

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042523\
 Data File : BG057182.D
 Acq On : 25 Apr 2023 18:43
 Operator : CG/JU
 Sample : 02386-11DL 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SPA-3WC-23-04DL

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 04/26/2023
 Supervised By :Jagrut Upadhyay 04/26/2023

Quant Time: Apr 26 00:24:23 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042423.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 25 04:59:02 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.390	152	18069	20.000	ng	0.00
21) Naphthalene-d8	11.222	136	70853	20.000	ng	# 0.00
39) Acenaphthene-d10	14.999	164	49923	20.000	ng	0.00
64) Phenanthrene-d10	17.742	188	102671	20.000	ng	0.00
76) Chrysene-d12	22.060	240	94593	20.000	ng	0.00
86) Perylene-d12	25.602	264	103381	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.906	112	15172	15.216	ng	0.00
7) Phenol-d6	7.521	99	23277	16.135	ng	0.00
23) Nitrobenzene-d5	9.559	82	17941	12.518	ng	0.00
42) 2,4,6-Tribromophenol	16.479	330	9402	14.274	ng	0.00
45) 2-Fluorobiphenyl	13.624	172	35935	9.674	ng	0.00
79) Terphenyl-d14	20.310	244	55324	10.230	ng	0.00
Target Compounds						Qvalue
12) 1,3-Dichlorobenzene	8.279	146	13126	10.608	ng	# 89
13) 1,4-Dichlorobenzene	8.426	146	60182	48.261	ng	97
14) 1,2-Dichlorobenzene	8.749	146	48054	39.911	ng	98
27) 2,4-Dimethylphenol	10.370	122	4501m	4.356	ng	
30) 1,2,4-Trichlorobenzene	11.081	180	16985	12.067	ng	97
31) Naphthalene	11.275	128	94921	25.223	ng	98
37) 2-Methylnaphthalene	12.849	142	81245	27.434	ng	98
38) 1-Methylnaphthalene	13.066	142	47238	17.277	ng	97
46) 1,1'-Biphenyl	13.836	154	69497	18.676	ng	97
58) Fluorene	16.039	166	12256	3.225	ng	# 95
66) n-Nitrosodiphenylamine	16.233	169	17209	6.424	ng	# 75
71) Phenanthrene	17.784	178	49292	9.404	ng	97
72) Anthracene	17.872	178	48949	9.236	ng	98
75) Fluoranthene	19.775	202	30977	4.757	ng	91
78) Pyrene	20.133	202	35278	5.493	ng	# 91
80) Butylbenzylphthalate	20.991	149	14223	11.147	ng	# 28
83) Chrysene	22.113	228	16903	2.695	ng	# 74
84) Bis(2-ethylhexyl)phtha...	21.901	149	1143592	403.263	ng	# 98
85) Di-n-octyl phthalate	23.200	149	86203m	20.319	ng	
88) Benzo(b)fluoranthene	24.474	252	16234	2.505	ng	# 40

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

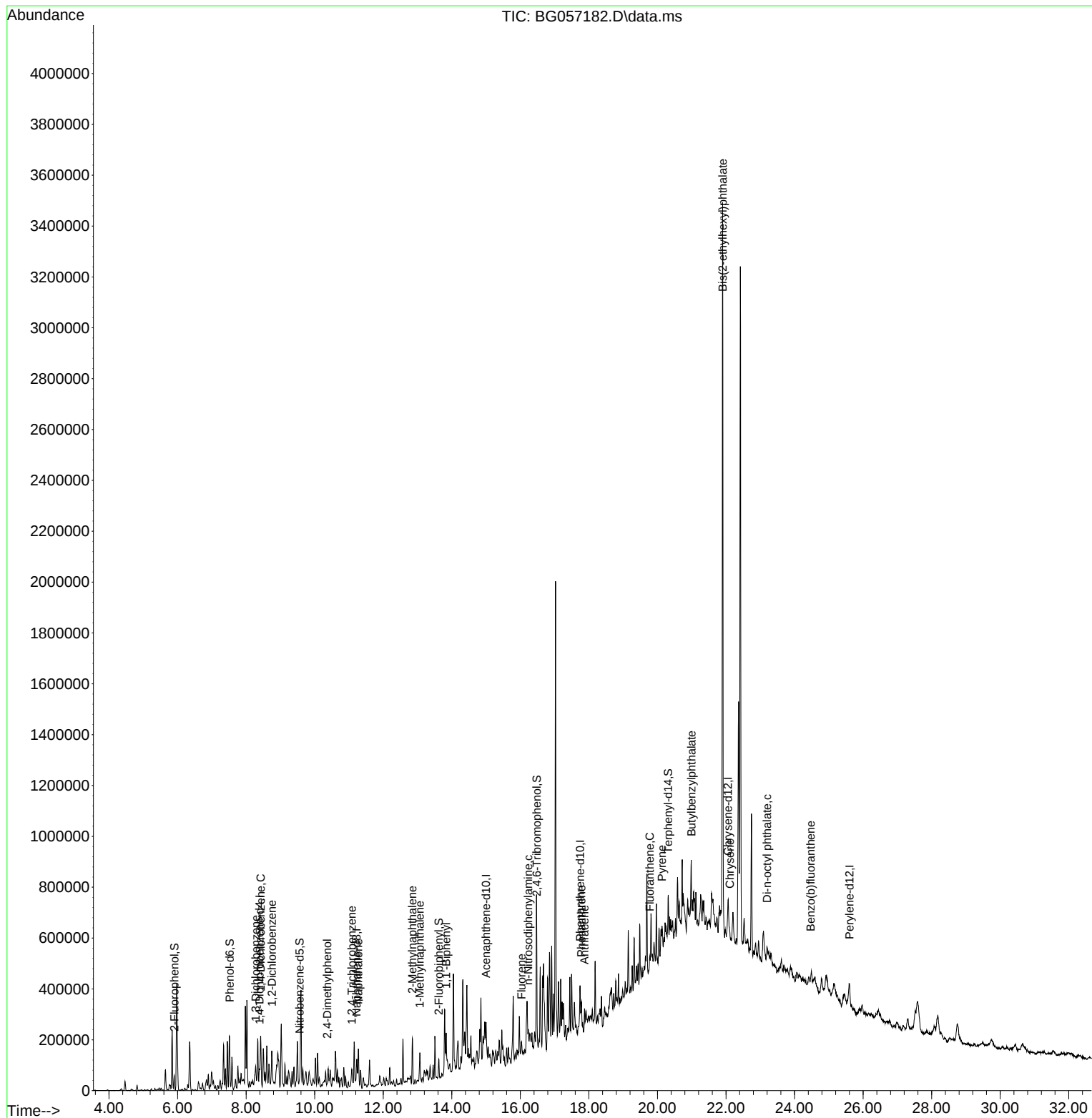
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042523\
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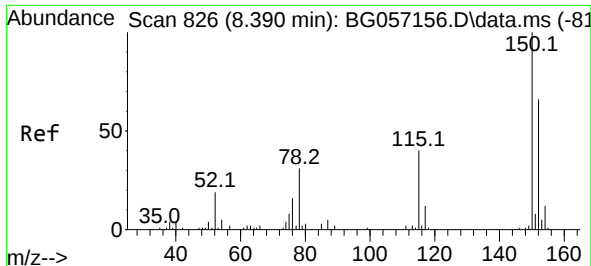
Instrument :
BNA_G
ClientSampleId :
SPA-3WC-23-04DL

Quant Time: Apr 26 00:24:23 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042423.M
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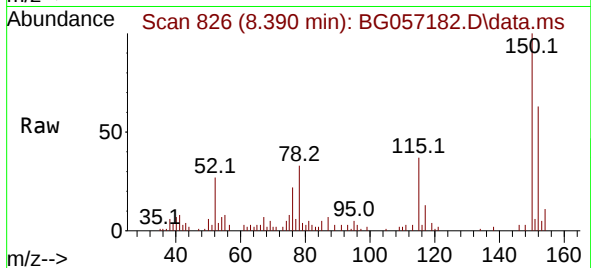
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1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.390 min Scan# 81
Delta R.T. 0.000 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

Instrument :

BNA_G

ClientSampleId :

SPA-3WC-23-04DL

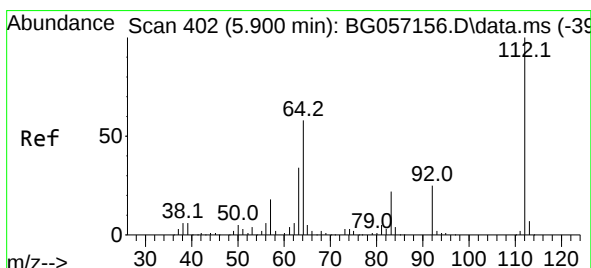
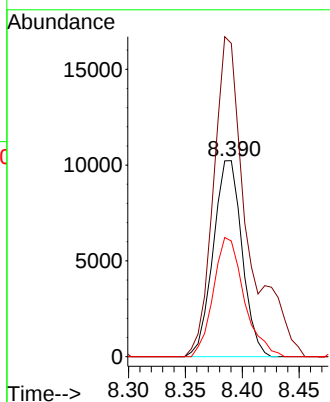
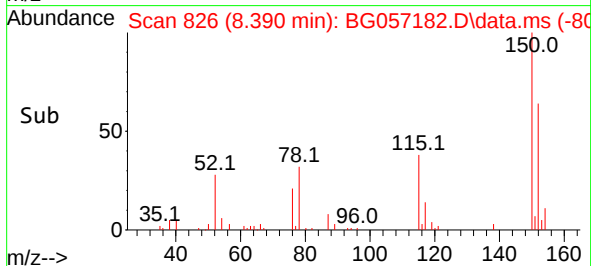


Tgt Ion:152 Resp: 18069
Ion Ratio Lower Upper
152 100
150 159.8 121.4 182.2
115 59.0 48.1 72.1

