

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG051324\
 Data File : BG061179.D
 Acq On : 13 May 2024 17:27
 Operator : MA/JU
 Sample : P2440-03
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 EQ-TANK-CONTAINMENT-PIT

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 05/14/2024
 Supervised By :mohammad ahmed 05/17/2024

Quant Time: May 13 18:05:36 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG043024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 01 05:11:25 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.930	152	26139	20.000	ng	-0.03
21) Naphthalene-d8	10.721	136	92269	20.000	ng	-0.04
39) Acenaphthene-d10	14.557	164	75392	20.000	ng	-0.03
64) Phenanthrene-d10	17.307	188	189362	20.000	ng	-0.03
76) Chrysene-d12	21.567	240	195951	20.000	ng	-0.03
86) Perylene-d12	24.687	264	243435	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.521	112	60423	47.012	ng	-0.03
7) Phenol-d6	7.107	99	49674	26.126	ng	-0.03
23) Nitrobenzene-d5	9.082	82	143016	76.836	ng	-0.04
42) 2,4,6-Tribromophenol	16.050	330	171366	113.717	ng	-0.03
45) 2-Fluorobiphenyl	13.183	172	375043	73.560	ng	-0.03
79) Terphenyl-d14	19.928	244	870347	73.871	ng	-0.03
Target Compounds						Qvalue
49) Acenaphthylene	14.281	152	44937	7.559	ng	97
58) Fluorene	15.603	166	13212	2.437	ng	# 91
71) Phenanthrene	17.348	178	326636	37.725	ng	98
72) Anthracene	17.436	178	28245	3.269	ng	97
75) Fluoranthene	19.364	202	472543	39.837	ng	99
78) Pyrene	19.728	202	755900	60.677	ng	99
81) Benzo(a)anthracene	21.549	228	148078m	11.548	ng	
83) Chrysene	21.614	228	281220	23.409	ng	98
87) Indeno(1,2,3-cd)pyrene	28.212	276	110193	6.830	ng	# 97
88) Benzo(b)fluoranthene	23.706	252	215647m	15.853	ng	
89) Benzo(k)fluoranthene	23.758	252	60927m	4.656	ng	
90) Benzo(a)pyrene	24.540	252	165447	13.960	ng	100
91) Dibenzo(a,h)anthracene	28.259	278	27052	2.025	ng	# 96
92) Benzo(g,h,i)perylene	29.322	276	122240	9.207	ng	# 96

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

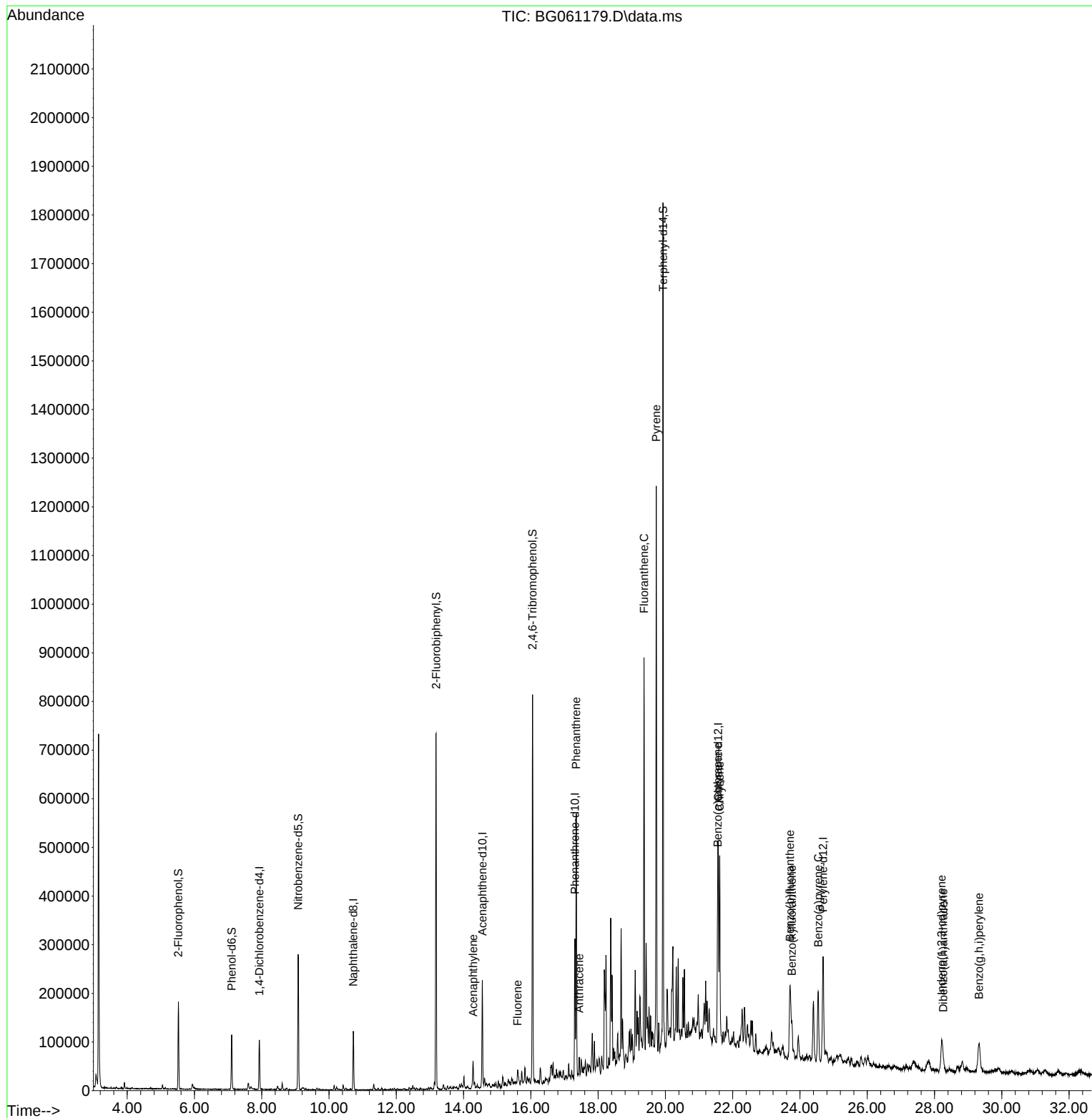
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG051324\
Data File : BG061179.D
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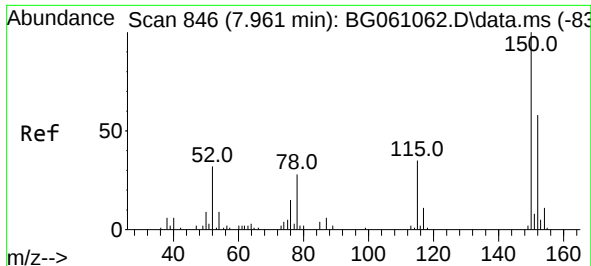
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Quant Time: May 13 18:05:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG043024.M
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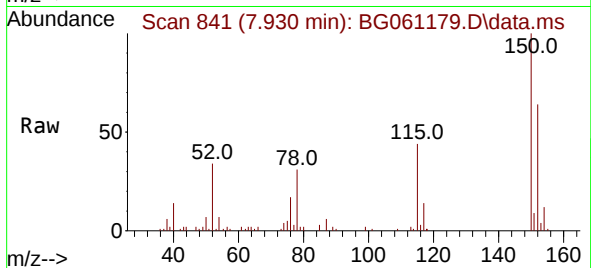
Reviewed By :Jagrut Upadhyay 05/14/2024
Supervised By :mohammad ahmed 05/17/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.930 min Scan# 846
Delta R.T. -0.031 min
Lab File: BG061179.D
Acq: 13 May 2024 17:27

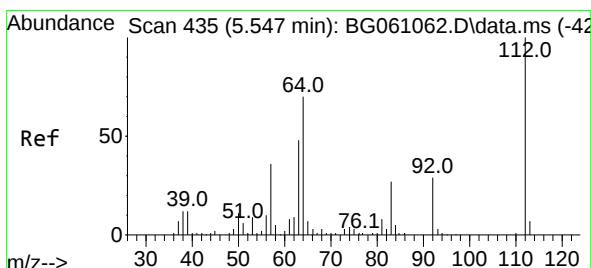
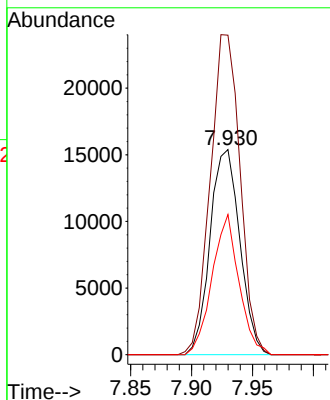
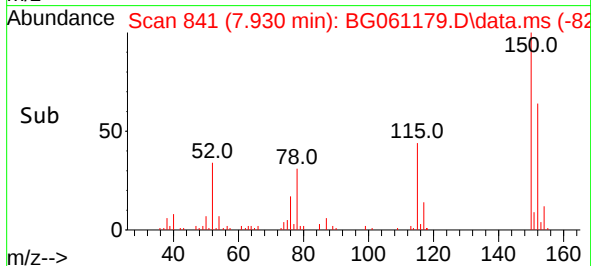
Instrument :
BNA_G
ClientSampleId :
EQ-TANK-CONTAINMENT-PIT



