

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG090622\
 Data File : BG054859.D
 Acq On : 6 Sep 2022 19:59
 Operator : CG/JU
 Sample : N4485-06DL 5X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 AP-PIPE-2-SOILDL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 09/07/2022
 Supervised By : Jagrut Upadhyay 09/07/2022

Quant Time: Sep 07 04:59:56 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG082522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 25 17:50:55 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.146	152	58761	20.000	ng	0.00
21) Naphthalene-d8	10.972	136	237644	20.000	ng	0.00
39) Acenaphthene-d10	14.780	164	153379	20.000	ng	0.00
64) Phenanthrene-d10	17.529	188	327186	20.000	ng	0.00
76) Chrysene-d12	21.824	240	298381	20.000	ng	0.00
86) Perylene-d12	25.203	264	321707	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.690	112	74726	22.145	ng	0.00
7) Phenol-d6	7.300	99	100951	21.875	ng	0.00
23) Nitrobenzene-d5	9.321	82	59046	13.043	ng	0.00
42) 2,4,6-Tribromophenol	16.266	330	41119	21.454	ng	0.00
45) 2-Fluorobiphenyl	13.405	172	144106	14.121	ng	0.00
79) Terphenyl-d14	20.126	244	213902	14.204	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.025	128	113841	8.929	ng	98
37) 2-Methylnaphthalene	12.623	142	91987	10.294	ng	99
38) 1-Methylnaphthalene	12.841	142	121013	13.918	ng	98
46) 1,1'-Biphenyl	13.616	154	54697	4.802	ng	95
49) Acenaphthylene	14.509	152	36214	2.537	ng	# 92
52) Acenaphthene	14.844	154	26202	2.858	ng	96
58) Fluorene	15.825	166	124881	11.002	ng	98
71) Phenanthrene	17.576	178	1605794	92.131	ng	95
72) Anthracene	17.664	178	34262m	2.022	ng	
75) Fluoranthene	19.580	202	1006493	47.470	ng	98
78) Pyrene	19.944	202	1736146	83.445	ng	92
81) Benzo(a)anthracene	21.807	228	364258	18.005	ng	99
83) Chrysene	21.871	228	539625	27.897	ng	99
87) Indeno(1,2,3-cd)pyrene	29.086	276	284629	11.654	ng	95
88) Benzo(b)fluoranthene	24.127	252	553124m	27.408	ng	
89) Benzo(k)fluoranthene	24.180	252	146898m	7.233	ng	
90) Benzo(a)pyrene	25.044	252	498946	28.938	ng	100
91) Dibenzo(a,h)anthracene	29.145	278	58231m	2.927	ng	
92) Benzo(g,h,i)perylene	30.314	276	328166	16.326	ng	99

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

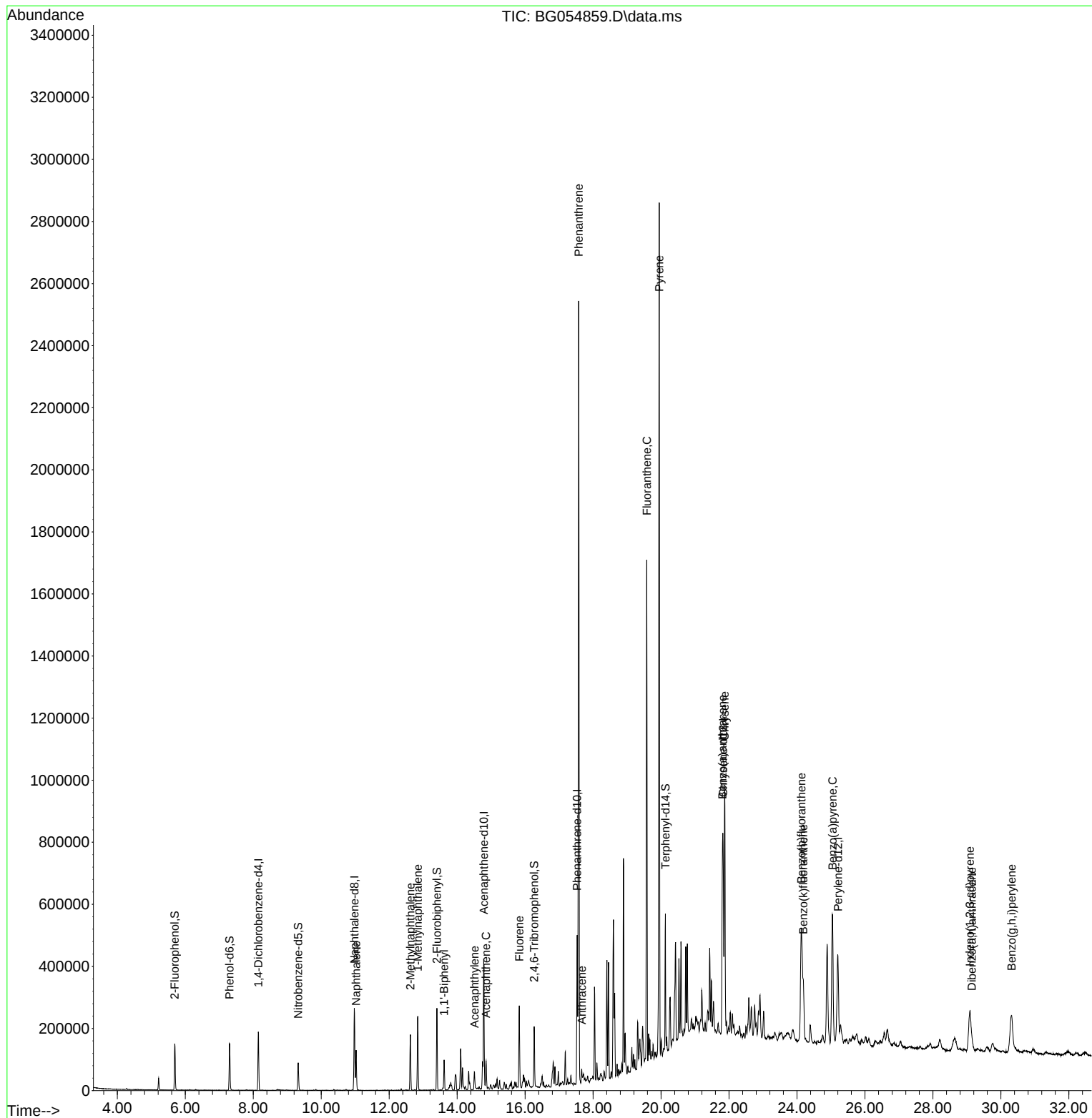
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG090622\
Data File : BG054859.D
Acq On : 6 Sep 2022 19:59
Operator : CG/JU
Sample : N4485-06DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

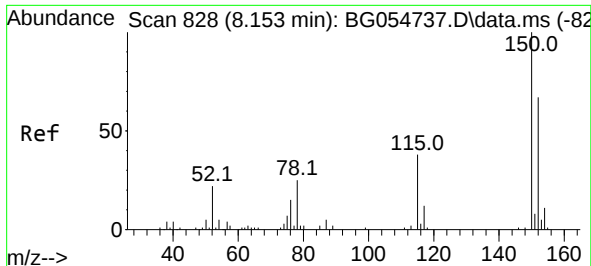
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILDL

Quant Time: Sep 07 04:59:56 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG082522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 25 17:50:55 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

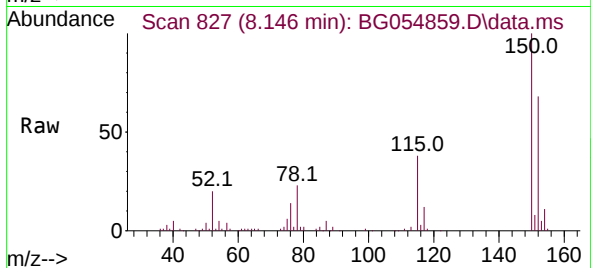
Reviewed By : Christian Giraldo 09/07/2022
Supervised By : Jagrut Upadhyay 09/07/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.146 min Scan# 81
Delta R.T. -0.007 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

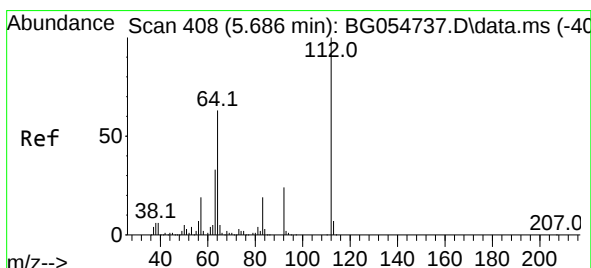
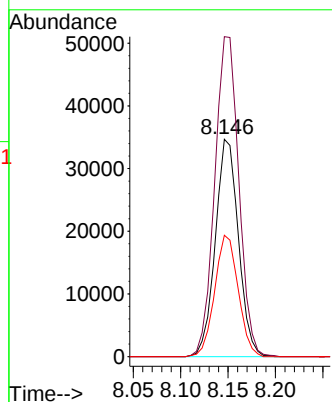
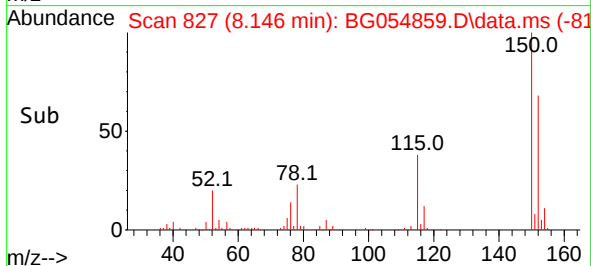
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILD



Tgt Ion:152 Resp: 5876
Ion Ratio Lower Upper
152 100
150 147.2 125.2 187.8
115 55.8 47.9 71.9