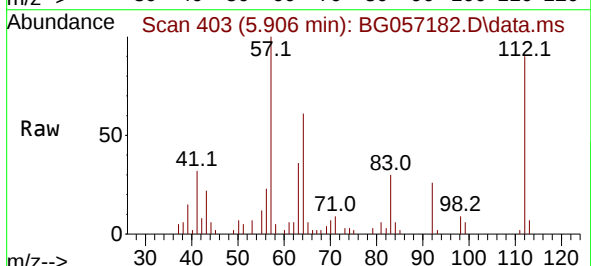
Manual Integrations

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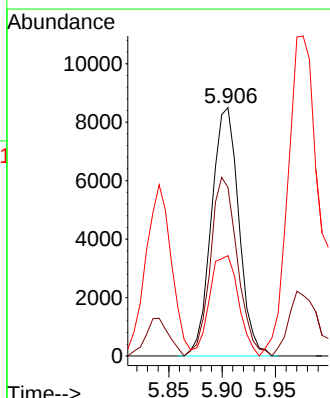
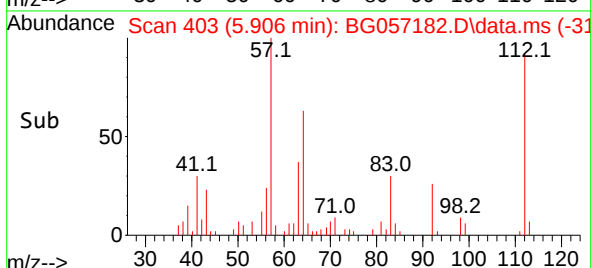
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023

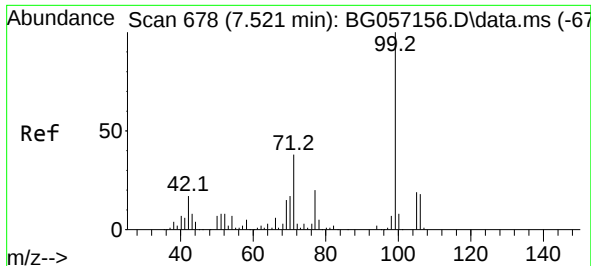


#5
2-Fluorophenol
Concen: 15.216 ng
RT: 5.906 min Scan# 403
Delta R.T. 0.006 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43



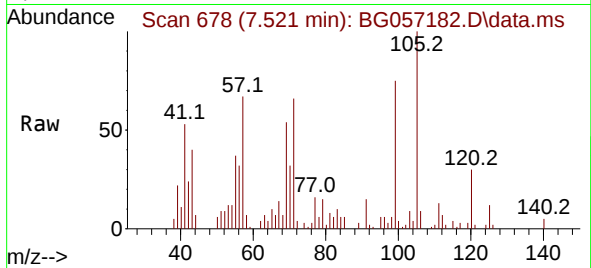
Tgt Ion:112 Resp: 15172
Ion Ratio Lower Upper
112 100
64 67.8 46.7 70.1
63 40.4 26.9 40.3#





#7
Phenol-d6
Concen: 16.135 ng
RT: 7.521 min Scan# 678
Delta R.T. 0.000 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

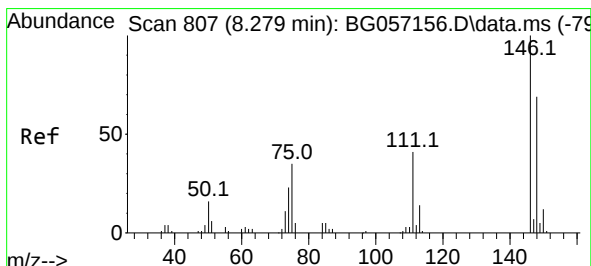
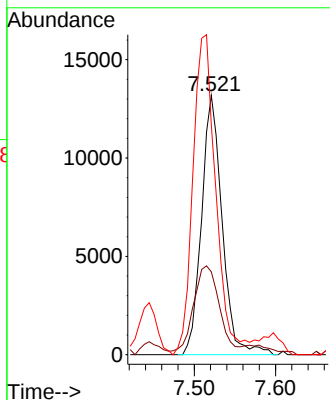
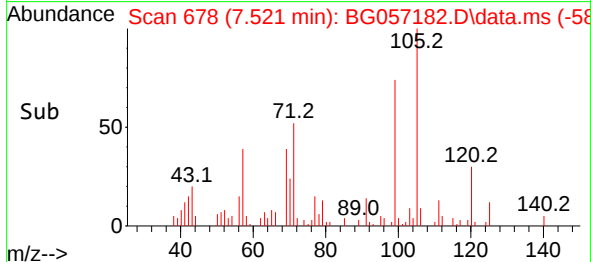
Instrument :
BNA_G
ClientSampleId :
SPA-3WC-23-04DL



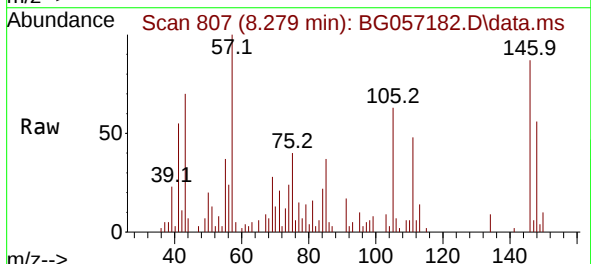
Tgt Ion: 99 Resp: 2327
Ion Ratio Lower Upper
99 100
42 32.0 13.4 20.0
71 88.6 30.2 45.2

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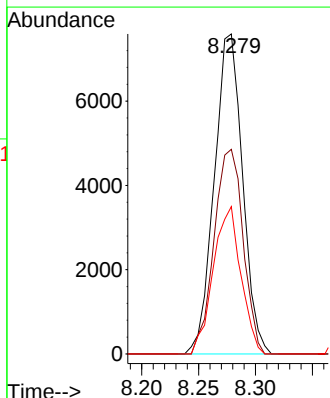
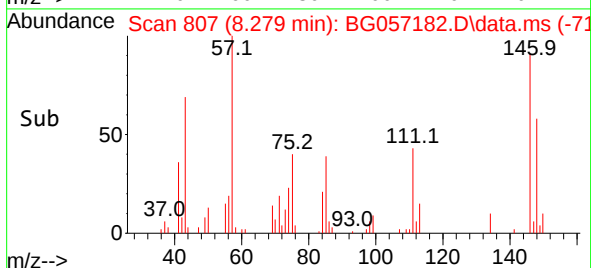
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023

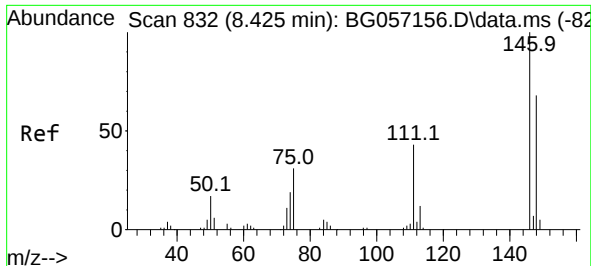


#12
1,3-Dichlorobenzene
Concen: 10.608 ng
RT: 8.279 min Scan# 807
Delta R.T. 0.000 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43



Tgt Ion:146 Resp: 13126
Ion Ratio Lower Upper
146 100
148 63.9 55.4 83.2
75 46.1 28.2 42.4





#13

1,4-Dichlorobenzene

Concen: 48.261 ng

RT: 8.426 min Scan# 81

Delta R.T. 0.001 min

Lab File: BG057182.D

Acq: 25 Apr 2023 18:43

Instrument :

BNA_G

ClientSampleId :

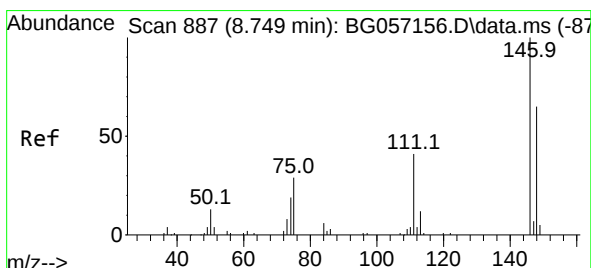
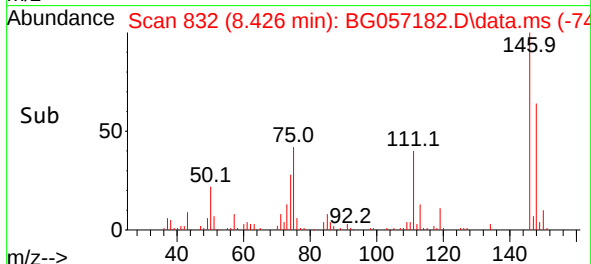
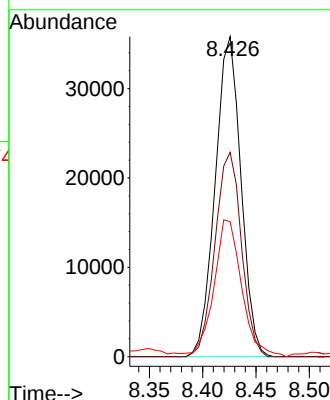
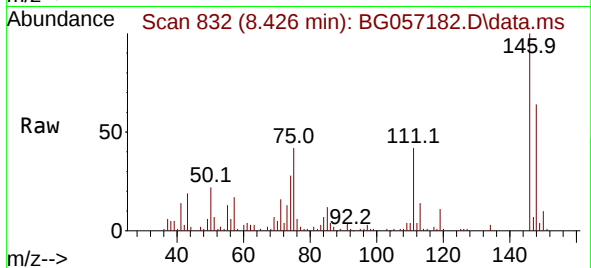
SPA-3WC-23-04DL

Tgt Ion:146 Resp: 6018
 Ion Ratio Lower Upper
 146 100
 148 63.9 54.3 81.5
 111 42.2 34.2 51.4

Manual Integrations

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Reviewed By :Christian Giraldo 04/26/2023
 Supervised By :Jagrut Upadhyay 04/26/2023



#14

1,2-Dichlorobenzene

Concen: 39.911 ng

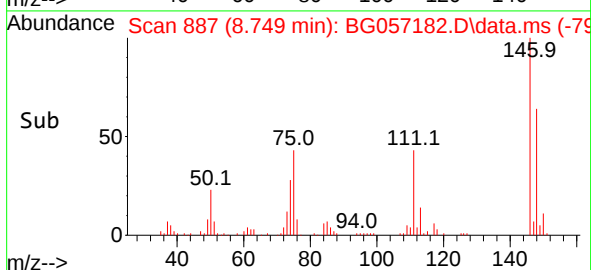
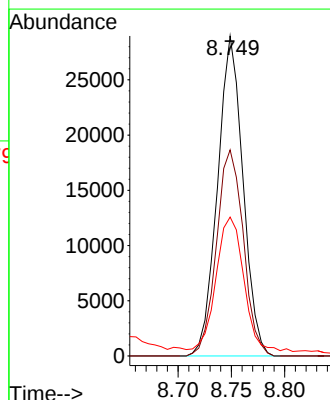
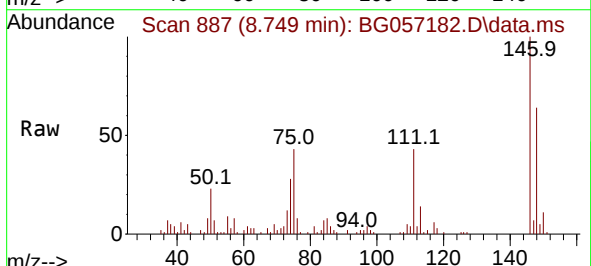
RT: 8.749 min Scan# 887

