

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG120122\
 Data File : BG055858.D
 Acq On : 1 Dec 2022 16:37
 Operator : CG/JU
 Sample : N5823-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OE-2-113022

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 12/02/2022
 Supervised By : Jagrut Upadhyay 12/02/2022

Quant Time: Dec 02 04:09:58 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111622.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 02 04:07:17 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.207	152	40875	20.000	ng	0.00
21) Naphthalene-d8	11.033	136	162280	20.000	ng	0.00
39) Acenaphthene-d10	14.834	164	108775	20.000	ng	0.00
64) Phenanthrene-d10	17.572	188	241040	20.000	ng	0.00
76) Chrysene-d12	21.867	240	232314	20.000	ng	0.00
86) Perylene-d12	25.245	264	251653	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.745	112	323069	142.863	ng	0.00
7) Phenol-d6	7.360	99	413055	137.215	ng	0.00
23) Nitrobenzene-d5	9.382	82	262346	85.446	ng	0.00
42) 2,4,6-Tribromophenol	16.321	330	201884	131.804	ng	0.00
45) 2-Fluorobiphenyl	13.459	172	613930	84.555	ng	0.00
79) Terphenyl-d14	20.163	244	997573	85.887	ng	0.00
Target Compounds						Qvalue
37) 2-Methylnaphthalene	12.678	142	19844	3.021	ng	97
38) 1-Methylnaphthalene	12.889	142	25225	3.956	ng	93
49) Acenaphthylene	14.558	152	20928	2.063	ng	# 94
52) Acenaphthene	14.893	154	54296	8.188	ng	93
55) Dibenzofuran	15.228	168	58695	5.738	ng	98
58) Fluorene	15.874	166	122082	14.943	ng	98
71) Phenanthrene	17.619	178	991712	76.241	ng	99
72) Anthracene	17.707	178	220614	17.456	ng	99
73) Carbazole	17.972	167	131803	11.601	ng	99
75) Fluoranthene	19.617	202	1168043	73.812	ng	98
78) Pyrene	19.981	202	1061583	67.510	ng	97
81) Benzo(a)anthracene	21.843	228	505096	31.567	ng	98
83) Chrysene	21.908	228	446486	29.311	ng	99
87) Indeno(1,2,3-cd)pyrene	29.129	276	224905	10.909	ng	# 98
88) Benzo(b)fluoranthene	24.164	252	492991	30.081	ng	97
89) Benzo(k)fluoranthene	24.229	252	174435m	10.678	ng	
90) Benzo(a)pyrene	25.081	252	388262	27.607	ng	98
91) Dibenzo(a,h)anthracene	29.176	278	62060	3.684	ng	# 88
92) Benzo(g,h,i)perylene	30.357	276	215542	12.694	ng	98

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

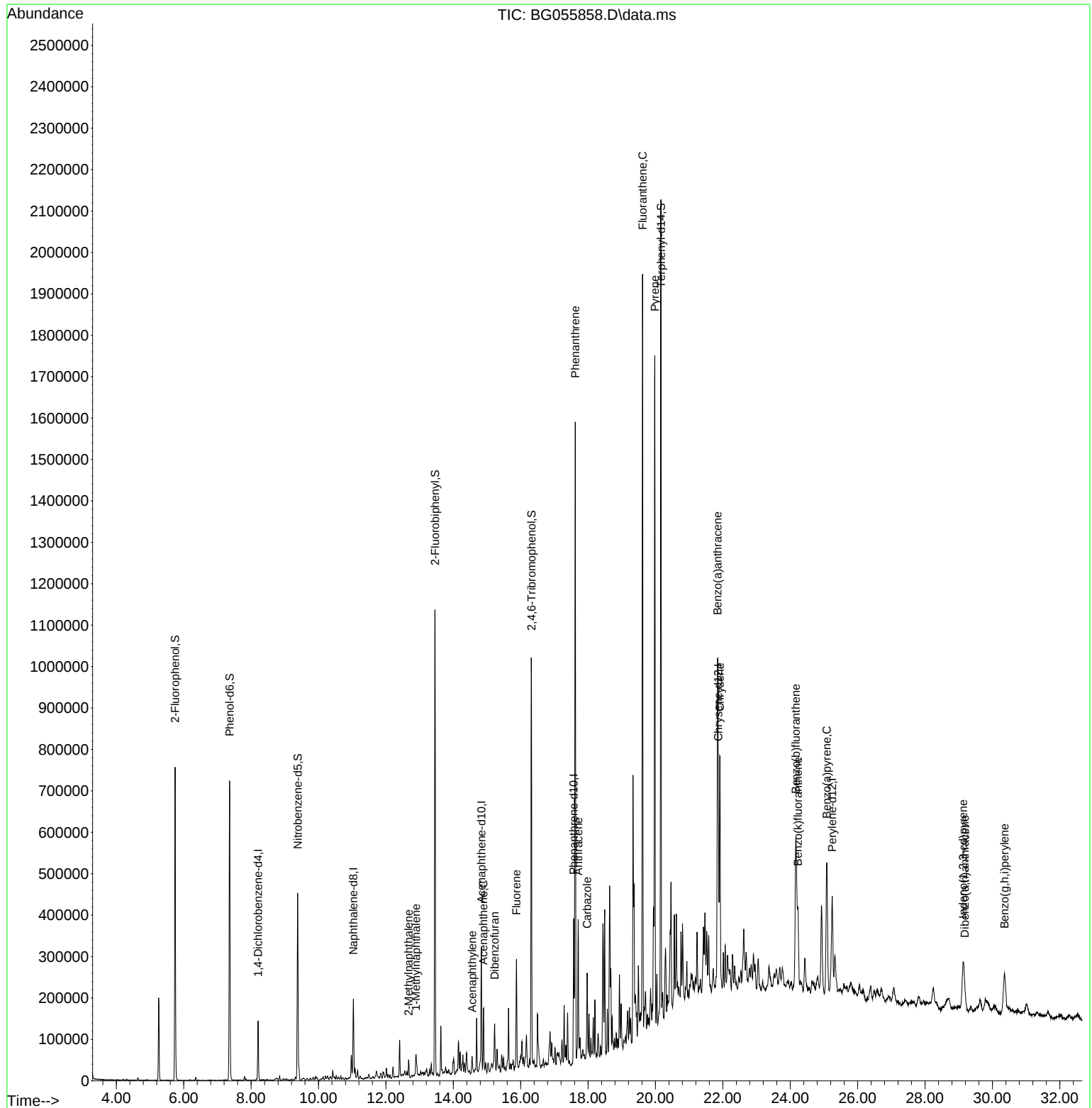
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG120122\
Data File : BG055858.D
Acq On : 1 Dec 2022 16:37
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OE-2-113022

Quant Time: Dec 02 04:09:58 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG11622.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 02 04:07:17 2022
Response via : Initial Calibration

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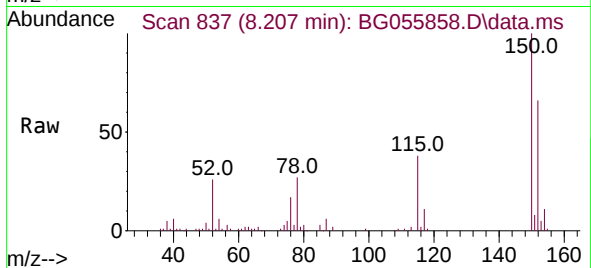
Reviewed By : Christian Giraldo 12/02/2022
Supervised By : Jagrut Upadhyay 12/02/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.207 min Scan# 845
Delta R.T. 0.002 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

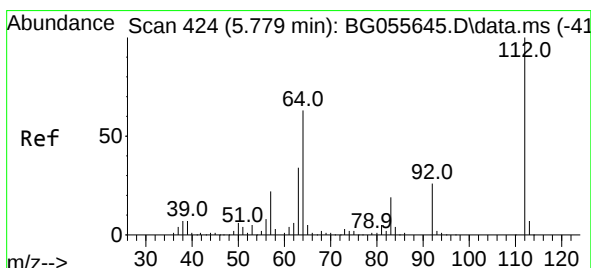
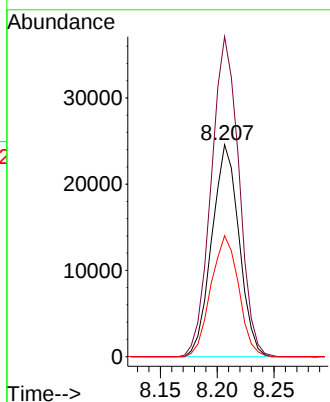
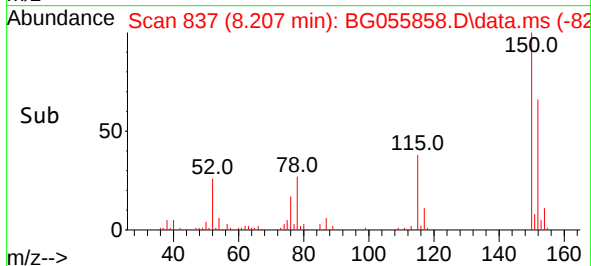
Instrument :
BNA_G
ClientSampleId :
OE-2-113022



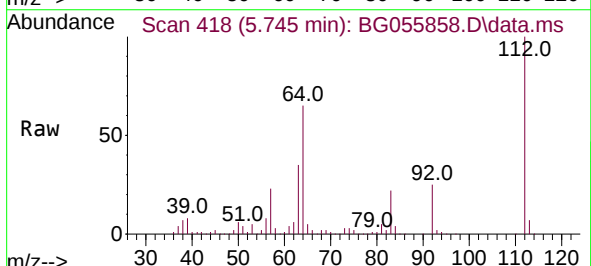
Tgt Ion:152 Resp: 40875
Ion Ratio Lower Upper
152 100
150 151.0 123.0 184.6
115 57.1 47.0 70.4