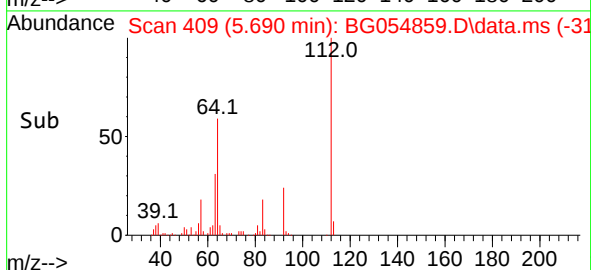
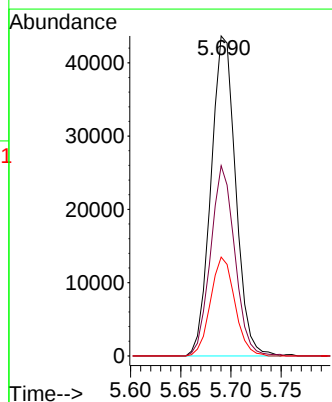
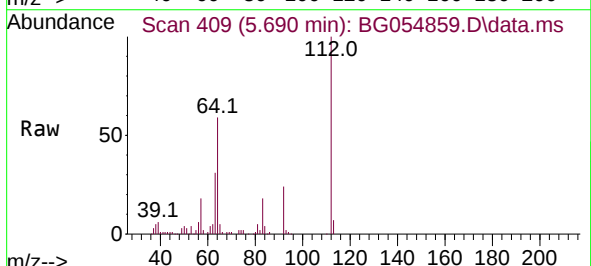
Manual Integrations
APPROVED

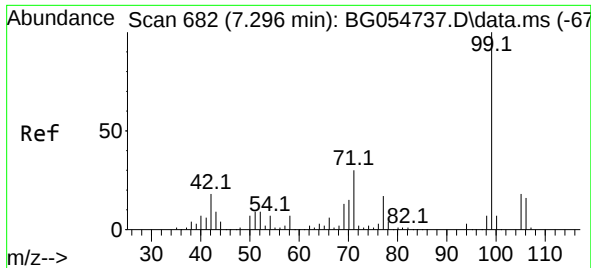
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022



#5
2-Fluorophenol
Concen: 22.145 ng
RT: 5.690 min Scan# 409
Delta R.T. 0.004 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

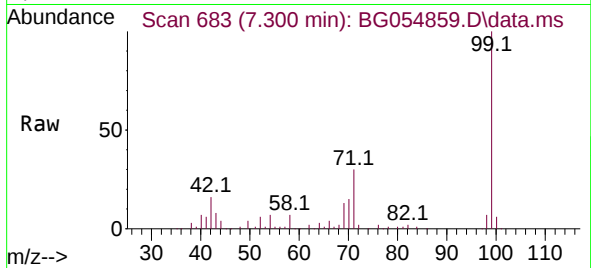
Tgt Ion:112 Resp: 74726
Ion Ratio Lower Upper
112 100
64 59.5 49.3 73.9
63 30.9 26.3 39.5





#7
Phenol-d6
Concen: 21.875 ng
RT: 7.300 min Scan# 682
Delta R.T. 0.004 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

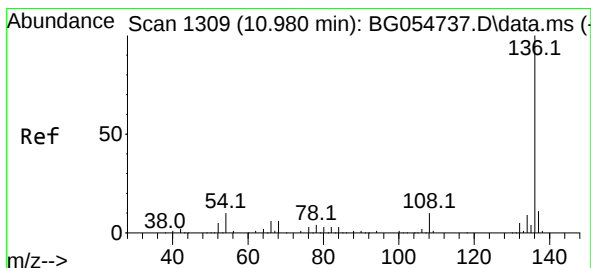
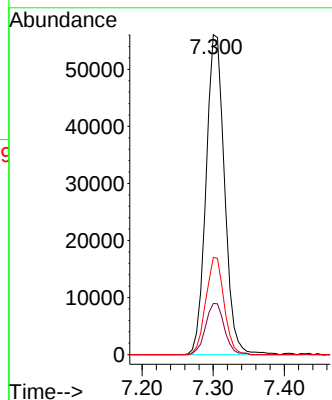
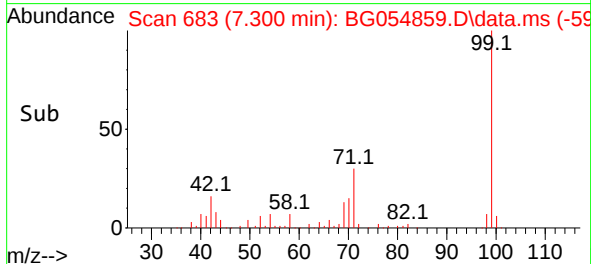
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILD



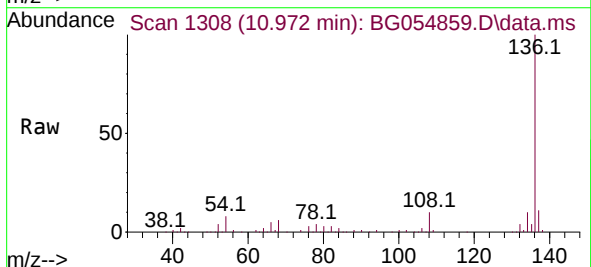
Tgt Ion: 99 Resp: 10095
Ion Ratio Lower Upper
99 100
42 16.0 14.6 22.0
71 30.4 24.6 37.0

Manual Integrations
APPROVED

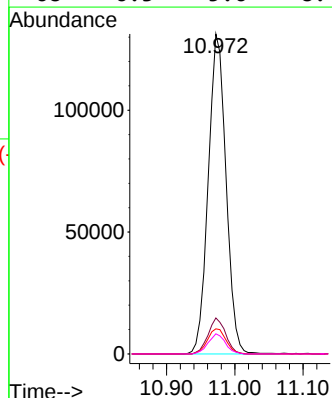
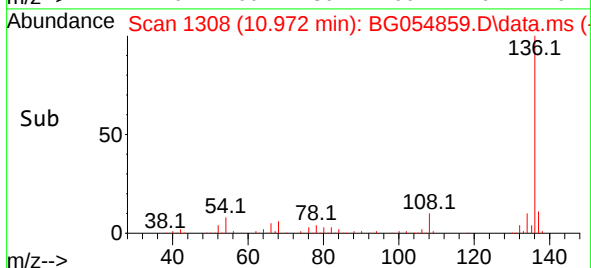
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022

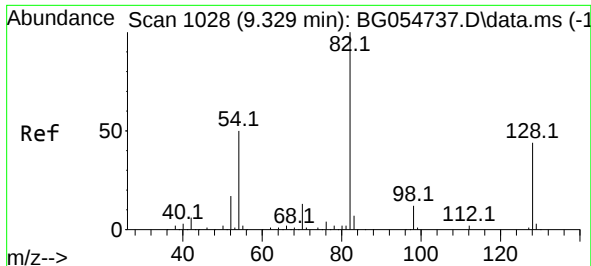


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.972 min Scan# 1308
Delta R.T. -0.008 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59



Tgt Ion:136 Resp: 237644
Ion Ratio Lower Upper
136 100
137 11.2 9.2 13.8
54 7.8 7.7 11.5
68 6.3 5.6 8.4





#23
Nitrobenzene-d5
Concen: 13.043 ng
RT: 9.321 min Scan# 1027
Delta R.T. -0.007 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

Instrument :

BNA_G

ClientSampleId :

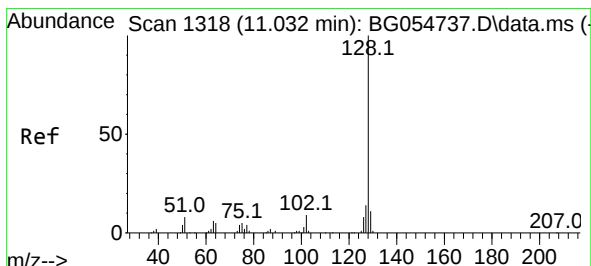
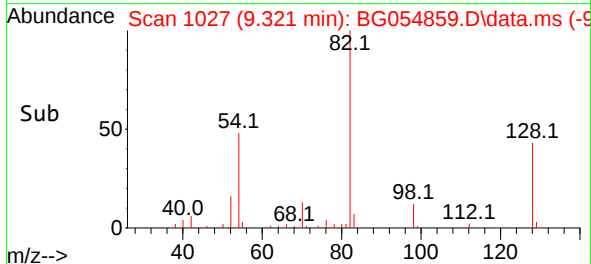
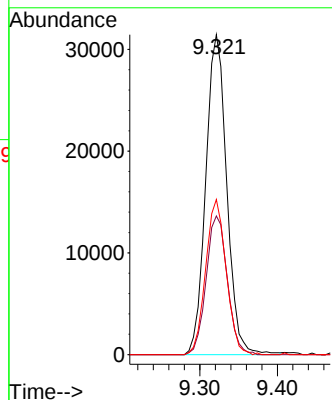
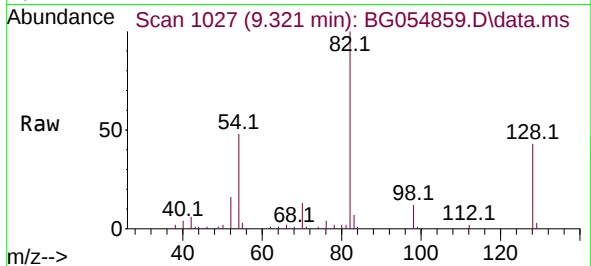
AP-PIPE-2-SOILD

Tgt Ion: 82 Resp: 59046
Ion Ratio Lower Upper
82 100
128 43.3 32.2 48.2
54 48.5 41.4 62.0

Manual Integrations

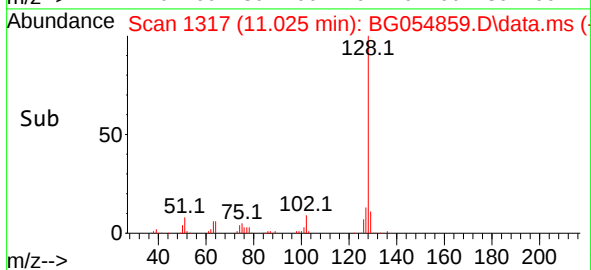
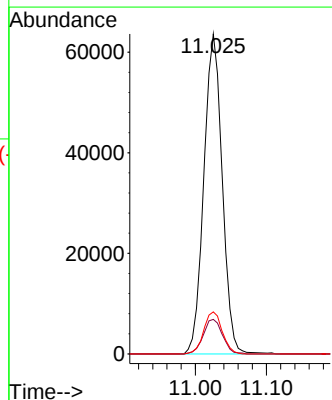
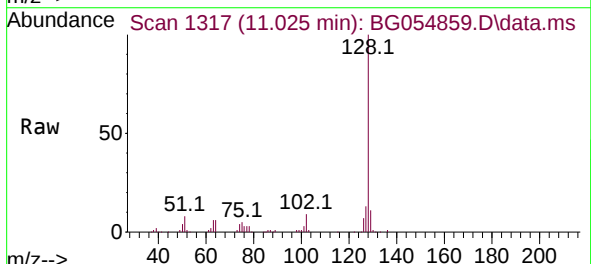
APPROVED