Tgt Ion:152 Resp: 26139
Ion Ratio Lower Upper
152 100
150 155.8 138.3 207.5
115 68.3 48.0 72.0

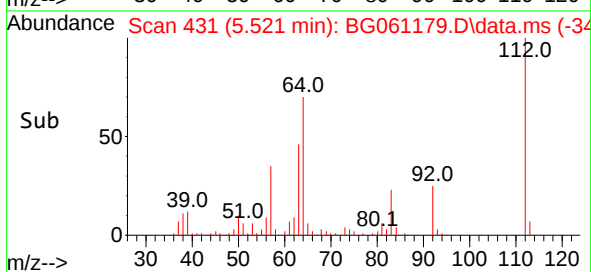
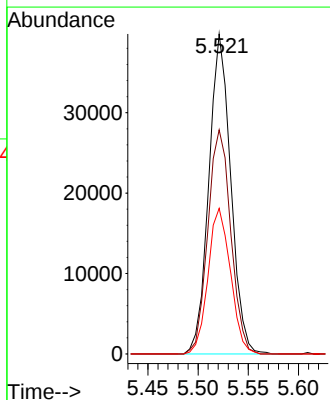
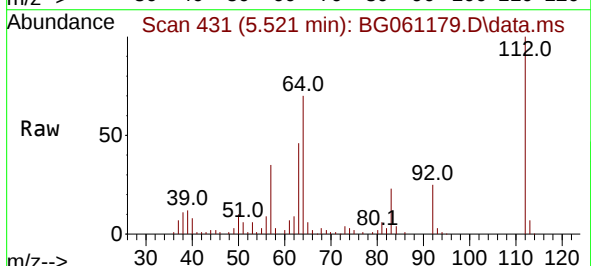
Manual Integrations
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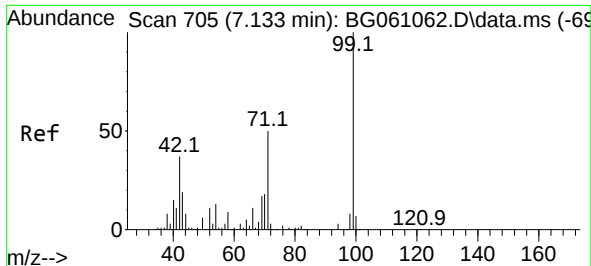
Reviewed By :Jagrut Upadhyay 05/14/2024
Supervised By :mohammad ahmed 05/17/2024



#5
2-Fluorophenol
Concen: 47.012 ng
RT: 5.521 min Scan# 431
Delta R.T. -0.026 min
Lab File: BG061179.D
Acq: 13 May 2024 17:27

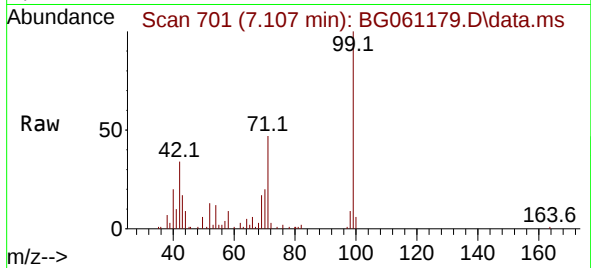
Tgt Ion:112 Resp: 60423
Ion Ratio Lower Upper
112 100
64 70.1 55.7 83.5
63 45.5 38.1 57.1





#7
Phenol-d6
Concen: 26.126 ng
RT: 7.107 min Scan# 705
Delta R.T. -0.026 min
Lab File: BG061179.D
Acq: 13 May 2024 17:27

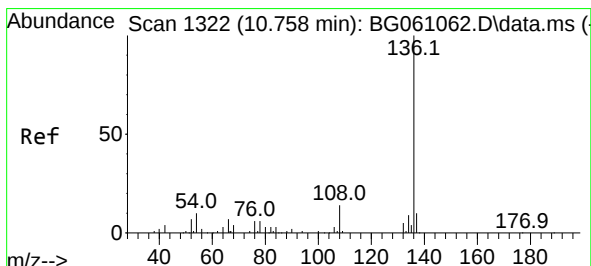
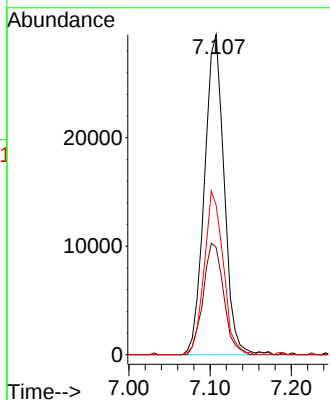
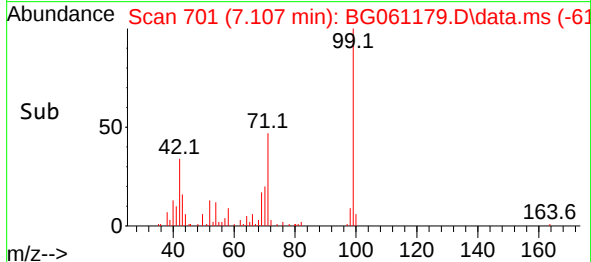
Instrument : BNA_G
ClientSampleId : EQ-TANK-CONTAINMENT-PIT



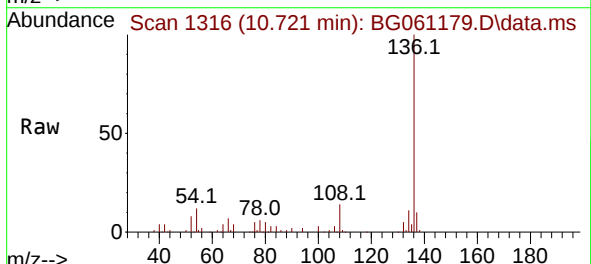
Tgt Ion: 99 Resp: 49674
Ion Ratio Lower Upper
99 100
42 33.6 29.2 43.8
71 46.8 39.7 59.5

Manual Integrations
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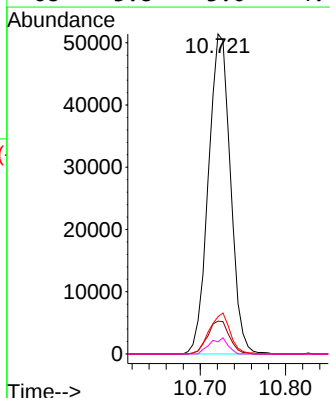
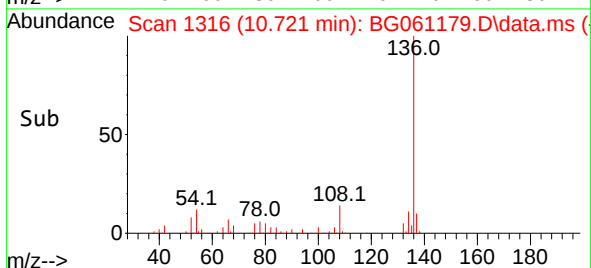
Reviewed By :Jagrut Upadhyay 05/14/2024
Supervised By :mohammad ahmed 05/17/2024

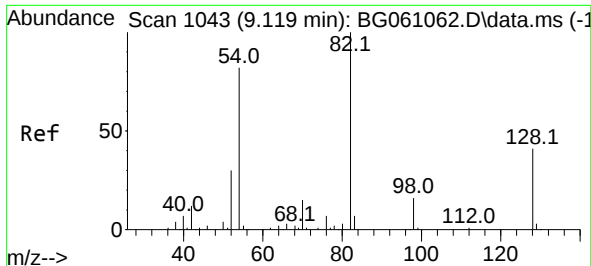


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.721 min Scan# 1316
Delta R.T. -0.037 min
Lab File: BG061179.D
Acq: 13 May 2024 17:27



Tgt Ion:136 Resp: 92269
Ion Ratio Lower Upper
136 100
137 10.3 7.8 11.6
54 11.7 8.1 12.1
68 3.8 3.0 4.4





#23

Nitrobenzene-d5

Concen: 76.836 ng

RT: 9.082 min Scan# 1043

Delta R.T. -0.037 min

Lab File: BG061179.D

Acq: 13 May 2024 17:27

Instrument :

BNA_G

ClientSampleId :

