

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG052423\
 Data File : BG057546.D
 Acq On : 24 May 2023 23:02
 Operator : CG/JU
 Sample : 02897-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OILY-SOLIDS-0523

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 05/25/2023
 Supervised By : Jagrut Upadhyay 05/25/2023

Quant Time: May 25 02:28:28 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 25 02:19:01 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.361	152	23445	20.000	ng	0.00
21) Naphthalene-d8	11.198	136	85148	20.000	ng	# 0.00
39) Acenaphthene-d10	14.975	164	58833	20.000	ng	0.00
64) Phenanthrene-d10	17.713	188	131675	20.000	ng	-0.01
76) Chrysene-d12	22.030	240	117336	20.000	ng	# 0.00
86) Perylene-d12	25.543	264	130376	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.876	112	67102	48.959	ng	0.00
7) Phenol-d6	7.503	99	91375	43.904	ng	0.00
23) Nitrobenzene-d5	9.536	82	60227	29.687	ng	-0.01
42) 2,4,6-Tribromophenol	16.456	330	37919	45.424	ng	-0.01
45) 2-Fluorobiphenyl	13.595	172	135617	31.045	ng	-0.01
79) Terphenyl-d14	20.280	244	226492	31.501	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	11.251	128	399346	87.728	ng	99
37) 2-Methylnaphthalene	12.831	142	844886	236.063	ng	98
38) 1-Methylnaphthalene	13.048	142	505305	149.788	ng	99
46) 1,1'-Biphenyl	13.806	154	17542	4.018	ng	98
52) Acenaphthene	15.034	154	10579	3.210	ng	# 75
58) Fluorene	16.009	166	18610	4.080	ng	# 94
71) Phenanthrene	17.754	178	62391	9.247	ng	96
74) Di-n-butylphthalate	18.623	149	36140	5.389	ng	# 91
75) Fluoranthene	19.745	202	63513	7.568	ng	96
78) Pyrene	20.109	202	62842m	7.370	ng	
81) Benzo(a)anthracene	22.013	228	25241	3.019	ng	# 90
83) Chrysene	22.083	228	31055m	3.948	ng	
84) Bis(2-ethylhexyl)phtha...	21.848	149	384999	96.184	ng	98
88) Benzo(b)fluoranthene	24.415	252	35996	4.224	ng	# 38
90) Benzo(a)pyrene	25.379	252	19108	2.295	ng	# 39
92) Benzo(g,h,i)perylene	30.883	276	17651	2.284	ng	# 79

(#) = qualifier out of range (m) = manual integration (+) = signals summed

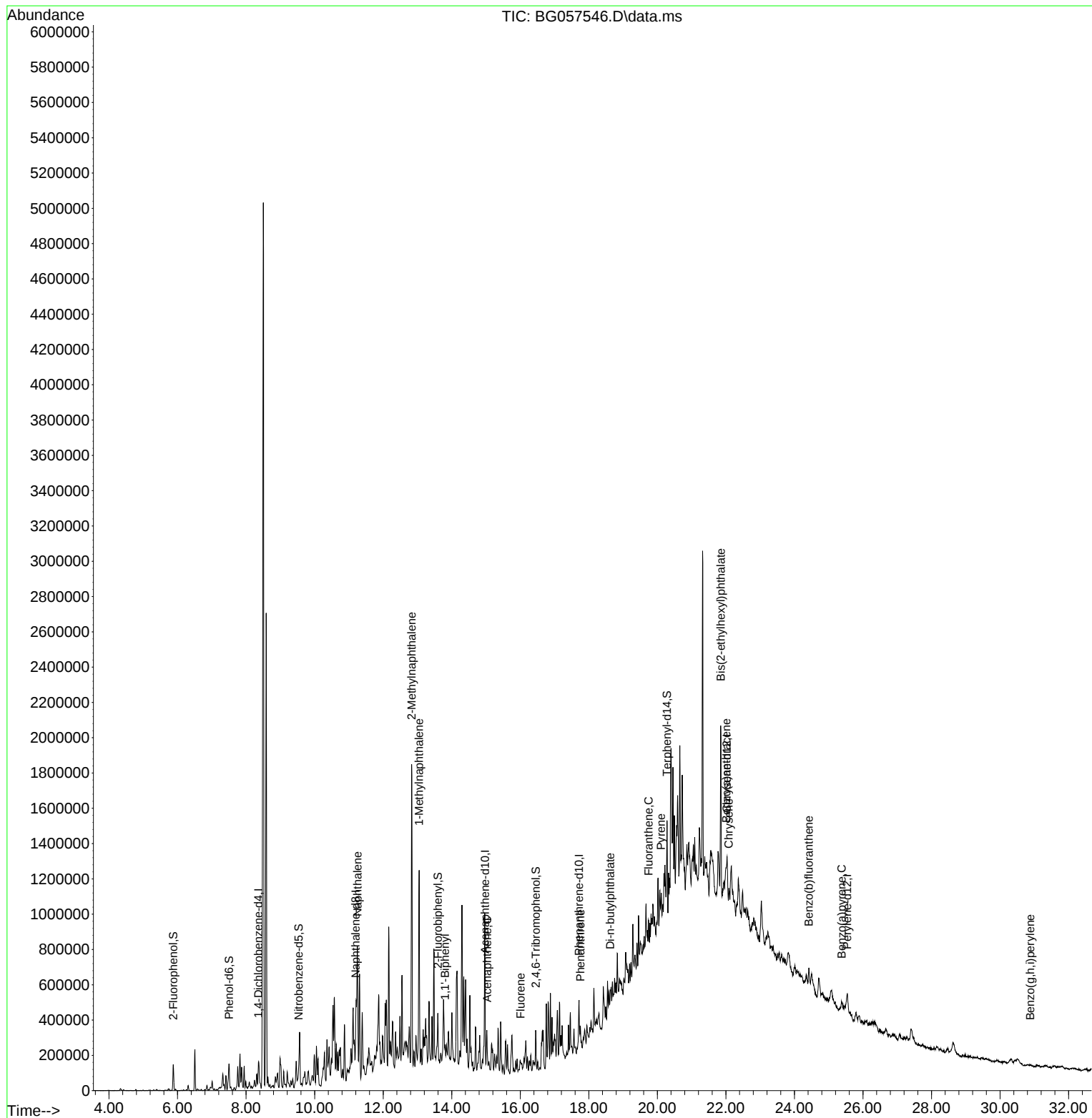
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG052423\
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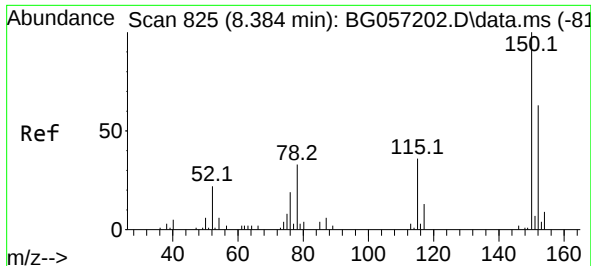
Instrument :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042723.M
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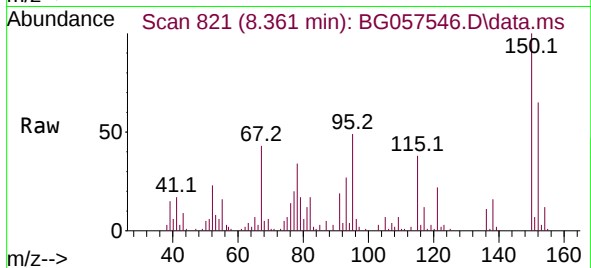
Reviewed By : Christian Giraldo 05/25/2023
Supervised By : Jagrut Upadhyay 05/25/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.361 min Scan# 81
Delta R.T. -0.005 min
Lab File: BG057546.D
Acq: 24 May 2023 23:02

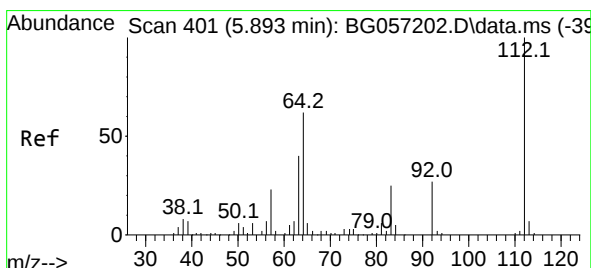
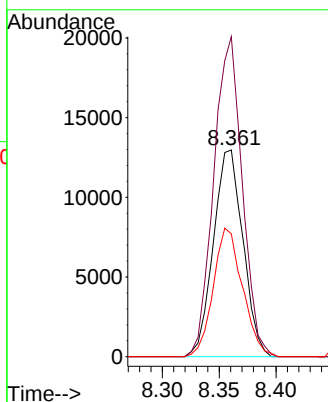
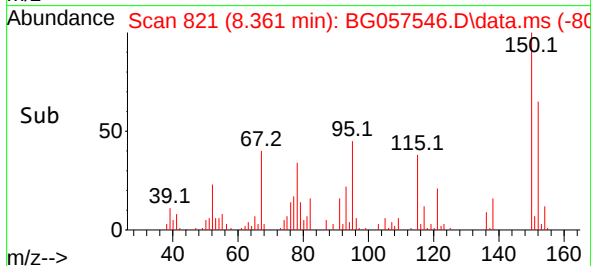
Instrument :
BNA_G
ClientSampleId :
OILY-SOLIDS-0523



Tgt Ion:152 Resp: 2344
Ion Ratio Lower Upper
152 100
150 154.8 126.2 189.4
115 59.5 45.0 67.4