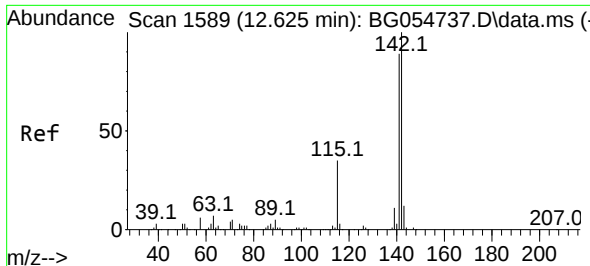
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022



#31
Naphthalene
Concen: 8.929 ng
RT: 11.025 min Scan# 1317
Delta R.T. -0.007 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

Tgt Ion:128 Resp: 113841
Ion Ratio Lower Upper
128 100
129 10.8 9.0 13.4
127 13.1 11.1 16.7





#37

2-Methylnaphthalene

Concen: 10.294 ng

RT: 12.623 min Scan# 11

Delta R.T. -0.002 min

Lab File: BG054859.D

Acq: 6 Sep 2022 19:59

Instrument :

BNA_G

ClientSampleId :

AP-PIPE-2-SOILD

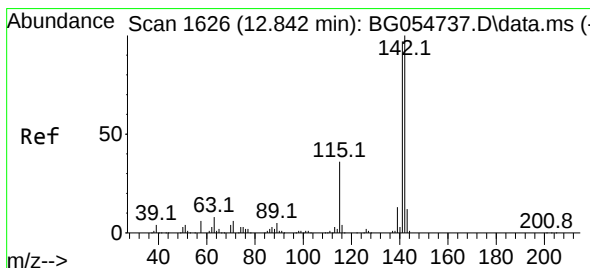
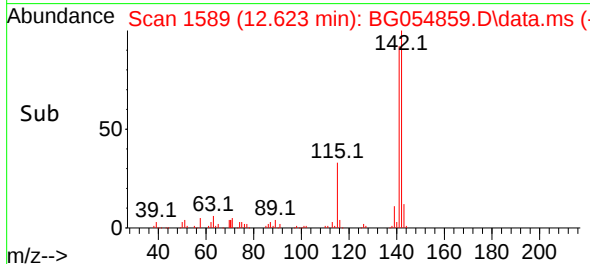
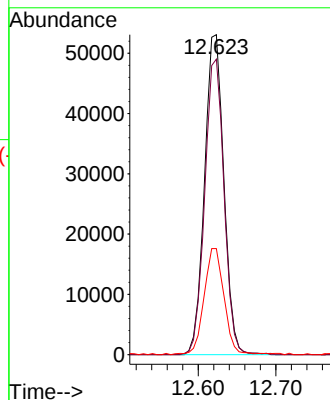
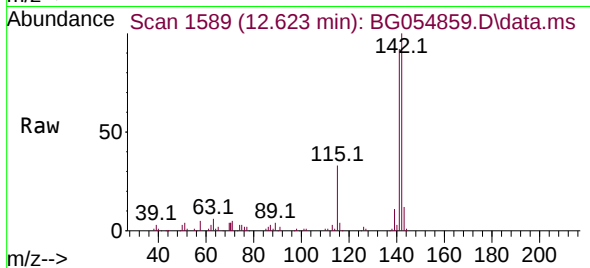
Tgt Ion:	142	Resp:	9198
Ion Ratio	Lower	Upper	
142	100		
141	92.3	73.0	109.4
115	33.1	27.3	40.9

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 09/07/2022

Supervised By :Jagrut Upadhyay 09/07/2022



#38

1-Methylnaphthalene

Concen: 13.918 ng

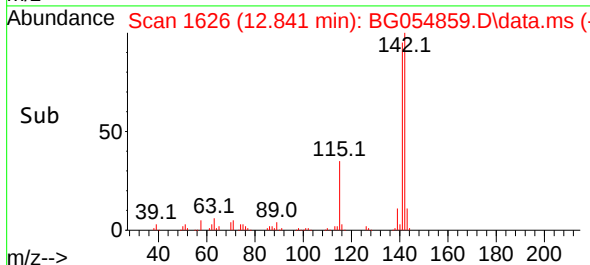
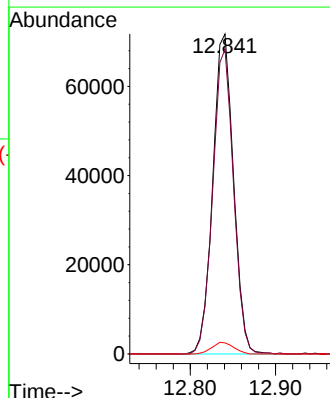
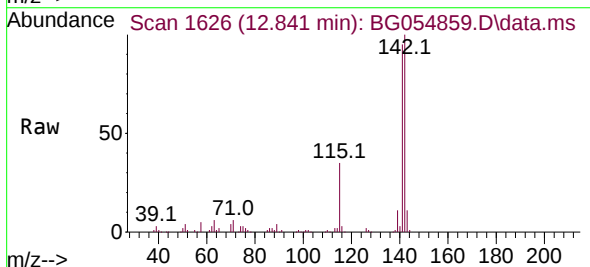
RT: 12.841 min Scan# 1626

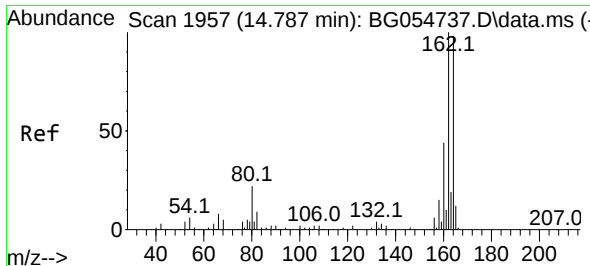
Delta R.T. -0.002 min

Lab File: BG054859.D

Acq: 6 Sep 2022 19:59

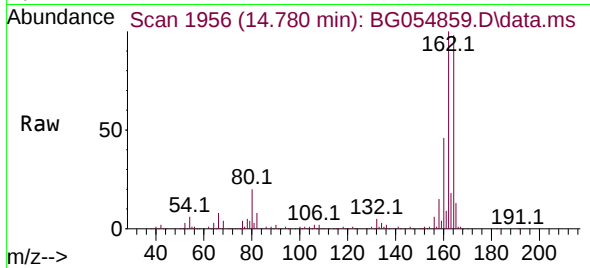
Tgt Ion:	142	Resp:	121013
Ion Ratio	Lower	Upper	
142	100		
141	95.2	77.4	116.0
116	3.4	3.0	4.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.780 min Scan# 1956
Delta R.T. -0.008 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

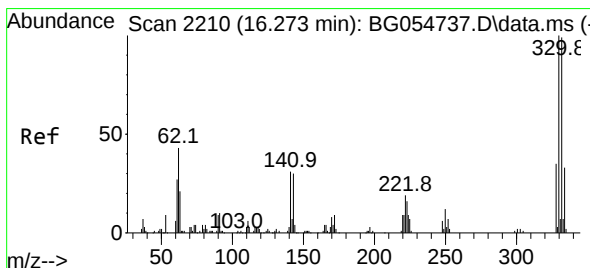
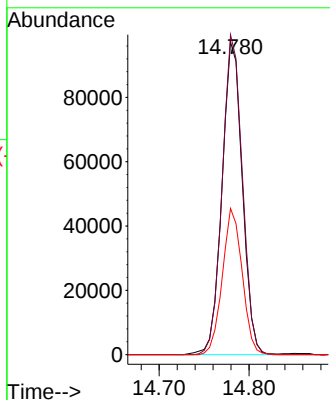
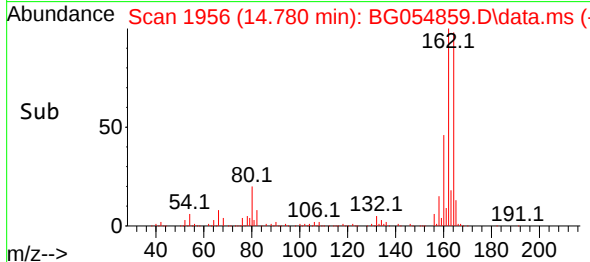
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILD



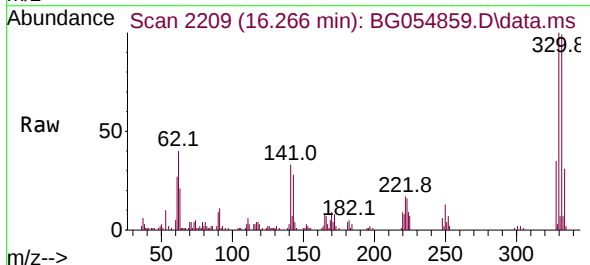
Tgt Ion:164 Resp: 153379
Ion Ratio Lower Upper
164 100
162 102.3 83.0 124.4
160 46.7 38.0 57.0

Manual Integrations
APPROVED

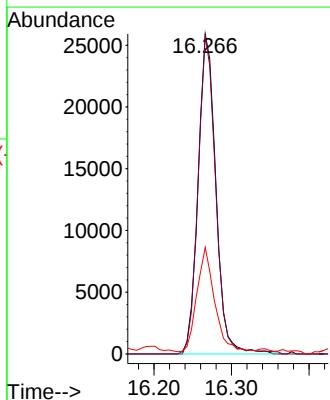
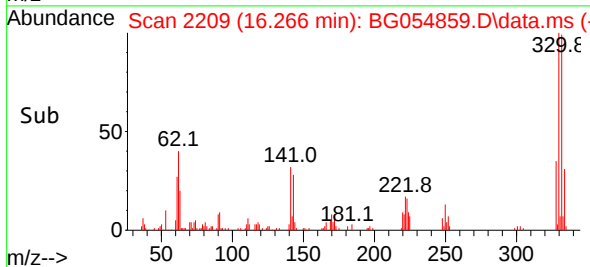
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022