EQ-TANK-CONTAINMENT-PIT

Tgt Ion: 82 Resp: 143010

Ion Ratio Lower Upper

82 100

128 38.0 32.7 49.1

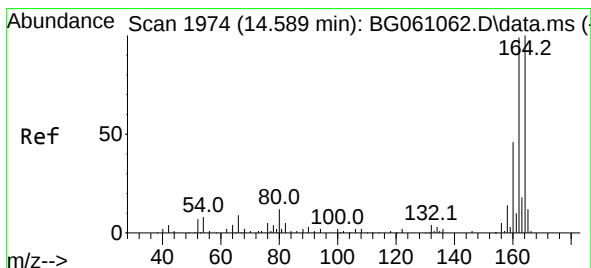
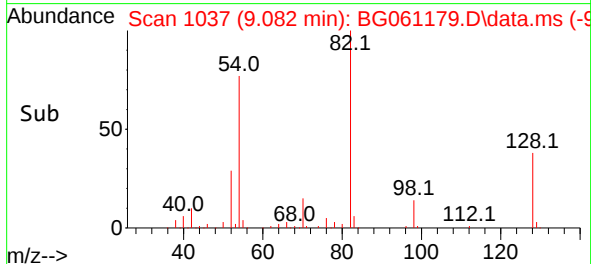
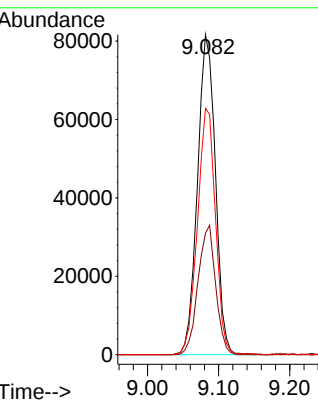
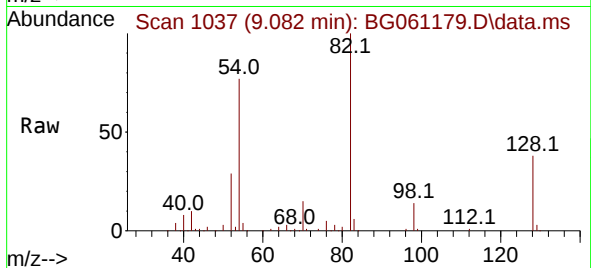
54 77.0 65.6 98.4

Manual Integrations

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Reviewed By :Jagrut Upadhyay 05/14/2024

Supervised By :mohammad ahmed 05/17/2024



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.557 min Scan# 1969

Delta R.T. -0.031 min

Lab File: BG061179.D

Acq: 13 May 2024 17:27

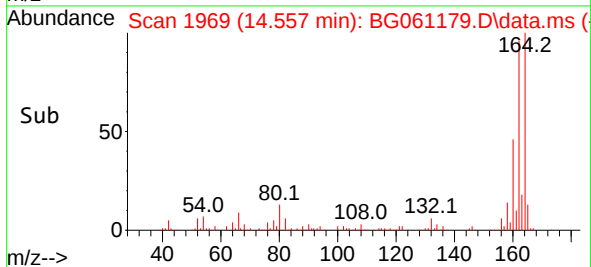
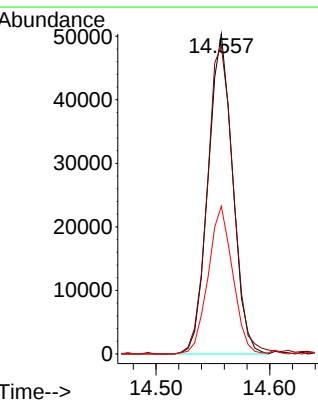
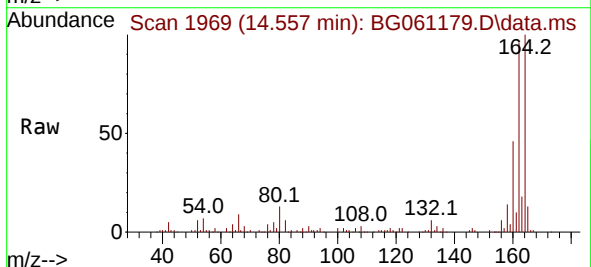
Tgt Ion:164 Resp: 75392

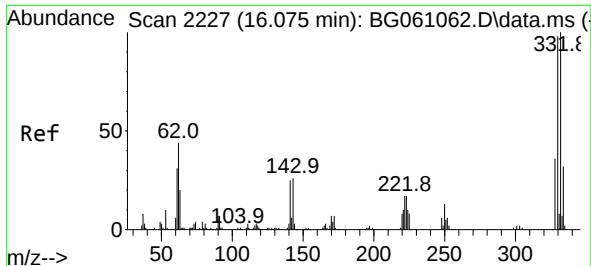
Ion Ratio Lower Upper

164 100

162 96.2 79.4 119.2

160 46.2 37.0 55.6





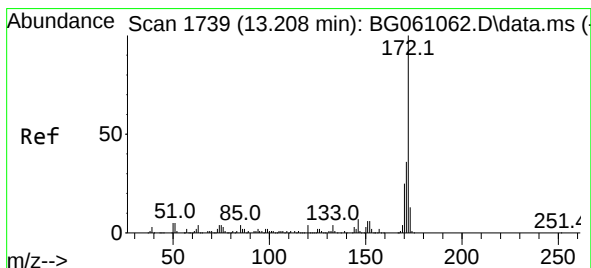
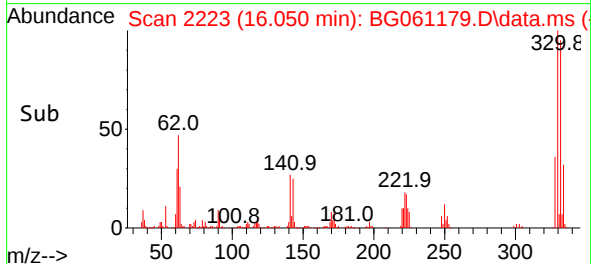
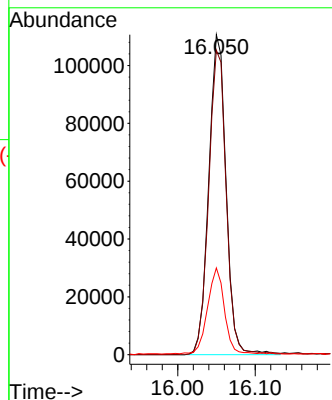
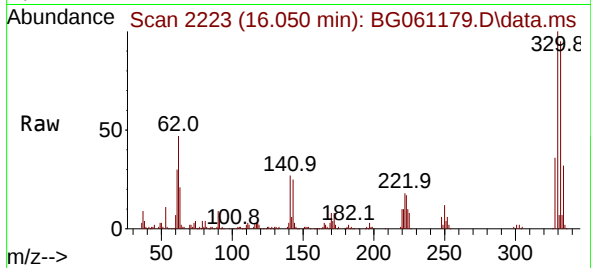
#42
2,4,6-Tribromophenol
Concen: 113.717 ng
RT: 16.050 min Scan# 21
Delta R.T. -0.026 min
Lab File: BG061179.D
Acq: 13 May 2024 17:27

Instrument :
BNA_G
ClientSampleId :
EQ-TANK-CONTAINMENT-PIT

Tgt Ion:330 Resp: 171360
Ion Ratio Lower Upper
330 100
332 95.7 78.6 117.8
141 26.1 20.5 30.7

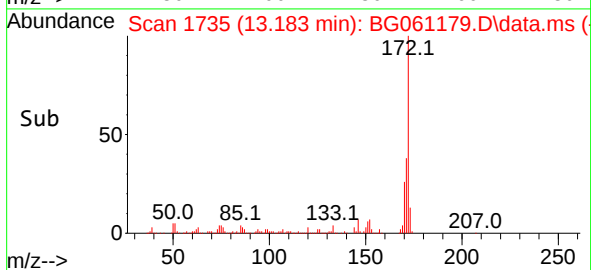
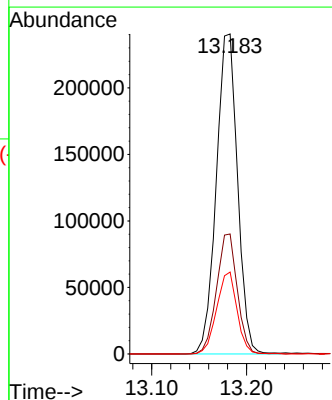
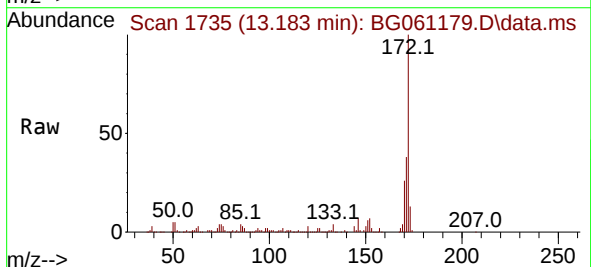
Manual Integrations
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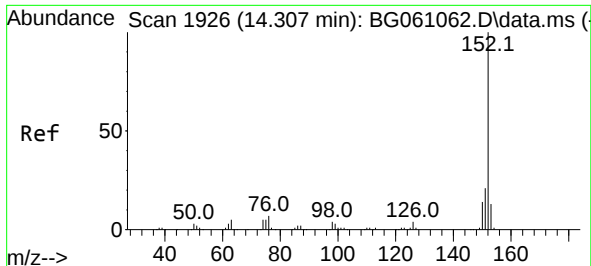
Reviewed By :Jagrut Upadhyay 05/14/2024
Supervised By :mohammad ahmed 05/17/2024