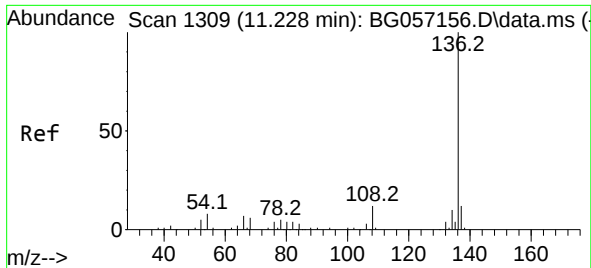
Delta R.T. 0.000 min

Lab File: BG057182.D

Acq: 25 Apr 2023 18:43

Tgt Ion:146 Resp: 48054
 Ion Ratio Lower Upper
 146 100
 148 64.4 52.3 78.5
 111 43.4 33.1 49.7





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.222 min Scan# 11
Delta R.T. -0.006 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

Instrument :

BNA_G

ClientSampleId :

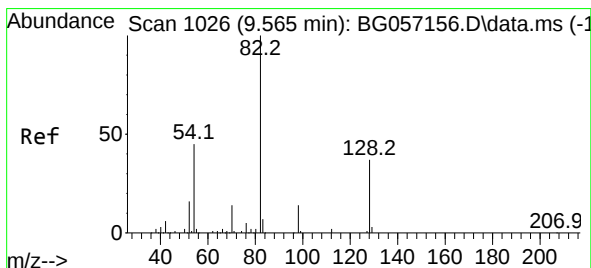
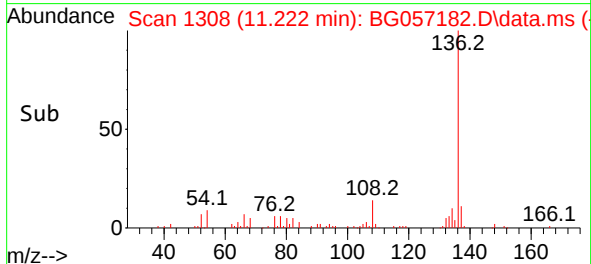
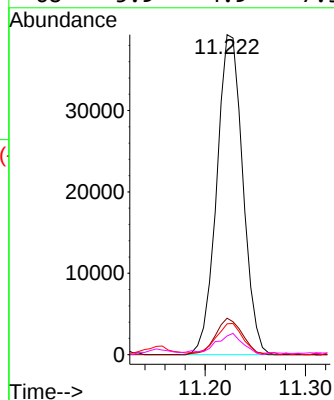
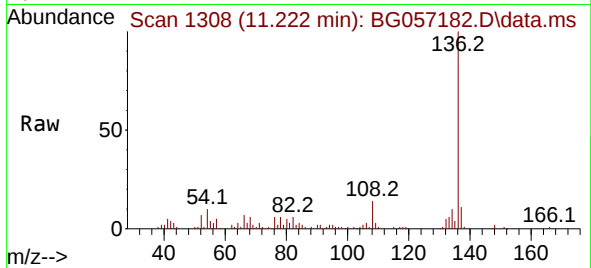
SPA-3WC-23-04DL

Tgt Ion:136 Resp: 7085
Ion Ratio Lower Upper
136 100
137 11.4 9.5 14.3
54 9.6 6.4 9.6
68 5.9 4.9 7.3

Manual Integrations

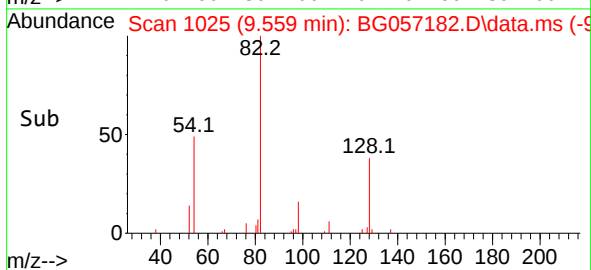
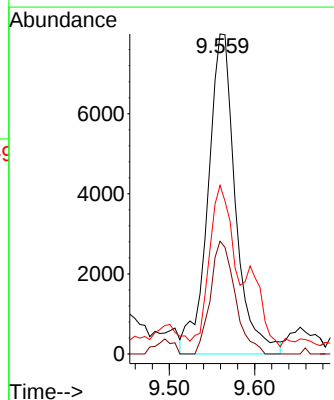
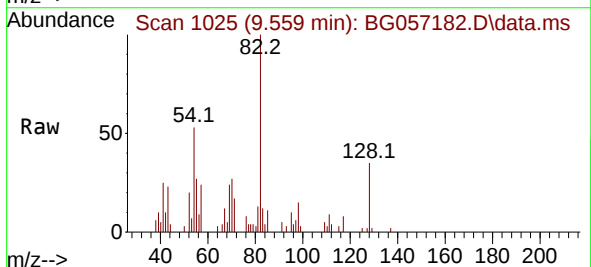
APPROVED

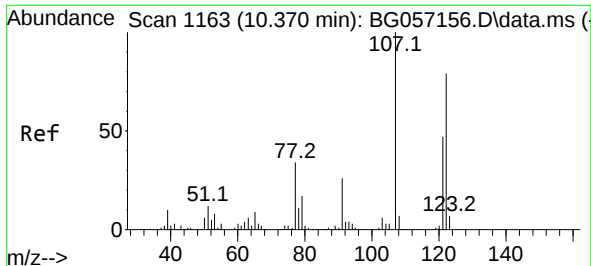
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#23
Nitrobenzene-d5
Concen: 12.518 ng
RT: 9.559 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

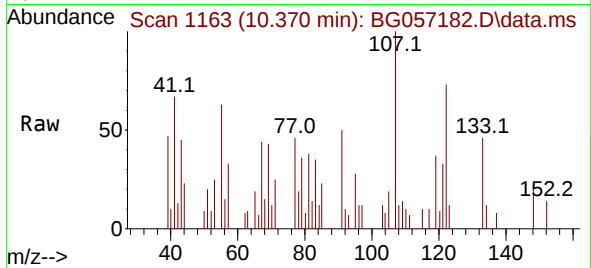
Tgt Ion: 82 Resp: 17941
Ion Ratio Lower Upper
82 100
128 35.3 29.4 44.2
54 52.7 36.2 54.2





#27
2,4-Dimethylphenol
Concen: 4.356 ng m
RT: 10.370 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

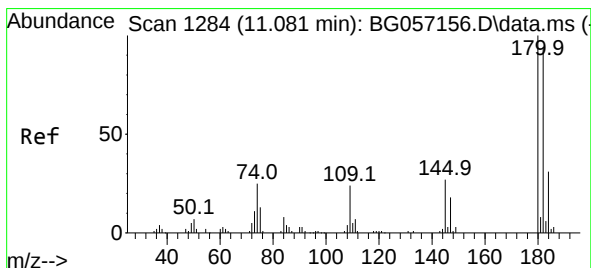
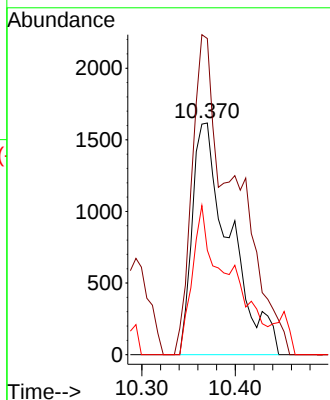
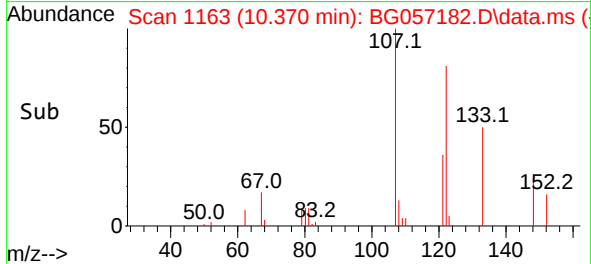
Instrument :
BNA_G
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SPA-3WC-23-04DL



Tgt Ion:122 Resp: 450
Ion Ratio Lower Upper
122 100
107 136.4 101.5 152.3
121 45.1 48.0 72.0

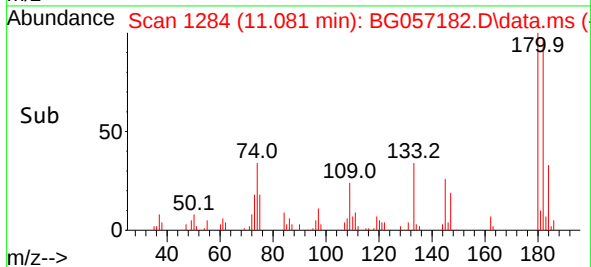
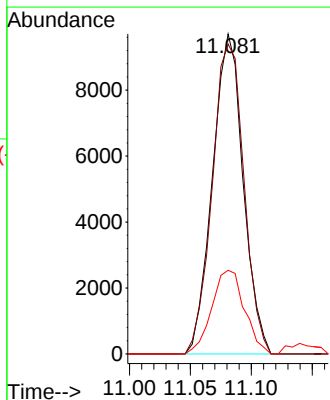
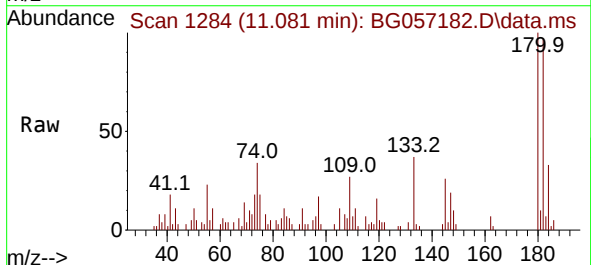
Manual Integrations
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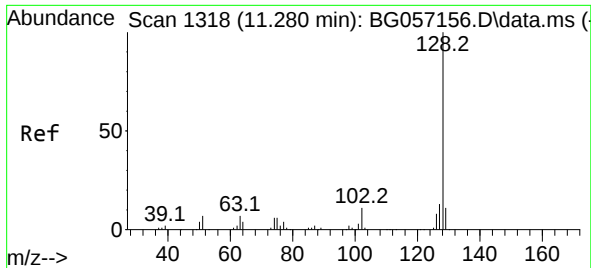
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#30
1,2,4-Trichlorobenzene
Concen: 12.067 ng
RT: 11.081 min Scan# 1284
Delta R.T. 0.000 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