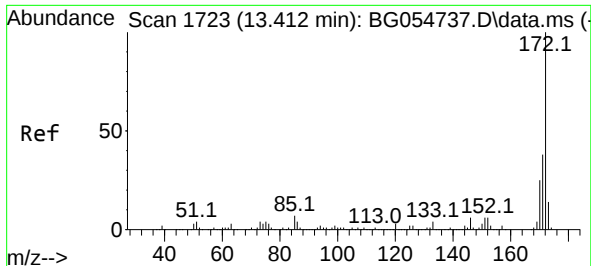


#42
2,4,6-Tribromophenol
Concen: 21.454 ng
RT: 16.266 min Scan# 2209
Delta R.T. -0.007 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59



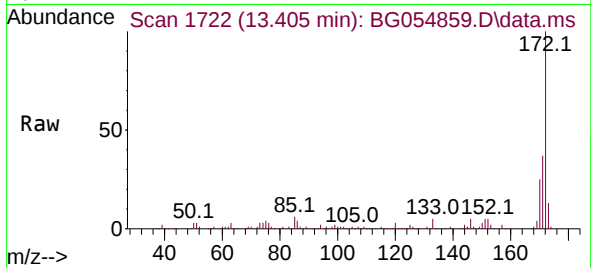
Tgt Ion:330 Resp: 41119
Ion Ratio Lower Upper
330 100
332 98.7 79.8 119.6
141 32.5 26.8 40.2





#45
2-Fluorobiphenyl
Concen: 14.121 ng
RT: 13.405 min Scan# 1722
Delta R.T. -0.007 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

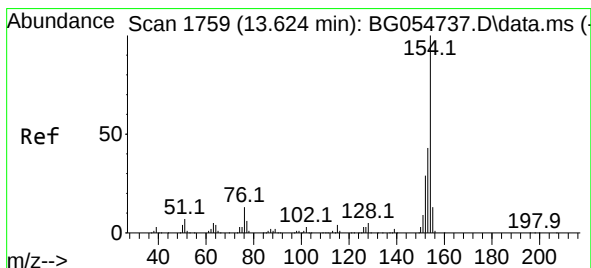
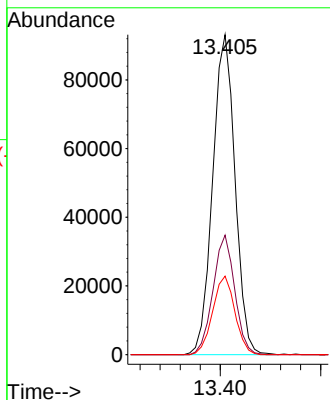
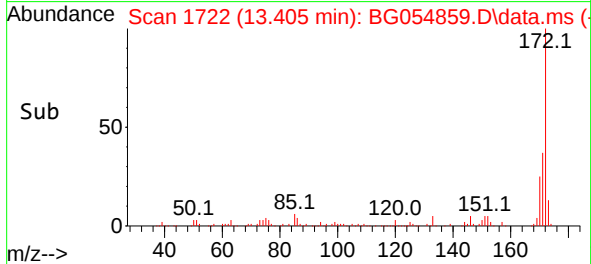
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILD



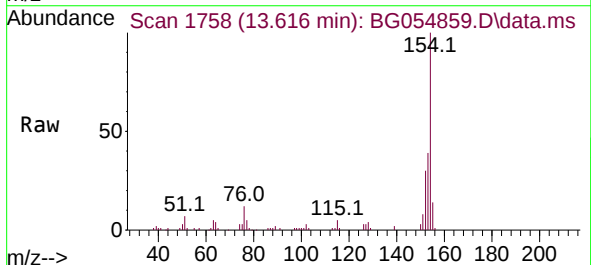
Tgt Ion:172 Resp: 144106
Ion Ratio Lower Upper
172 100
171 37.3 31.2 46.8
170 24.5 20.6 30.8

Manual Integrations
APPROVED

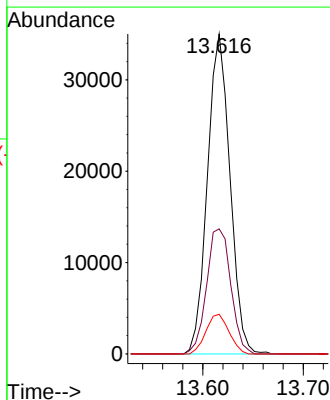
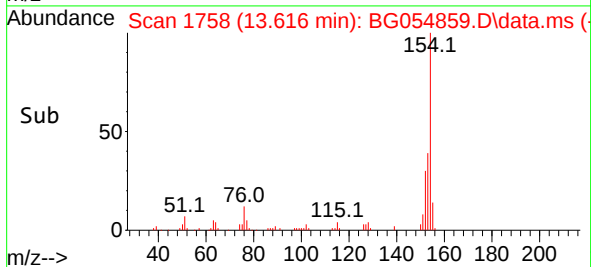
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022

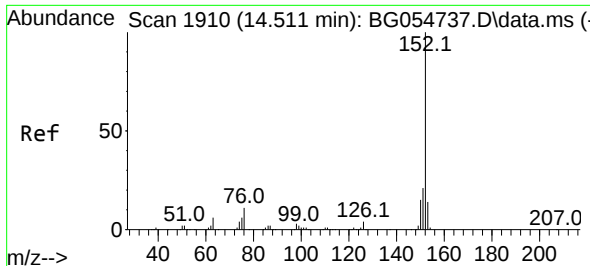


#46
1,1'-Biphenyl
Concen: 4.802 ng
RT: 13.616 min Scan# 1758
Delta R.T. -0.007 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59



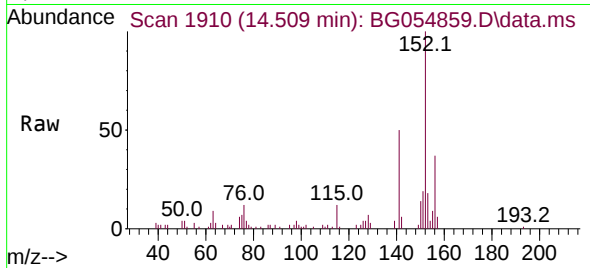
Tgt Ion:154 Resp: 54697
Ion Ratio Lower Upper
154 100
153 39.1 22.2 62.2
76 12.4 0.0 34.0





#49
Acenaphthylene
Concen: 2.537 ng
RT: 14.509 min Scan# 1910
Delta R.T. -0.002 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

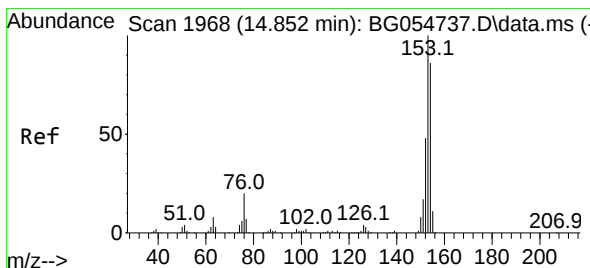
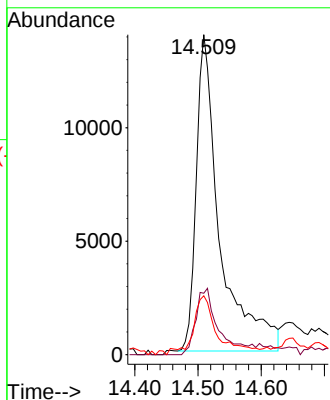
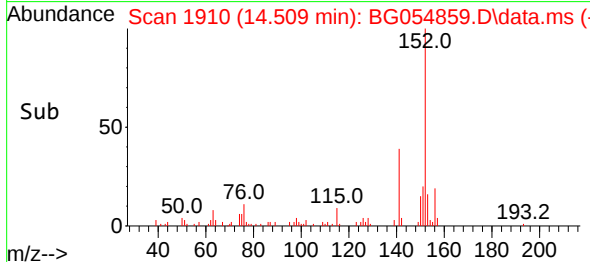
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILD



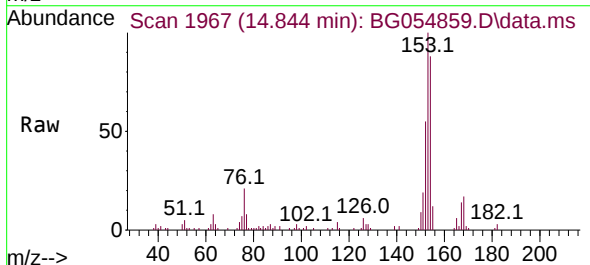
Tgt Ion:152 Resp: 36214
Ion Ratio Lower Upper
152 100
151 19.2 17.3 25.9
153 18.4 10.8 16.2

Manual Integrations
APPROVED

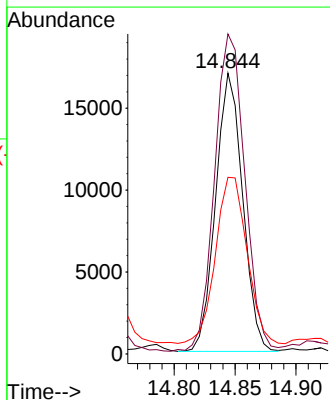
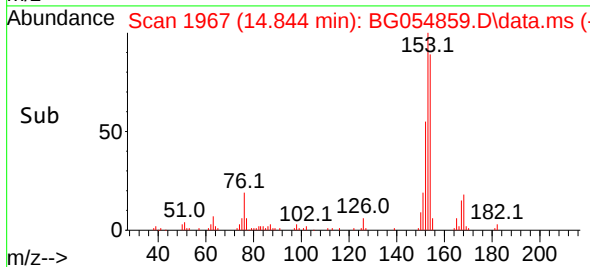
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022