Manual Integrations
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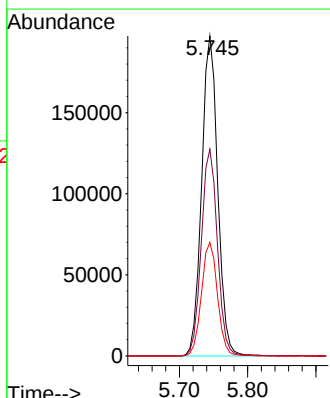
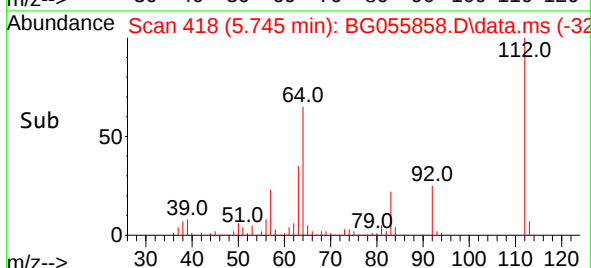
Reviewed By :Christian Giraldo 12/02/2022
Supervised By :Jagrut Upadhyay 12/02/2022

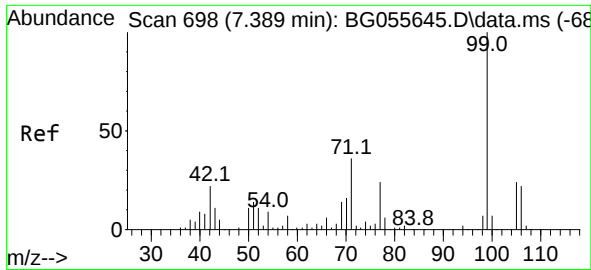


#5
2-Fluorophenol
Concen: 142.863 ng
RT: 5.745 min Scan# 418
Delta R.T. 0.007 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37



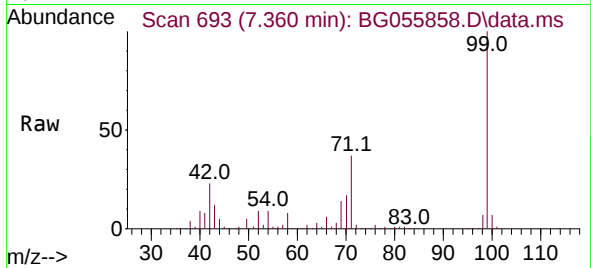
Tgt Ion:112 Resp: 323069
Ion Ratio Lower Upper
112 100
64 64.6 50.6 76.0
63 35.4 27.5 41.3





#7
Phenol-d6
Concen: 137.215 ng
RT: 7.360 min Scan# 698
Delta R.T. 0.001 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

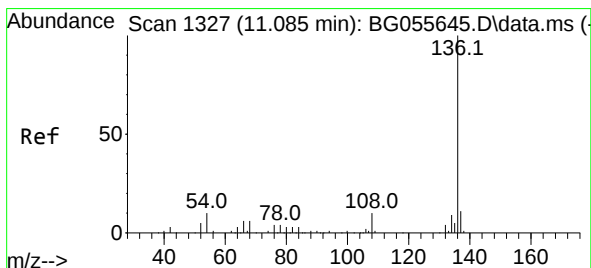
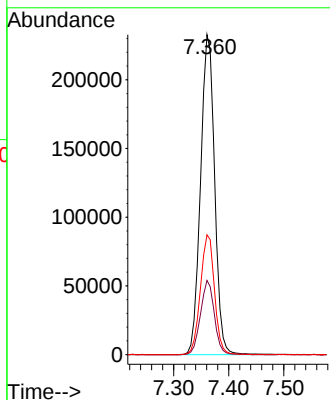
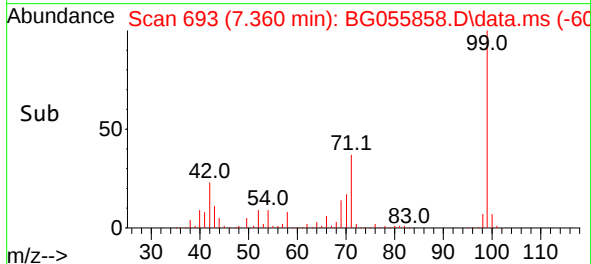
Instrument :
BNA_G
ClientSampleId :
OE-2-113022



Tgt Ion: 99 Resp: 413055
Ion Ratio Lower Upper
99 100
42 23.2 18.0 27.0
71 37.4 29.0 43.6

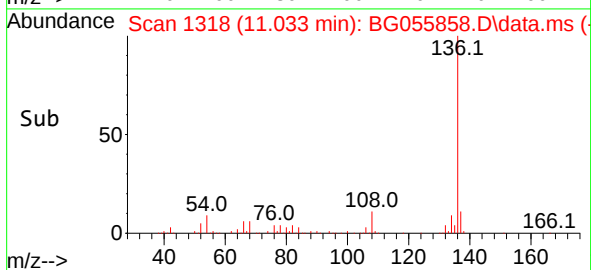
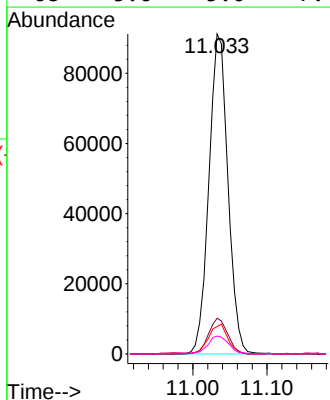
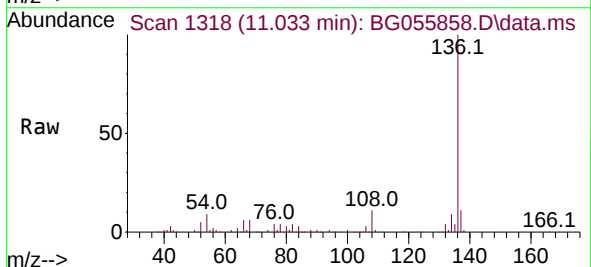
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Supervised By :Jagrut Upadhyay 12/02/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.033 min Scan# 1318
Delta R.T. -0.005 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

Tgt Ion:136 Resp: 162280
Ion Ratio Lower Upper
136 100
137 11.1 9.0 13.6
54 8.5 7.8 11.6
68 5.6 5.0 7.4





#23

Nitrobenzene-d5

Concen: 85.446 ng

RT: 9.382 min Scan# 1045

Delta R.T. -0.005 min

Lab File: BG055858.D

Acq: 1 Dec 2022 16:37

Instrument :

BNA_G

ClientSampleId :

OE-2-113022

Tgt Ion: 82 Resp: 262346

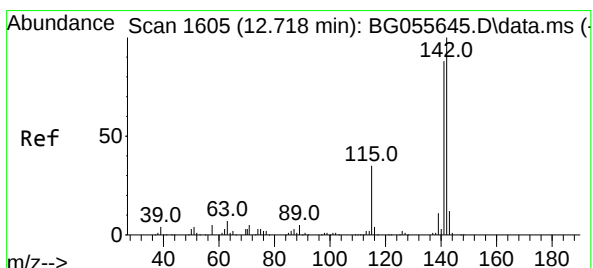
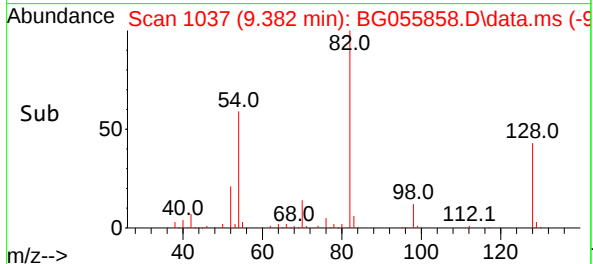
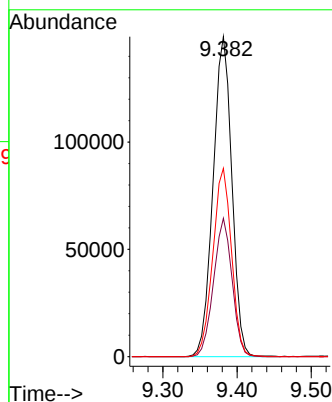
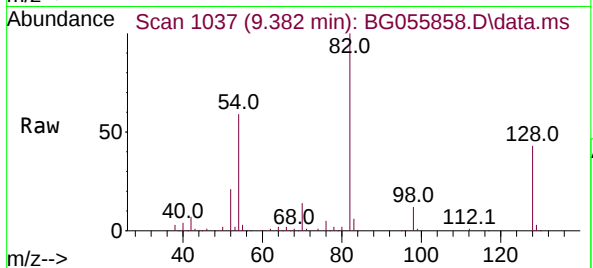
Ion	Ratio	Lower	Upper
82	100		
128	43.2	34.1	51.1
54	58.8	47.3	70.9

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Supervised By :Jagrut Upadhyay 12/02/2022



#37

2-Methylnaphthalene

Concen: 3.021 ng

RT: 12.678 min Scan# 1598

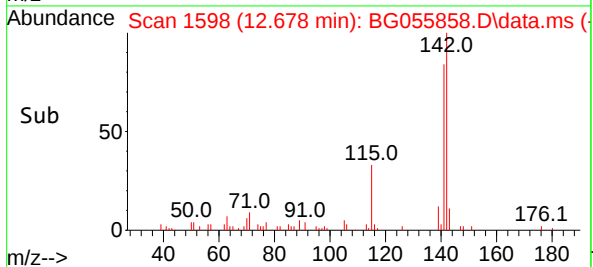
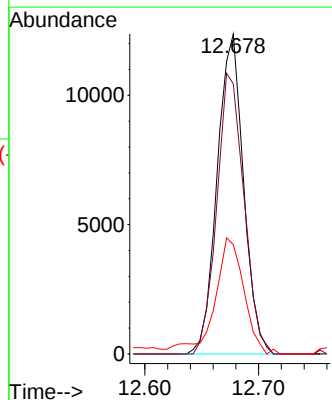
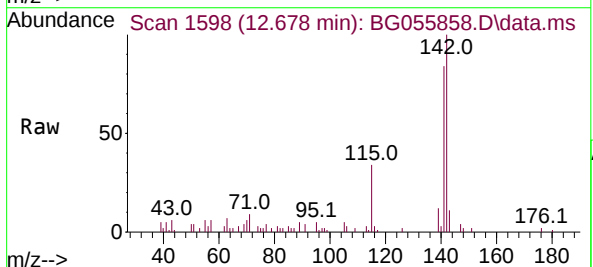
Delta R.T. -0.005 min