Tgt Ion:180 Resp: 16985
Ion Ratio Lower Upper
180 100
182 96.8 75.0 112.6
145 26.1 21.4 32.2





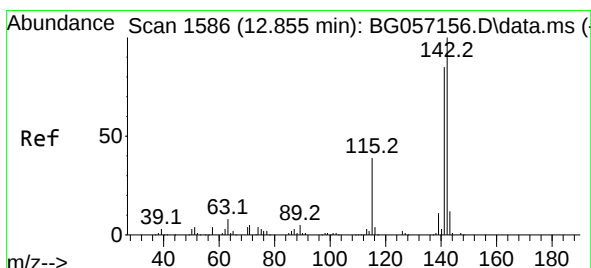
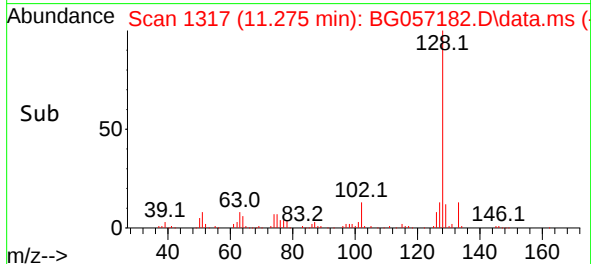
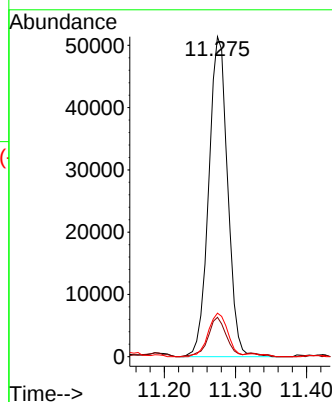
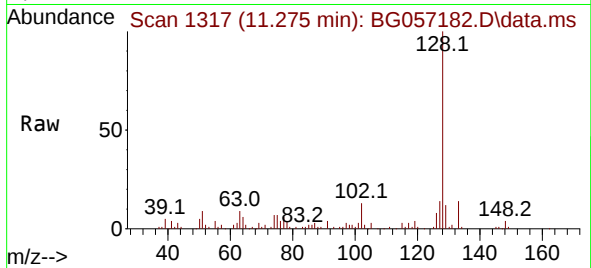
#31
Naphthalene
Concen: 25.223 ng
RT: 11.275 min Scan# 1127
Delta R.T. -0.006 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

Instrument :
BNA_G
ClientSampleId :
SPA-3WC-23-04DL

Tgt Ion:128 Resp: 9492
Ion Ratio Lower Upper
128 100
129 12.3 8.8 13.2
127 13.6 10.6 16.0

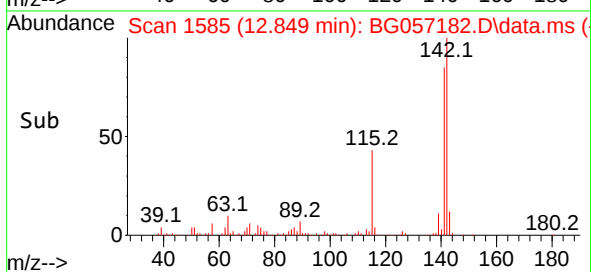
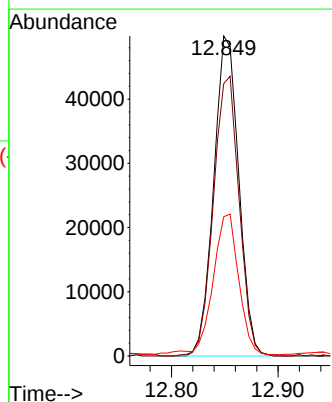
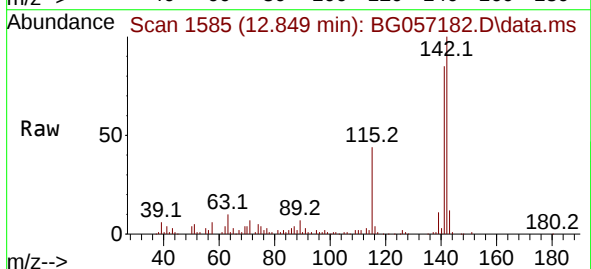
Manual Integrations
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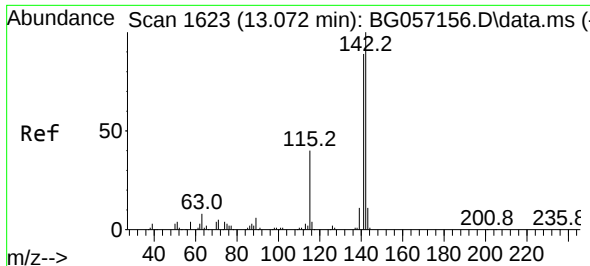
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#37
2-Methylnaphthalene
Concen: 27.434 ng
RT: 12.849 min Scan# 1585
Delta R.T. -0.006 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

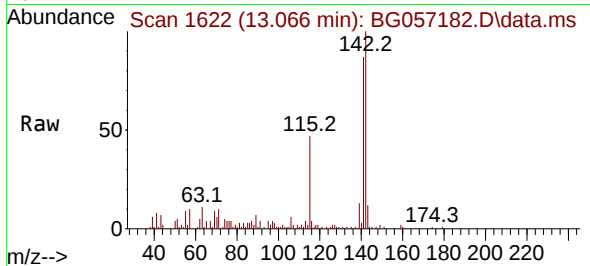
Tgt Ion:142 Resp: 81245
Ion Ratio Lower Upper
142 100
141 85.1 68.1 102.1
115 43.5 31.0 46.4





#38
1-Methylnaphthalene
Concen: 17.277 ng
RT: 13.066 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

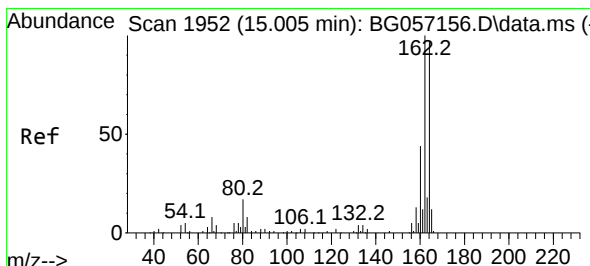
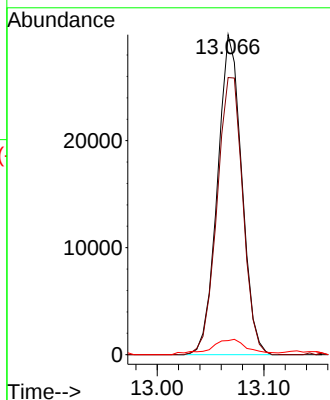
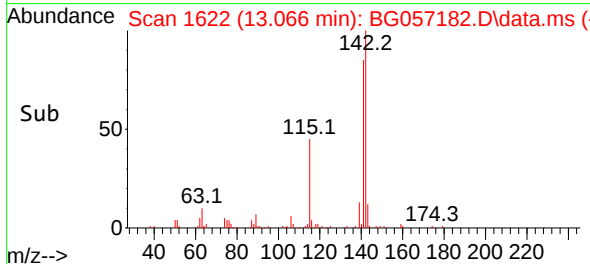
Instrument :
BNA_G
ClientSampleId :
SPA-3WC-23-04DL



Tgt Ion:142 Resp: 47238
Ion Ratio Lower Upper
142 100
141 86.6 71.6 107.4
116 4.4 3.3 4.9

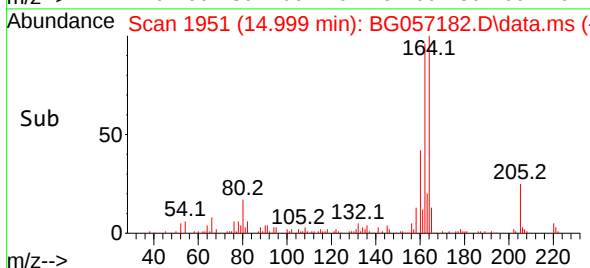
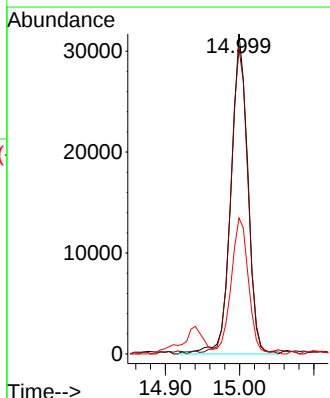
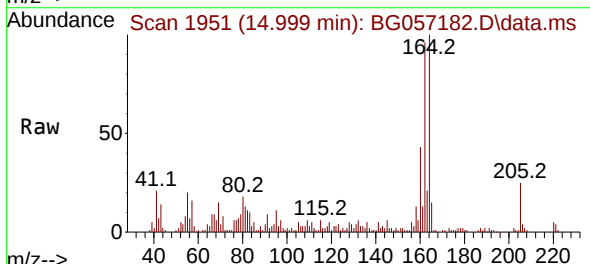
Manual Integrations
APPROVED

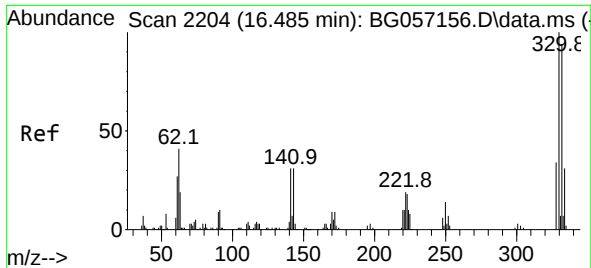
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.999 min Scan# 1951
Delta R.T. -0.006 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

Tgt Ion:164 Resp: 49923
Ion Ratio Lower Upper
164 100
162 95.5 82.4 123.6
160 42.5 36.2 54.2





#42
2,4,6-Tribromophenol
Concen: 14.274 ng
RT: 16.479 min Scan# 21
Delta R.T. -0.006 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

Instrument :

BNA_G

ClientSampleId :

