____	_____	✓
If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
a. B/N Fraction			
d. Acid Fraction			
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria	_____	✓	_____
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
a. B/N Fraction	<u>The recovery of some compounds, including compound #54 and #65, were affected by matrix interference in O2583-04MS/MSD and no corrective action is required.</u>		
d. Acid Fraction	<u>The recovery of some compounds, including compound #54, were affected by matrix interference in O2588-09MS/MSD and no</u>		
9. Internal Standard Area/Retention Time Shift Meet Criteria	_____	_____	✓
Comments:			
10. Extraction Holding Time Met	_____	_____	✓
If not met, list number of days exceeded for each sample:			
11. Analysis Holding Time Met	_____	_____	✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

In PB152525BS and PB152548BS, the recovery of compound #77 is biased high, which is not present in any of their associated samples and therefore the data will be used for hardcopies.

The sample O2584-01 was analyzed with 2x dilution due to its dirty and concentrated matrix.

The samples O2582-01 and O2585-01 were analyzed with 5x dilution due to their dirty, concentrated and viscous matrix, which sticks to the sides of the vial and would not be injectable otherwise.



NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: BF050323

SequenceID : BF050323 NA NO YES



NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: bf050923

SequenceID : bf050923

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)	_____	_____	_____✓_____
2. GC/MS Tuning Specifications. DFTPP Meet Criteria Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)	_____	_____	_____✓_____
3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 series	_____	_____	_____✓_____
4. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series	_____	_____	_____✓_____
5. GC/MS Calibration Met:	_____	_____	_____✓_____
a. Initial calibration Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.	_____	_____	_____✓_____
b. Continuous Calibration(CCC) Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. Compound #41 is marginally biased low in the SSTDCCC(BF133309.D)	_____	_____✓_____	_____
6. Blank Contamination - If yes, list compounds and concentrations in each blank:	_____	_____✓_____	_____
a. B/N Fraction			
d. Acid Fraction			

7. Surrogate Recoveries Meet Criteria	_____	_____	✓
If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
a. B/N Fraction			
d. Acid Fraction			
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria	_____	✓	_____
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
a. B/N Fraction	<u>The recovery of some compounds failed in O2665-08MS/MSD due to matrix interference and no corrective action is required.</u>		
d. Acid Fraction			
9. Internal Standard Area/Retention Time Shift Meet Criteria	_____	✓	_____
Comments:			
10. Extraction Holding Time Met	_____	_____	✓
If not met, list number of days exceeded for each sample:			
11. Analysis Holding Time Met	_____	_____	✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

In PB152628BS, the recovery of compound #77 is biased high, which is not required by any of the associated samples.
 In PB152670BS, the recovery of compound #77 is biased high, which is not present in any of the associated samples.
 The samples O2505-05 and O2505-04 were analyzed with their respective dilutions due to their dirty, concentrated and viscous matrix, which consist of non-target hydrocarbons as made evident by their abnormal chromatograms. Furthermore, it is due to the tough nature of the matrix that the recovery of one internal standard (Chrysene-d12) failed in the sample O2505-05. These results are final.



NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: bf050923

SequenceID : bf050923 NA NO YES



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF042123

Review By	Christian	Review On	4/24/2023 10:17:29 AM
Supervise By	Jagrut	Supervise On	4/24/2023 6:01:22 PM
SubDirectory	BF042123	HP Acquire Method	BNA_F
		HP Processing Method	BF042123
STD. NAME	STD REF.#		
Tune/Reschk	SP6125		
Initial Calibration Stds	SP6166,SP6165,SP6164,SP6163,SP6162,SP6161,SP6160,SP6159		
CCC	SP6162		
Internal Standard/PEM	S10830 10ul/1000ul sample		
ICV/I.BLK	SP6101		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF132964.D	21 Apr 2023 12:40	CG\JU	Ok
2	SSTDICC2.5	BF132965.D	21 Apr 2023 13:11	CG\JU	Ok
3	SSTDICC005	BF132966.D	21 Apr 2023 13:42	CG\JU	Ok,M
4	SSTDICC010	BF132967.D	21 Apr 2023 14:12	CG\JU	Ok
5	SSTDICC020	BF132968.D	21 Apr 2023 14:43	CG\JU	Ok,M
6	SSTDICCC040	BF132969.D	21 Apr 2023 15:15	CG\JU	Ok,M
7	SSTDICC050	BF132970.D	21 Apr 2023 15:47	CG\JU	Ok,M
8	SSTDICC060	BF132971.D	21 Apr 2023 16:19	CG\JU	Ok,M
9	SSTDICC080	BF132972.D	21 Apr 2023 16:50	CG\JU	Ok,M
10	SSTDICV040	BF132973.D	21 Apr 2023 17:22	CG\JU	Ok,M
11	PB152259BL	BF132974.D	21 Apr 2023 17:53	CG\JU	Ok
12	PB152302BS	BF132975.D	21 Apr 2023 18:27	CG\JU	Ok,M
13	PB152302BSD	BF132976.D	21 Apr 2023 18:59	CG\JU	Ok,M
14	PB152302BL	BF132977.D	21 Apr 2023 19:30	CG\JU	Ok
15	O2415-01	BF132978.D	21 Apr 2023 20:01	CG\JU	ReRun
16	O2270-13	BF132979.D	21 Apr 2023 20:33	CG\JU	Ok,M
17	O2270-11	BF132980.D	21 Apr 2023 21:03	CG\JU	Ok,M
18	O2389-03	BF132981.D	21 Apr 2023 21:34	CG\JU	Ok,M
19	O2389-27	BF132982.D	21 Apr 2023 22:05	CG\JU	Ok,M
20	O2389-15	BF132983.D	21 Apr 2023 22:37	CG\JU	Ok,M
21	O2390-03	BF132984.D	21 Apr 2023 23:09	CG\JU	Ok,M
22	O2389-23	BF132985.D	21 Apr 2023 23:42	CG\JU	Ok,M
23	O2386-03	BF132986.D	22 Apr 2023 00:14	CG\JU	ReRun



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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF042123

Review By	Christian	Review On	4/24/2023 10:17:29 AM		
Supervise By	Jagrut	Supervise On	4/24/2023 6:01:22 PM		
SubDirectory	BF042123	HP Acquire Method	BNA_F	HP Processing Method	BF042123
STD. NAME		STD REF.#			
Tune/Reschk		SP6125			
Initial Calibration Stds		SP6166,SP6165,SP6164,SP6163,SP6162,SP6161,SP6160,SP6159			
CCC		SP6162			
Internal Standard/PEM		S10830 10ul/1000ul sample			
ICV/I.BLK		SP6101			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

M : Manual Integration



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF050323

Review By	Christian	Review On	5/4/2023 10:52:53 AM
Supervise By	Jagrut	Supervise On	5/4/2023 11:42:34 AM
SubDirectory	BF050323	HP Acquire Method	BNA_F
		HP Processing Method	BF042123
STD. NAME	STD REF.#		
Tune/Reschk	SP6125		
Initial Calibration Stds	SP6166,SP6165,SP6164,SP6163,SP6162,SP6161,SP6160,SP6159		
CCC	SP6162		
Internal Standard/PEM	S10833 10ul/1000ul sample		
ICV/I.BLK	SP6101		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF133199.D	03 May 2023 10:54	CG\JU	Ok
2	SSTDCCC040	BF133200.D	03 May 2023 11:25	CG\JU	Ok,M
3	PB152525BL	BF133201.D	03 May 2023 11:56	CG\JU	Ok
4	PB152525BS	BF133202.D	03 May 2023 12:27	CG\JU	Ok,M
5	PB152548BS	BF133203.D	03 May 2023 12:58	CG\JU	Ok,M
6	PB152548BL	BF133204.D	03 May 2023 13:29	CG\JU	Ok
7	O2572-01DL	BF133205.D	03 May 2023 14:06	CG\JU	Ok,M
8	O2583-07	BF133206.D	03 May 2023 14:37	CG\JU	Ok
9	O2583-05	BF133207.D	03 May 2023 15:09	CG\JU	Ok
10	O2583-02	BF133208.D	03 May 2023 15:40	CG\JU	Ok
11	O2583-04	BF133209.D	03 May 2023 16:11	CG\JU	Ok
12	O2583-04MS	BF133210.D	03 May 2023 16:43	CG\JU	Ok,M
13	O2583-04MSD	BF133211.D	03 May 2023 17:14	CG\JU	Ok,M
14	O2588-09	BF133212.D	03 May 2023 17:45	CG\JU	Ok,M
15	O2588-09MS	BF133213.D	03 May 2023 18:16	CG\JU	Ok,M
16	O2588-09MSD	BF133214.D	03 May 2023 18:48	CG\JU	Ok,M
17	O2583-01	BF133215.D	03 May 2023 19:19	CG\JU	Ok
18	O2583-06	BF133216.D	03 May 2023 19:50	CG\JU	Ok
19	O2583-03	BF133217.D	03 May 2023 20:21	CG\JU	Ok
20	O2573-01	BF133218.D	03 May 2023 20:52	CG\JU	Ok,M
21	O2584-01	BF133219.D	03 May 2023 21:23	CG\JU	Ok,M
22	O2582-01	BF133220.D	03 May 2023 21:54	CG\JU	Dilution
23	O2585-01	BF133221.D	03 May 2023 22:25	CG\JU	Ok,M