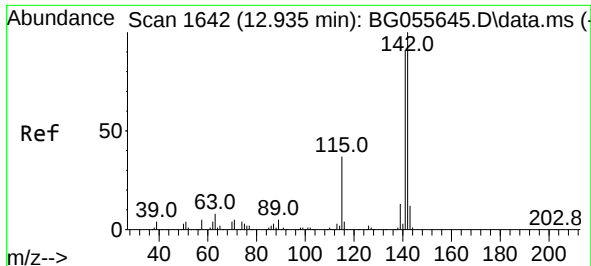
Lab File: BG055858.D

Acq: 1 Dec 2022 16:37

Tgt Ion:142 Resp: 19844

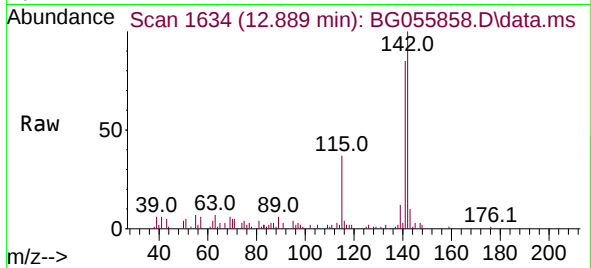
Ion	Ratio	Lower	Upper
142	100		
141	84.4	70.3	105.5
115	34.1	27.9	41.9





#38
1-Methylnaphthalene
Concen: 3.956 ng
RT: 12.889 min Scan# 1634
Delta R.T. -0.005 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

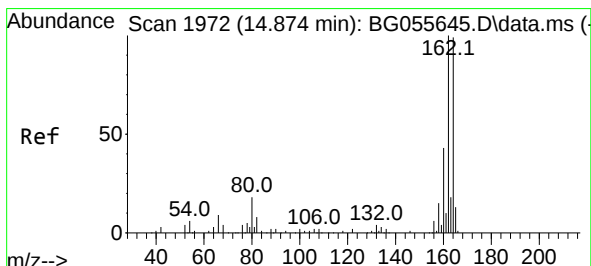
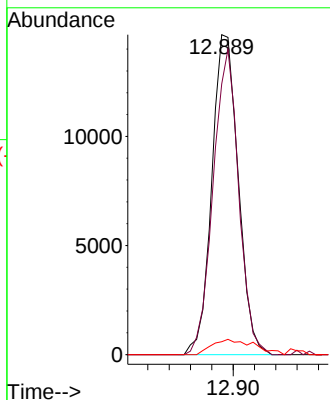
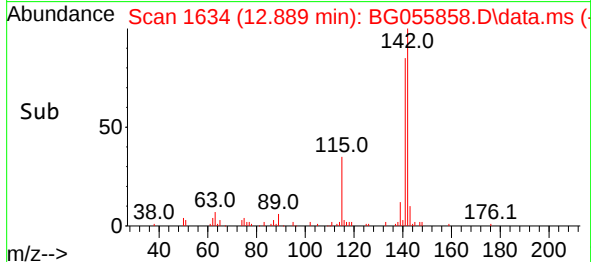
Instrument :
BNA_G
ClientSampleId :
OE-2-113022



Tgt Ion:142 Resp: 25225
Ion Ratio Lower Upper
142 100
141 84.6 73.0 109.4
116 4.0 3.1 4.7

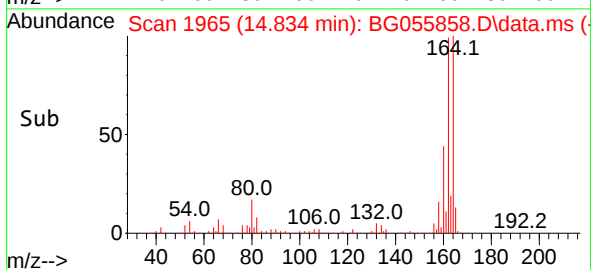
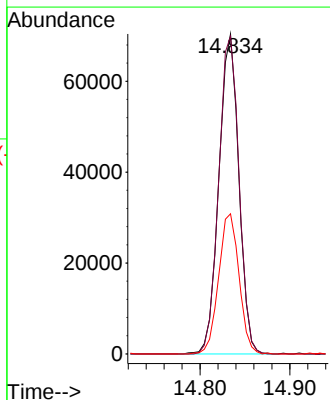
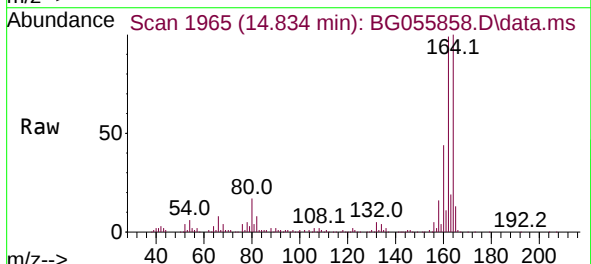
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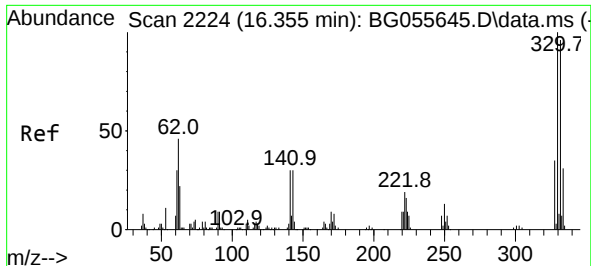
Reviewed By :Christian Giraldo 12/02/2022
Supervised By :Jagrut Upadhyay 12/02/2022



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.834 min Scan# 1965
Delta R.T. -0.005 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

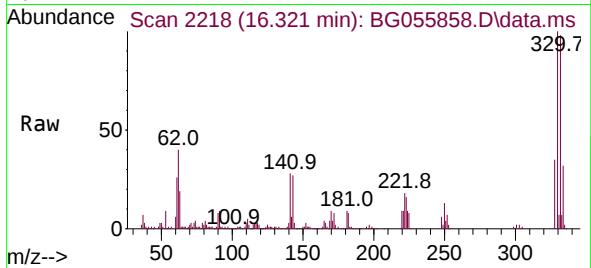
Tgt Ion:164 Resp: 108775
Ion Ratio Lower Upper
164 100
162 99.3 81.1 121.7
160 43.8 34.8 52.2





#42
2,4,6-Tribromophenol
Concen: 131.804 ng
RT: 16.321 min Scan# 21
Delta R.T. -0.005 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

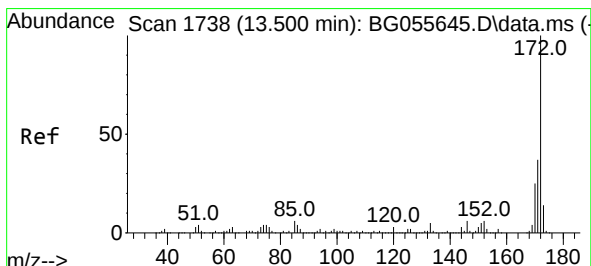
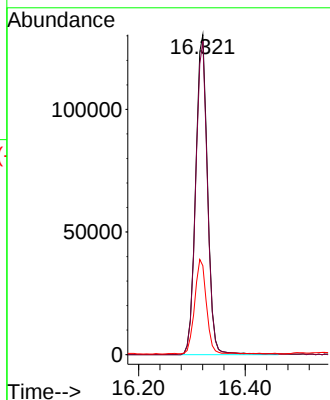
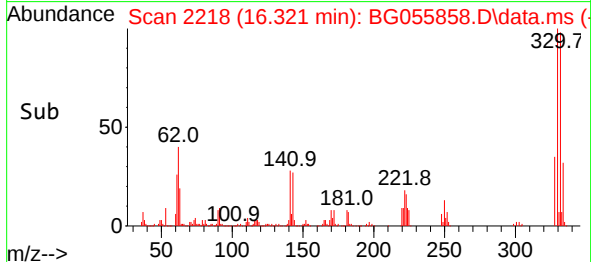
Instrument :
BNA_G
ClientSampleId :
OE-2-113022



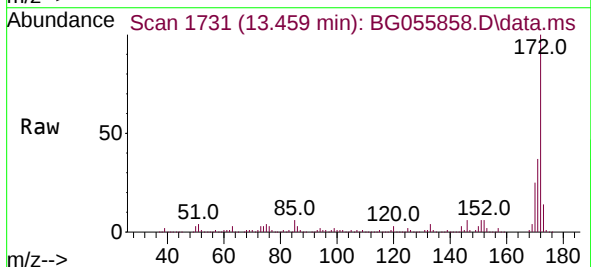
Tgt Ion:330 Resp: 201884
Ion Ratio Lower Upper
330 100
332 96.5 77.8 116.8
141 28.8 23.9 35.9

Manual Integrations
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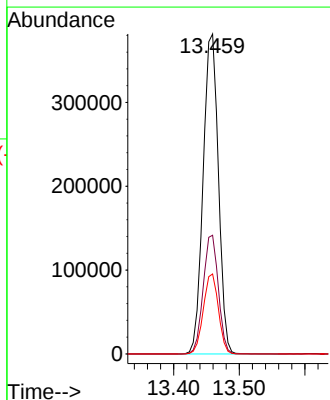
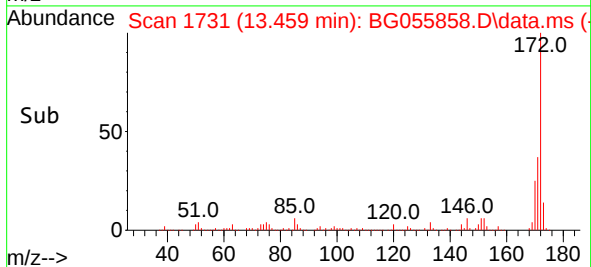
Reviewed By :Christian Giraldo 12/02/2022
Supervised By :Jagrut Upadhyay 12/02/2022

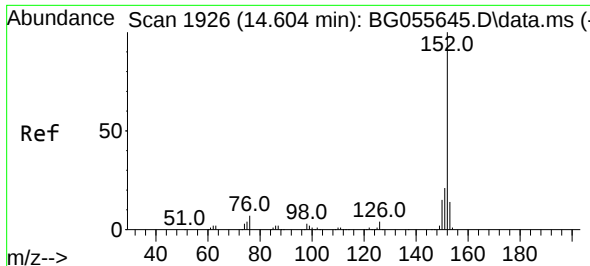


#45
2-Fluorobiphenyl
Concen: 84.555 ng
RT: 13.459 min Scan# 1731
Delta R.T. 0.001 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37