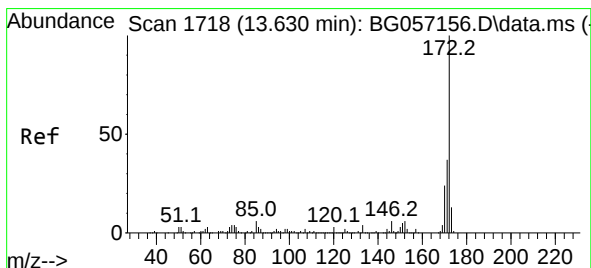
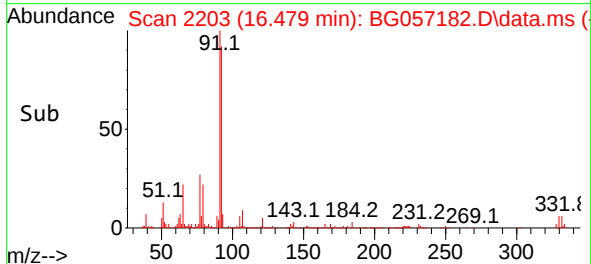
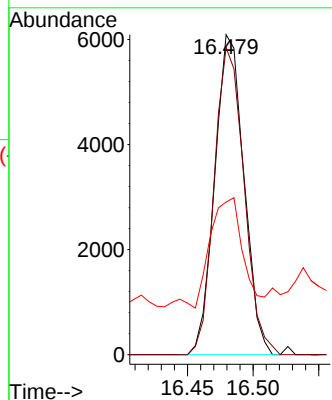
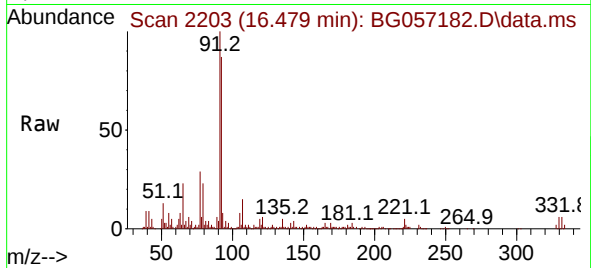
SPA-3WC-23-04DL

Tgt Ion:330 Resp: 940
Ion Ratio Lower Upper
330 100
332 98.0 77.6 116.4
141 38.7 26.0 39.0

Manual Integrations

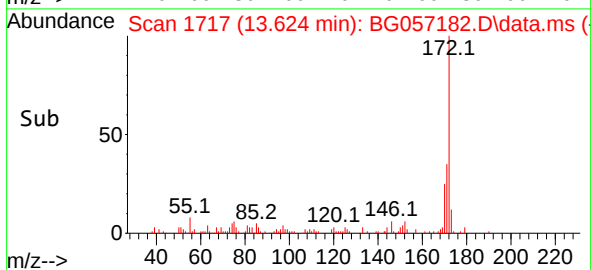
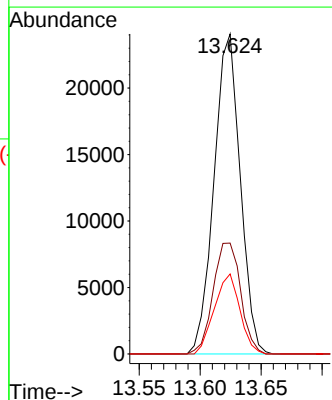
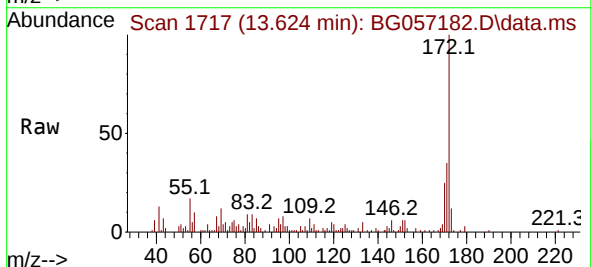
APPROVED

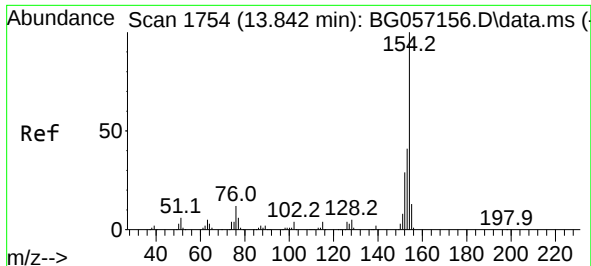
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#45
2-Fluorobiphenyl
Concen: 9.674 ng
RT: 13.624 min Scan# 1717
Delta R.T. -0.006 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

Tgt Ion:172 Resp: 35935
Ion Ratio Lower Upper
172 100
171 34.7 29.2 43.8
170 25.0 19.4 29.2





#46
1,1'-Biphenyl
Concen: 18.676 ng
RT: 13.836 min Scan# 11
Delta R.T. -0.006 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

Instrument :

BNA_G

ClientSampleId :

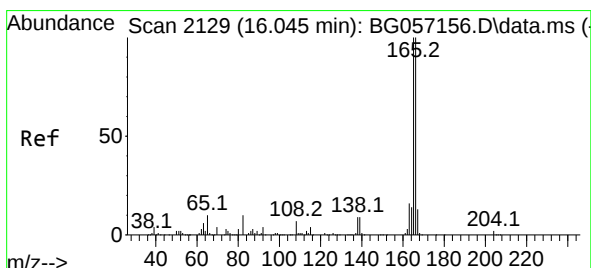
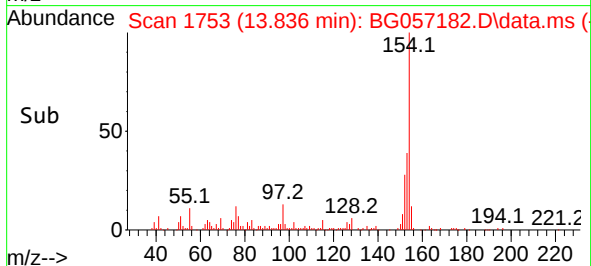
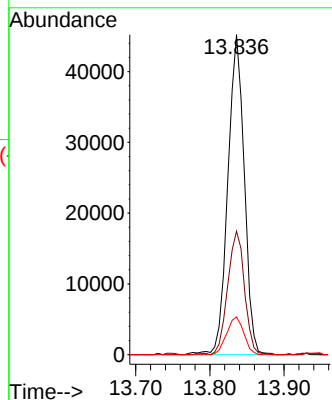
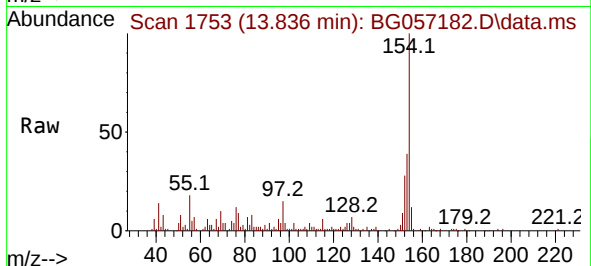
SPA-3WC-23-04DL

Tgt Ion:154 Resp: 6949
Ion Ratio Lower Upper
154 100
153 38.6 20.9 60.9
76 11.8 0.0 32.3

Manual Integrations

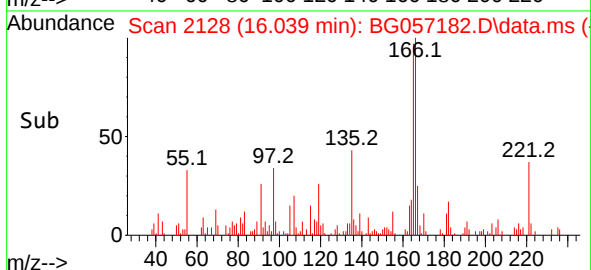
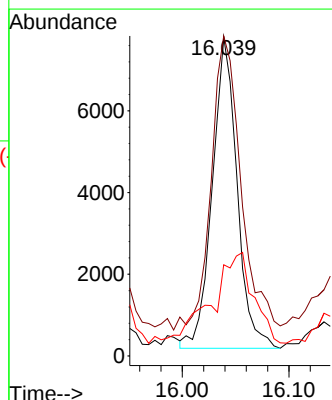
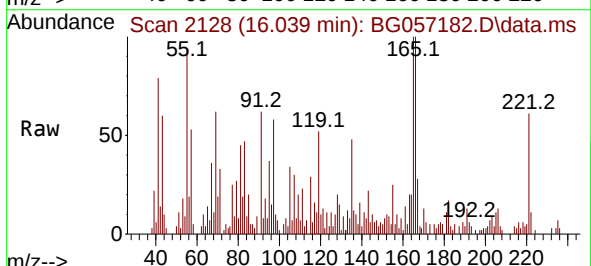
APPROVED

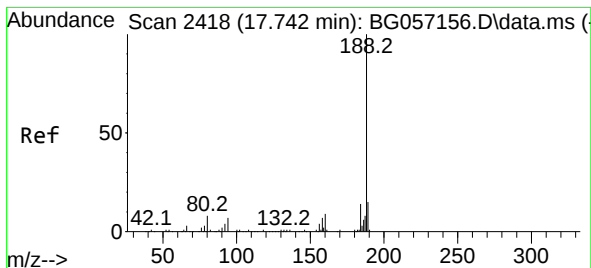
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#58
Fluorene
Concen: 3.225 ng
RT: 16.039 min Scan# 2128
Delta R.T. -0.006 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

Tgt Ion:166 Resp: 12256
Ion Ratio Lower Upper
166 100
165 100.4 79.8 119.6
167 28.6 10.7 16.1#





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.742 min Scan# 2418
Delta R.T. 0.000 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

Instrument :

BNA_G

ClientSampleId :