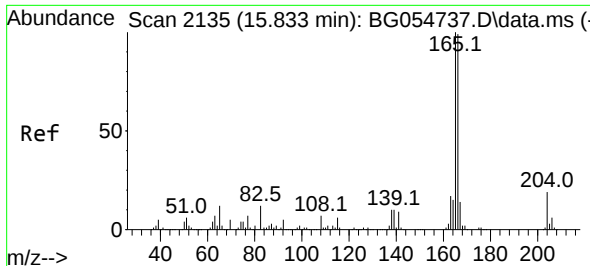


#52
Acenaphthene
Concen: 2.858 ng
RT: 14.844 min Scan# 1967
Delta R.T. -0.007 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59



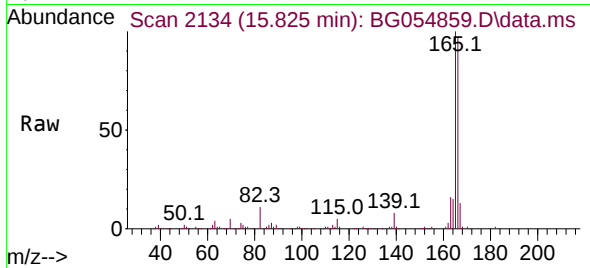
Tgt Ion:154 Resp: 26202
Ion Ratio Lower Upper
154 100
153 114.0 92.8 139.2
152 62.9 45.4 68.2





#58
Fluorene
Concen: 11.002 ng
RT: 15.825 min Scan# 2135
Delta R.T. -0.007 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

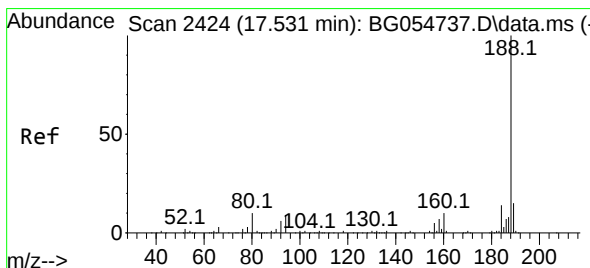
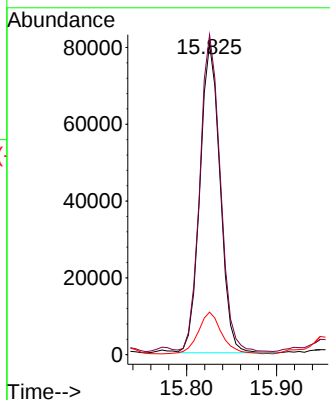
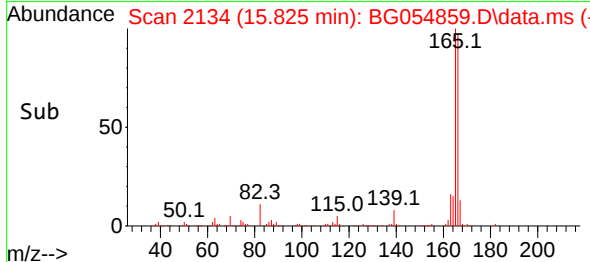
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILD



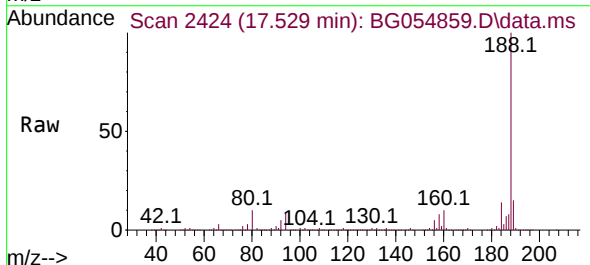
Tgt Ion:166 Resp: 12488
Ion Ratio Lower Upper
166 100
165 102.9 80.8 121.2
167 13.7 11.4 17.0

Manual Integrations
APPROVED

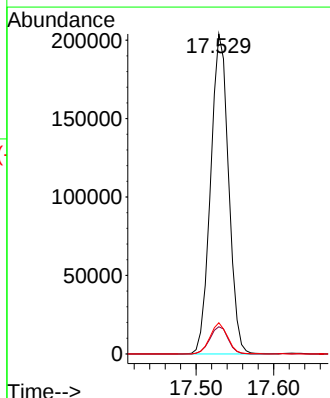
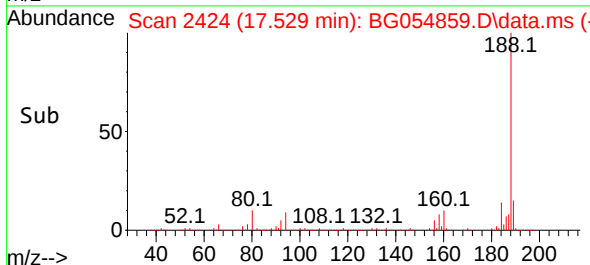
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022

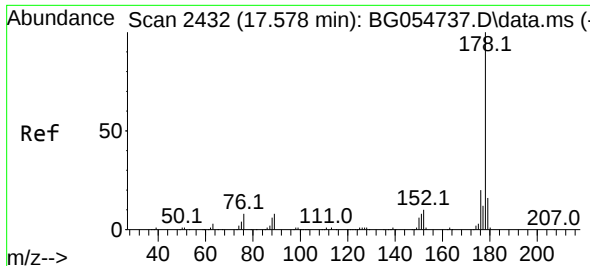


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.529 min Scan# 2424
Delta R.T. -0.002 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59



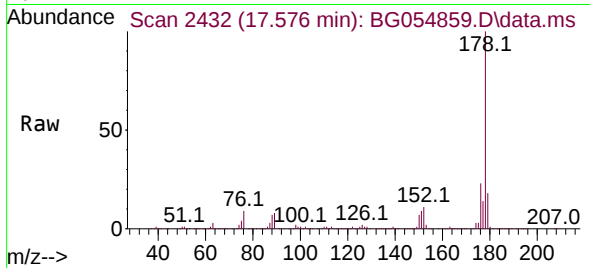
Tgt Ion:188 Resp: 327186
Ion Ratio Lower Upper
188 100
94 8.5 7.0 10.4
80 9.7 7.9 11.9





#71
Phenanthrene
Concen: 92.131 ng
RT: 17.576 min Scan# 2432
Delta R.T. -0.002 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

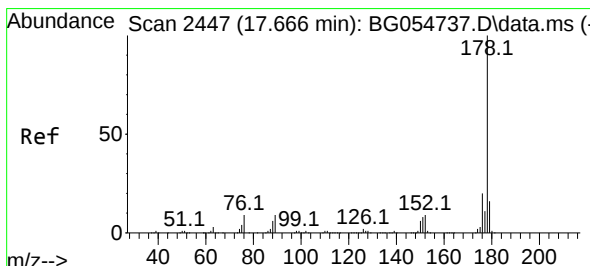
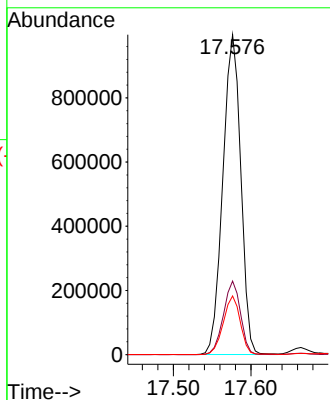
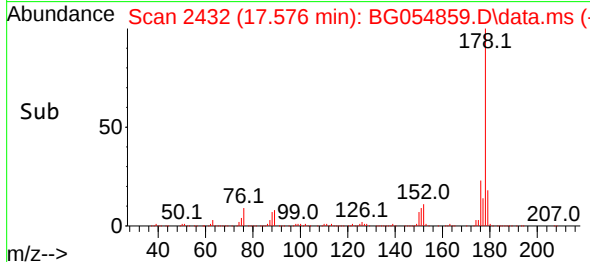
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILD



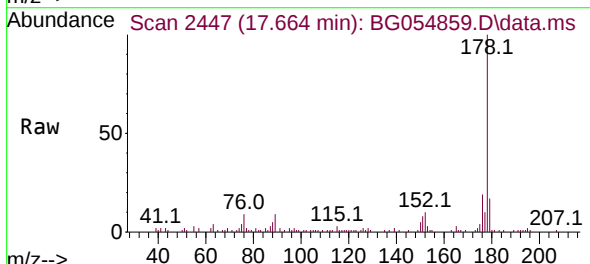
Tgt Ion:178 Resp: 1605794
Ion Ratio Lower Upper
178 100
176 23.0 16.6 25.0
179 18.3 12.8 19.2

Manual Integrations
APPROVED

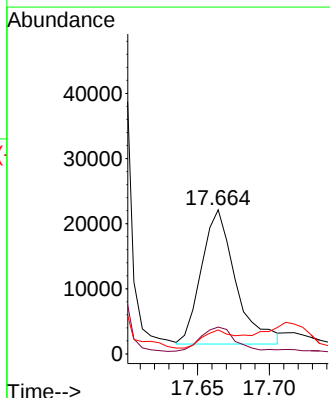
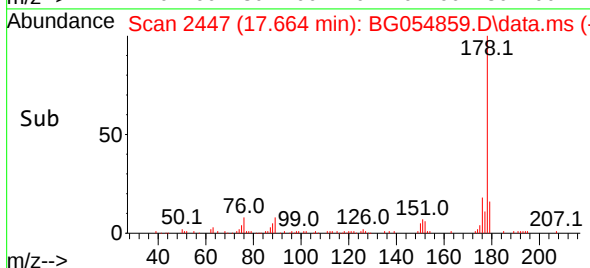
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022

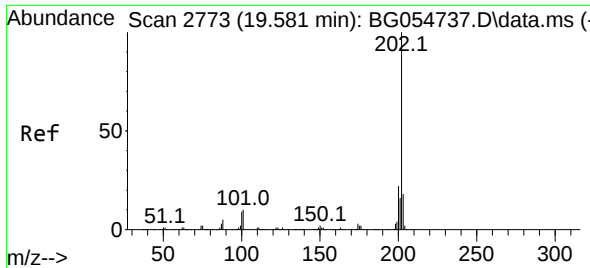


#72
Anthracene
Concen: 2.022 ng m
RT: 17.664 min Scan# 2447
Delta R.T. -0.002 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59