#45
2-Fluorobiphenyl
Concen: 73.560 ng
RT: 13.183 min Scan# 1735
Delta R.T. -0.026 min
Lab File: BG061179.D
Acq: 13 May 2024 17:27

Tgt Ion:172 Resp: 375043
Ion Ratio Lower Upper
172 100
171 37.5 29.0 43.6
170 25.6 20.2 30.4





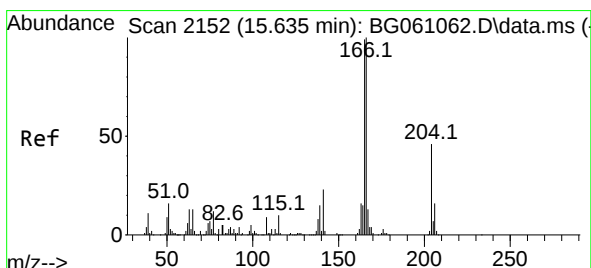
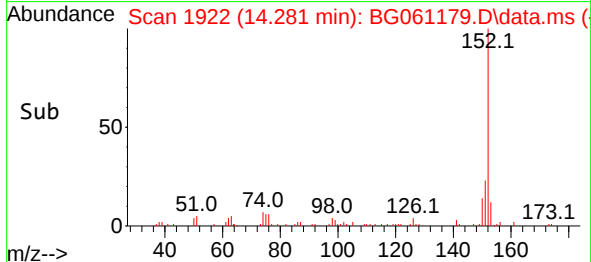
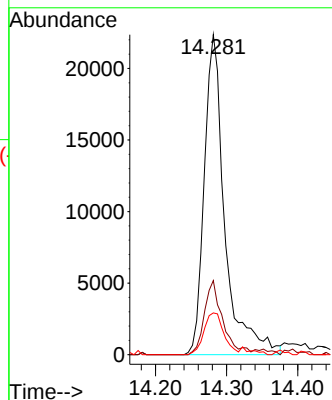
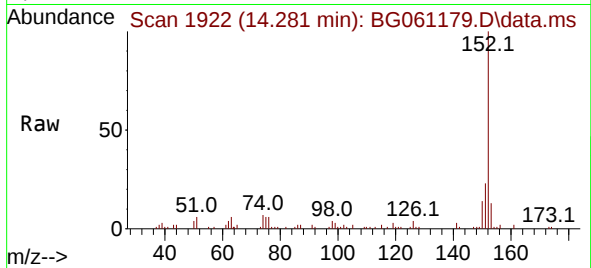
#49
Acenaphthylene
Concen: 7.559 ng
RT: 14.281 min Scan# 1926
Delta R.T. -0.026 min
Lab File: BG061179.D
Acq: 13 May 2024 17:27

Instrument : BNA_G
ClientSampleId : EQ-TANK-CONTAINMENT-PIT

Tgt Ion:152 Resp: 4493
Ion Ratio Lower Upper
152 100
151 23.1 16.9 25.3
153 13.1 10.6 15.8

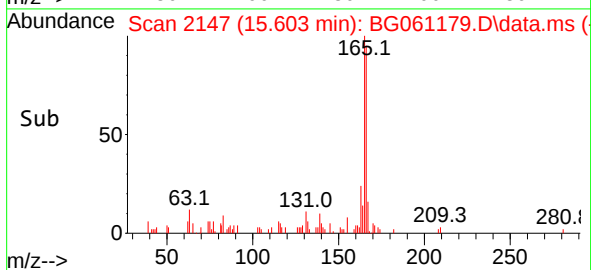
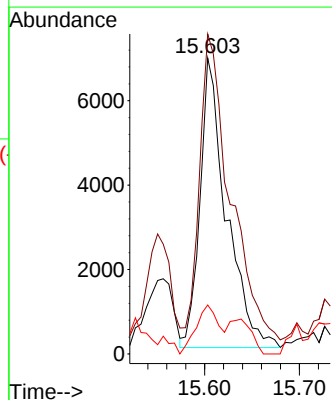
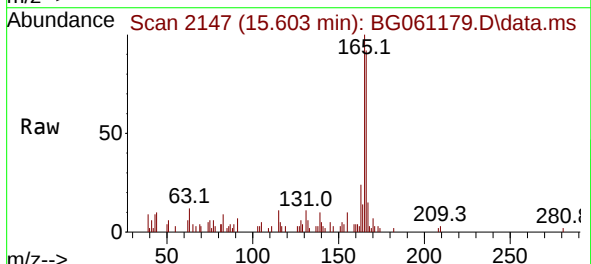
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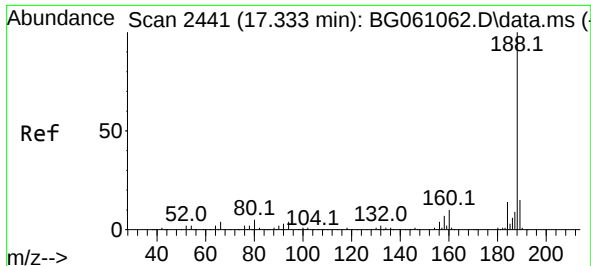
Reviewed By :Jagrut Upadhyay 05/14/2024
Supervised By :mohammad ahmed 05/17/2024



#58
Fluorene
Concen: 2.437 ng
RT: 15.603 min Scan# 2147
Delta R.T. -0.031 min
Lab File: BG061179.D
Acq: 13 May 2024 17:27

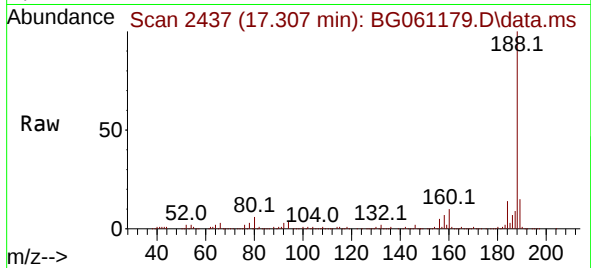
Tgt Ion:166 Resp: 13212
Ion Ratio Lower Upper
166 100
165 108.2 78.9 118.3
167 16.6 10.6 15.8#





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.307 min Scan# 2437
Delta R.T. -0.026 min
Lab File: BG061179.D
Acq: 13 May 2024 17:27

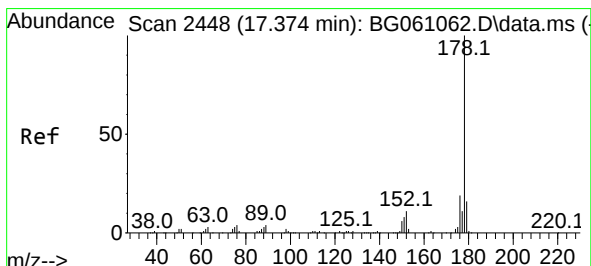
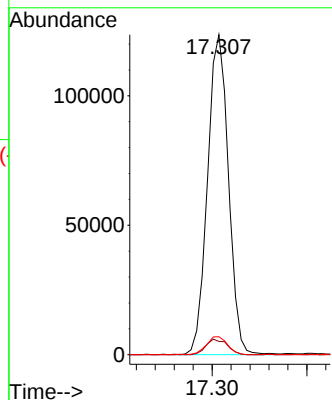
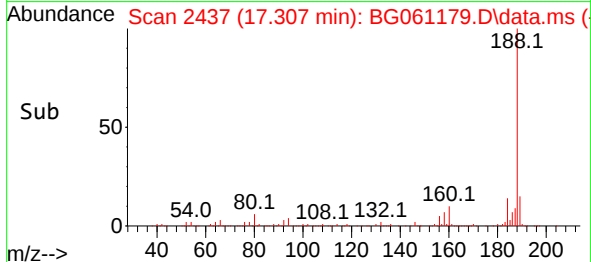
Instrument :
BNA_G
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EQ-TANK-CONTAINMENT-PIT



Tgt Ion:188 Resp: 189362
Ion Ratio Lower Upper
188 100
94 4.1 3.6 5.4
80 5.6 4.2 6.2