Tgt Ion:172 Resp: 613930
Ion Ratio Lower Upper
172 100
171 37.1 29.8 44.6
170 25.0 20.2 30.4





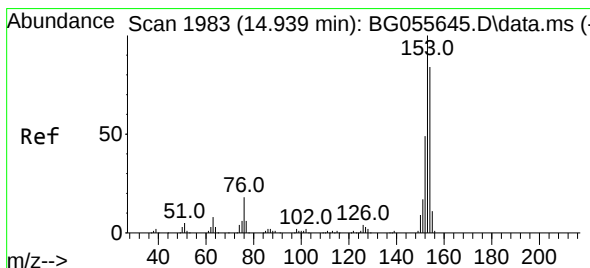
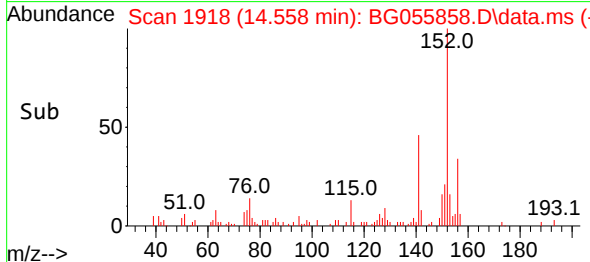
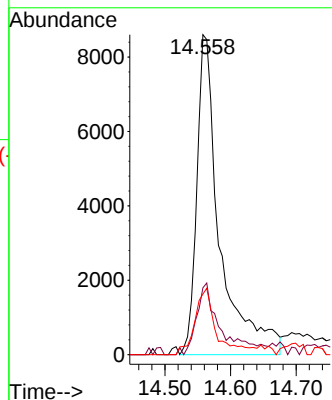
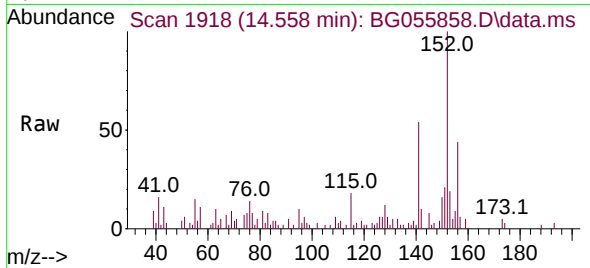
#49
Acenaphthylene
Concen: 2.063 ng
RT: 14.558 min Scan# 1926
Delta R.T. -0.005 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

Instrument :
BNA_G
ClientSampleId :
OE-2-113022

Tgt Ion:152 Resp: 20928
Ion Ratio Lower Upper
152 100
151 20.9 16.4 24.6
153 18.9 11.0 16.4

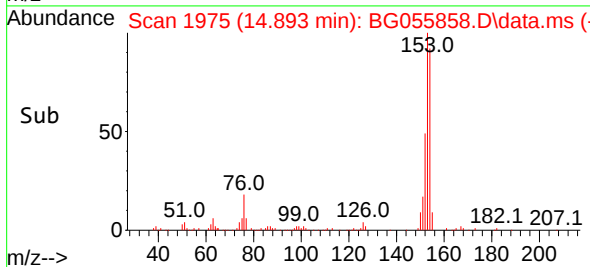
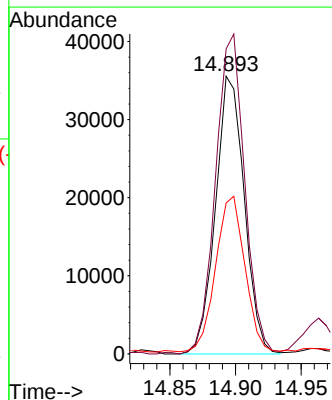
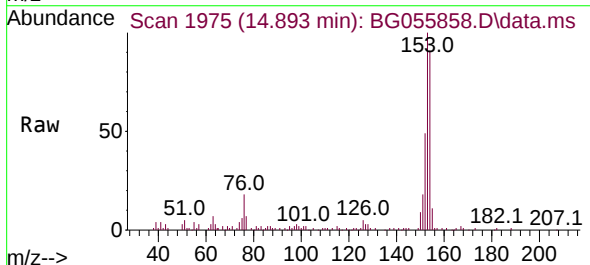
Manual Integrations
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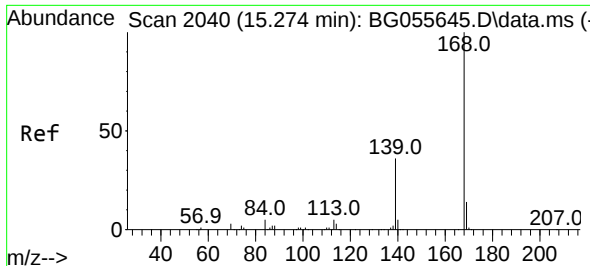
Reviewed By :Christian Giraldo 12/02/2022
Supervised By :Jagrut Upadhyay 12/02/2022



#52
Acenaphthene
Concen: 8.188 ng
RT: 14.893 min Scan# 1975
Delta R.T. -0.011 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

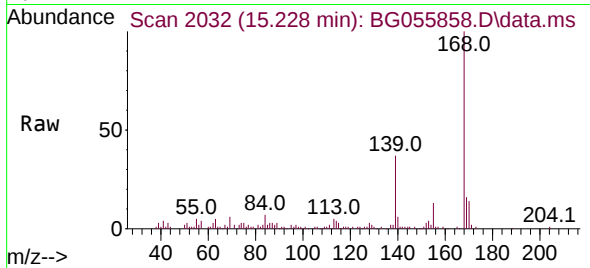
Tgt Ion:154 Resp: 54296
Ion Ratio Lower Upper
154 100
153 109.8 95.0 142.4
152 54.3 46.1 69.1





#55
Dibenzofuran
Concen: 5.738 ng
RT: 15.228 min Scan# 2040
Delta R.T. -0.005 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

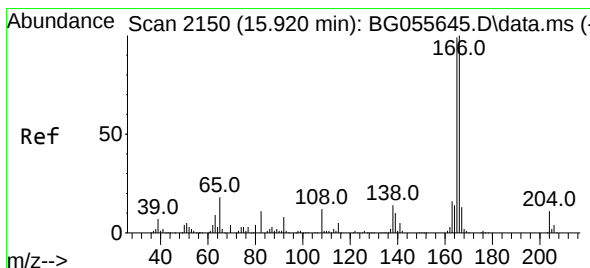
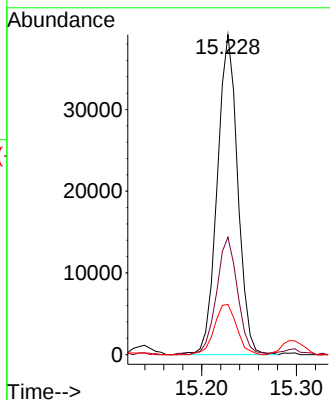
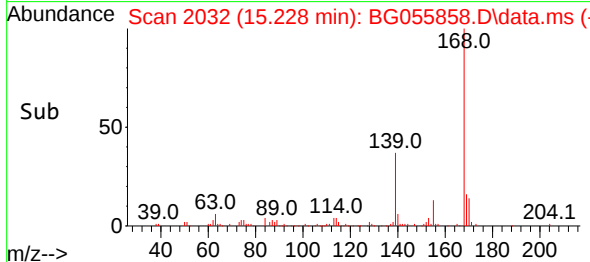
Instrument :
BNA_G
ClientSampleId :
OE-2-113022



Tgt Ion:168 Resp: 58695
Ion Ratio Lower Upper
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139 36.7 28.8 43.2
169 15.7 11.0 16.4

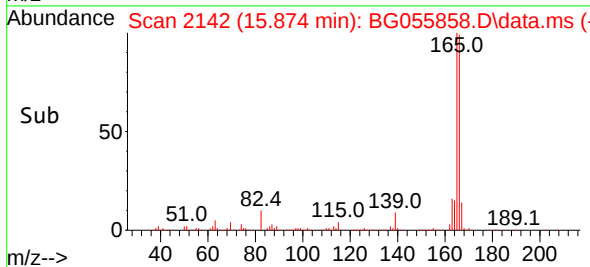
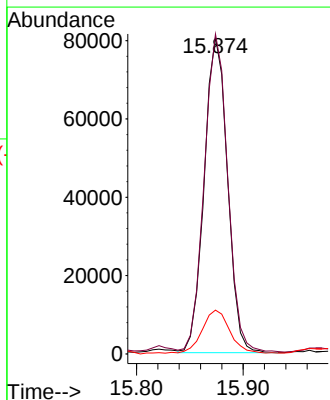
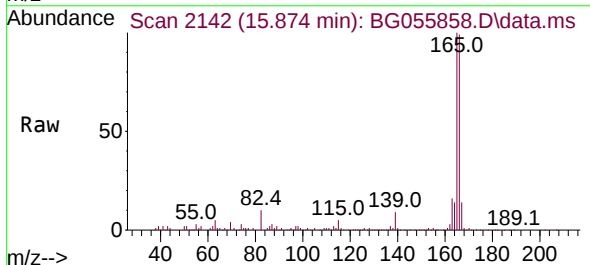
Manual Integrations
APPROVED

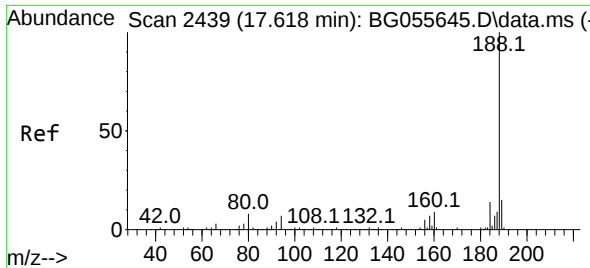
Reviewed By :Christian Giraldo 12/02/2022
Supervised By :Jagrut Upadhyay 12/02/2022



#58
Fluorene
Concen: 14.943 ng
RT: 15.874 min Scan# 2142
Delta R.T. -0.005 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