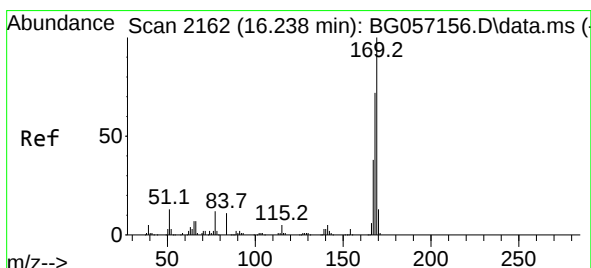
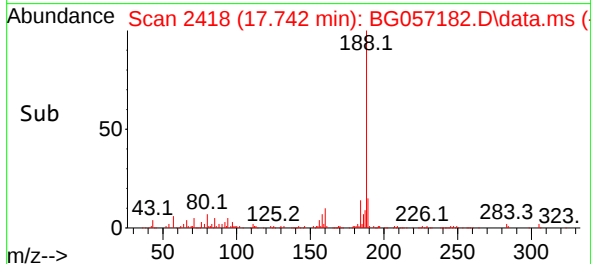
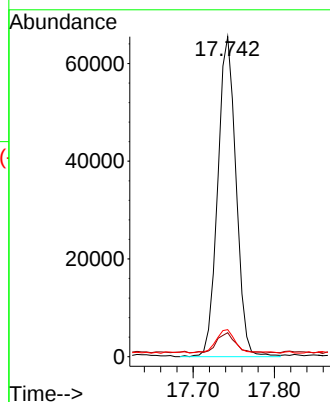
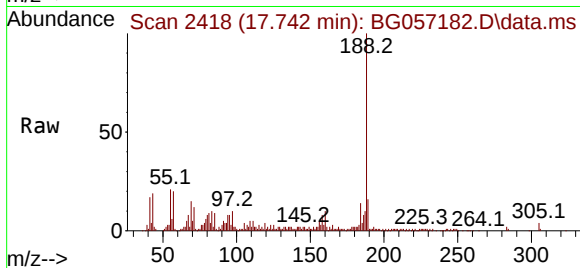
SPA-3WC-23-04DL

Tgt Ion:188 Resp: 10267
Ion Ratio Lower Upper
188 100
94 7.5 5.4 8.0
80 8.4 6.2 9.2

Manual Integrations

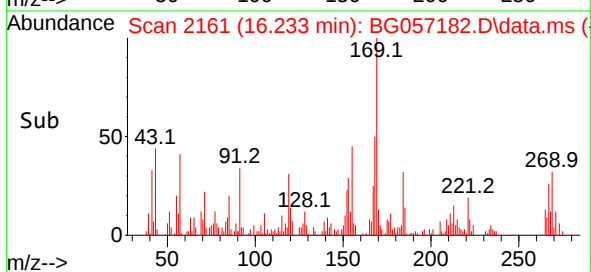
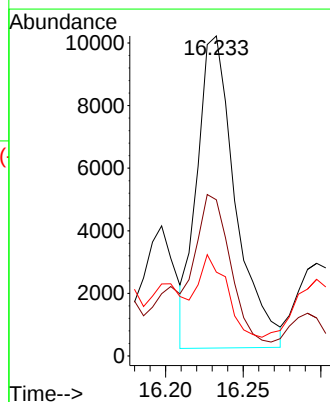
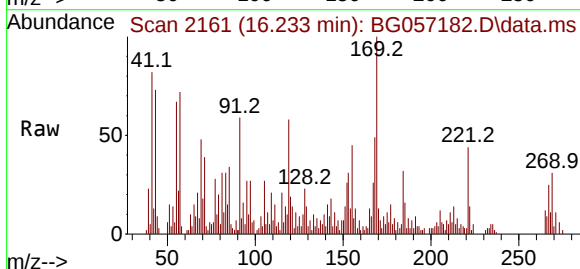
APPROVED

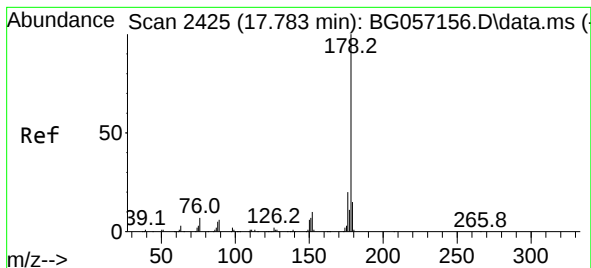
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#66
n-Nitrosodiphenylamine
Concen: 6.424 ng
RT: 16.233 min Scan# 2161
Delta R.T. -0.006 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

Tgt Ion:169 Resp: 17209
Ion Ratio Lower Upper
169 100
168 48.8 57.8 86.6#
167 26.2 30.5 45.7#





#71

Phenanthrene

Concen: 9.404 ng

RT: 17.784 min Scan# 2425

Delta R.T. 0.000 min

Lab File: BG057182.D

Acq: 25 Apr 2023 18:43

Instrument :

BNA_G

ClientSampleId :

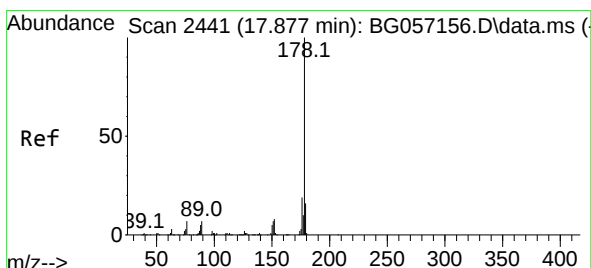
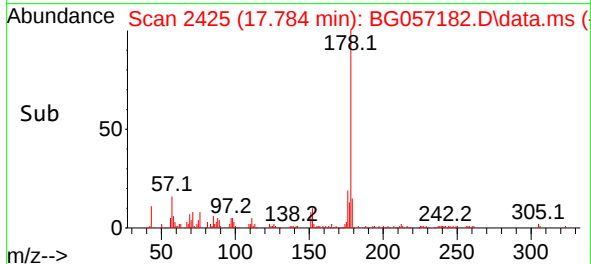
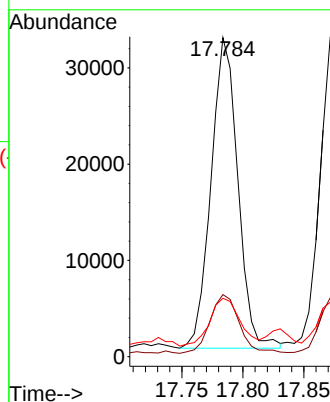
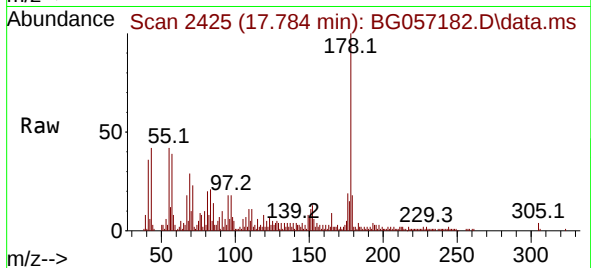
SPA-3WC-23-04DL

Tgt Ion:178	Resp:	4929
Ion Ratio	Lower	Upper
178	100	
176	19.5	15.6 23.4
179	18.3	12.4 18.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#72

Anthracene

Concen: 9.236 ng

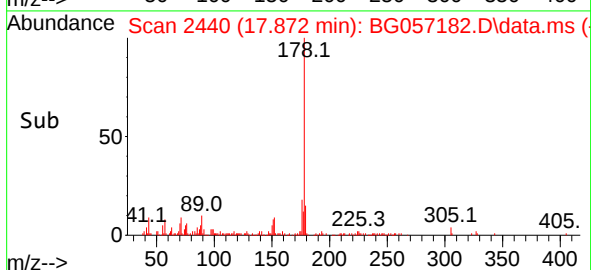
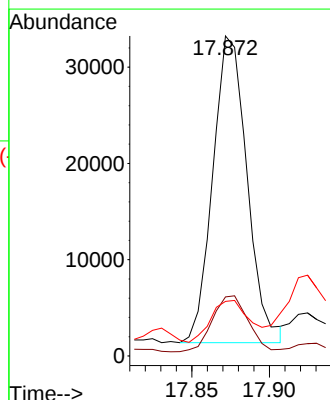
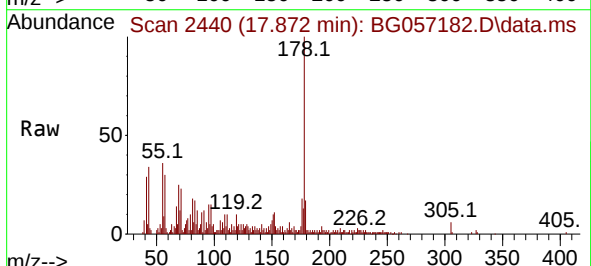
RT: 17.872 min Scan# 2440

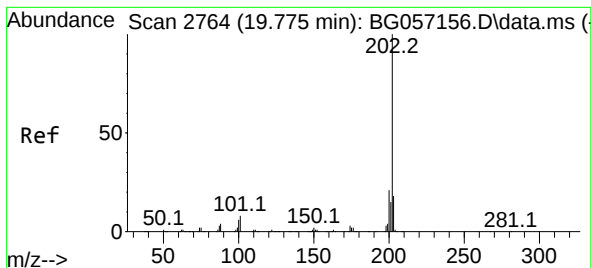
Delta R.T. -0.006 min

Lab File: BG057182.D

Acq: 25 Apr 2023 18:43

Tgt Ion:178	Resp:	48949
Ion Ratio	Lower	Upper
178	100	
176	18.4	14.9 22.3
179	17.1	12.5 18.7





#75
Fluoranthene
Concen: 4.757 ng
RT: 19.775 min Scan# 21
Delta R.T. -0.000 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

Instrument :

BNA_G

ClientSampleId :

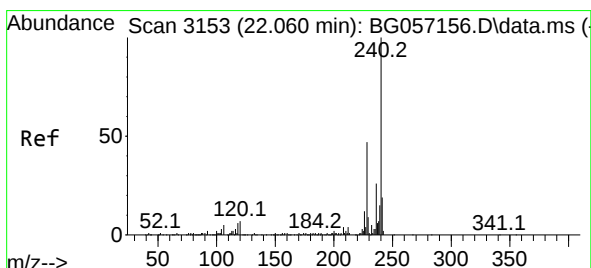
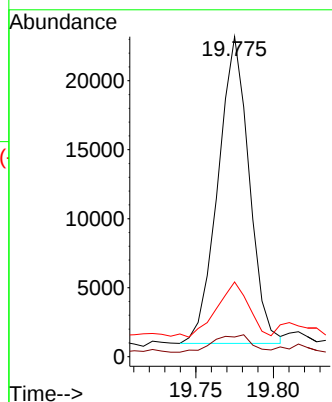
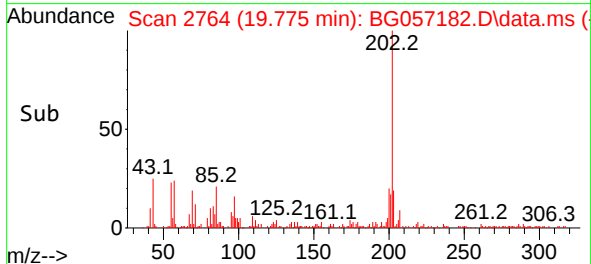
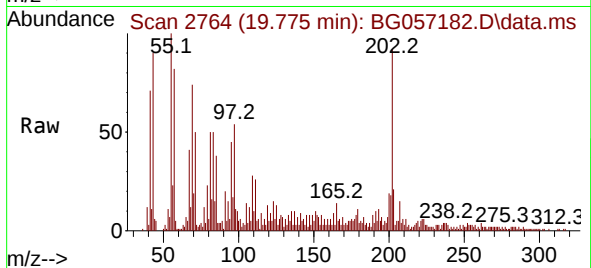
SPA-3WC-23-04DL