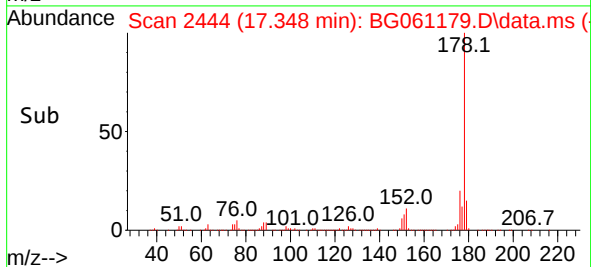
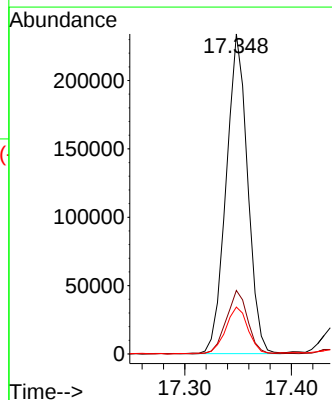
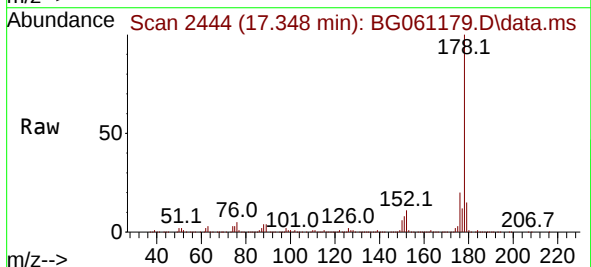
Manual Integrations
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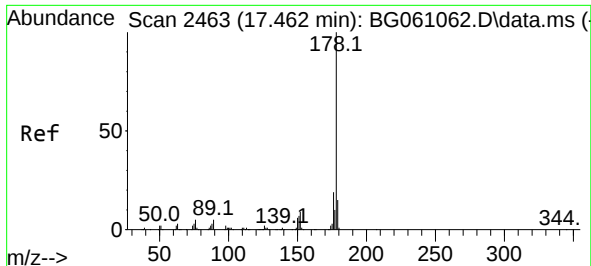
Reviewed By :Jagrut Upadhyay 05/14/2024
Supervised By :mohammad ahmed 05/17/2024



#71
Phenanthrene
Concen: 37.725 ng
RT: 17.348 min Scan# 2444
Delta R.T. -0.026 min
Lab File: BG061179.D
Acq: 13 May 2024 17:27

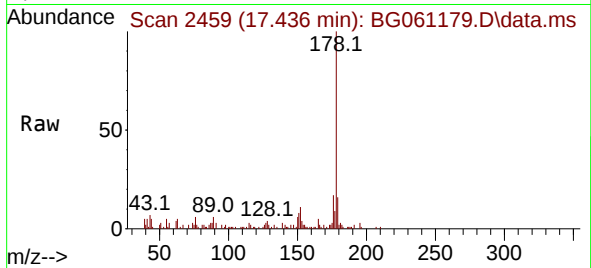
Tgt Ion:178 Resp: 326636
Ion Ratio Lower Upper
178 100
176 19.8 15.5 23.3
179 14.6 12.6 19.0





#72
 Anthracene
 Concen: 3.269 ng
 RT: 17.436 min Scan# 2463
 Delta R.T. -0.026 min
 Lab File: BG061179.D
 Acq: 13 May 2024 17:27

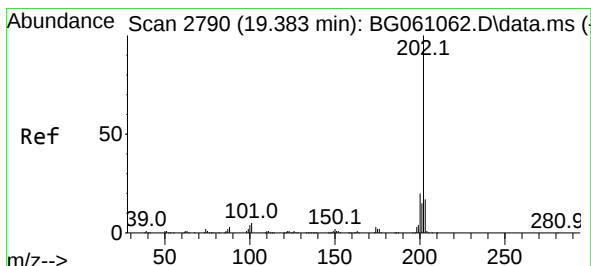
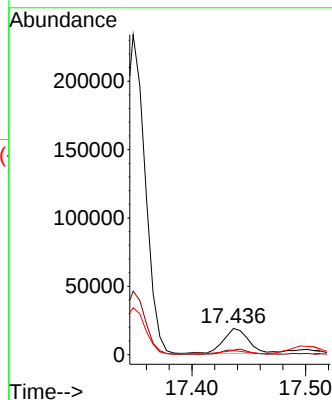
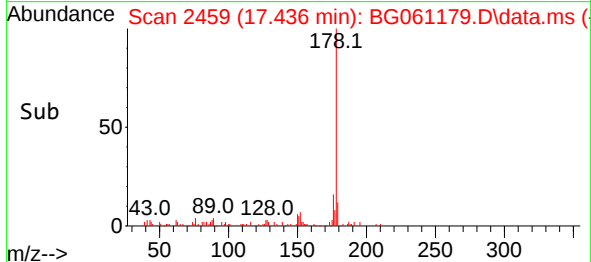
Instrument :
 BNA_G
 ClientSampleId :
 EQ-TANK-CONTAINMENT-PIT



Tgt Ion:178 Resp: 28245
 Ion Ratio Lower Upper
 178 100
 176 16.8 15.0 22.6
 179 15.8 12.0 18.0

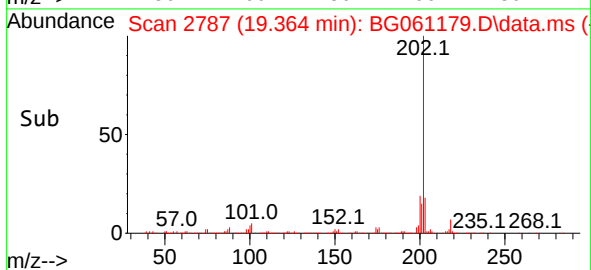
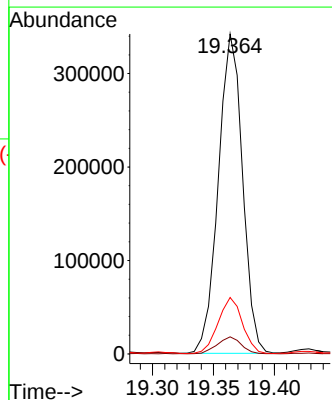
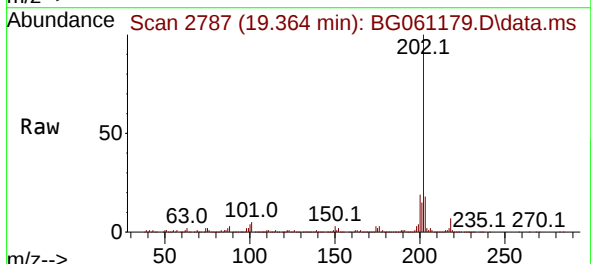
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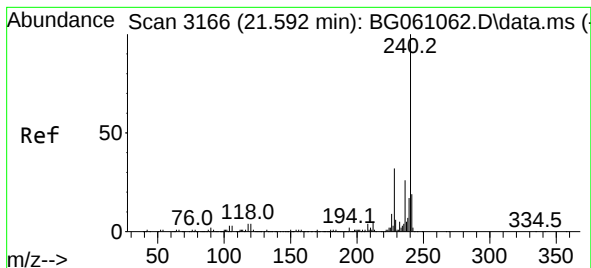
Reviewed By :Jagrut Upadhyay 05/14/2024
 Supervised By :mohammad ahmed 05/17/2024



#75
 Fluoranthene
 Concen: 39.837 ng
 RT: 19.364 min Scan# 2787
 Delta R.T. -0.020 min
 Lab File: BG061179.D
 Acq: 13 May 2024 17:27

Tgt Ion:202 Resp: 472543
 Ion Ratio Lower Upper
 202 100
 101 5.4 0.0 24.7
 203 17.6 0.0 37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.567 min Scan# 3166

Delta R.T. -0.026 min

Lab File: BG061179.D

Acq: 13 May 2024 17:27

Instrument :

BNA_G

ClientSampleId :

EQ-TANK-CONTAINMENT-PIT

Tgt Ion:240 Resp: 19595

Ion Ratio Lower Upper

240 100

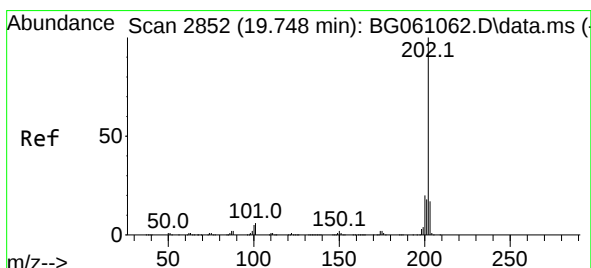
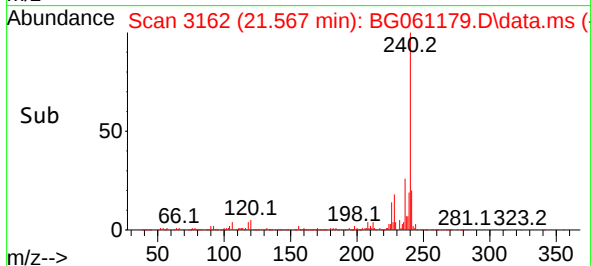
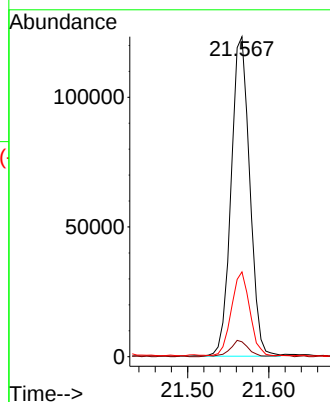
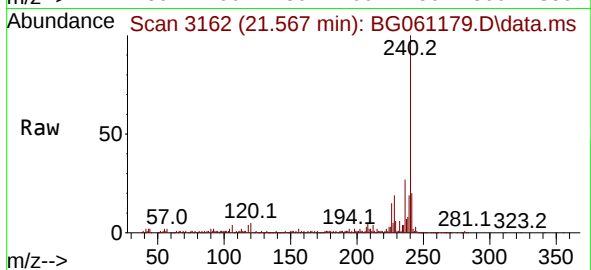
120 4.7 3.2 4.8