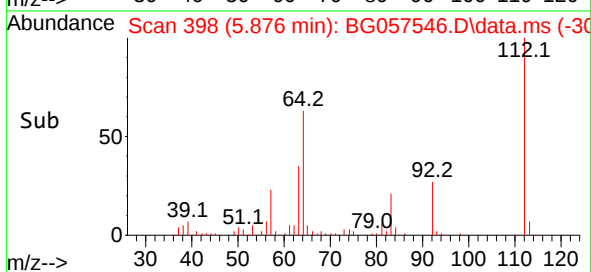
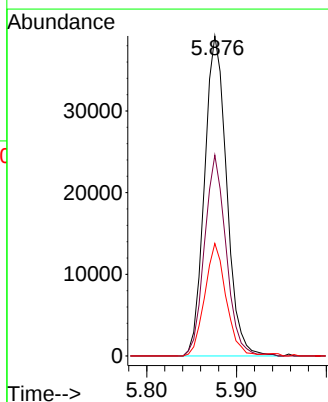
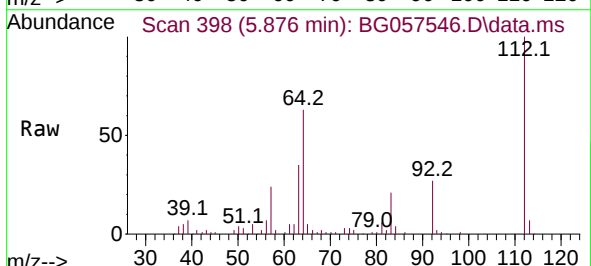
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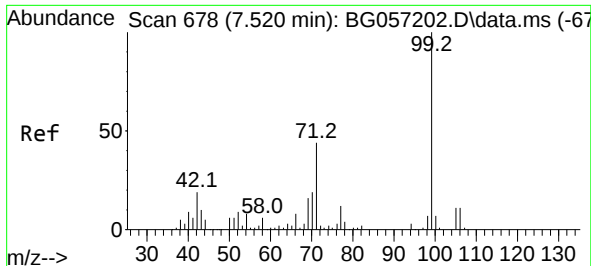
Reviewed By :Christian Giraldo 05/25/2023
Supervised By :Jagrut Upadhyay 05/25/2023



#5
2-Fluorophenol
Concen: 48.959 ng
RT: 5.876 min Scan# 398
Delta R.T. 0.001 min
Lab File: BG057546.D
Acq: 24 May 2023 23:02

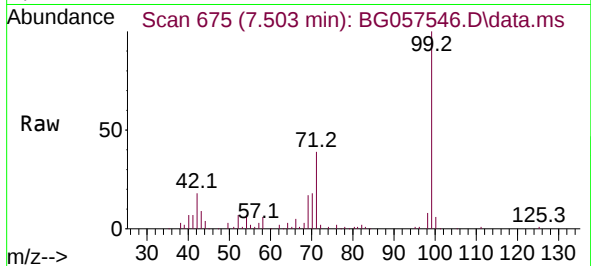
Tgt Ion:112 Resp: 67102
Ion Ratio Lower Upper
112 100
64 62.7 49.4 74.2
63 35.2 31.6 47.4





#7
Phenol-d6
Concen: 43.904 ng
RT: 7.503 min Scan# 61
Delta R.T. -0.005 min
Lab File: BG057546.D
Acq: 24 May 2023 23:02

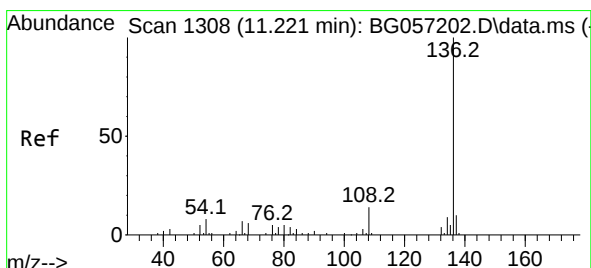
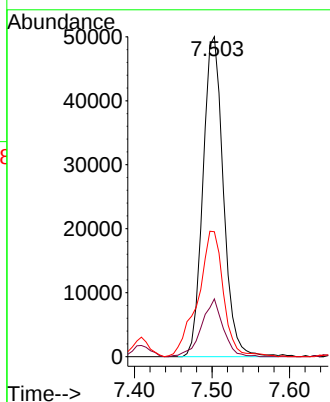
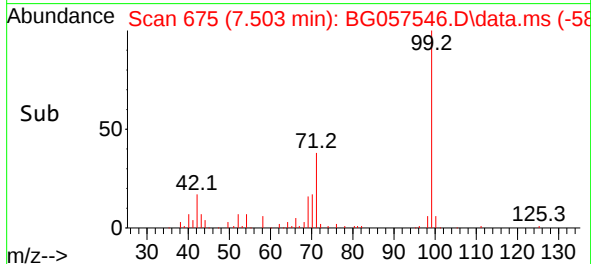
Instrument :
BNA_G
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OILY-SOLIDS-0523



Tgt Ion: 99 Resp: 9137
Ion Ratio Lower Upper
99 100
42 18.1 15.1 22.7
71 39.0 35.2 52.8

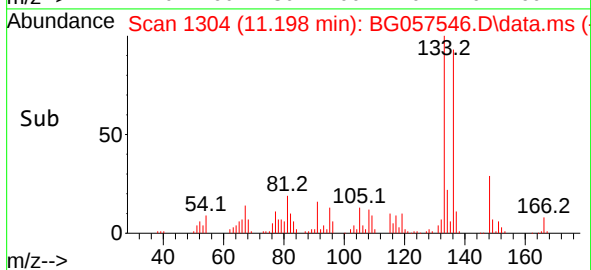
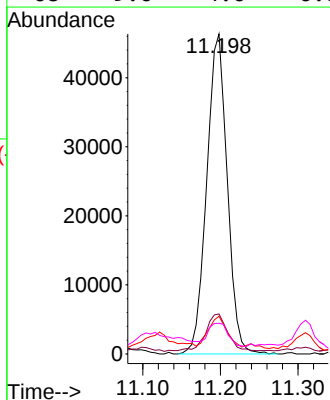
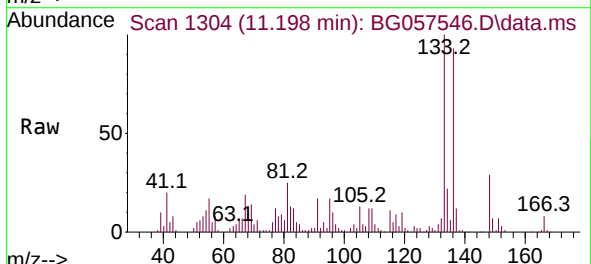
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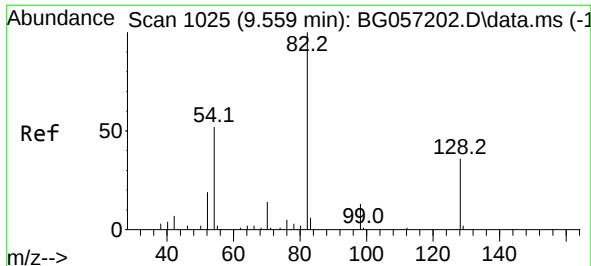
Reviewed By :Christian Giraldo 05/25/2023
Supervised By :Jagrut Upadhyay 05/25/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.198 min Scan# 1304
Delta R.T. -0.005 min
Lab File: BG057546.D
Acq: 24 May 2023 23:02

Tgt Ion:136 Resp: 85148
Ion Ratio Lower Upper
136 100
137 12.5 8.3 12.5#
54 11.8 6.7 10.1#
68 9.6 4.6 6.8#





#23

Nitrobenzene-d5

Concen: 29.687 ng

RT: 9.536 min Scan# 1021

Delta R.T. -0.011 min

Lab File: BG057546.D

Acq: 24 May 2023 23:02

Instrument :

BNA_G

ClientSampleId :

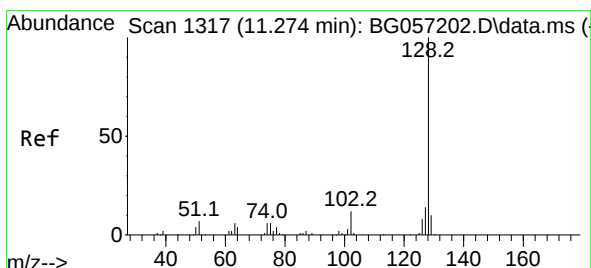
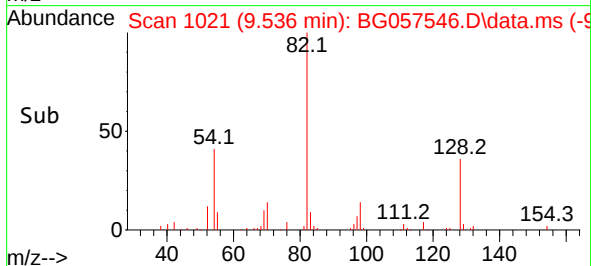
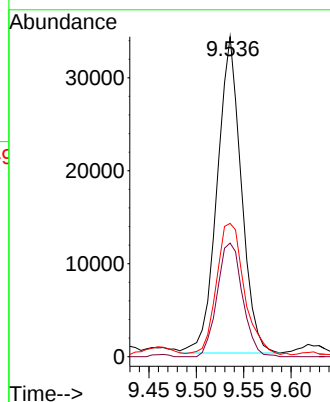
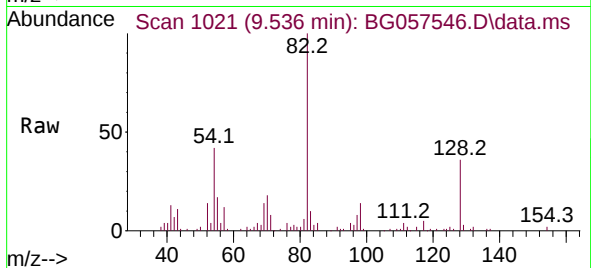
OILY-SOLIDS-0523