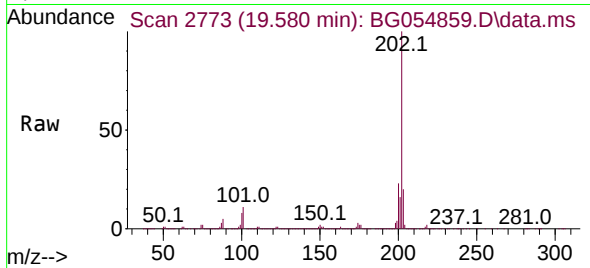
Tgt Ion:178 Resp: 34262
Ion Ratio Lower Upper
178 100
176 18.6 16.2 24.4
179 16.6 12.9 19.3





#75
Fluoranthene
Concen: 47.470 ng
RT: 19.580 min Scan# 21
Delta R.T. -0.002 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

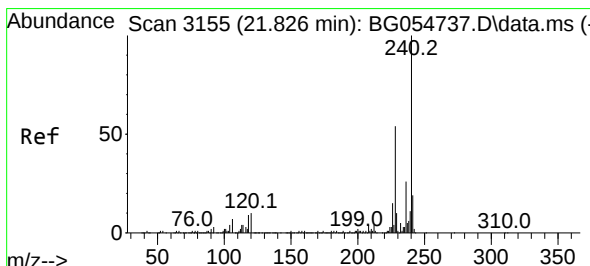
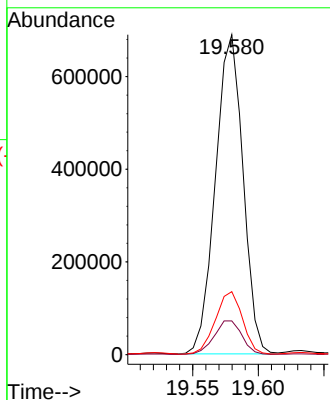
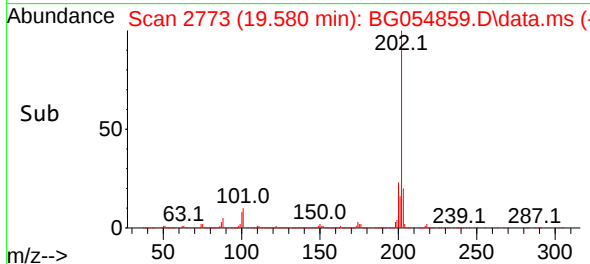
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILD



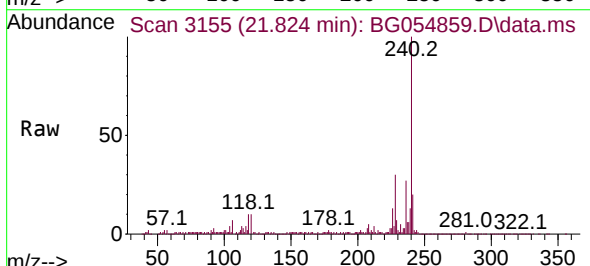
Tgt Ion:202 Resp: 1006493
Ion Ratio Lower Upper
202 100
101 10.5 0.0 31.4
203 19.7 0.0 38.6

Manual Integrations
APPROVED

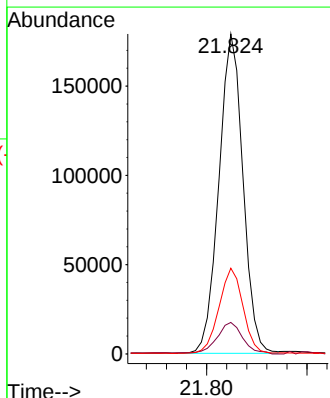
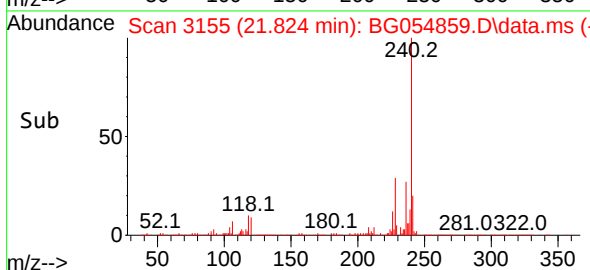
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022

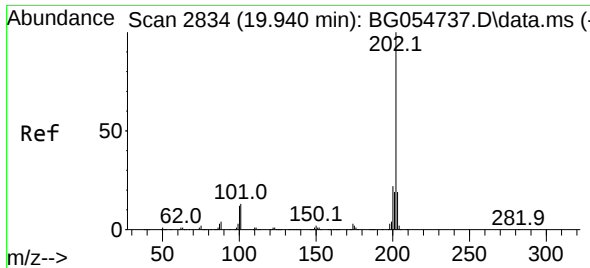


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.824 min Scan# 3155
Delta R.T. -0.002 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59



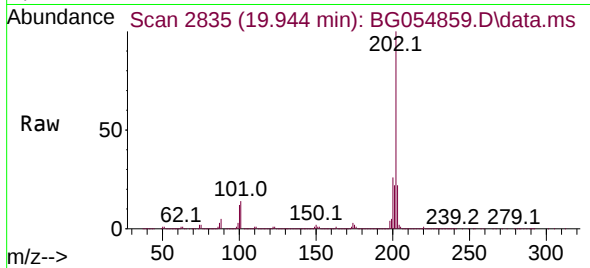
Tgt Ion:240 Resp: 298381
Ion Ratio Lower Upper
240 100
120 9.8 8.2 12.4
236 26.8 21.2 31.8





#78
Pyrene
Concen: 83.445 ng
RT: 19.944 min Scan# 2835
Delta R.T. 0.004 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

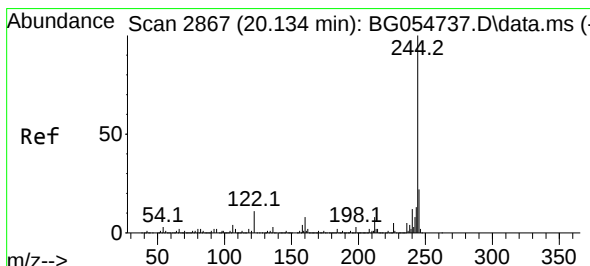
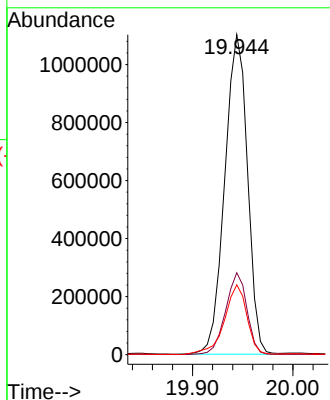
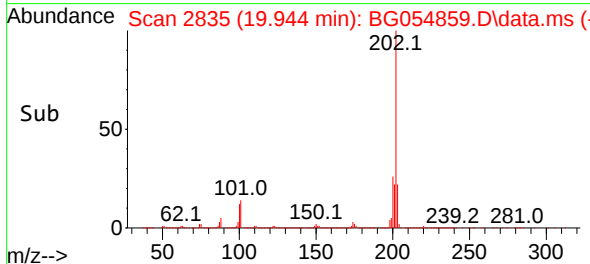
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILDL



Tgt Ion:202 Resp: 1736146
Ion Ratio Lower Upper
202 100
200 25.6 17.8 26.6
203 21.8 14.6 21.8

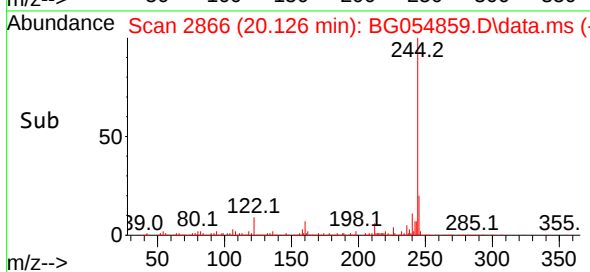
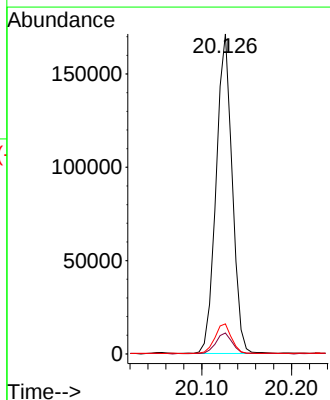
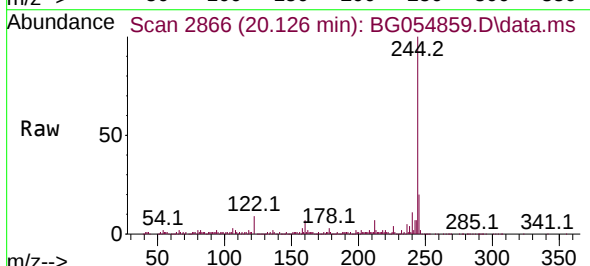
Manual Integrations
APPROVED

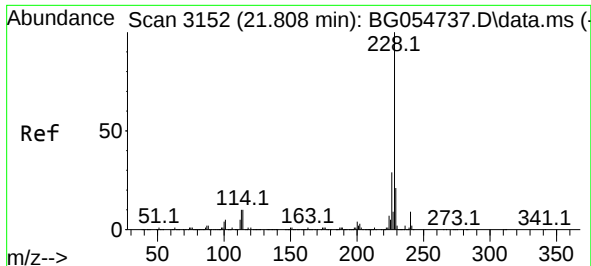
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022



#79
Terphenyl-d14
Concen: 14.204 ng
RT: 20.126 min Scan# 2866
Delta R.T. -0.007 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

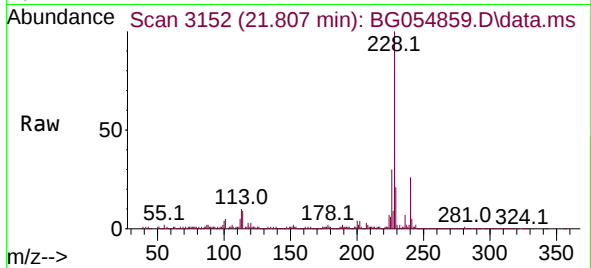
Tgt Ion:244 Resp: 213902
Ion Ratio Lower Upper
244 100
212 6.5 6.2 9.2
122 9.4 9.0 13.6