236 26.5 21.0 31.6

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Reviewed By :Jagrut Upadhyay 05/14/2024
Supervised By :mohammad ahmed 05/17/2024



#78

Pyrene

Concen: 60.677 ng

RT: 19.728 min Scan# 2849

Delta R.T. -0.020 min

Lab File: BG061179.D

Acq: 13 May 2024 17:27

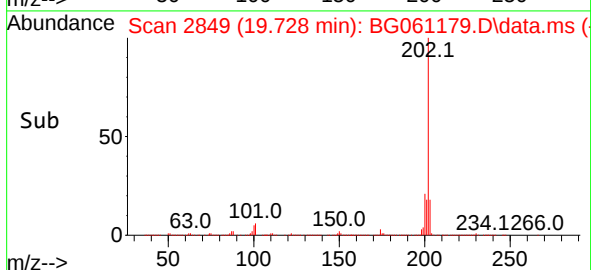
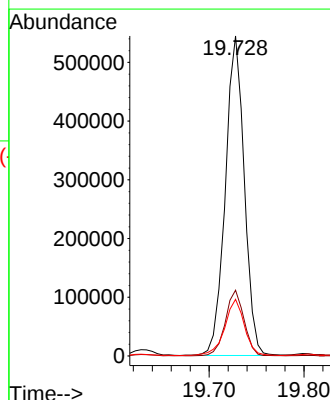
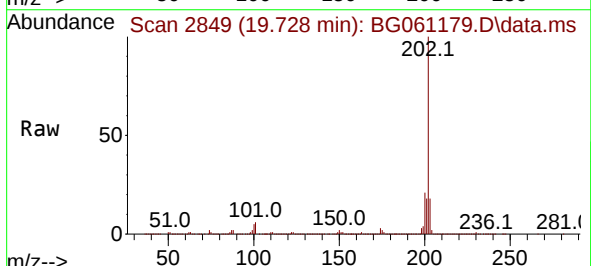
Tgt Ion:202 Resp: 755900

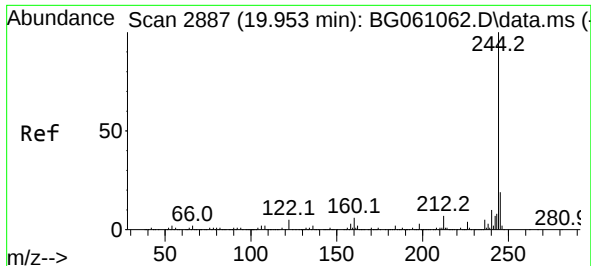
Ion Ratio Lower Upper

202 100

200 20.5 16.2 24.4

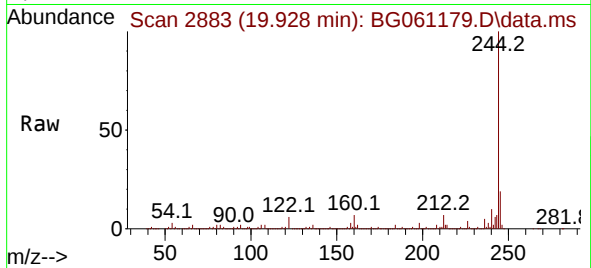
203 17.7 13.3 19.9





#79
Terphenyl-d14
Concen: 73.871 ng
RT: 19.928 min Scan# 21
Delta R.T. -0.026 min
Lab File: BG061179.D
Acq: 13 May 2024 17:27

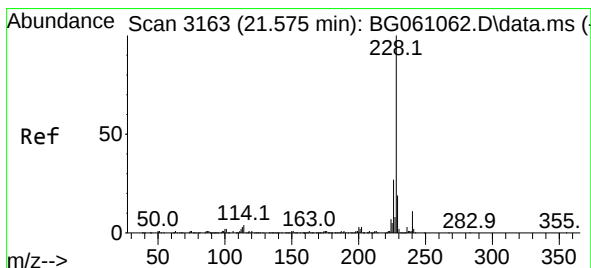
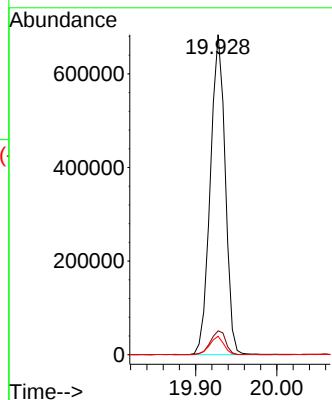
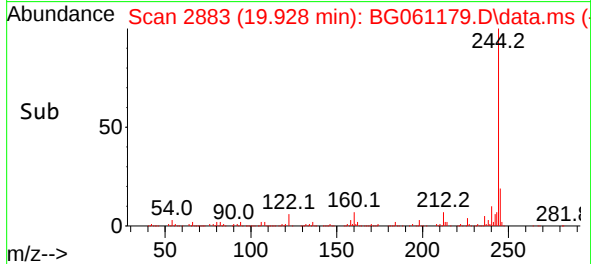
Instrument :
BNA_G
ClientSampleId :
EQ-TANK-CONTAINMENT-PIT



Tgt Ion:244 Resp: 87034
Ion Ratio Lower Upper
244 100
212 7.5 5.7 8.5
122 5.7 4.2 6.2

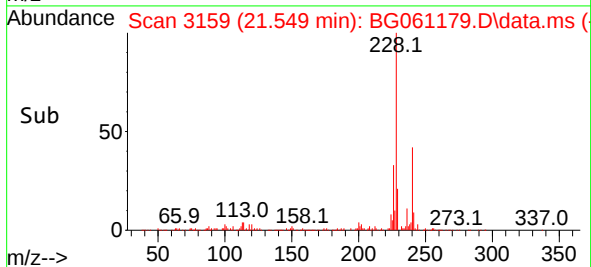
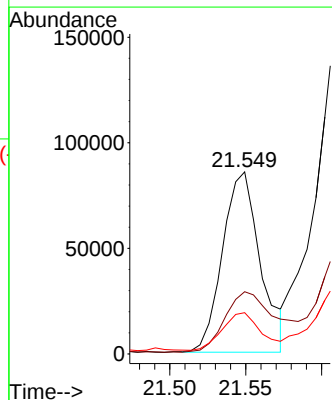
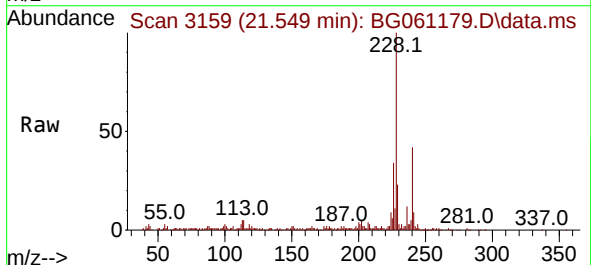
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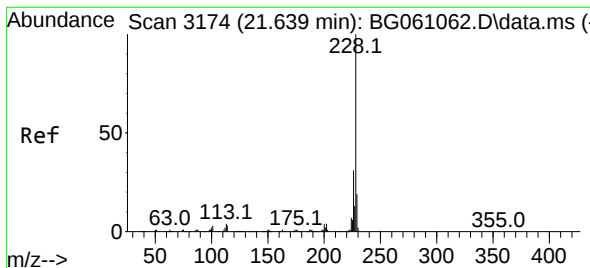
Reviewed By :Jagrut Upadhyay 05/14/2024
Supervised By :mohammad ahmed 05/17/2024



#81
Benzo(a)anthracene
Concen: 11.548 ng m
RT: 21.549 min Scan# 3159
Delta R.T. -0.026 min
Lab File: BG061179.D
Acq: 13 May 2024 17:27

Tgt Ion:228 Resp: 148078
Ion Ratio Lower Upper
228 100
226 34.2 21.6 32.4#
229 22.7 15.0 22.4#





#83

Chrysene

Concen: 23.409 ng

RT: 21.614 min Scan# 3170

Delta R.T. -0.026 min

Lab File: BG061179.D

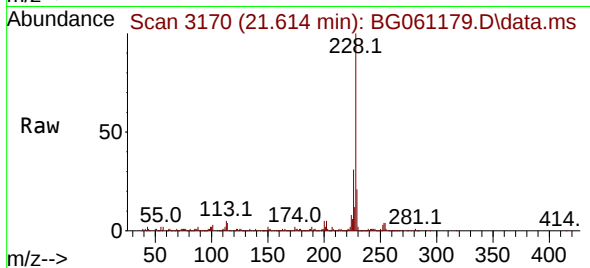
Acq: 13 May 2024 17:27

Instrument :