Tgt Ion: 82	Resp: 6022
Ion Ratio	Lower Upper
82 100	
128 35.5	29.0 43.4
54 41.6	41.4 62.0

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Supervised By :Jagrut Upadhyay 05/25/2023



#31

Naphthalene

Concen: 87.728 ng

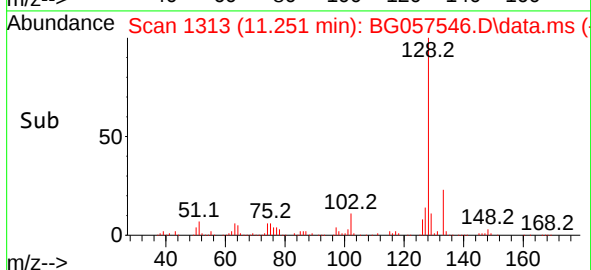
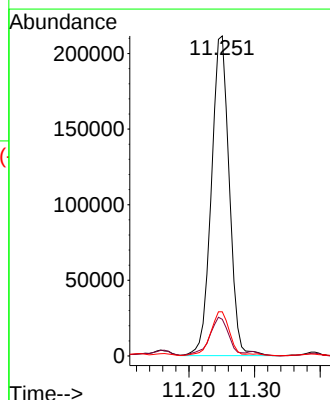
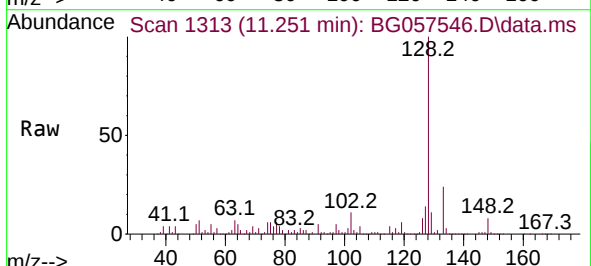
RT: 11.251 min Scan# 1313

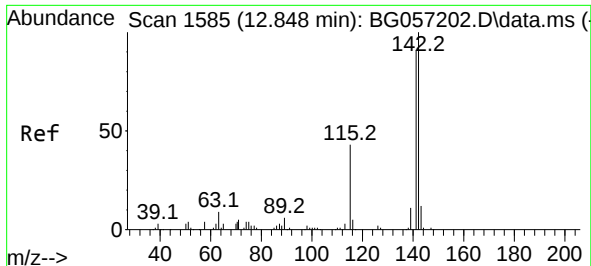
Delta R.T. -0.005 min

Lab File: BG057546.D

Acq: 24 May 2023 23:02

Tgt Ion:128	Resp: 399346
Ion Ratio	Lower Upper
128 100	
129 11.4	8.3 12.5
127 13.8	11.1 16.7





#37

2-Methylnaphthalene

Concen: 236.063 ng

RT: 12.831 min Scan# 1

Delta R.T. 0.001 min

Lab File: BG057546.D

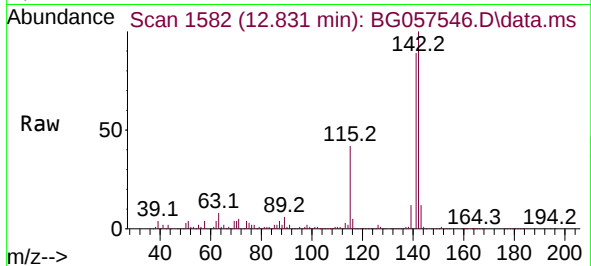
Acq: 24 May 2023 23:02

Instrument :

BNA_G

ClientSampleId :

OILY-SOLIDS-0523



Tgt Ion:142 Resp: 844880

Ion Ratio Lower Upper

142 100

141 88.9 73.1 109.7

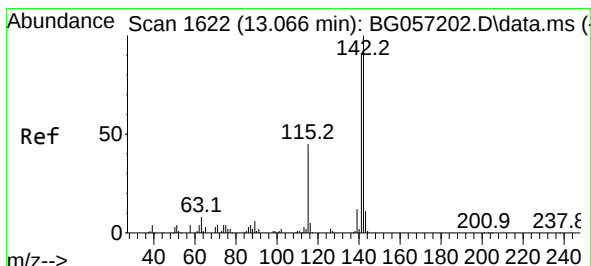
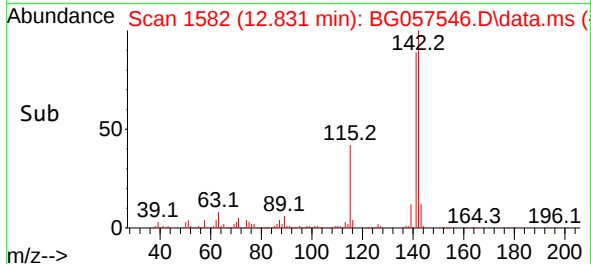
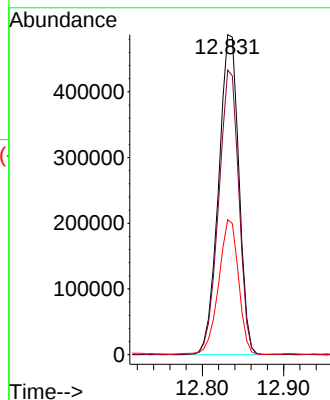
115 42.2 34.6 52.0

Manual Integrations

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Reviewed By :Christian Giraldo 05/25/2023

Supervised By :Jagrut Upadhyay 05/25/2023



#38

1-Methylnaphthalene

Concen: 149.788 ng

RT: 13.048 min Scan# 1619

Delta R.T. 0.001 min

Lab File: BG057546.D

Acq: 24 May 2023 23:02

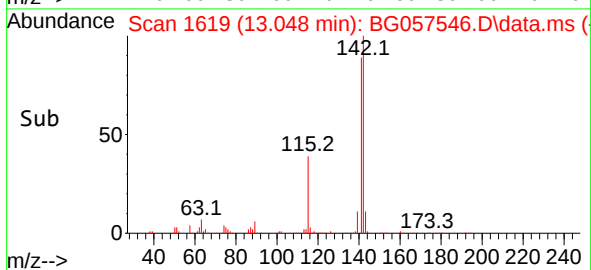
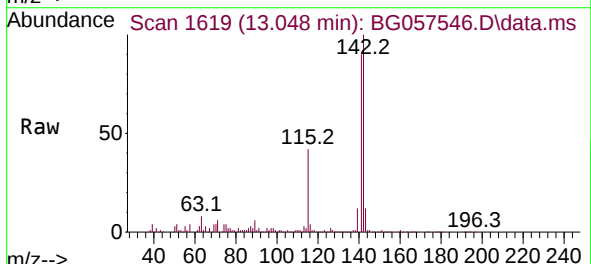
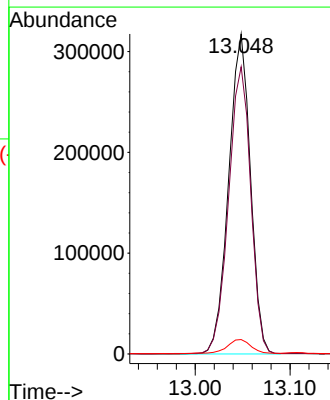
Tgt Ion:142 Resp: 505305

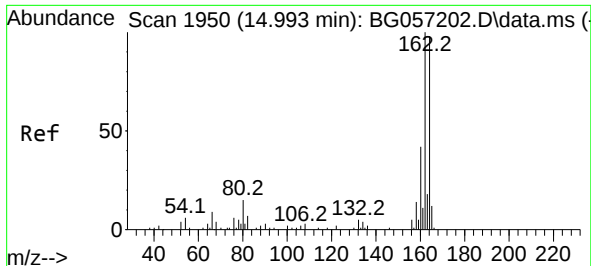
Ion Ratio Lower Upper

142 100

141 89.8 72.5 108.7

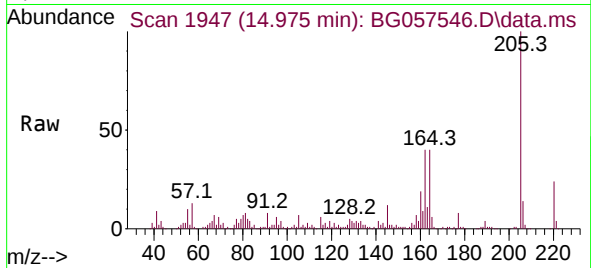
116 4.5 3.7 5.5





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.975 min Scan# 1947
Delta R.T. -0.005 min
Lab File: BG057546.D
Acq: 24 May 2023 23:02