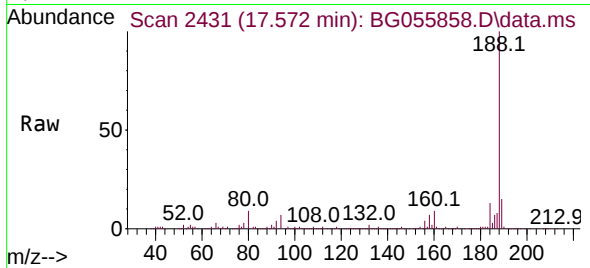
Tgt Ion:166 Resp: 122082
Ion Ratio Lower Upper
166 100
165 101.0 79.3 118.9
167 13.8 10.6 15.8





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.572 min Scan# 2439
Delta R.T. -0.005 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

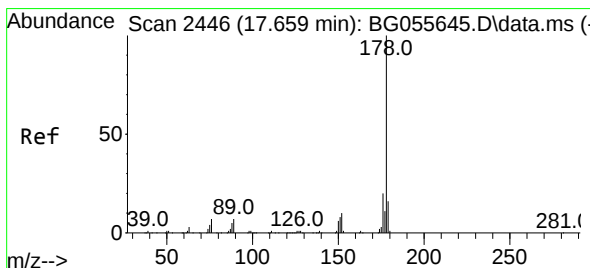
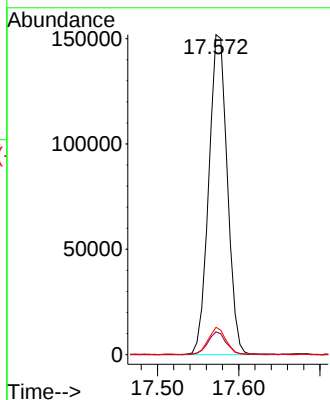
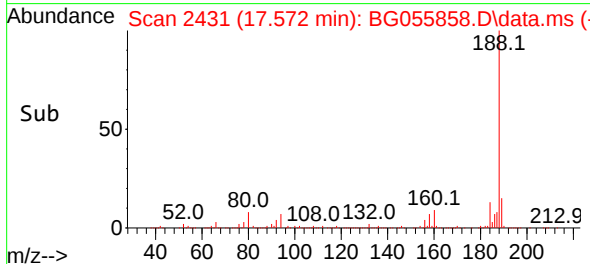
Instrument :
BNA_G
ClientSampleId :
OE-2-113022



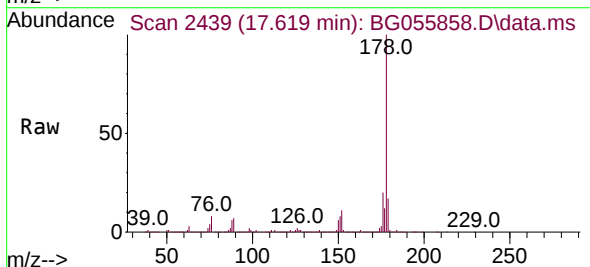
Tgt Ion:188 Resp: 241040
Ion Ratio Lower Upper
188 100
94 7.1 5.4 8.2
80 8.5 6.6 10.0

Manual Integrations
APPROVED

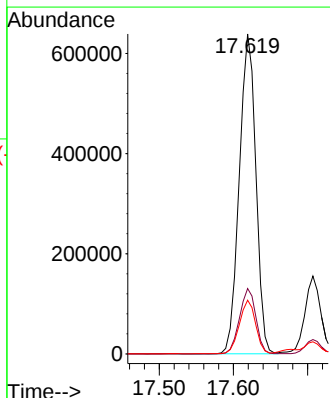
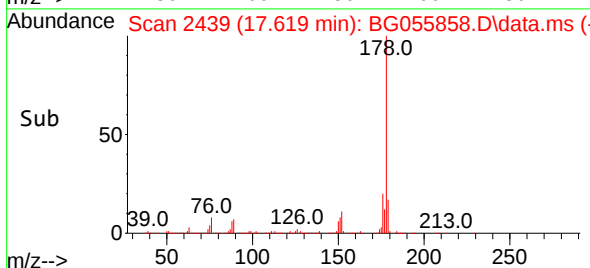
Reviewed By :Christian Giraldo 12/02/2022
Supervised By :Jagrut Upadhyay 12/02/2022

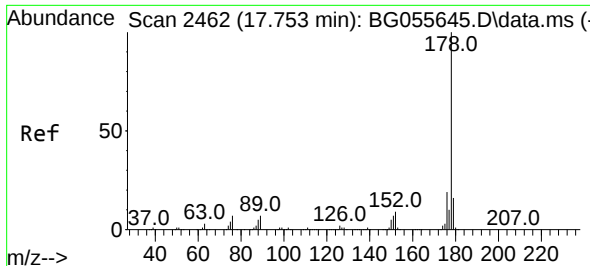


#71
Phenanthrene
Concen: 76.241 ng
RT: 17.619 min Scan# 2439
Delta R.T. -0.005 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37



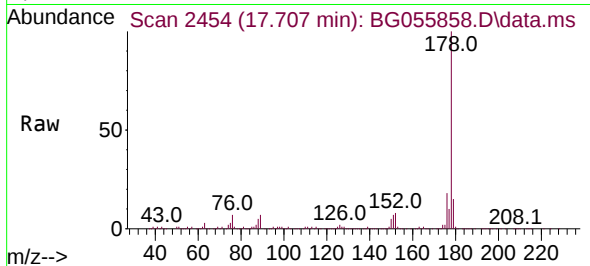
Tgt Ion:178 Resp: 991712
Ion Ratio Lower Upper
178 100
176 20.4 16.0 24.0
179 16.8 12.7 19.1





#72
 Anthracene
 Concen: 17.456 ng
 RT: 17.707 min Scan# 2462
 Delta R.T. -0.005 min
 Lab File: BG055858.D
 Acq: 1 Dec 2022 16:37

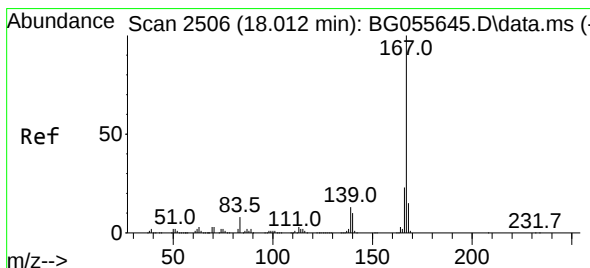
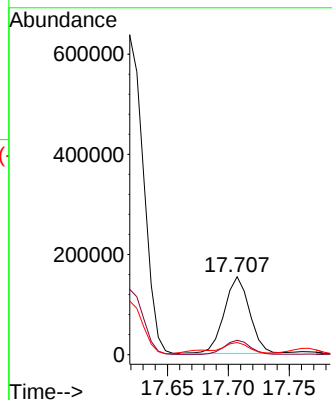
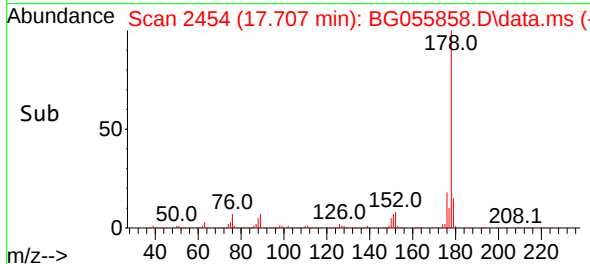
Instrument :
 BNA_G
 ClientSampleId :
 OE-2-113022



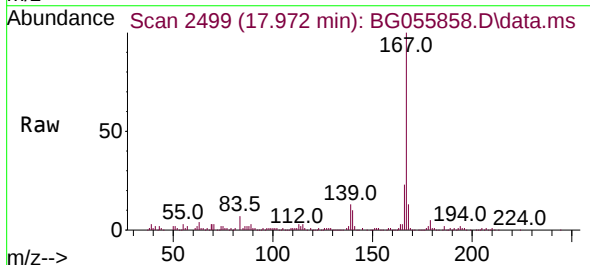
Tgt Ion:178 Resp: 220614
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.5 23.3
 179 15.5 12.5 18.7

Manual Integrations
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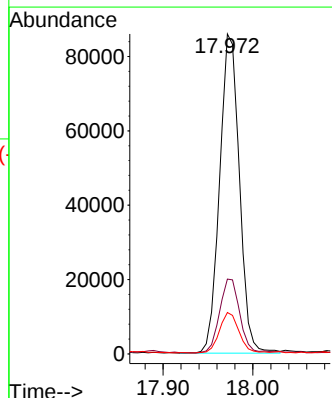
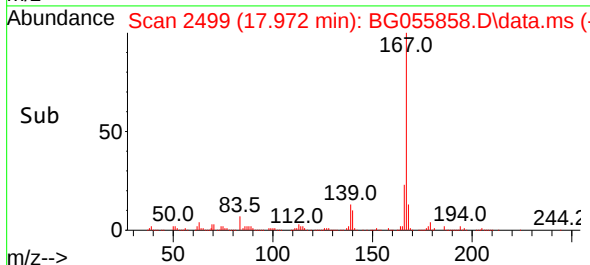
Reviewed By :Christian Giraldo 12/02/2022
 Supervised By :Jagrut Upadhyay 12/02/2022

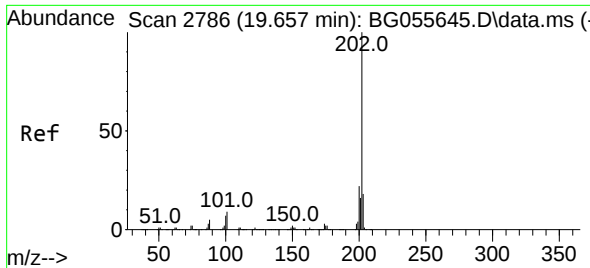


#73
 Carbazole
 Concen: 11.601 ng
 RT: 17.972 min Scan# 2499
 Delta R.T. -0.005 min
 Lab File: BG055858.D
 Acq: 1 Dec 2022 16:37



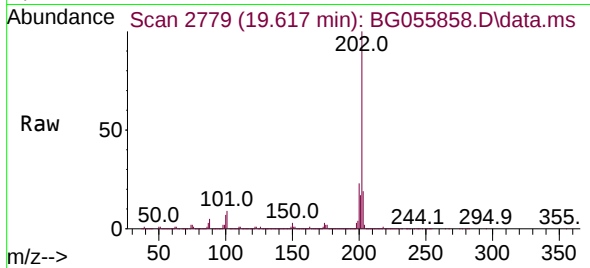
Tgt Ion:167 Resp: 131803
 Ion Ratio Lower Upper
 167 100
 166 23.4 18.2 27.2
 139 12.9 10.2 15.4