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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF050323

Review By	Christian	Review On	5/4/2023 10:52:53 AM		
Supervise By	Jagrut	Supervise On	5/4/2023 11:42:34 AM		
SubDirectory	BF050323	HP Acquire Method	BNA_F	HP Processing Method	BF042123
STD. NAME	STD REF.#				
Tune/Reschk	SP6125				
Initial Calibration Stds	SP6166,SP6165,SP6164,SP6163,SP6162,SP6161,SP6160,SP6159				
CCC	SP6162				
Internal Standard/PEM	S10833 10ul/1000ul sample				
ICV/I.BLK	SP6101				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

M : Manual Integration



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF050923

Review By	Christian	Review On	5/10/2023 11:53:29 AM
Supervise By	Jagrut	Supervise On	5/10/2023 1:01:55 PM
SubDirectory	BF050923	HP Acquire Method	BNA_F
		HP Processing Method	BF042123
STD. NAME	STD REF.#		
Tune/Reschk	SP6125		
Initial Calibration Stds	SP6166,SP6165,SP6164,SP6163,SP6162,SP6161,SP6160,SP6159		
CCC	SP6162		
Internal Standard/PEM	S10834 10ul/1000ul sample		
ICV/I.BLK	SP6101		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF133308.D	09 May 2023 09:30	CG\JU	Ok
2	SSTDCCC040	BF133309.D	09 May 2023 10:04	CG\JU	Ok,M
3	PB152628BL	BF133310.D	09 May 2023 10:46	CG\JU	Ok
4	PB152628BS	BF133311.D	09 May 2023 11:50	CG\JU	Ok,M
5	PB152561TB	BF133312.D	09 May 2023 12:21	CG\JU	Ok
6	PB152670BL	BF133313.D	09 May 2023 12:53	CG\JU	Ok
7	PB152670BS	BF133314.D	09 May 2023 13:24	CG\JU	Ok,M
8	O2665-01	BF133315.D	09 May 2023 14:00	CG\JU	Ok
9	O2665-08	BF133316.D	09 May 2023 14:32	CG\JU	Ok,M
10	O2665-08MS	BF133317.D	09 May 2023 15:03	CG\JU	Ok,M
11	O2665-08MSD	BF133318.D	09 May 2023 15:35	CG\JU	Ok,M
12	O2681-02	BF133319.D	09 May 2023 16:07	CG\JU	Ok,M
13	O2680-01	BF133320.D	09 May 2023 16:39	CG\JU	Ok,M
14	O2690-01	BF133321.D	09 May 2023 17:11	CG\JU	Ok,M
15	O2666-01	BF133322.D	09 May 2023 17:43	CG\JU	Not Ok
16	O2505-05	BF133323.D	09 May 2023 18:15	CG\JU	Ok
17	O2505-04	BF133324.D	09 May 2023 18:46	CG\JU	Ok

M : Manual Integration



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF042123

Review By	Christian	Review On	4/24/2023 10:17:29 AM				
Supervise By	Jagrut	Supervise On	4/24/2023 6:01:22 PM				
SubDirectory	BF042123	HP Acquire Method	BNA_F	HP Processing Method	BF042123		
STD. NAME		STD REF.#					
Tune/Reschk Initial Calibration Stds		SP6125 SP6166,SP6165,SP6164,SP6163,SP6162,SP6161,SP6160,SP6159					
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard		SP6162 S10830 10ul/1000ul sample SP6101					