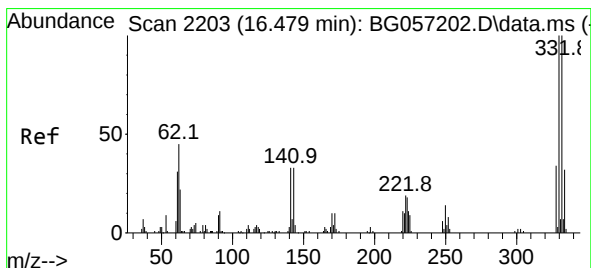
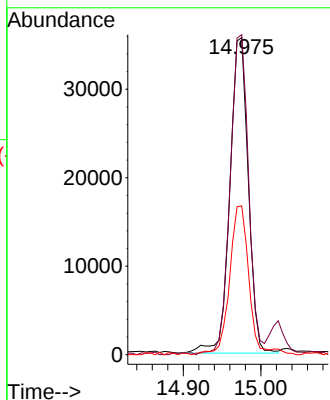
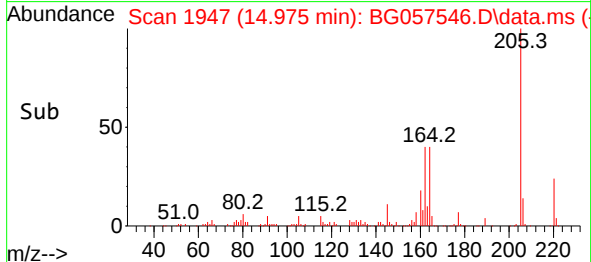
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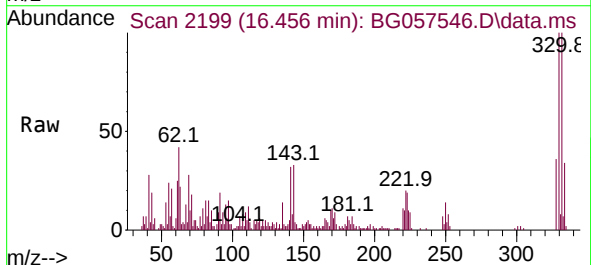
Tgt Ion:164 Resp: 5883
Ion Ratio Lower Upper
164 100
162 100.9 81.8 122.6
160 46.9 34.6 52.0

Manual Integrations
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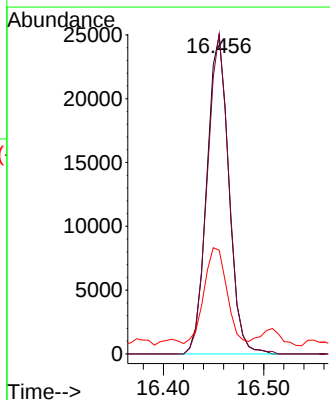
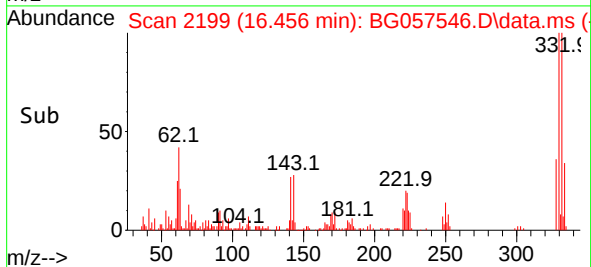
Reviewed By :Christian Giraldo 05/25/2023
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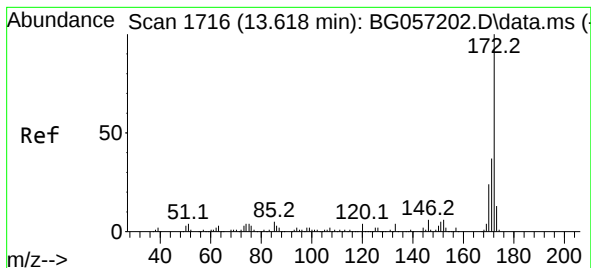


#42
2,4,6-Tribromophenol
Concen: 45.424 ng
RT: 16.456 min Scan# 2199
Delta R.T. -0.011 min
Lab File: BG057546.D
Acq: 24 May 2023 23:02



Tgt Ion:330 Resp: 37919
Ion Ratio Lower Upper
330 100
332 98.9 78.2 117.2
141 31.0 27.8 41.8





#45

2-Fluorobiphenyl

Concen: 31.045 ng

RT: 13.595 min Scan# 1712

Delta R.T. -0.011 min

Lab File: BG057546.D

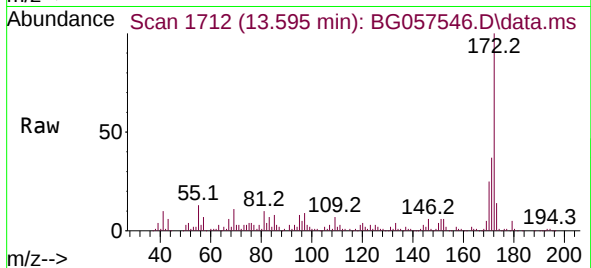
Acq: 24 May 2023 23:02

Instrument :

BNA_G

ClientSampleId :

OILY-SOLIDS-0523



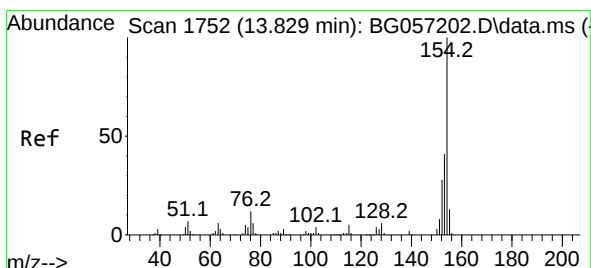
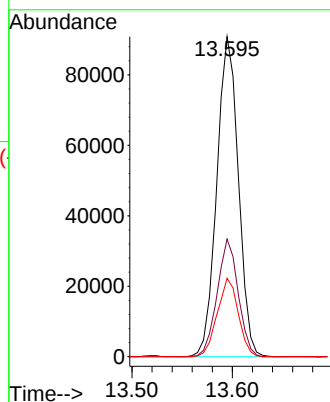
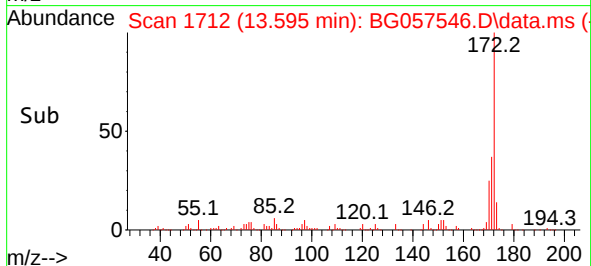
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.4	44.0
170	24.5	19.0	28.6

Manual Integrations

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Reviewed By :Christian Giraldo 05/25/2023

Supervised By :Jagrut Upadhyay 05/25/2023



#46

1,1'-Biphenyl

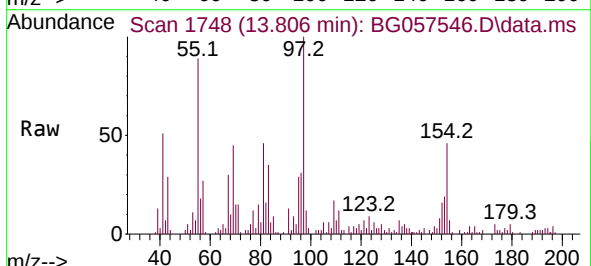
Concen: 4.018 ng

RT: 13.806 min Scan# 1748

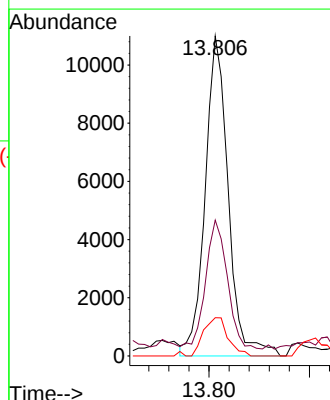
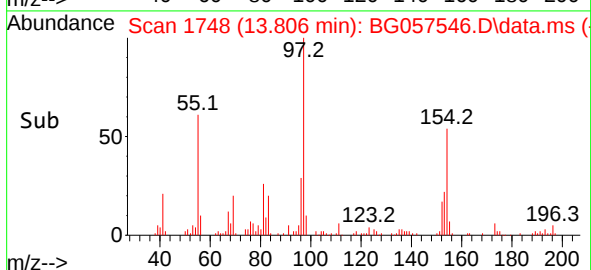
Delta R.T. -0.011 min

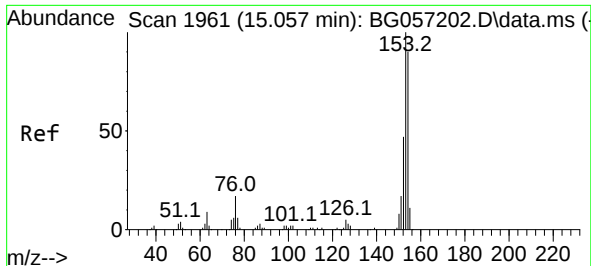
Lab File: BG057546.D

Acq: 24 May 2023 23:02



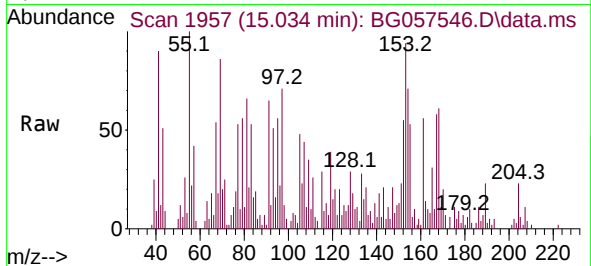
Tgt Ion	Ratio	Lower	Upper
154	100		
153	42.5	20.9	60.9
76	12.0	0.0	31.7