#75
Fluoranthene
Concen: 73.812 ng
RT: 19.617 min Scan# 21
Delta R.T. 0.001 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

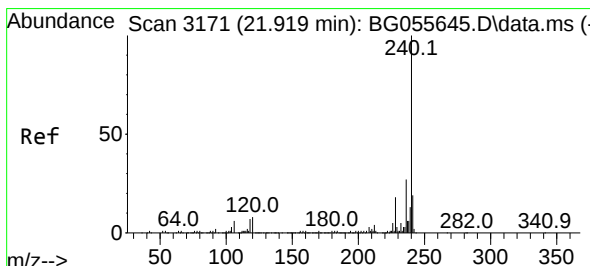
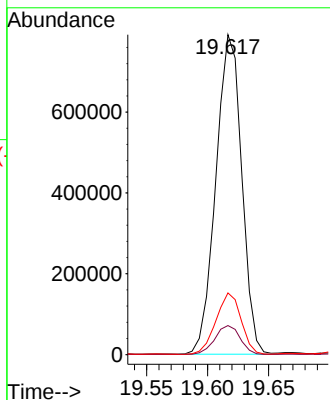
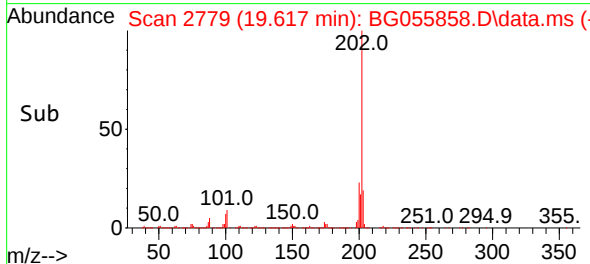
Instrument :
BNA_G
ClientSampleId :
OE-2-113022



Tgt Ion:202 Resp: 1168043
Ion Ratio Lower Upper
202 100
101 9.1 0.0 28.8
203 19.3 0.0 38.1

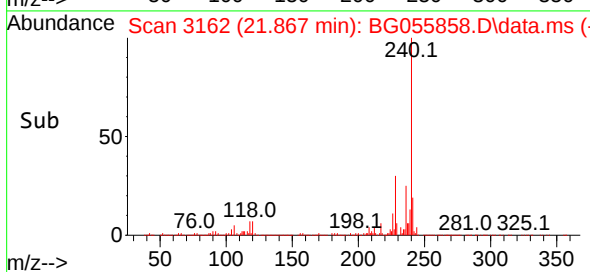
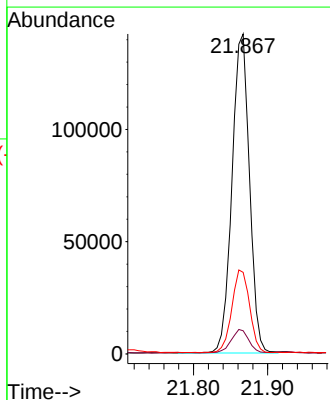
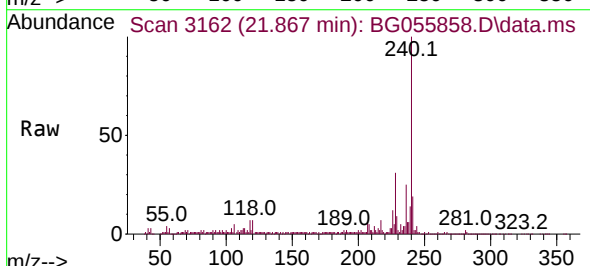
Manual Integrations
APPROVED

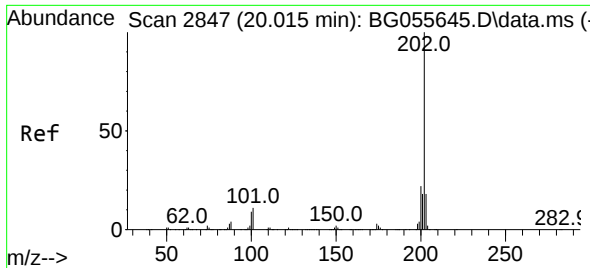
Reviewed By :Christian Giraldo 12/02/2022
Supervised By :Jagrut Upadhyay 12/02/2022



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.867 min Scan# 3162
Delta R.T. 0.001 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

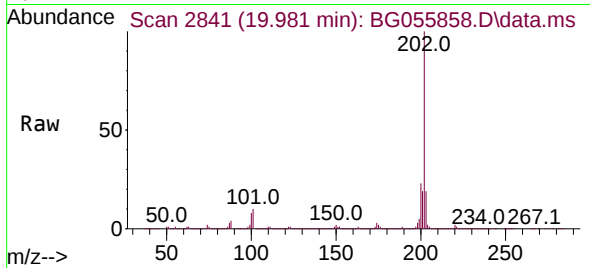
Tgt Ion:240 Resp: 232314
Ion Ratio Lower Upper
240 100
120 7.2 6.3 9.5
236 25.5 21.9 32.9





#78
 Pyrene
 Concen: 67.510 ng
 RT: 19.981 min Scan# 2841
 Delta R.T. 0.001 min
 Lab File: BG055858.D
 Acq: 1 Dec 2022 16:37

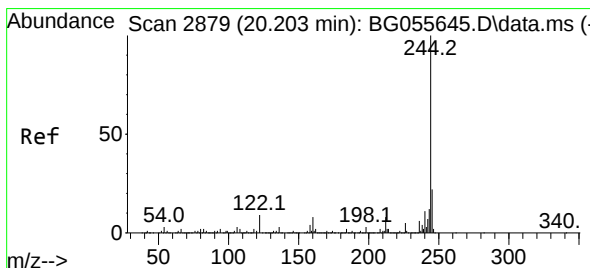
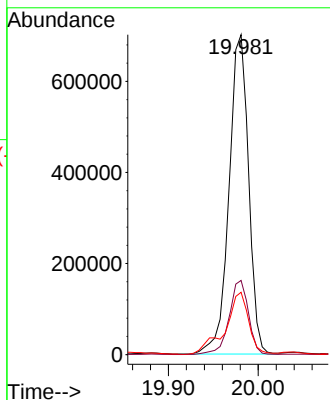
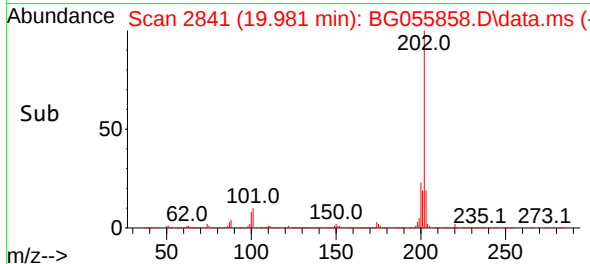
Instrument :
 BNA_G
 ClientSampleId :
 OE-2-113022



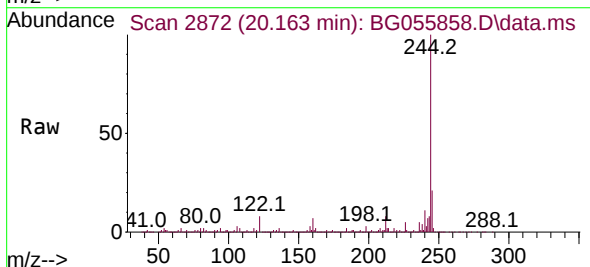
Tgt Ion:202 Resp: 1061583
 Ion Ratio Lower Upper
 202 100
 200 23.2 17.8 26.6
 203 19.5 14.4 21.6

Manual Integrations
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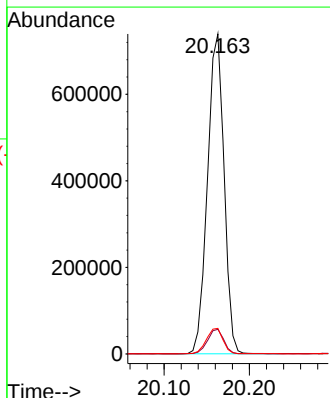
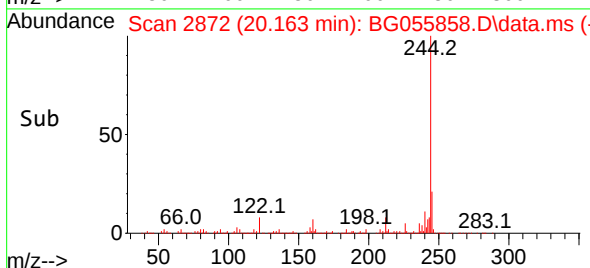
Reviewed By :Christian Giraldo 12/02/2022
 Supervised By :Jagrut Upadhyay 12/02/2022

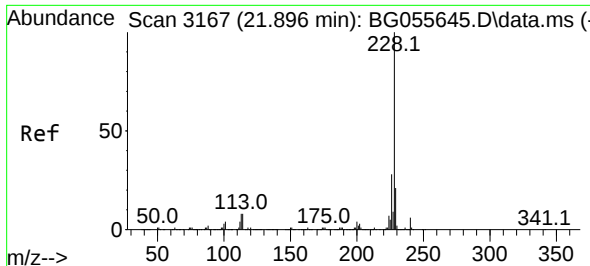


#79
 Terphenyl-d14
 Concen: 85.887 ng
 RT: 20.163 min Scan# 2872
 Delta R.T. 0.001 min
 Lab File: BG055858.D
 Acq: 1 Dec 2022 16:37



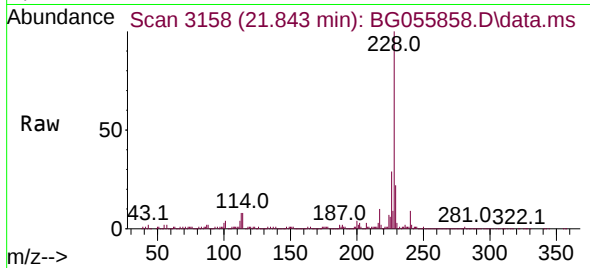
Tgt Ion:244 Resp: 997573
 Ion Ratio Lower Upper
 244 100
 212 7.7 6.3 9.5
 122 8.0 6.9 10.3





#81
Benzo(a)anthracene
Concen: 31.567 ng
RT: 21.843 min Scan# 3167
Delta R.T. -0.005 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