Tgt Ion:202 Resp: 3097
Ion Ratio Lower Upper
202 100
101 6.1 0.0 27.6
203 23.3 0.0 38.3

Manual Integrations

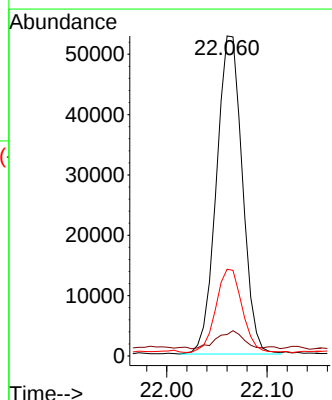
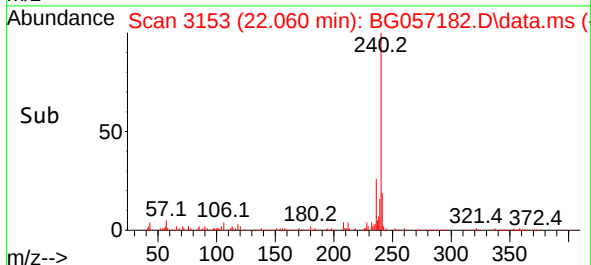
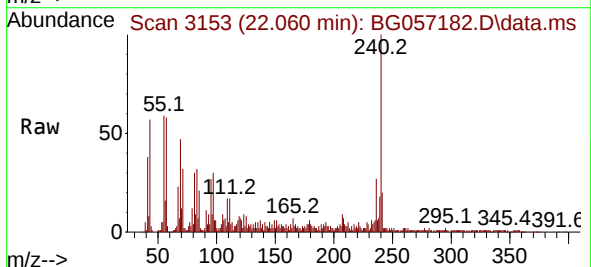
APPROVED

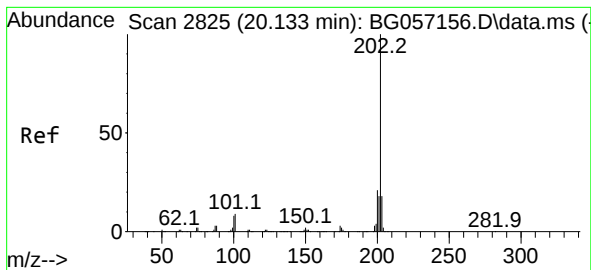
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.060 min Scan# 3153
Delta R.T. 0.000 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

Tgt Ion:240 Resp: 94593
Ion Ratio Lower Upper
240 100
120 6.7 5.5 8.3
236 27.1 20.8 31.2





#78

Pyrene

Concen: 5.493 ng

RT: 20.133 min Scan# 2825

Delta R.T. 0.000 min

Lab File: BG057182.D

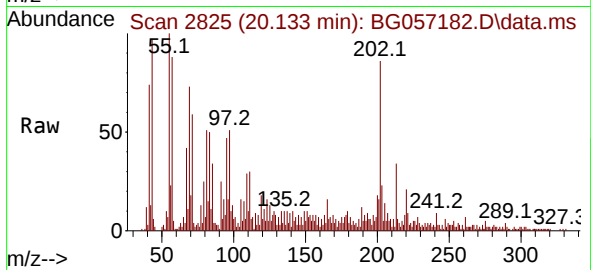
Acq: 25 Apr 2023 18:43

Instrument :

BNA_G

ClientSampleId :

SPA-3WC-23-04DL



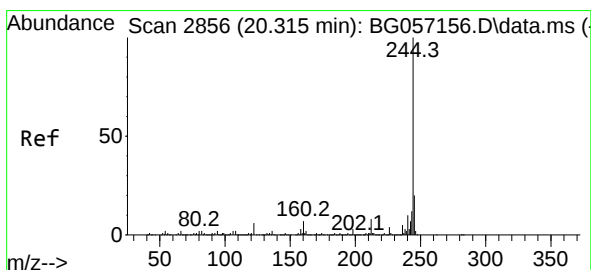
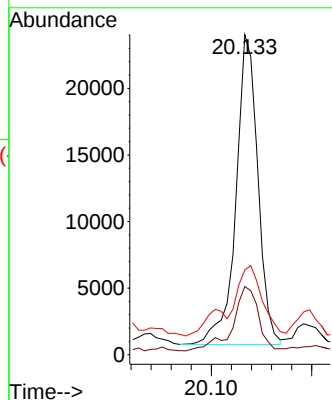
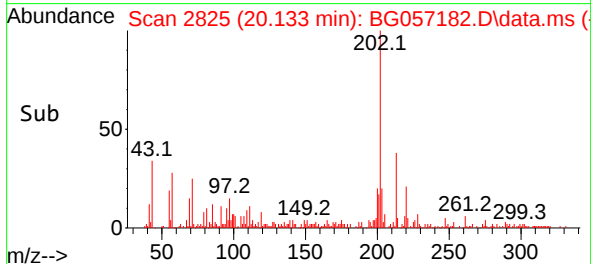
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	26.5	14.7	22.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/26/2023

Supervised By :Jagrut Upadhyay 04/26/2023



#79

Terphenyl-d14

Concen: 10.230 ng

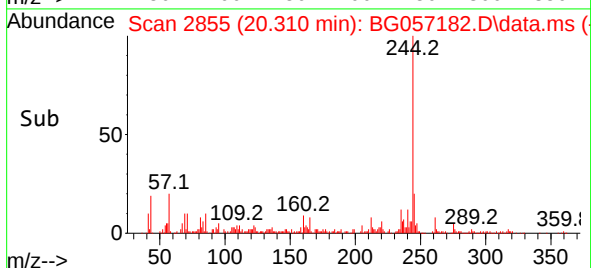
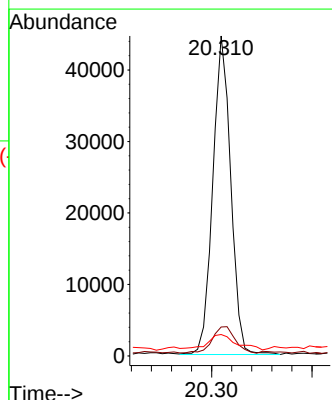
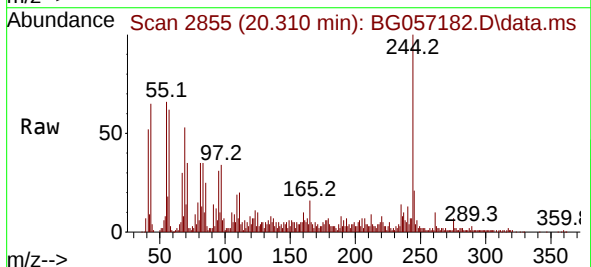
RT: 20.310 min Scan# 2855

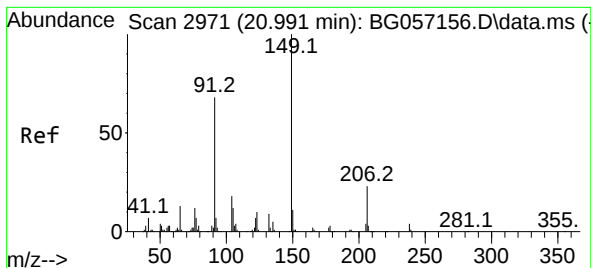
Delta R.T. -0.006 min

Lab File: BG057182.D

Acq: 25 Apr 2023 18:43

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.1	6.0	9.0
122	6.7	5.0	7.4





#80

Butylbenzylphthalate

Concen: 11.147 ng

RT: 20.991 min Scan# 2971

Delta R.T. -0.000 min

Lab File: BG057182.D

Acq: 25 Apr 2023 18:43

Instrument :

BNA_G

ClientSampleId :

SPA-3WC-23-04DL

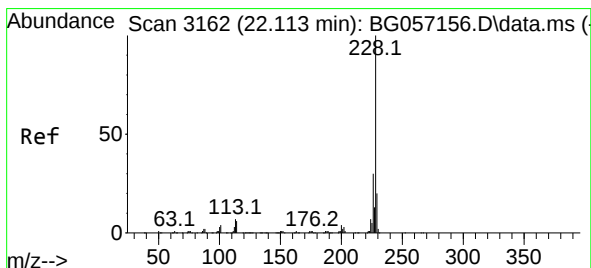
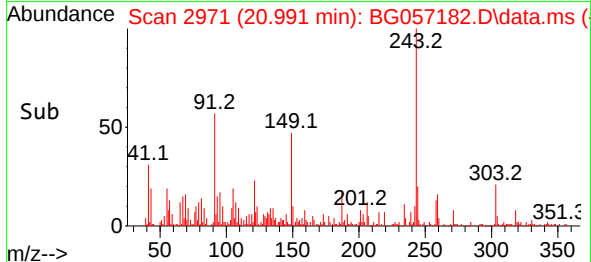
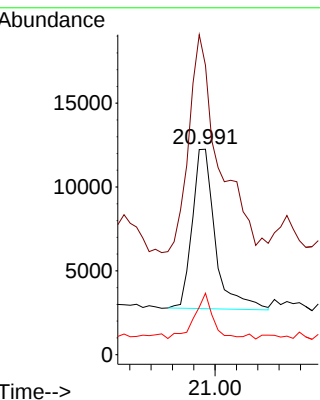
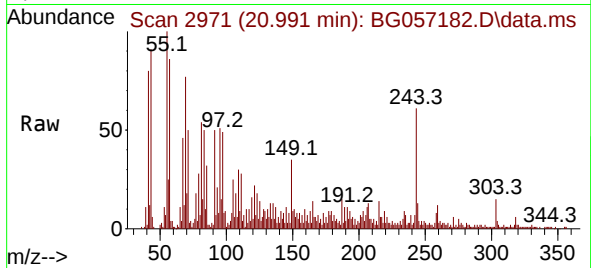
Tgt Ion:	149	Resp:	1422
Ion Ratio	Lower	Upper	
149	100		
91	140.8	54.1	81.1
206	29.9	18.2	27.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/26/2023