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF132964.D	21 Apr 2023 12:40		CG\JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF132965.D	21 Apr 2023 13:11		CG\JU	Ok
3	SSTDICC005	SSTDICC005	BF132966.D	21 Apr 2023 13:42	Compound #9,45 removed from 5ppm	CG\JU	Ok,M
4	SSTDICC010	SSTDICC010	BF132967.D	21 Apr 2023 14:12	Compound #09 Kept on QR	CG\JU	Ok
5	SSTDICC020	SSTDICC020	BF132968.D	21 Apr 2023 14:43		CG\JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF132969.D	21 Apr 2023 15:15	Method is Good For NON DOD and good for 625.1 Method	CG\JU	Ok,M
7	SSTDICC050	SSTDICC050	BF132970.D	21 Apr 2023 15:47		CG\JU	Ok,M
8	SSTDICC060	SSTDICC060	BF132971.D	21 Apr 2023 16:19		CG\JU	Ok,M
9	SSTDICC080	SSTDICC080	BF132972.D	21 Apr 2023 16:50	Compound #77 removed from 80ppm	CG\JU	Ok,M
10	SSTDICV040	ICVBF042123	BF132973.D	21 Apr 2023 17:22		CG\JU	Ok,M
11	PB152259BL	PB152259BL	BF132974.D	21 Apr 2023 17:53		CG\JU	Ok
12	PB152302BS	PB152302BS	BF132975.D	21 Apr 2023 18:27		CG\JU	Ok,M
13	PB152302BSD	PB152302BSD	BF132976.D	21 Apr 2023 18:59		CG\JU	Ok,M
14	PB152302BL	PB152302BL	BF132977.D	21 Apr 2023 19:30		CG\JU	Ok
15	O2415-01	SAMPLE-1	BF132978.D	21 Apr 2023 20:01	Surrogate Fail	CG\JU	ReRun
16	O2270-13	SB-24-0-2-20230411	BF132979.D	21 Apr 2023 20:33		CG\JU	Ok,M
17	O2270-11	SB-27-8-10-20230411	BF132980.D	21 Apr 2023 21:03		CG\JU	Ok,M
18	O2389-03	SPB-1WC-23-04-17	BF132981.D	21 Apr 2023 21:34		CG\JU	Ok,M



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF042123

Review By	Christian	Review On	4/24/2023 10:17:29 AM				
Supervise By	Jagrut	Supervise On	4/24/2023 6:01:22 PM				
SubDirectory	BF042123	HP Acquire Method	BNA_F	HP Processing Method	BF042123		
STD. NAME		STD REF.#					
Tune/Reschk		SP6125					
Initial Calibration Stds		SP6166,SP6165,SP6164,SP6163,SP6162,SP6161,SP6160,SP6159					
CCC		SP6162					
Internal Standard/PEM		S10830 10ul/1000ul sample					
ICV/I.BLK		SP6101					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							
19	O2389-27	SPB-7WC-23-04-17	BF132982.D	21 Apr 2023 22:05		CG\JU	Ok,M
20	O2389-15	SPB-4WC-23-04-17	BF132983.D	21 Apr 2023 22:37		CG\JU	Ok,M
21	O2390-03	SPC-1WC-23-04-17	BF132984.D	21 Apr 2023 23:09		CG\JU	Ok,M
22	O2389-23	SPB-6WC-23-04-17	BF132985.D	21 Apr 2023 23:42		CG\JU	Ok,M
23	O2386-03	SPA-1WC-23-04	BF132986.D	22 Apr 2023 00:14	Internal Standard Fail,Need Further 20X	CG\JU	ReRun

M : Manual Integration



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF050323

Review By	Christian	Review On	5/4/2023 10:52:53 AM				
Supervise By	Jagrut	Supervise On	5/4/2023 11:42:34 AM				
SubDirectory	BF050323	HP Acquire Method	BNA_F	HP Processing Method	BF042123		
STD. NAME		STD REF.#					
Tune/Reschk		SP6125					
Initial Calibration Stds		SP6166,SP6165,SP6164,SP6163,SP6162,SP6161,SP6160,SP6159					
CCC		SP6162					
Internal Standard/PEM		S10833 10ul/1000ul sample					
ICV/I.BLK		SP6101					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF133199.D	03 May 2023 10:54		CG\JU	Ok
2	SSTDCCC040	SSTDCCC040	BF133200.D	03 May 2023 11:25		CG\JU	Ok,M
3	PB152525BL	PB152525BL	BF133201.D	03 May 2023 11:56		CG\JU	Ok
4	PB152525BS	PB152525BS	BF133202.D	03 May 2023 12:27		CG\JU	Ok,M
5	PB152548BS	PB152548BS	BF133203.D	03 May 2023 12:58		CG\JU	Ok,M
6	PB152548BL	PB152548BL	BF133204.D	03 May 2023 13:29		CG\JU	Ok
7	O2572-01DL	RBR-251671DL	BF133205.D	03 May 2023 14:06		CG\JU	Ok,M
8	O2583-07	CF-27	BF133206.D	03 May 2023 14:37		CG\JU	Ok
9	O2583-05	CF-25	BF133207.D	03 May 2023 15:09		CG\JU	Ok
10	O2583-02	CF-22	BF133208.D	03 May 2023 15:40		CG\JU	Ok
11	O2583-04	CF-24	BF133209.D	03 May 2023 16:11		CG\JU	Ok
12	O2583-04MS	CF-24MS	BF133210.D	03 May 2023 16:43		CG\JU	Ok,M
13	O2583-04MSD	CF-24MSD	BF133211.D	03 May 2023 17:14		CG\JU	Ok,M
14	O2588-09	ZONE-A-6-9-05022023	BF133212.D	03 May 2023 17:45		CG\JU	Ok,M
15	O2588-09MS	ZONE-A-6-9-05022023	BF133213.D	03 May 2023 18:16		CG\JU	Ok,M
16	O2588-09MSD	ZONE-A-6-9-05022023	BF133214.D	03 May 2023 18:48		CG\JU	Ok,M
17	O2583-01	CF-21	BF133215.D	03 May 2023 19:19		CG\JU	Ok
18	O2583-06	CF-26	BF133216.D	03 May 2023 19:50		CG\JU	Ok
19	O2583-03	CF-23	BF133217.D	03 May 2023 20:21		CG\JU	Ok