#52
Acenaphthene
Concen: 3.210 ng
RT: 15.034 min Scan# 1957
Delta R.T. -0.011 min
Lab File: BG057546.D
Acq: 24 May 2023 23:02

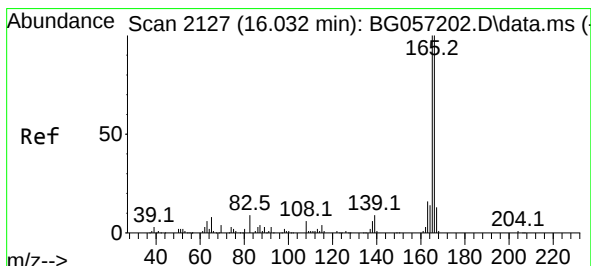
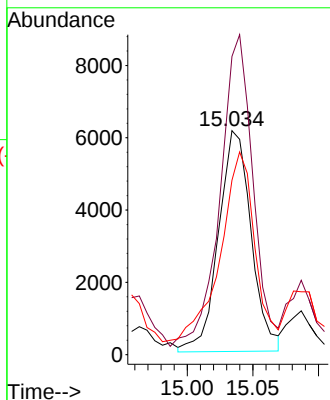
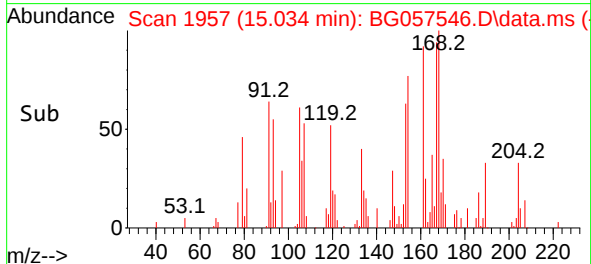
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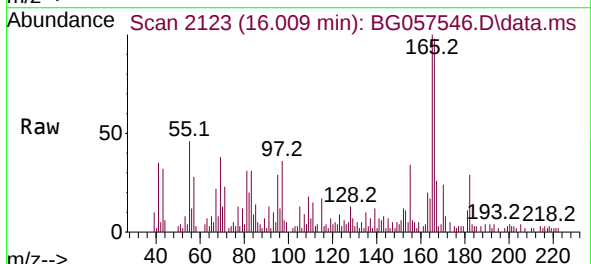
Tgt Ion:154 Resp: 10579
Ion Ratio Lower Upper
154 100
153 133.1 89.3 133.9
152 77.9 41.7 62.5

Manual Integrations
APPROVED

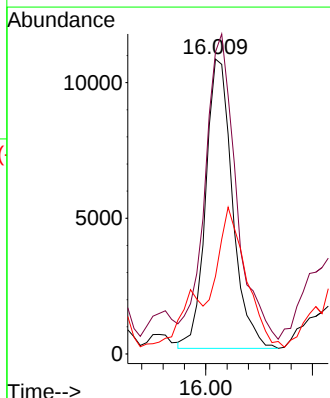
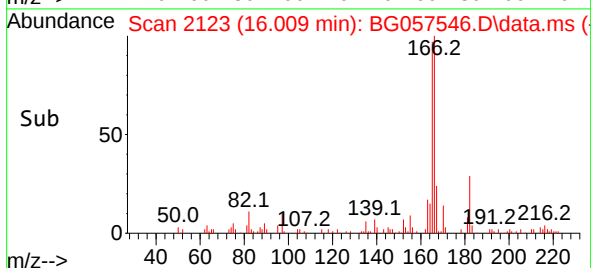
Reviewed By :Christian Giraldo 05/25/2023
Supervised By :Jagrut Upadhyay 05/25/2023

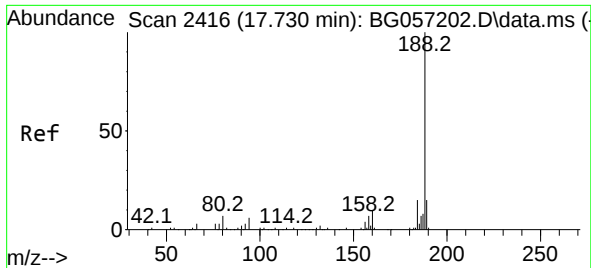


#58
Fluorene
Concen: 4.080 ng
RT: 16.009 min Scan# 2123
Delta R.T. -0.011 min
Lab File: BG057546.D
Acq: 24 May 2023 23:02



Tgt Ion:166 Resp: 18610
Ion Ratio Lower Upper
166 100
165 102.4 80.1 120.1
167 26.3 10.2 15.2





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.713 min Scan# 2416
Delta R.T. -0.011 min
Lab File: BG057546.D
Acq: 24 May 2023 23:02

Instrument :

BNA_G

ClientSampleId :

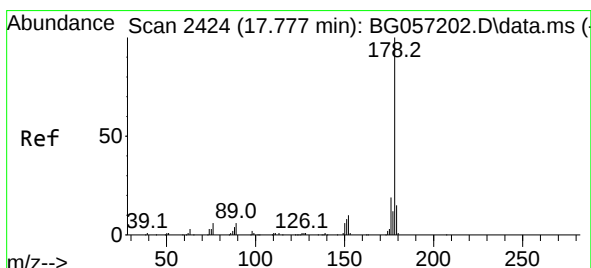
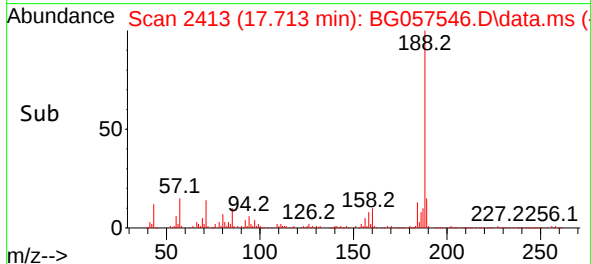
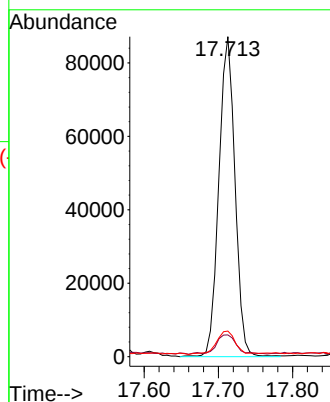
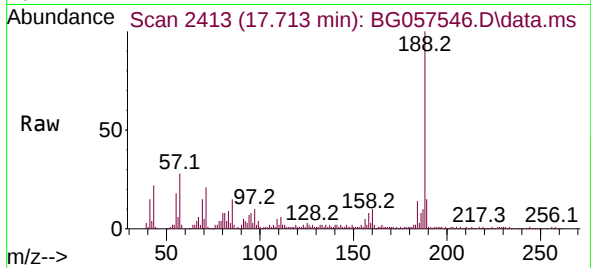
OILY-SOLIDS-0523

Tgt Ion:188 Resp: 13167
Ion Ratio Lower Upper
188 100
94 6.8 5.1 7.7
80 8.0 5.7 8.5

Manual Integrations

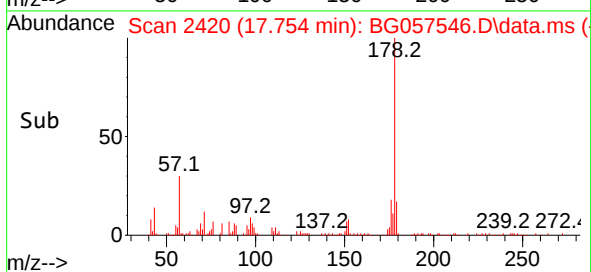
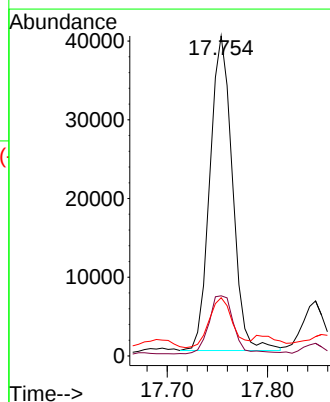
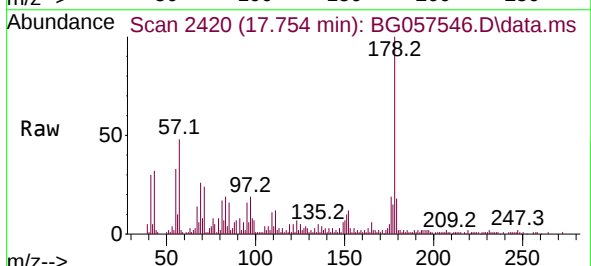
APPROVED

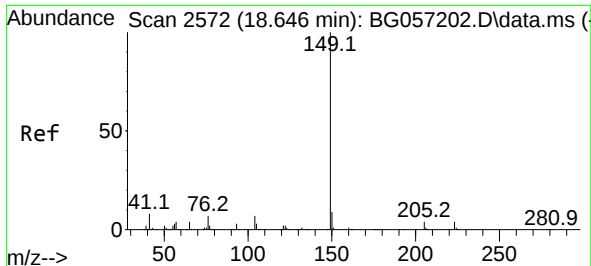
Reviewed By :Christian Giraldo 05/25/2023
Supervised By :Jagrut Upadhyay 05/25/2023



#71
Phenanthrene
Concen: 9.247 ng
RT: 17.754 min Scan# 2420
Delta R.T. -0.011 min
Lab File: BG057546.D
Acq: 24 May 2023 23:02