Supervised By :Jagrut Upadhyay 04/26/2023



#83

Chrysene

Concen: 2.695 ng

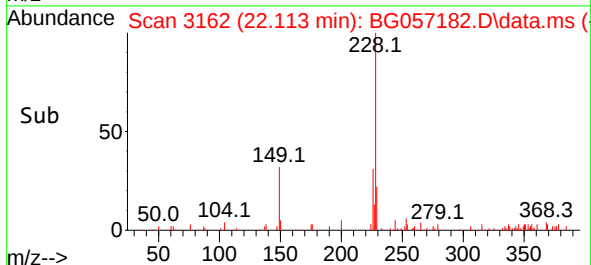
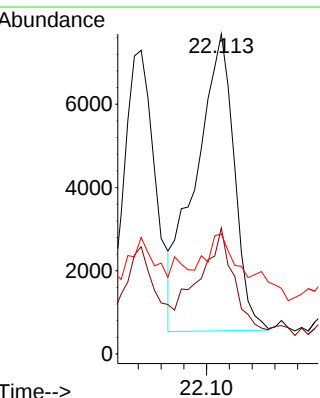
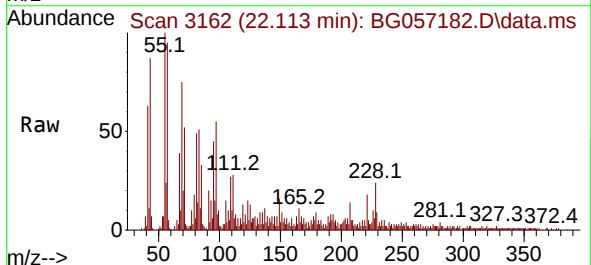
RT: 22.113 min Scan# 3162

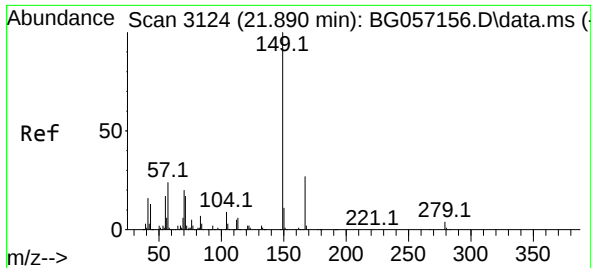
Delta R.T. 0.000 min

Lab File: BG057182.D

Acq: 25 Apr 2023 18:43

Tgt Ion:	228	Resp:	16903
Ion Ratio	Lower	Upper	
228	100		
226	39.4	24.0	36.0
229	37.5	15.8	23.6





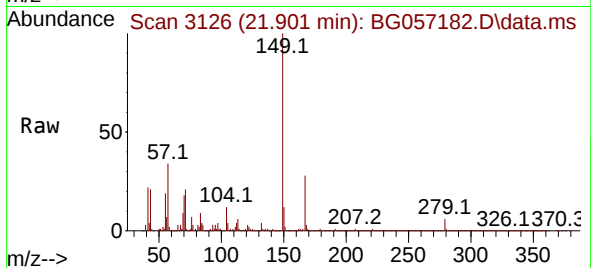
#84
Bis(2-ethylhexyl)phthalate
Concen: 403.263 ng
RT: 21.901 min Scan# 3124
Delta R.T. 0.011 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

Instrument :

BNA_G

ClientSampleId :

SPA-3WC-23-04DL

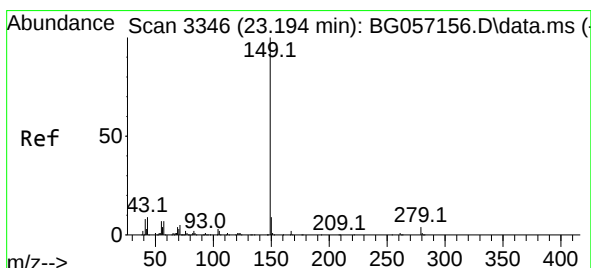
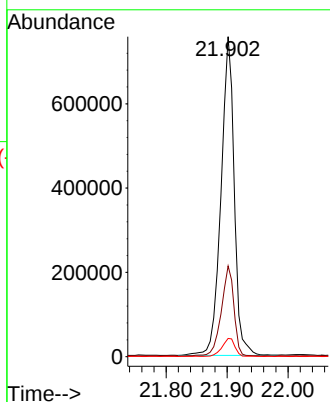
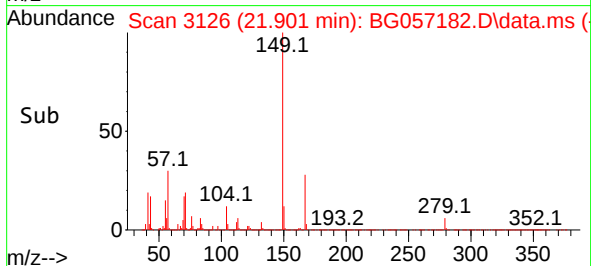


Tgt Ion:149 Resp: 1143592
Ion Ratio Lower Upper
149 100
167 28.4 21.9 32.9
279 5.7 3.3 4.9

Manual Integrations

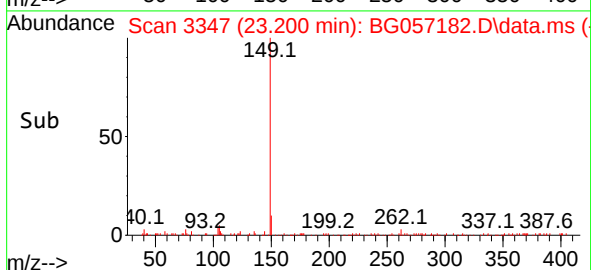
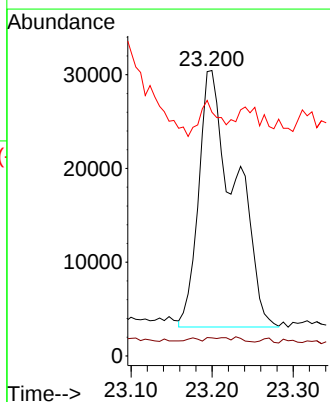
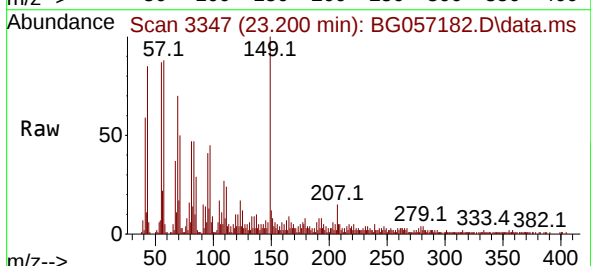
APPROVED

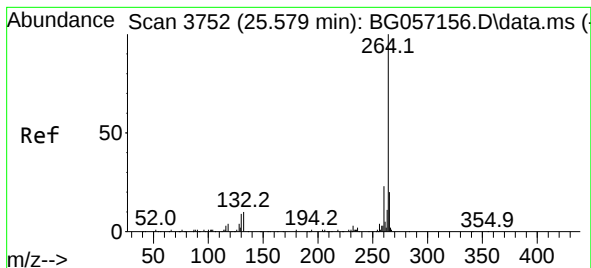
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#85
Di-n-octyl phthalate
Concen: 20.319 ng m
RT: 23.200 min Scan# 3347
Delta R.T. 0.006 min
Lab File: BG057182.D
Acq: 25 Apr 2023 18:43

Tgt Ion:149 Resp: 86203
Ion Ratio Lower Upper
149 100
167 0.4 1.2 1.8#
43 8.2 7.4 11.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.602 min Scan# 31

Delta R.T. 0.024 min

Lab File: BG057182.D

Acq: 25 Apr 2023 18:43

Instrument :

BNA_G

ClientSampleId :

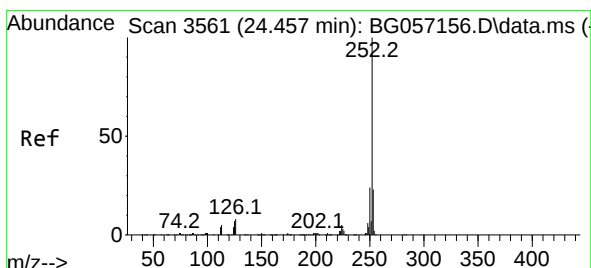
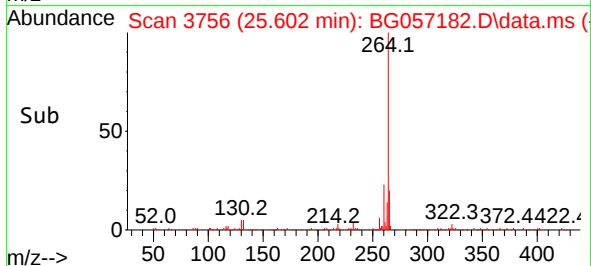
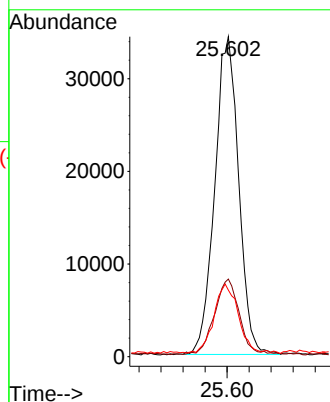
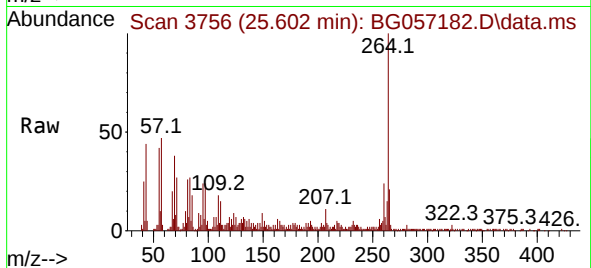
SPA-3WC-23-04DL

Tgt Ion:	264	Resp:	10338
Ion Ratio	Lower	Upper	
264	100		
260	24.2	18.8	28.2
265	20.8	16.4	24.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#88

Benzo(b)fluoranthene

Concen: 2.505 ng

RT: 24.474 min Scan# 3564

Delta R.T. 0.018 min

Lab File: BG057182.D

Acq: 25 Apr 2023 18:43

Tgt Ion:	252	Resp:	16234
Ion Ratio	Lower	Upper	
252	100		
253	36.2	18.2	27.2#
125	64.4	5.3	7.9#