#81
Benzo(a)anthracene
Concen: 18.005 ng
RT: 21.807 min Scan# 3152
Delta R.T. -0.002 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

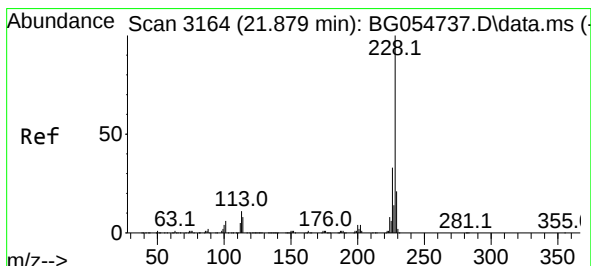
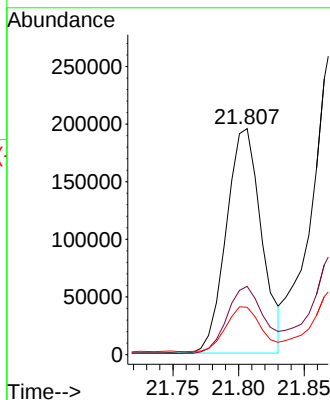
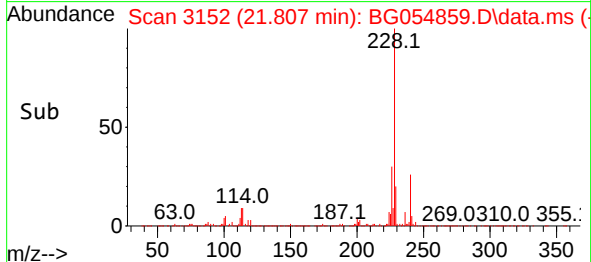
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILDL



Tgt Ion:228 Resp: 364258
Ion Ratio Lower Upper
228 100
226 30.2 23.4 35.2
229 20.9 16.5 24.7

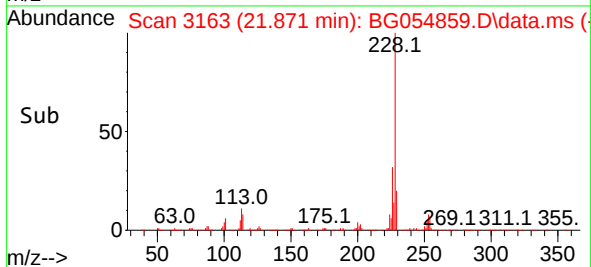
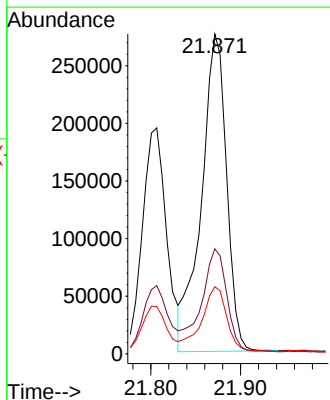
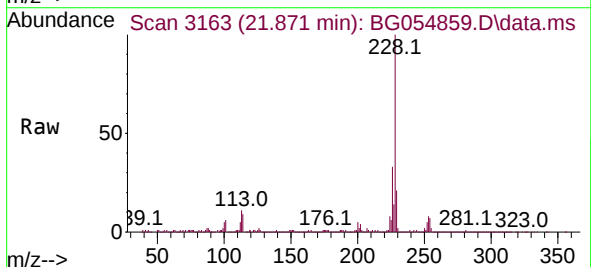
Manual Integrations
APPROVED

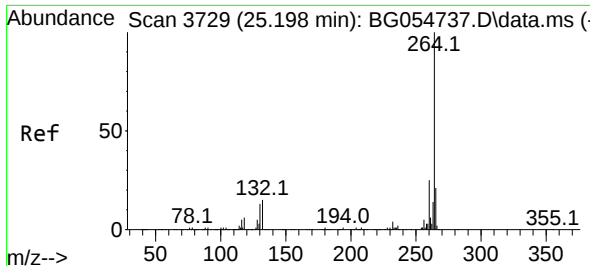
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022



#83
Chrysene
Concen: 27.897 ng
RT: 21.871 min Scan# 3163
Delta R.T. -0.007 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

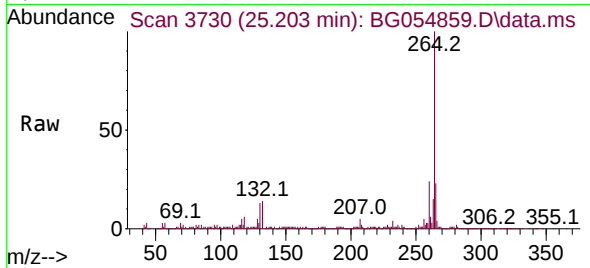
Tgt Ion:228 Resp: 539625
Ion Ratio Lower Upper
228 100
226 32.8 25.5 38.3
229 21.0 16.8 25.2





#86
Perylene-d12
Concen: 20.000 ng
RT: 25.203 min Scan# 31
Delta R.T. 0.004 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

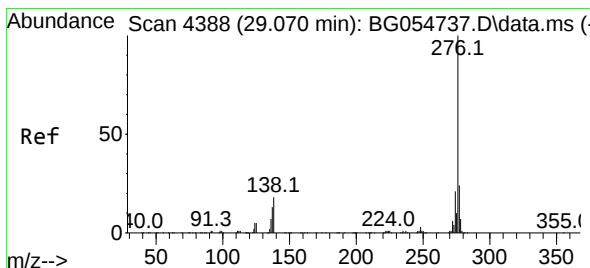
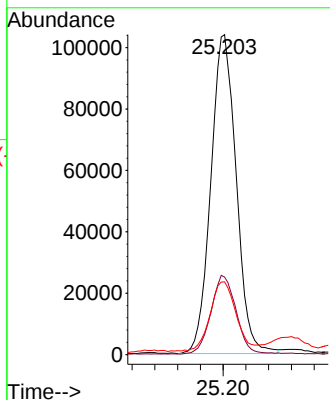
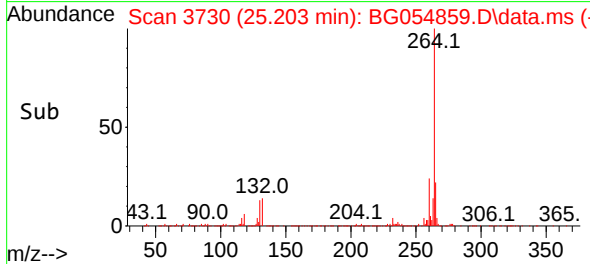
Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILD



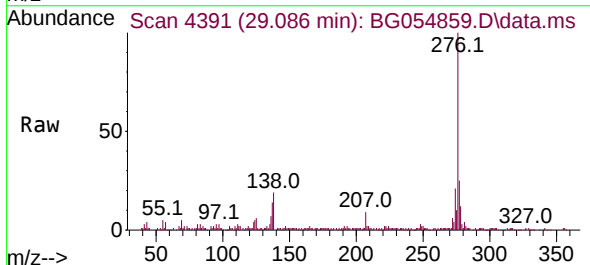
Tgt Ion:264 Resp: 32170
Ion Ratio Lower Upper
264 100
260 24.3 19.9 29.9
265 22.7 16.9 25.3

Manual Integrations
APPROVED

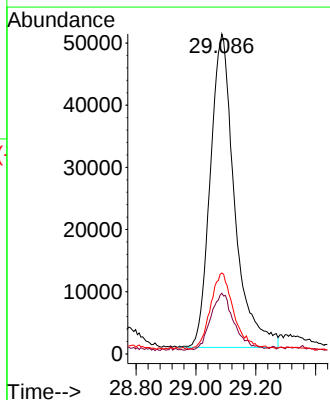
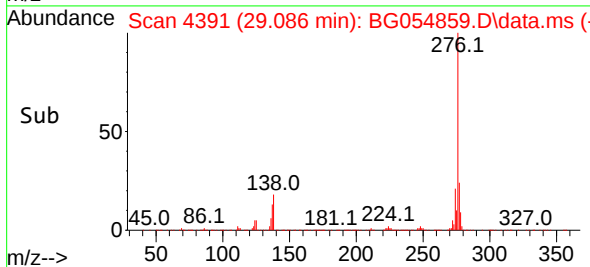
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022

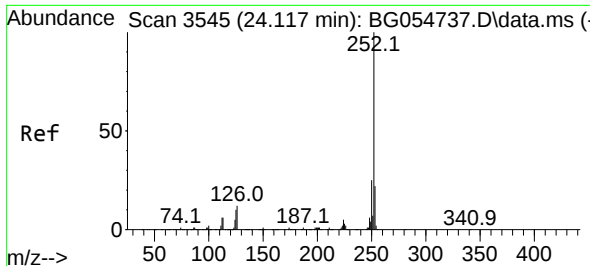


#87
Indeno(1,2,3-cd)pyrene
Concen: 11.654 ng
RT: 29.086 min Scan# 4391
Delta R.T. 0.016 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59



Tgt Ion:276 Resp: 284629
Ion Ratio Lower Upper
276 100
138 17.1 12.0 18.0
277 22.9 20.2 30.4