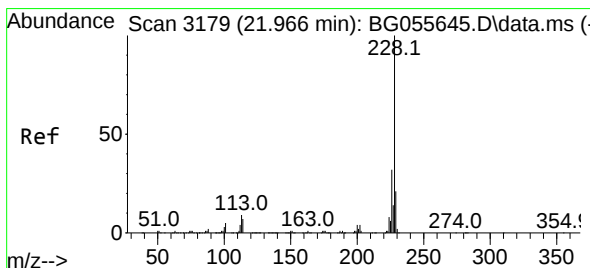
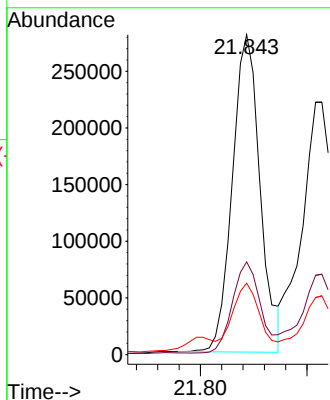
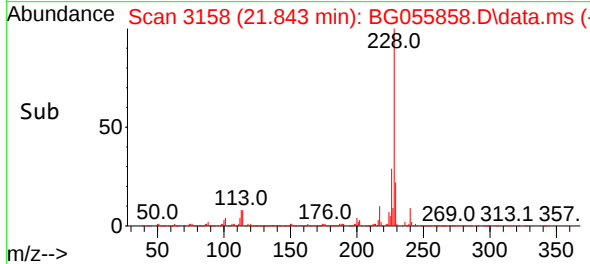
Instrument :
BNA_G
ClientSampleId :
OE-2-113022



Tgt Ion:228 Resp: 505096
Ion Ratio Lower Upper
228 100
226 29.0 22.7 34.1
229 22.3 16.5 24.7

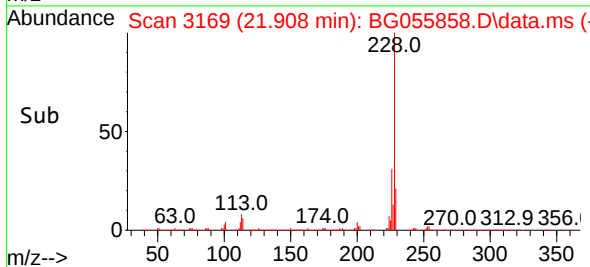
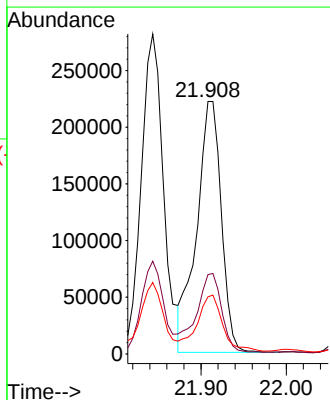
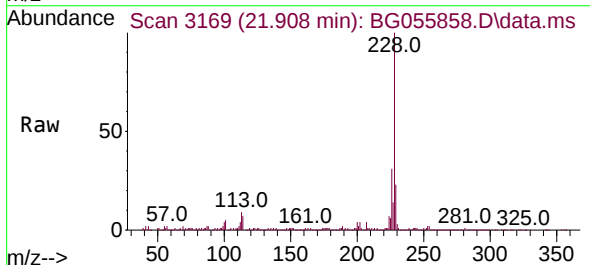
Manual Integrations
APPROVED

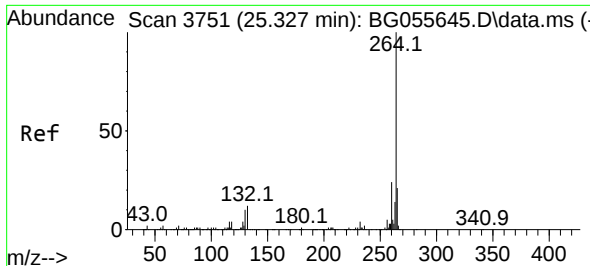
Reviewed By :Christian Giraldo 12/02/2022
Supervised By :Jagrut Upadhyay 12/02/2022



#83
Chrysene
Concen: 29.311 ng
RT: 21.908 min Scan# 3169
Delta R.T. -0.011 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

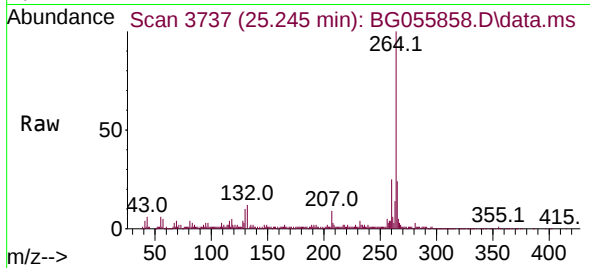
Tgt Ion:228 Resp: 446486
Ion Ratio Lower Upper
228 100
226 31.4 25.4 38.2
229 22.6 17.1 25.7





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.245 min Scan# 31
 Delta R.T. -0.005 min
 Lab File: BG055858.D
 Acq: 1 Dec 2022 16:37

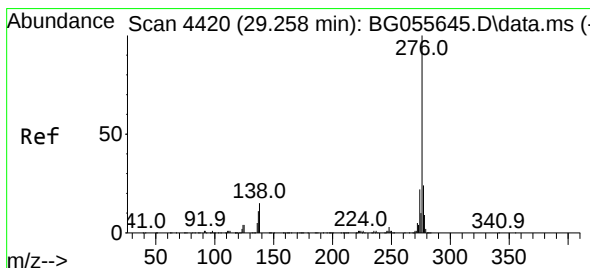
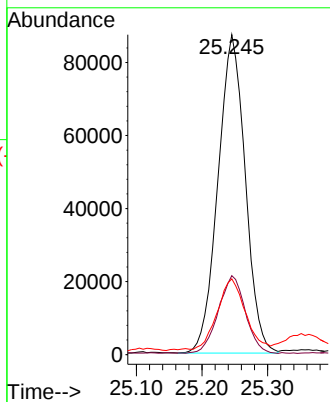
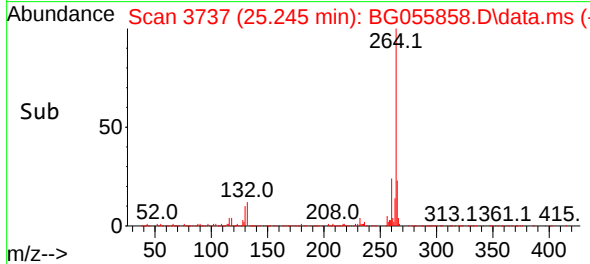
Instrument :
 BNA_G
 ClientSampleId :
 OE-2-113022



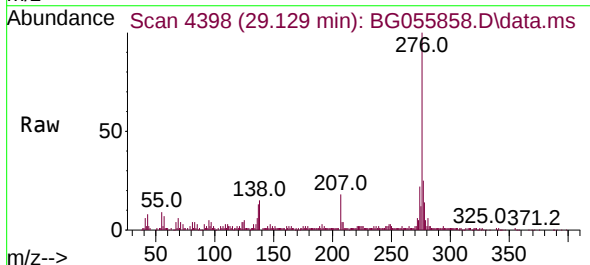
Tgt Ion:264 Resp: 251653
 Ion Ratio Lower Upper
 264 100
 260 24.7 19.5 29.3
 265 23.7 17.1 25.7

Manual Integrations
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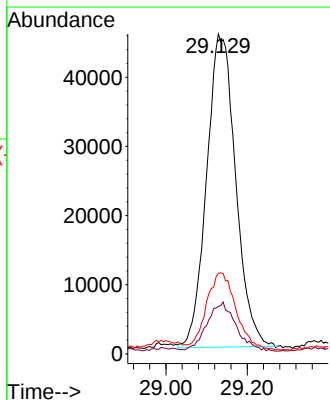
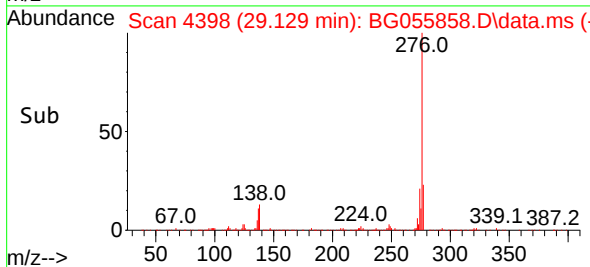
Reviewed By :Christian Giraldo 12/02/2022
 Supervised By :Jagrut Upadhyay 12/02/2022

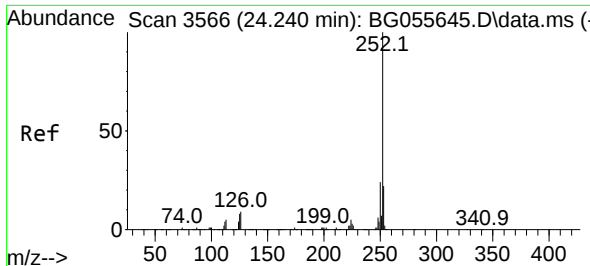


#87
 Indeno(1,2,3-cd)pyrene
 Concen: 10.909 ng
 RT: 29.129 min Scan# 4398
 Delta R.T. -0.022 min
 Lab File: BG055858.D
 Acq: 1 Dec 2022 16:37



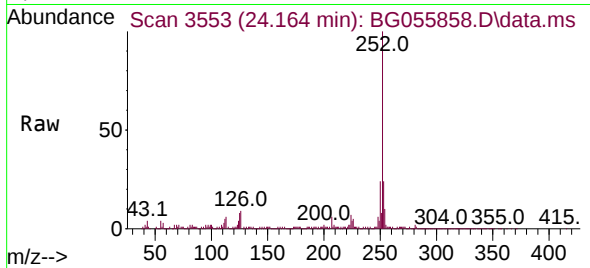
Tgt Ion:276 Resp: 224905
 Ion Ratio Lower Upper
 276 100
 138 15.6 10.4 15.6#
 277 25.5 20.2 30.4





#88
Benzo(b)fluoranthene
Concen: 30.081 ng
RT: 24.164 min Scan# 3553
Delta R.T. -0.005 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