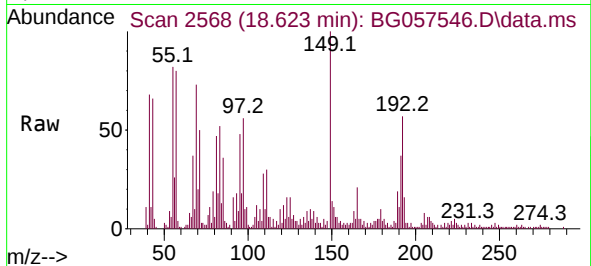
Tgt Ion:178 Resp: 62391
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 18.2 12.3 18.5





#74
Di-n-butylphthalate
Concen: 5.389 ng
RT: 18.623 min Scan# 21
Delta R.T. -0.011 min
Lab File: BG057546.D
Acq: 24 May 2023 23:02

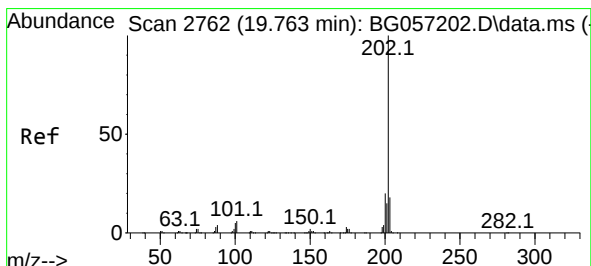
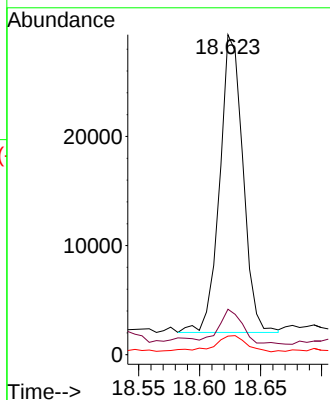
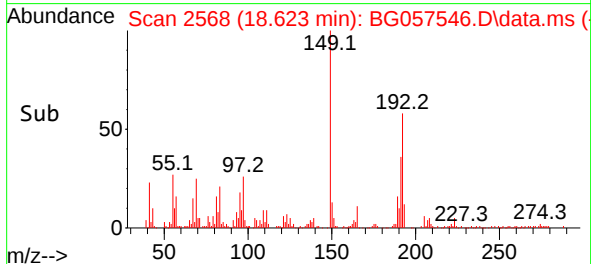
Instrument :
BNA_G
ClientSampleId :
OILY-SOLIDS-0523



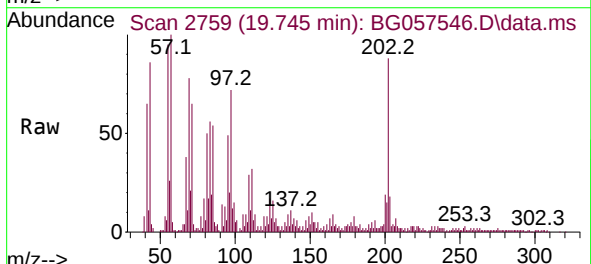
Tgt Ion:149 Resp: 36140
Ion Ratio Lower Upper
149 100
150 14.2 7.3 10.9
104 5.8 5.4 8.2

Manual Integrations
APPROVED

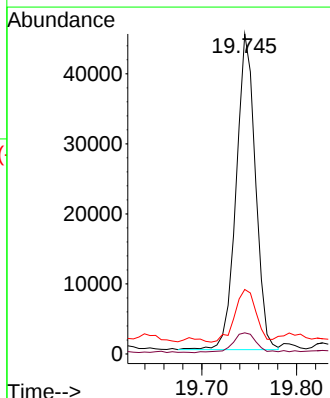
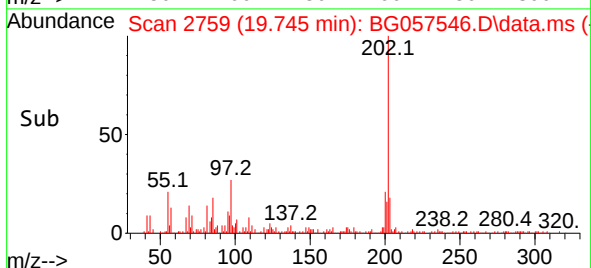
Reviewed By :Christian Giraldo 05/25/2023
Supervised By :Jagrut Upadhyay 05/25/2023

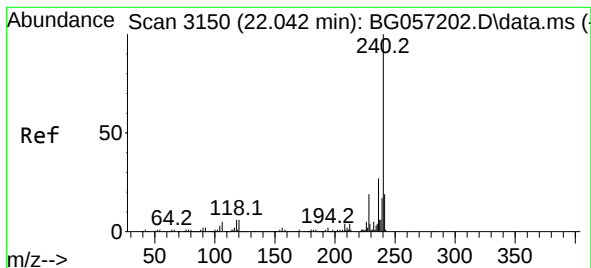


#75
Fluoranthene
Concen: 7.568 ng
RT: 19.745 min Scan# 2759
Delta R.T. -0.005 min
Lab File: BG057546.D
Acq: 24 May 2023 23:02



Tgt Ion:202 Resp: 63513
Ion Ratio Lower Upper
202 100
101 6.6 0.0 26.2
203 20.2 0.0 37.9





#76

Chrysene-d12

Concen: 20.000 ng

RT: 22.030 min Scan# 3150

Delta R.T. -0.005 min

Lab File: BG057546.D

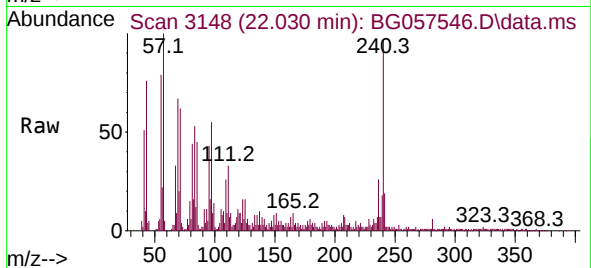
Acq: 24 May 2023 23:02

Instrument :

BNA_G

ClientSampleId :

OILY-SOLIDS-0523



Tgt Ion:240 Resp: 117330

Ion Ratio Lower Upper

240 100

120 9.7 4.9 7.3

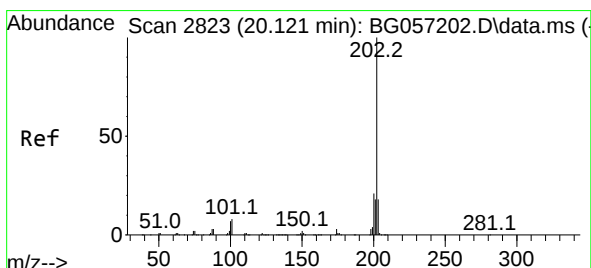
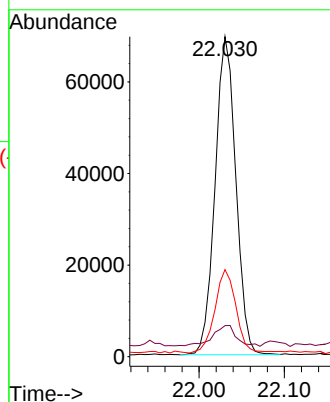
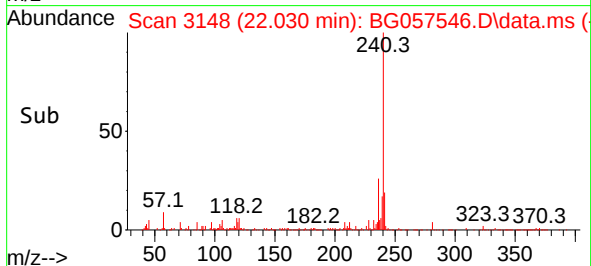
236 27.2 21.4 32.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/25/2023

Supervised By :Jagrut Upadhyay 05/25/2023



#78

Pyrene

Concen: 7.370 ng m

RT: 20.109 min Scan# 2821

Delta R.T. -0.005 min

Lab File: BG057546.D

Acq: 24 May 2023 23:02

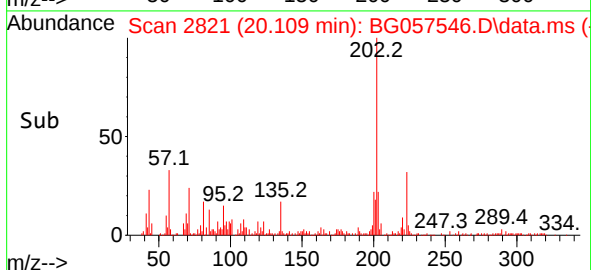
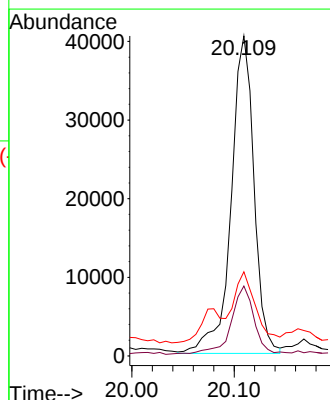
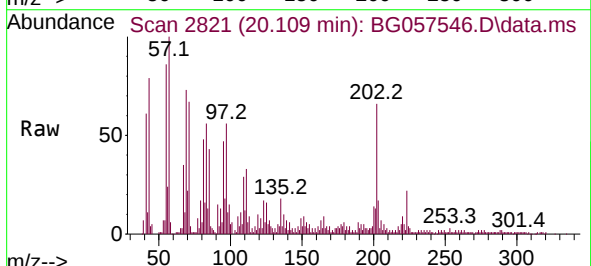
Tgt Ion:202 Resp: 62842