BNA_G

ClientSampleId :

EQ-TANK-CONTAINMENT-PIT

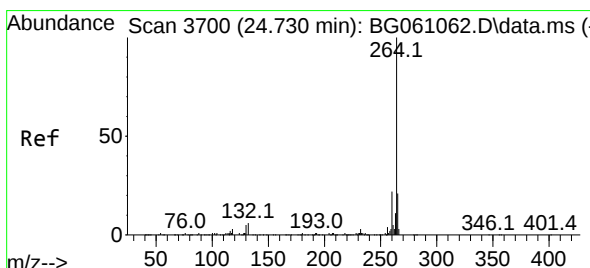
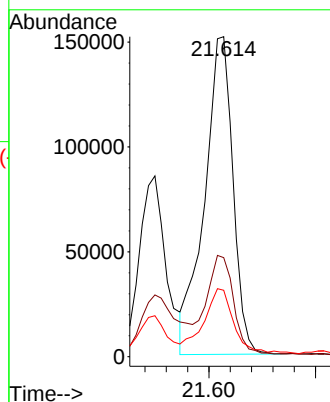
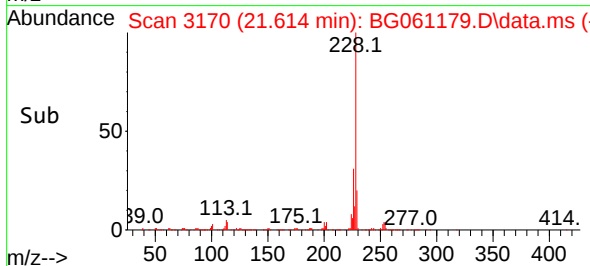


Tgt Ion:	228	Resp:	281220
Ion Ratio	Lower	Upper	
228	100		
226	31.0	24.4	36.6
229	20.7	14.8	22.2

Manual Integrations

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Reviewed By :Jagrut Upadhyay 05/14/2024
Supervised By :mohammad ahmed 05/17/2024



#86

Perylene-d12

Concen: 20.000 ng

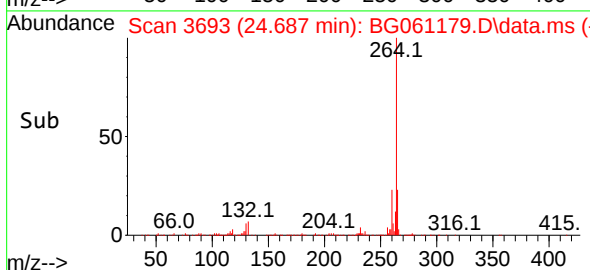
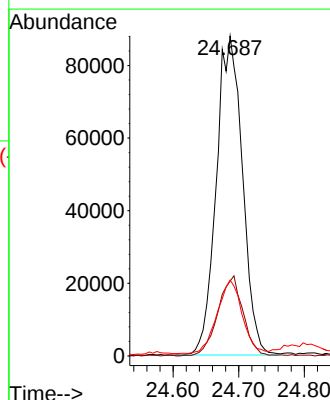
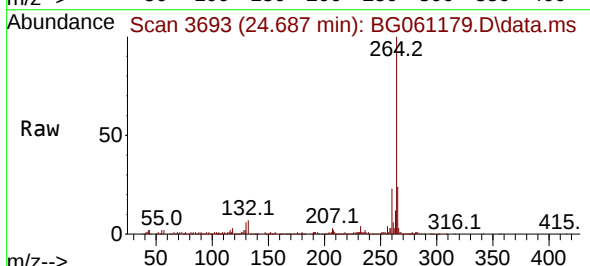
RT: 24.687 min Scan# 3693

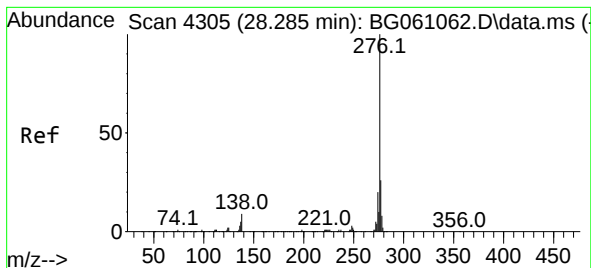
Delta R.T. -0.043 min

Lab File: BG061179.D

Acq: 13 May 2024 17:27

Tgt Ion:	264	Resp:	243435
Ion Ratio	Lower	Upper	
264	100		
260	23.4	17.7	26.5
265	23.7	16.4	24.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.830 ng

RT: 28.212 min Scan# 41

Delta R.T. -0.073 min

Lab File: BG061179.D

Acq: 13 May 2024 17:27

Instrument :

BNA_G

ClientSampleId :

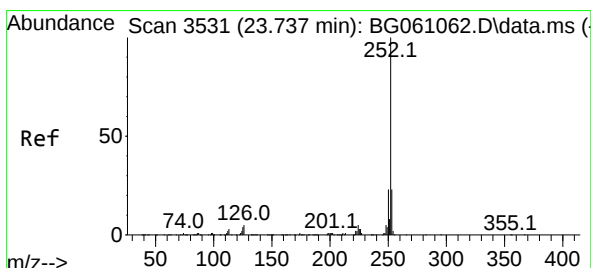
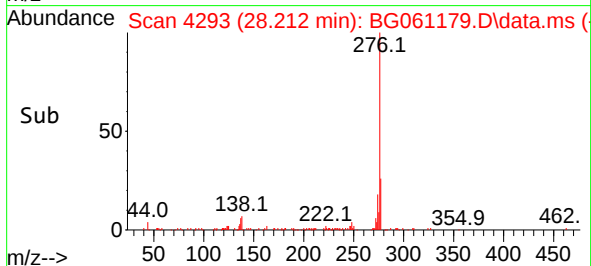
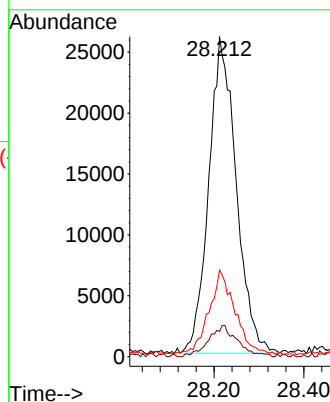
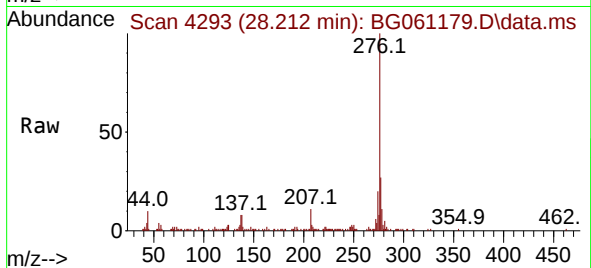
EQ-TANK-CONTAINMENT-PIT

Tgt Ion:276 Resp: 11019
 Ion Ratio Lower Upper
 276 100
 138 10.4 5.1 7.7
 277 25.5 20.6 30.8

Manual Integrations

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Reviewed By :Jagrut Upadhyay 05/14/2024
 Supervised By :mohammad ahmed 05/17/2024



#88

Benzo(b)fluoranthene

Concen: 15.853 ng m

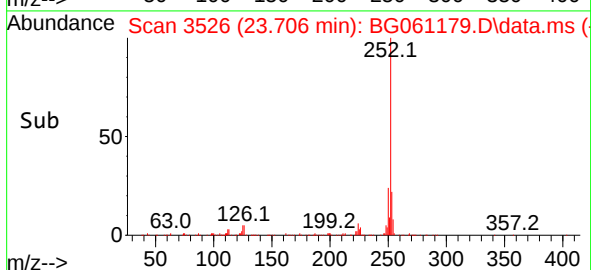
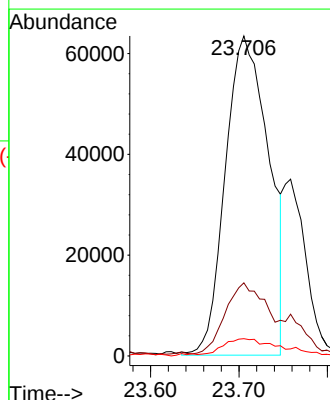
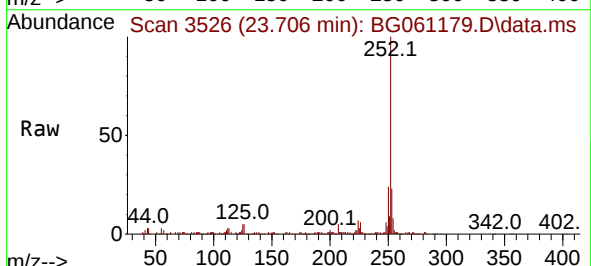
RT: 23.706 min Scan# 3526