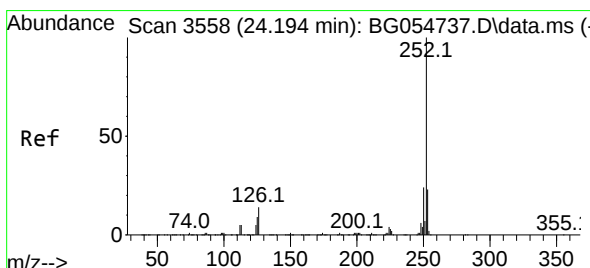
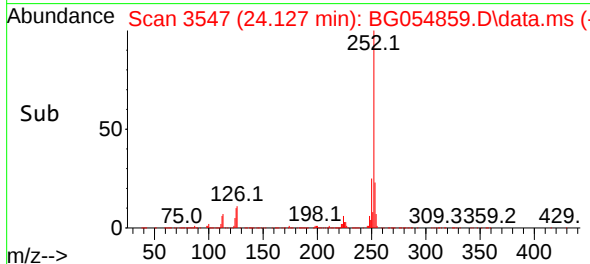
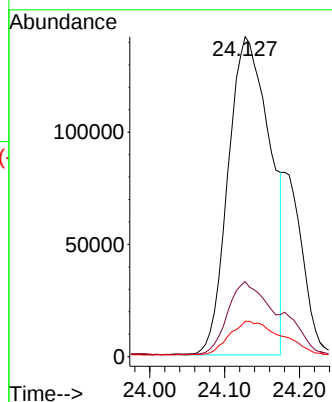
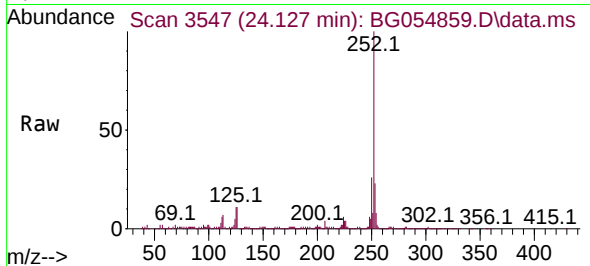
#88
Benzo(b)fluoranthene
Concen: 27.408 ng m
RT: 24.127 min Scan# 3545
Delta R.T. 0.010 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILDL

Tgt Ion:252 Resp: 553124
Ion Ratio Lower Upper
252 100
253 23.4 18.0 27.0
125 11.0 8.1 12.1

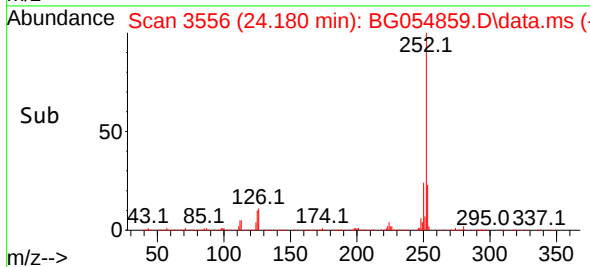
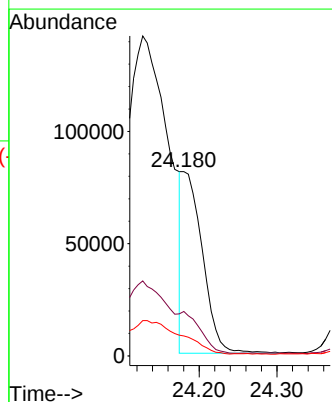
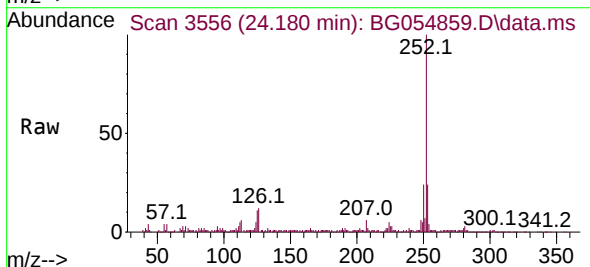
Manual Integrations
APPROVED

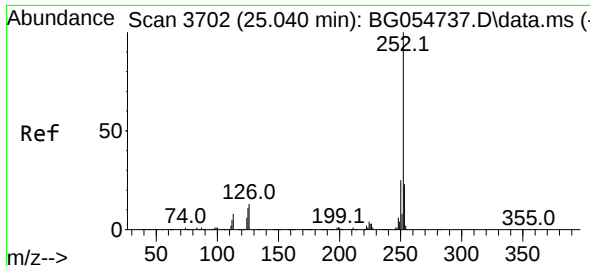
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022



#89
Benzo(k)fluoranthene
Concen: 7.233 ng m
RT: 24.180 min Scan# 3556
Delta R.T. -0.013 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

Tgt Ion:252 Resp: 146898
Ion Ratio Lower Upper
252 100
253 24.1 17.8 26.8
125 10.8 8.2 12.4





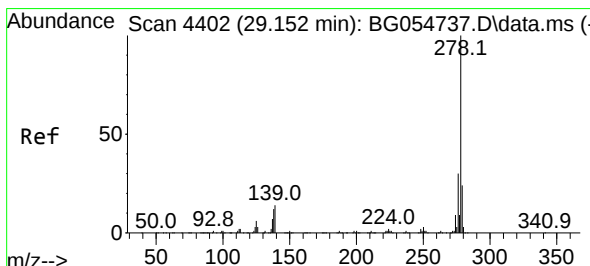
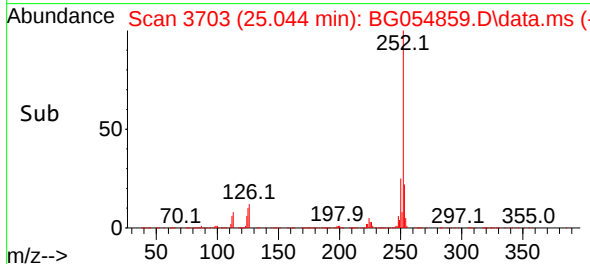
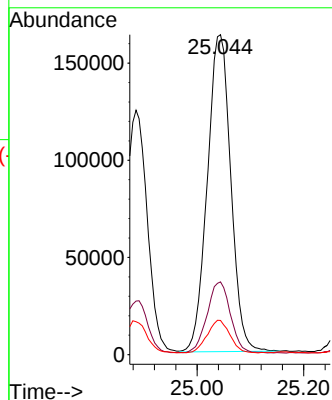
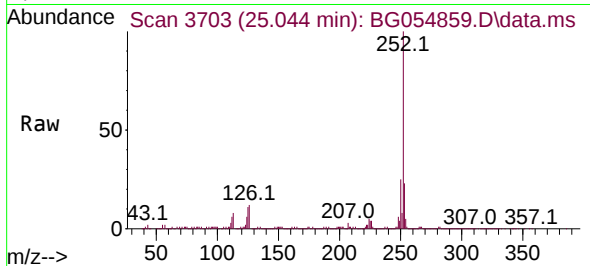
#90
Benzo(a)pyrene
Concen: 28.938 ng
RT: 25.044 min Scan# 3702
Delta R.T. 0.004 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

Instrument :
BNA_G
ClientSampleId :
AP-PIPE-2-SOILD

Tgt Ion:252 Resp: 498946
Ion Ratio Lower Upper
252 100
253 22.8 18.3 27.5
125 10.7 8.8 13.2

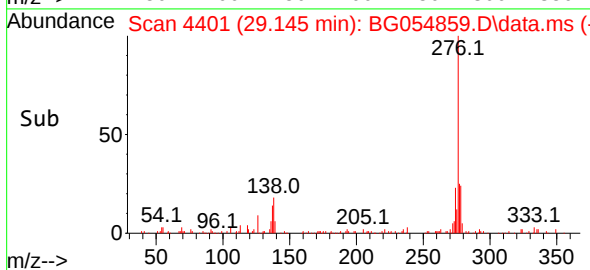
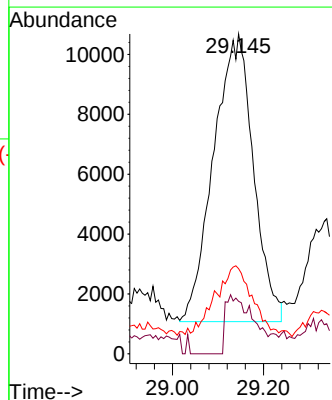
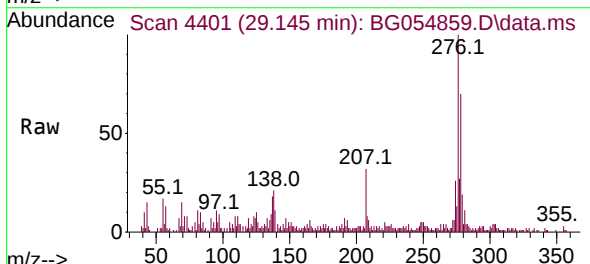
Manual Integrations
APPROVED

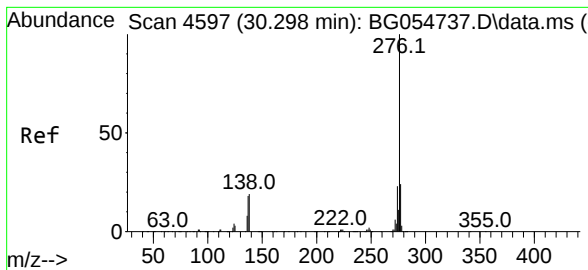
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022



#91
Dibenzo(a,h)anthracene
Concen: 2.927 ng m
RT: 29.145 min Scan# 4401
Delta R.T. -0.007 min
Lab File: BG054859.D
Acq: 6 Sep 2022 19:59

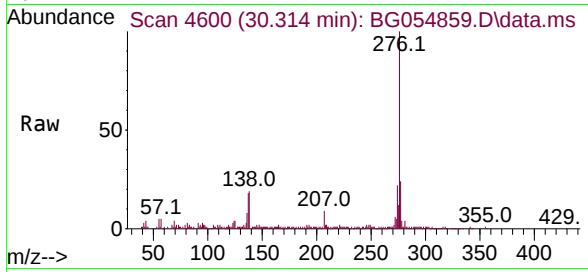
Tgt Ion:278 Resp: 58231
Ion Ratio Lower Upper
278 100
139 16.4 11.4 17.2
279 26.6 19.3 28.9





#92
 Benzo(g,h,i)perylene
 Concen: 16.326 ng
 RT: 30.314 min Scan# 4600
 Delta R.T. 0.016 min
 Lab File: BG054859.D
 Acq: 6 Sep 2022 19:59

Instrument :
 BNA_G
 ClientSampleId :
 AP-PIPE-2-SOILDL



Tgt Ion: 276 Resp: 328166

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.4	29.0
138	19.3	16.6	25.0

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 09/07/2022
 Supervised By : Jagrut Upadhyay 09/07/2022