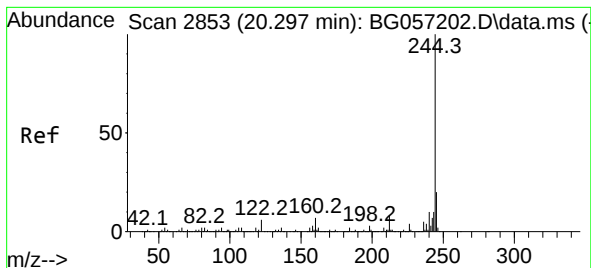
Ion Ratio Lower Upper

202 100

200 21.9 17.0 25.4

203 26.3 14.2 21.4





#79

Terphenyl-d14

Concen: 31.501 ng

RT: 20.280 min Scan# 21

Delta R.T. -0.011 min

Lab File: BG057546.D

Acq: 24 May 2023 23:02

Instrument :

BNA_G

ClientSampleId :

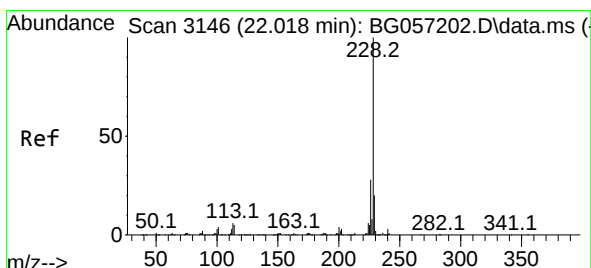
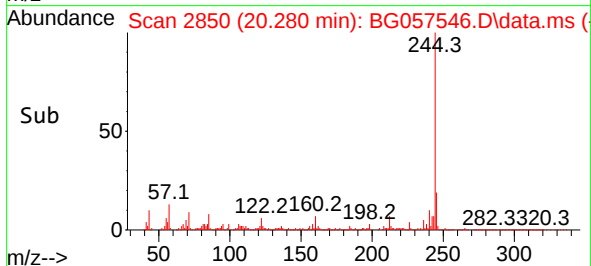
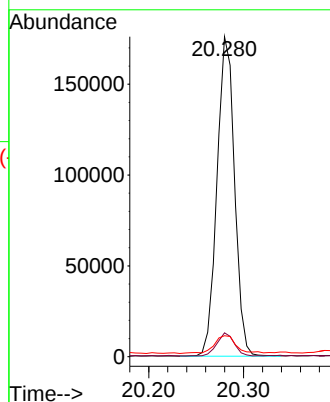
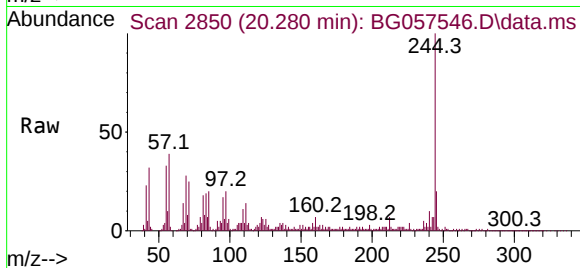
OILY-SOLIDS-0523

Tgt Ion:	244	Resp:	22649
Ion Ratio	Lower	Upper	
244	100		
212	7.4	6.1	9.1
122	6.6	5.1	7.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/25/2023
Supervised By :Jagrut Upadhyay 05/25/2023



#81

Benzo(a)anthracene

Concen: 3.019 ng

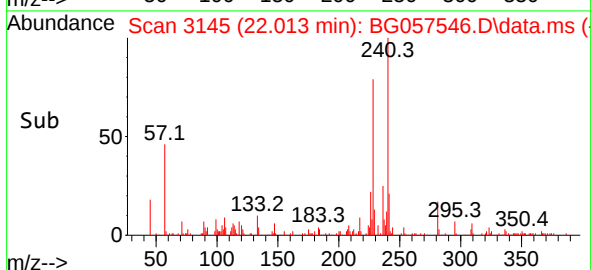
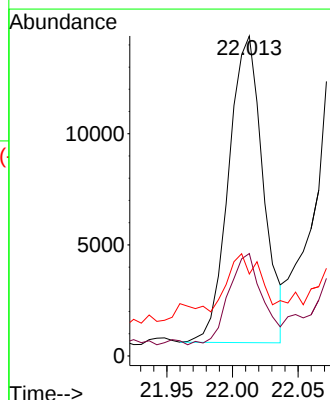
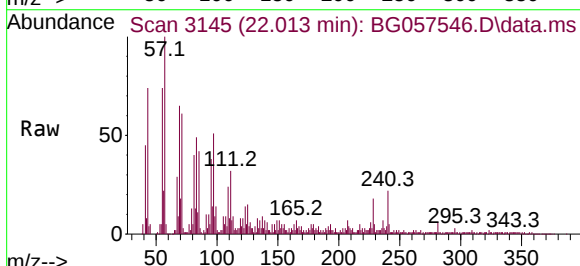
RT: 22.013 min Scan# 3145

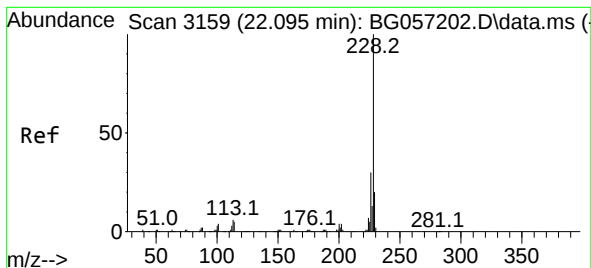
Delta R.T. 0.001 min

Lab File: BG057546.D

Acq: 24 May 2023 23:02

Tgt Ion:	228	Resp:	25241
Ion Ratio	Lower	Upper	
228	100		
226	32.0	22.0	33.0
229	25.6	15.8	23.8





#83

Chrysene

Concen: 3.948 ng m

RT: 22.083 min Scan# 3105

Delta R.T. 0.001 min

Lab File: BG057546.D

Acq: 24 May 2023 23:02

Instrument :

BNA_G

ClientSampleId :

OILY-SOLIDS-0523

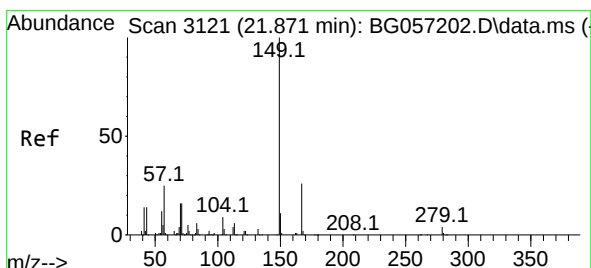
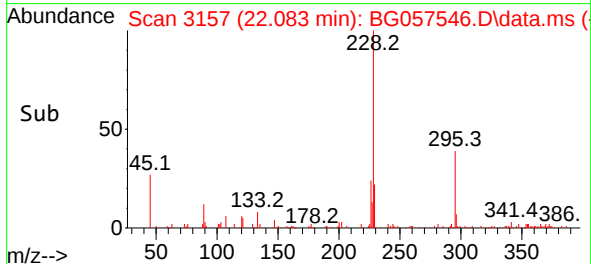
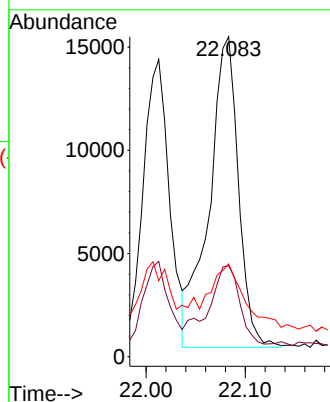
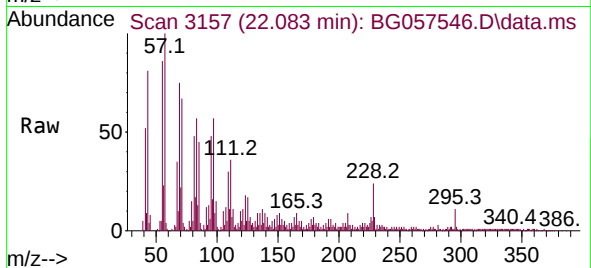
Tgt Ion:	228	Resp:	3105
Ion Ratio	Lower	Upper	
228	100		
226	28.5	24.3	36.5
229	29.0	15.9	23.9

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/25/2023

Supervised By :Jagrut Upadhyay 05/25/2023



#84

Bis(2-ethylhexyl)phthalate

Concen: 96.184 ng

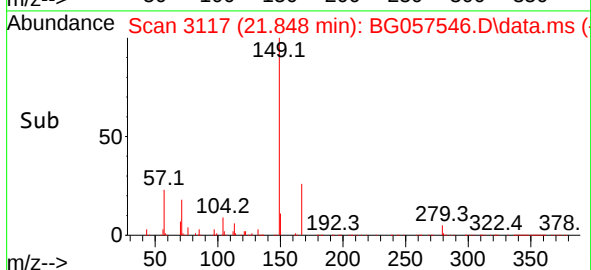
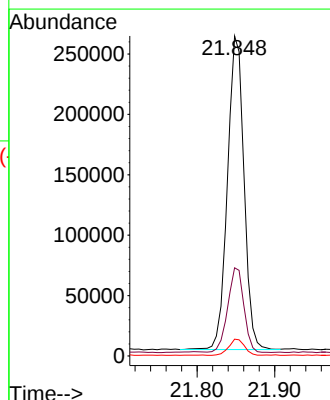
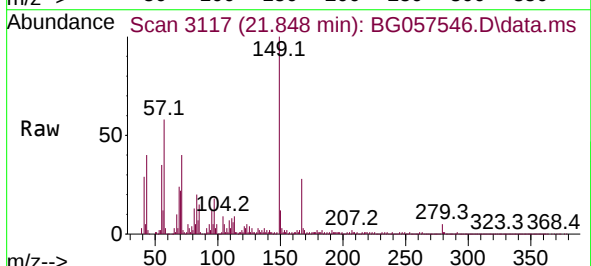
RT: 21.848 min Scan# 3117