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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF050323

Review By	Christian	Review On	5/4/2023 10:52:53 AM					
Supervise By	Jagrut	Supervise On	5/4/2023 11:42:34 AM					
SubDirectory	BF050323	HP Acquire Method	BNA_F	HP Processing Method	BF042123			
STD. NAME		STD REF.#						
Tune/Reschk		SP6125						
Initial Calibration Stds		SP6166,SP6165,SP6164,SP6163,SP6162,SP6161,SP6160,SP6159						
CCC		SP6162						
Internal Standard/PEM		S10833 10ul/1000ul sample						
ICV/I.BLK		SP6101						
Surrogate Standard								
MS/MSD Standard								
LCS Standard								

20	O2573-01	VNJ-240	BF133218.D	03 May 2023 20:52		CG\JU	Ok,M
21	O2584-01	TR-05-050123	BF133219.D	03 May 2023 21:23		CG\JU	Ok,M
22	O2582-01	HD-02-050223	BF133220.D	03 May 2023 21:54	Need further 2X	CG\JU	Dilution
23	O2585-01	OK-01-050223	BF133221.D	03 May 2023 22:25		CG\JU	Ok,M

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF050923

Review By	Christian	Review On	5/10/2023 11:53:29 AM				
Supervise By	Jagrut	Supervise On	5/10/2023 1:01:55 PM				
SubDirectory	BF050923	HP Acquire Method	BNA_F	HP Processing Method	BF042123		
STD. NAME		STD REF.#					
Tune/Reschk		SP6125					
Initial Calibration Stds		SP6166,SP6165,SP6164,SP6163,SP6162,SP6161,SP6160,SP6159					
CCC		SP6162					
Internal Standard/PEM		S10834 10ul/1000ul sample					
ICV/I.BLK		SP6101					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF133308.D	09 May 2023 09:30		CG\JU	Ok
2	SSTDCCC040	SSTDCCC040	BF133309.D	09 May 2023 10:04		CG\JU	Ok,M
3	PB152628BL	PB152628BL	BF133310.D	09 May 2023 10:46		CG\JU	Ok
4	PB152628BS	PB152628BS	BF133311.D	09 May 2023 11:50		CG\JU	Ok,M
5	PB152561TB	PB152561TB	BF133312.D	09 May 2023 12:21		CG\JU	Ok
6	PB152670BL	PB152670BL	BF133313.D	09 May 2023 12:53		CG\JU	Ok
7	PB152670BS	PB152670BS	BF133314.D	09 May 2023 13:24		CG\JU	Ok,M
8	O2665-01	TR-612-COMP-01	BF133315.D	09 May 2023 14:00		CG\JU	Ok
9	O2665-08	TR-612-COMP-02	BF133316.D	09 May 2023 14:32		CG\JU	Ok,M
10	O2665-08MS	TR-612-COMP-02MS	BF133317.D	09 May 2023 15:03		CG\JU	Ok,M
11	O2665-08MSD	TR-612-COMP-02MSD	BF133318.D	09 May 2023 15:35		CG\JU	Ok,M
12	O2681-02	VNJ-207	BF133319.D	09 May 2023 16:07		CG\JU	Ok,M
13	O2680-01	SU-02-050823	BF133320.D	09 May 2023 16:39		CG\JU	Ok,M
14	O2690-01	OR-3-050823	BF133321.D	09 May 2023 17:11		CG\JU	Ok,M
15	O2666-01	BU-02-050823	BF133322.D	09 May 2023 17:43	Need Straight Run	CG\JU	Not Ok
16	O2505-05	WO-5	BF133323.D	09 May 2023 18:15	Internal Standard Fail	CG\JU	Ok
17	O2505-04	WO-4	BF133324.D	09 May 2023 18:46		CG\JU	Ok