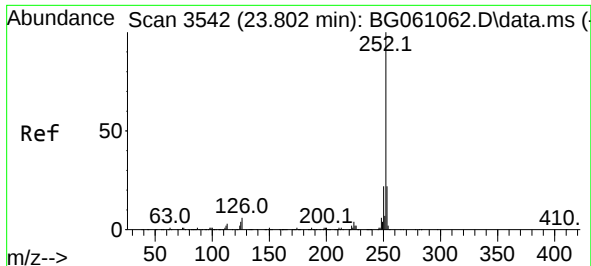
Delta R.T. -0.031 min

Lab File: BG061179.D

Acq: 13 May 2024 17:27

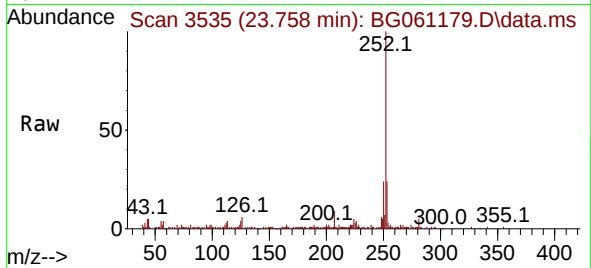
Tgt Ion:252 Resp: 215647
 Ion Ratio Lower Upper
 252 100
 253 22.8 18.2 27.2
 125 5.4 3.4 5.0#





#89
Benzo(k)fluoranthene
Concen: 4.656 ng m
RT: 23.758 min Scan# 3542
Delta R.T. -0.043 min
Lab File: BG061179.D
Acq: 13 May 2024 17:27

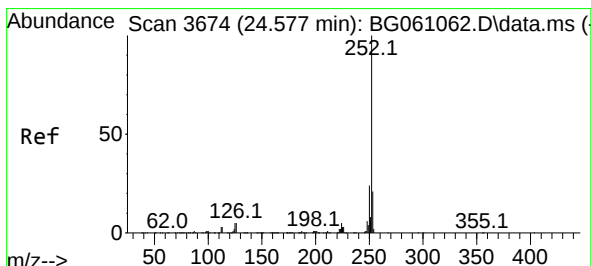
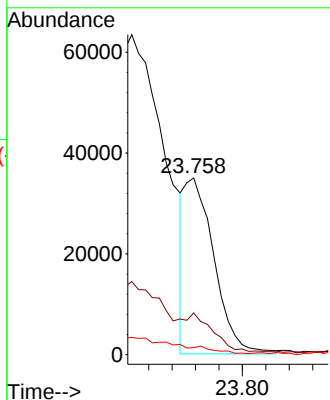
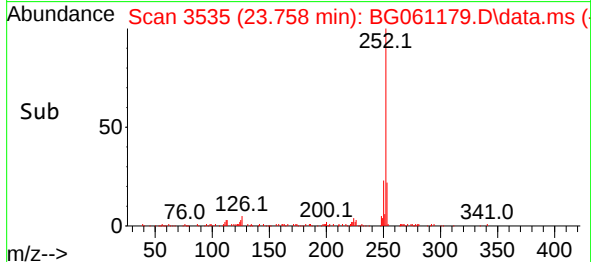
Instrument :
BNA_G
ClientSampleId :
EQ-TANK-CONTAINMENT-PIT



Tgt Ion:252 Resp: 6092
Ion Ratio Lower Upper
252 100
253 23.6 17.3 25.9
125 3.9 3.2 4.8

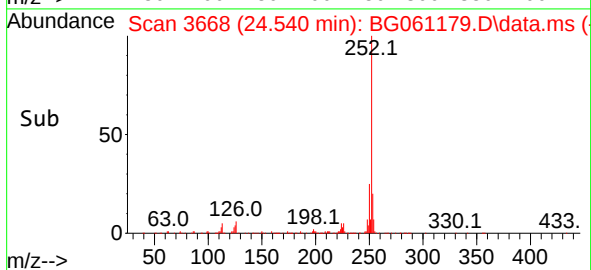
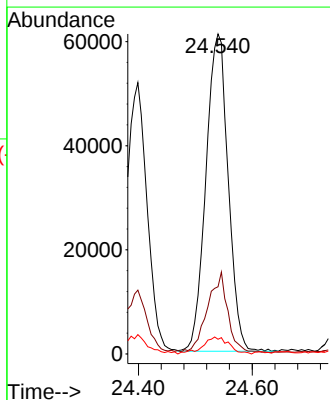
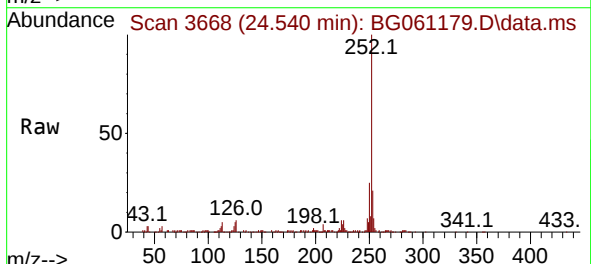
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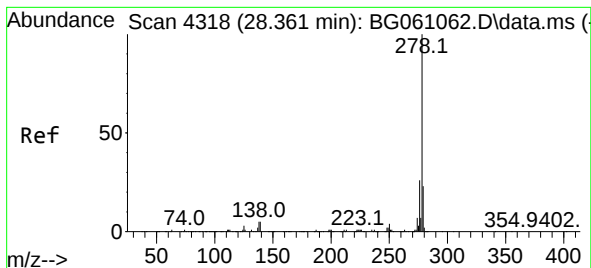
Reviewed By :Jagrut Upadhyay 05/14/2024
Supervised By :mohammad ahmed 05/17/2024



#90
Benzo(a)pyrene
Concen: 13.960 ng
RT: 24.540 min Scan# 3668
Delta R.T. -0.037 min
Lab File: BG061179.D
Acq: 13 May 2024 17:27

Tgt Ion:252 Resp: 165447
Ion Ratio Lower Upper
252 100
253 21.0 16.9 25.3
125 4.6 3.8 5.8





#91

Dibenzo(a,h)anthracene

Concen: 2.025 ng

RT: 28.259 min Scan# 41

Delta R.T. -0.102 min

Lab File: BG061179.D

Acq: 13 May 2024 17:27

Instrument :

BNA_G

ClientSampleId :

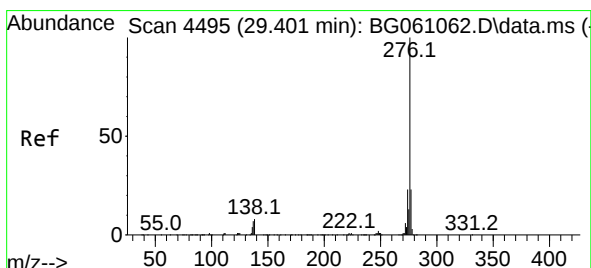
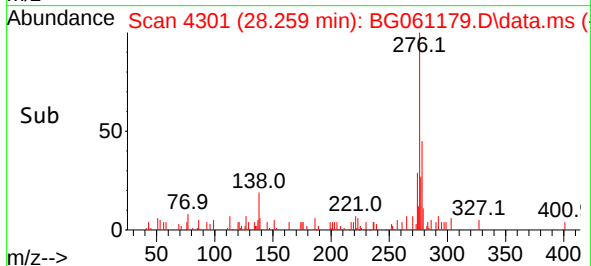
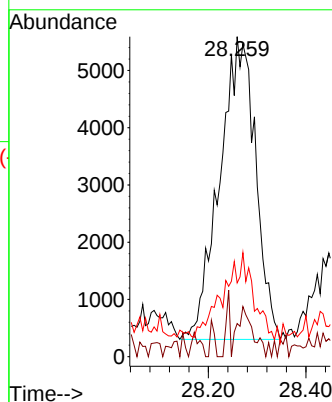
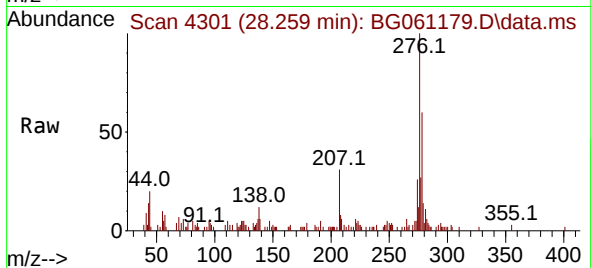
EQ-TANK-CONTAINMENT-PIT

Tgt Ion:	278	Resp:	2705
Ion Ratio	Lower	Upper	
278	100		
139	10.4	4.2	6.2
279	23.1	18.0	27.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 05/14/2024
Supervised By :mohammad ahmed 05/17/2024



#92

Benzo(g,h,i)perylene

Concen: 9.207 ng

RT: 29.322 min Scan# 4482

Delta R.T. -0.078 min

Lab File: BG061179.D

Acq: 13 May 2024 17:27

Tgt Ion:	276	Resp:	122240
Ion Ratio	Lower	Upper	
276	100		
277	21.1	18.2	27.4
138	9.4	6.2	9.2