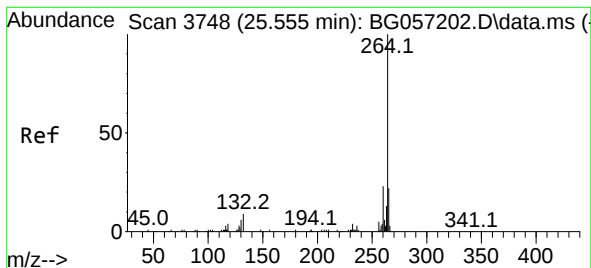
Delta R.T. 0.001 min

Lab File: BG057546.D

Acq: 24 May 2023 23:02

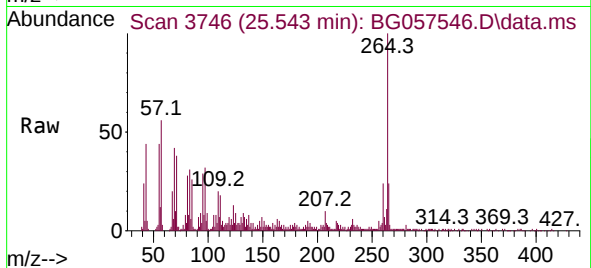
Tgt Ion:	149	Resp:	384999
Ion Ratio	Lower	Upper	
149	100		
167	27.6	21.2	31.8
279	5.3	3.5	5.3





#86
Perylene-d12
Concen: 20.000 ng
RT: 25.543 min Scan# 31
Delta R.T. 0.001 min
Lab File: BG057546.D
Acq: 24 May 2023 23:02

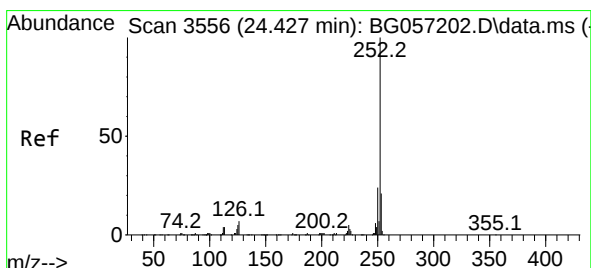
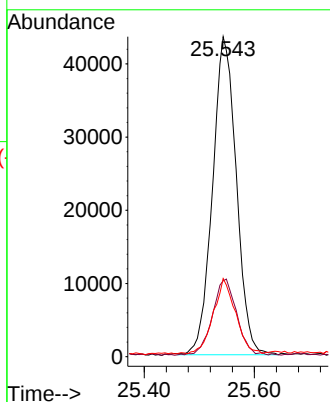
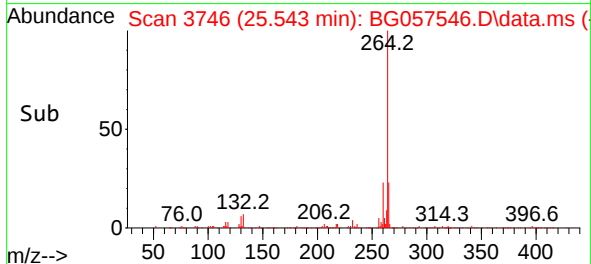
Instrument :
BNA_G
ClientSampleId :
OILY-SOLIDS-0523



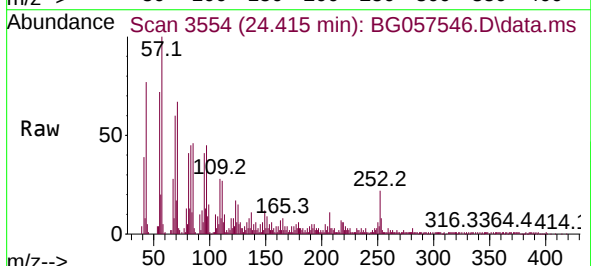
Tgt Ion:264 Resp: 130370
Ion Ratio Lower Upper
264 100
260 23.7 18.8 28.2
265 24.4 17.9 26.9

Manual Integrations
APPROVED

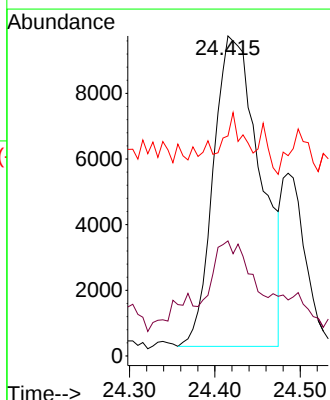
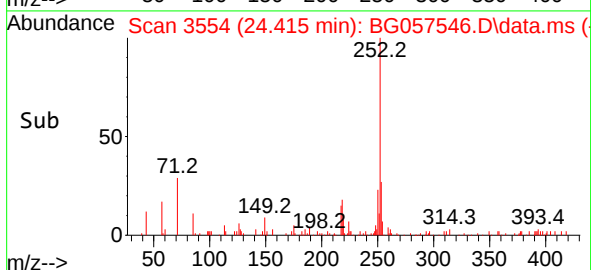
Reviewed By :Christian Giraldo 05/25/2023
Supervised By :Jagrut Upadhyay 05/25/2023

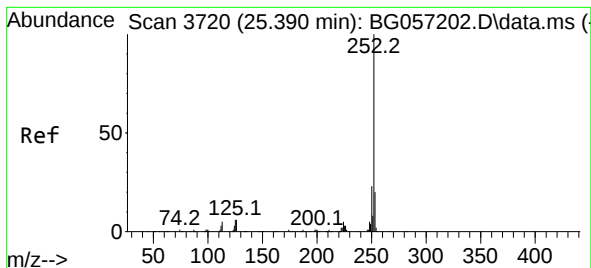


#88
Benzo(b)fluoranthene
Concen: 4.224 ng
RT: 24.415 min Scan# 3554
Delta R.T. -0.005 min
Lab File: BG057546.D
Acq: 24 May 2023 23:02



Tgt Ion:252 Resp: 35996
Ion Ratio Lower Upper
252 100
253 35.9 17.0 25.6#
125 68.7 4.2 6.2#





#90

Benzo(a)pyrene

Concen: 2.295 ng

RT: 25.379 min Scan# 31

Delta R.T. -0.005 min

Lab File: BG057546.D

Acq: 24 May 2023 23:02

Instrument :

BNA_G

ClientSampleId :

OILY-SOLIDS-0523

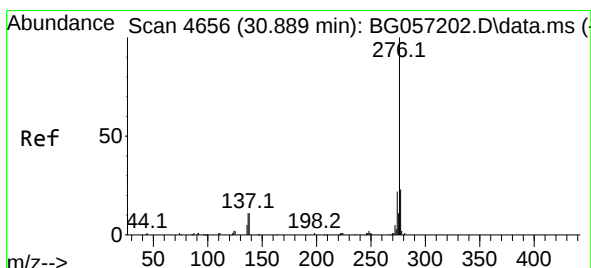
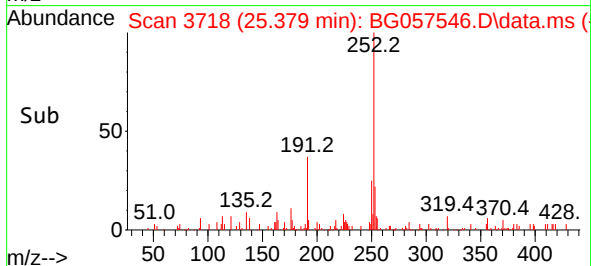
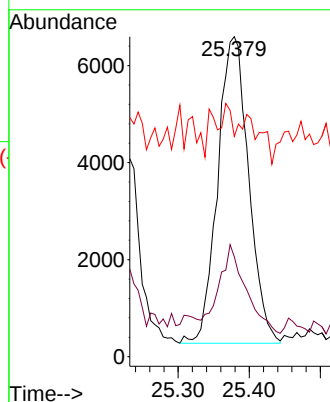
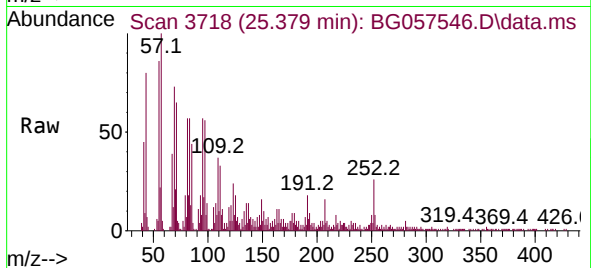
Tgt Ion:	252	Resp:	1910
Ion Ratio	Lower	Upper	
252	100		
253	31.2	16.3	24.5
125	68.8	5.0	7.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/25/2023

Supervised By :Jagrut Upadhyay 05/25/2023



#92

Benzo(g,h,i)perylene

Concen: 2.284 ng

RT: 30.883 min Scan# 4655

Delta R.T. -0.011 min

Lab File: BG057546.D

Acq: 24 May 2023 23:02

Tgt Ion:	276	Resp:	17651
Ion Ratio	Lower	Upper	
276	100		
277	36.7	18.4	27.6
138	13.2	9.0	13.4