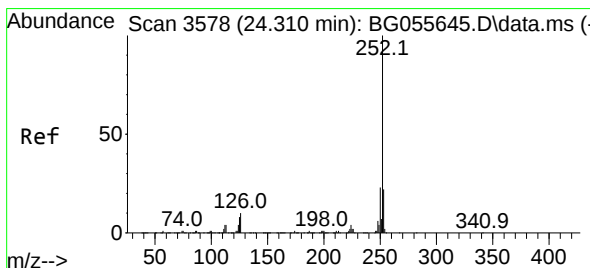
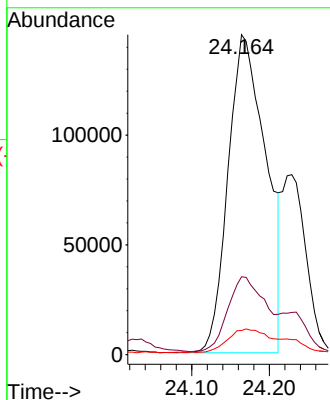
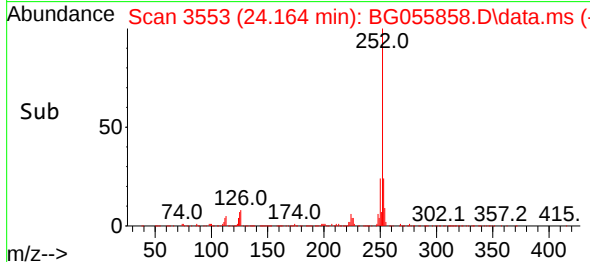
Instrument :
BNA_G
ClientSampleId :
OE-2-113022



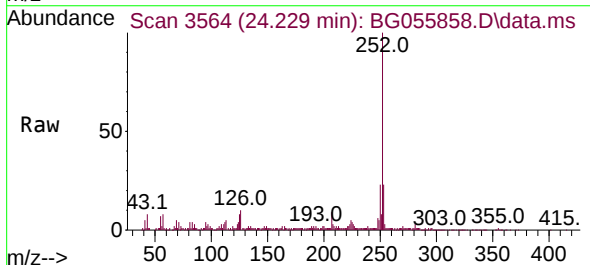
Tgt Ion:252 Resp: 492991
Ion Ratio Lower Upper
252 100
253 24.4 18.0 27.0
125 7.5 6.2 9.2

Manual Integrations
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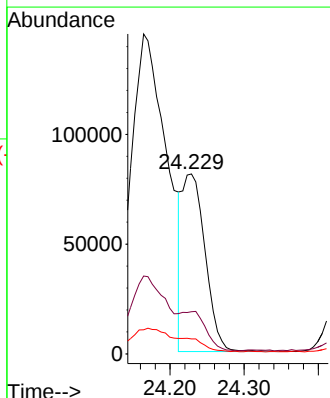
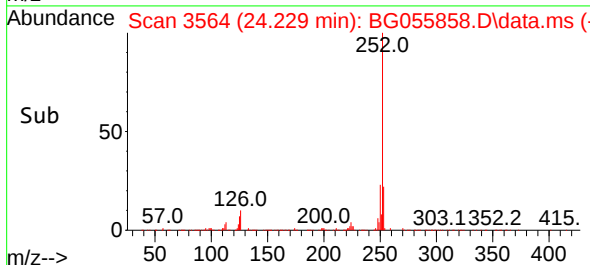
Reviewed By :Christian Giraldo 12/02/2022
Supervised By :Jagrut Upadhyay 12/02/2022

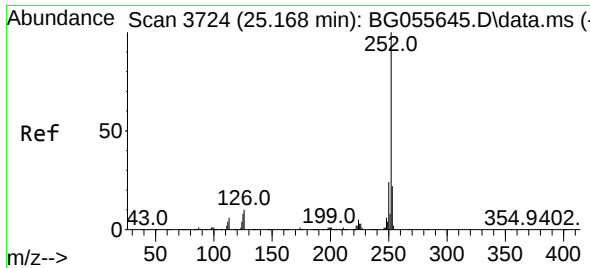


#89
Benzo(k)fluoranthene
Concen: 10.678 ng m
RT: 24.229 min Scan# 3564
Delta R.T. -0.011 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37



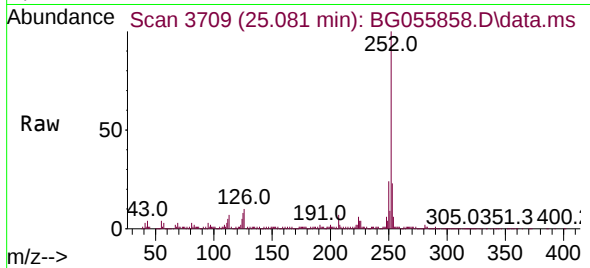
Tgt Ion:252 Resp: 174435
Ion Ratio Lower Upper
252 100
253 23.5 17.8 26.6
125 8.3 6.1 9.1





#90
Benzo(a)pyrene
Concen: 27.607 ng
RT: 25.081 min Scan# 31
Delta R.T. -0.011 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

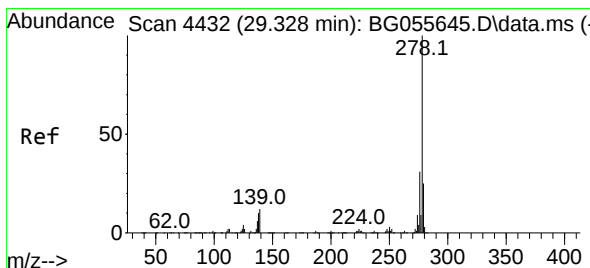
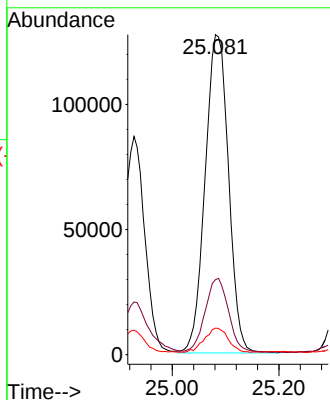
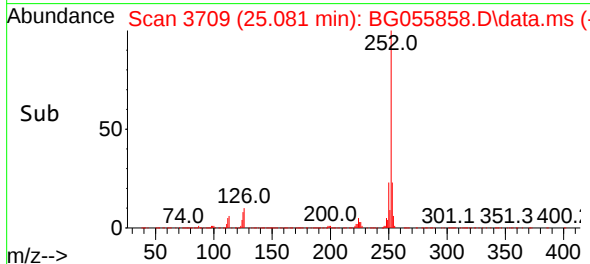
Instrument :
BNA_G
ClientSampleId :
OE-2-113022



Tgt Ion:252 Resp: 388262
Ion Ratio Lower Upper
252 100
253 23.4 17.8 26.6
125 8.3 6.4 9.6

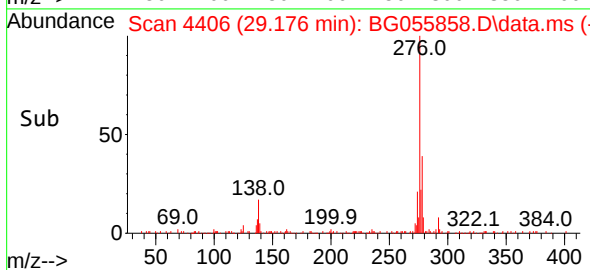
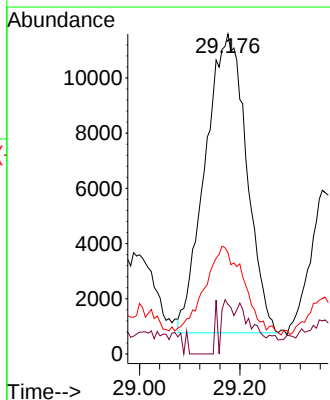
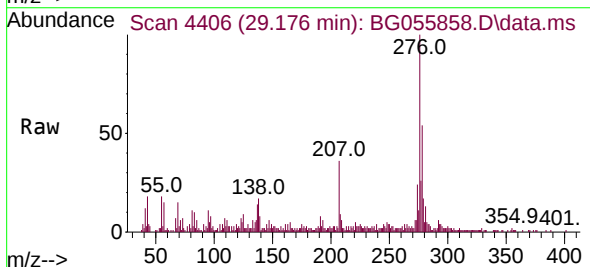
Manual Integrations
APPROVED

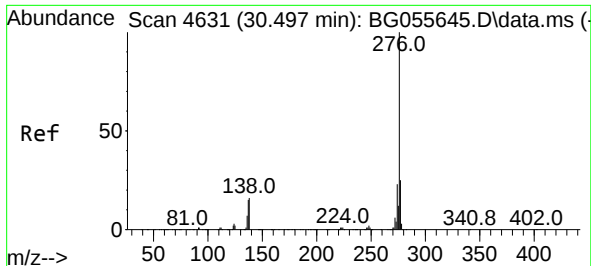
Reviewed By :Christian Giraldo 12/02/2022
Supervised By :Jagrut Upadhyay 12/02/2022



#91
Dibenzo(a,h)anthracene
Concen: 3.684 ng
RT: 29.176 min Scan# 4406
Delta R.T. -0.034 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

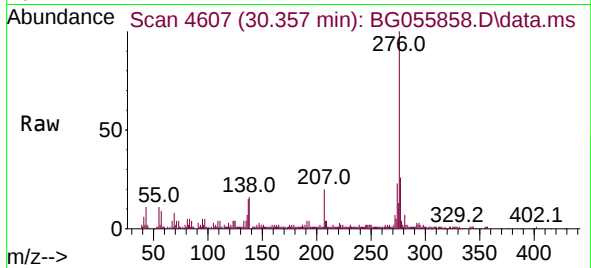
Tgt Ion:278 Resp: 62060
Ion Ratio Lower Upper
278 100
139 15.5 9.8 14.8#
279 31.6 19.8 29.6#





#92
Benzo(g,h,i)perylene
Concen: 12.694 ng
RT: 30.357 min Scan# 4607
Delta R.T. -0.017 min
Lab File: BG055858.D
Acq: 1 Dec 2022 16:37

Instrument :
BNA_G
ClientSampleId :
OE-2-113022



Tgt Ion:276 Resp: 215542
Ion Ratio Lower Upper
276 100
277 26.4 19.8 29.6
138 16.3 13.1 19.7

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 12/02/2022
Supervised By :Jagrut Upadhyay 12/02/2022