M : Manual Integration



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Manual Integration Report

Sequence:

BF042123

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF132966.D	Benzoic acid	Christian	4/24/2023 10:04:43 AM	Jagrut	4/24/2023 6:00:26 PM	Peak Integrated by Software
SSTDICC005	BF132966.D	Phenol	Christian	4/24/2023 10:04:43 AM	Jagrut	4/24/2023 6:00:26 PM	Peak Integrated by Software
SSTDICC020	BF132968.D	Benzoic acid	Christian	4/24/2023 10:04:45 AM	Jagrut	4/24/2023 6:00:28 PM	Peak Integrated by Software
SSTDICCC040	BF132969.D	Benzoic acid	Christian	4/24/2023 10:04:47 AM	Jagrut	4/24/2023 6:00:31 PM	Peak Integrated by Software
SSTDICC050	BF132970.D	Benzoic acid	Christian	4/24/2023 10:04:49 AM	Jagrut	4/24/2023 6:00:33 PM	Peak Integrated by Software
SSTDICC050	BF132970.D	Caprolactam	Christian	4/24/2023 10:04:49 AM	Jagrut	4/24/2023 6:00:33 PM	Peak Integrated by Software
SSTDICC060	BF132971.D	Benzoic acid	Christian	4/24/2023 10:04:51 AM	Jagrut	4/24/2023 6:00:36 PM	Peak Integrated by Software
SSTDICC060	BF132971.D	Caprolactam	Christian	4/24/2023 10:04:51 AM	Jagrut	4/24/2023 6:00:36 PM	Peak Integrated by Software
SSTDICC080	BF132972.D	Caprolactam	Christian	4/24/2023 10:04:52 AM	Jagrut	4/24/2023 6:00:38 PM	Peak Integrated by Software
SSTDICV040	BF132973.D	Benzoic acid	Christian	4/24/2023 10:04:54 AM	Jagrut	4/24/2023 6:00:41 PM	Peak Integrated by Software



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Manual Integration Report

Sequence:

BF050323

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF133200.D	Acenaphthene	Christian	5/4/2023 10:51:32 AM	Jagrut	5/4/2023 11:42:03 AM	Peak Integrated by Software
SSTDCCC040	BF133200.D	Benzoic acid	Christian	5/4/2023 10:51:32 AM	Jagrut	5/4/2023 11:42:03 AM	Peak Integrated by Software
PB152548BS	BF133203.D	Acenaphthene	Christian	5/4/2023 10:51:40 AM	Jagrut	5/4/2023 11:41:13 AM	Peak Integrated by Software
PB152548BS	BF133203.D	Benzoic acid	Christian	5/4/2023 10:51:40 AM	Jagrut	5/4/2023 11:41:13 AM	Peak Integrated by Software
PB152548BS	BF133203.D	Caprolactam	Christian	5/4/2023 10:51:40 AM	Jagrut	5/4/2023 11:41:13 AM	Peak Integrated by Software
O2583-04MS	BF133210.D	Caprolactam	Christian	5/4/2023 10:51:46 AM	Jagrut	5/4/2023 11:41:17 AM	Peak Integrated by Software
O2583-04MSD	BF133211.D	Caprolactam	Christian	5/4/2023 10:51:48 AM	Jagrut	5/4/2023 11:41:29 AM	Peak Integrated by Software



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Manual Integration Report

Sequence:

BF050923

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF133309.D	Acenaphthene	Christian	5/10/2023 10:55:58 AM	Jagrut	5/10/2023 1:00:42 PM	Peak Integrated by Software
SSTDCCC040	BF133309.D	Benzoic acid	Christian	5/10/2023 10:55:58 AM	Jagrut	5/10/2023 1:00:42 PM	Peak Integrated by Software
SSTDCCC040	BF133309.D	Caprolactam	Christian	5/10/2023 10:55:58 AM	Jagrut	5/10/2023 1:00:42 PM	Peak Integrated by Software