

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG021323\
 Data File : BG056630.D
 Acq On : 13 Feb 2023 22:12
 Operator : CG/JU
 Sample : 01528-01 2X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 EO-03-021023

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/14/2023
 Supervised By : Jagrut Upadhyay 02/14/2023

Quant Time: Feb 14 02:09:59 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 10 22:46:08 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.217	152	53852	20.000	ng	# 0.00
21) Naphthalene-d8	11.049	136	190744	20.000	ng	0.00
39) Acenaphthene-d10	14.844	164	126750	20.000	ng	0.00
64) Phenanthrene-d10	17.588	188	273736	20.000	ng	0.00
76) Chrysene-d12	21.871	240	257413	20.000	ng	0.00
86) Perylene-d12	25.267	264	245989	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.743	112	95741	32.705	ng	0.02
7) Phenol-d6	7.377	99	127309	29.351	ng	0.00
23) Nitrobenzene-d5	9.392	82	67087	19.972	ng	0.00
42) 2,4,6-Tribromophenol	16.331	330	48205	28.607	ng	0.00
45) 2-Fluorobiphenyl	13.464	172	208490	22.805	ng	0.00
79) Terphenyl-d14	20.162	244	316679	21.607	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.096	128	22943	2.279	ng	99
37) 2-Methylnaphthalene	12.688	142	32365	3.899	ng	98
38) 1-Methylnaphthalene	12.905	142	33905	4.374	ng	90
52) Acenaphthene	14.909	154	58223	8.398	ng	99
55) Dibenzofuran	15.238	168	108642	8.738	ng	# 94
58) Fluorene	15.884	166	86141	8.707	ng	98
71) Phenanthrene	17.635	178	1492699	104.189	ng	99
72) Anthracene	17.723	178	302889	20.595	ng	99
73) Carbazole	17.988	167	100887	8.054	ng	98
75) Fluoranthene	19.627	202	1321793	73.099	ng	98
78) Pyrene	19.991	202	1113449	60.818	ng	97
81) Benzo(a)anthracene	21.854	228	536993	29.839	ng	98
83) Chrysene	21.918	228	485376m	28.709	ng	
87) Indeno(1,2,3-cd)pyrene	29.198	276	130584	7.252	ng	# 60
88) Benzo(b)fluoranthene	24.192	252	487343	31.919	ng	# 93
89) Benzo(k)fluoranthene	24.245	252	198780m	12.895	ng	
90) Benzo(a)pyrene	25.109	252	349276	23.223	ng	98
91) Dibenzo(a,h)anthracene	29.204	278	33309	2.204	ng	# 65
92) Benzo(g,h,i)perylene	30.420	276	105210m	7.214	ng	

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

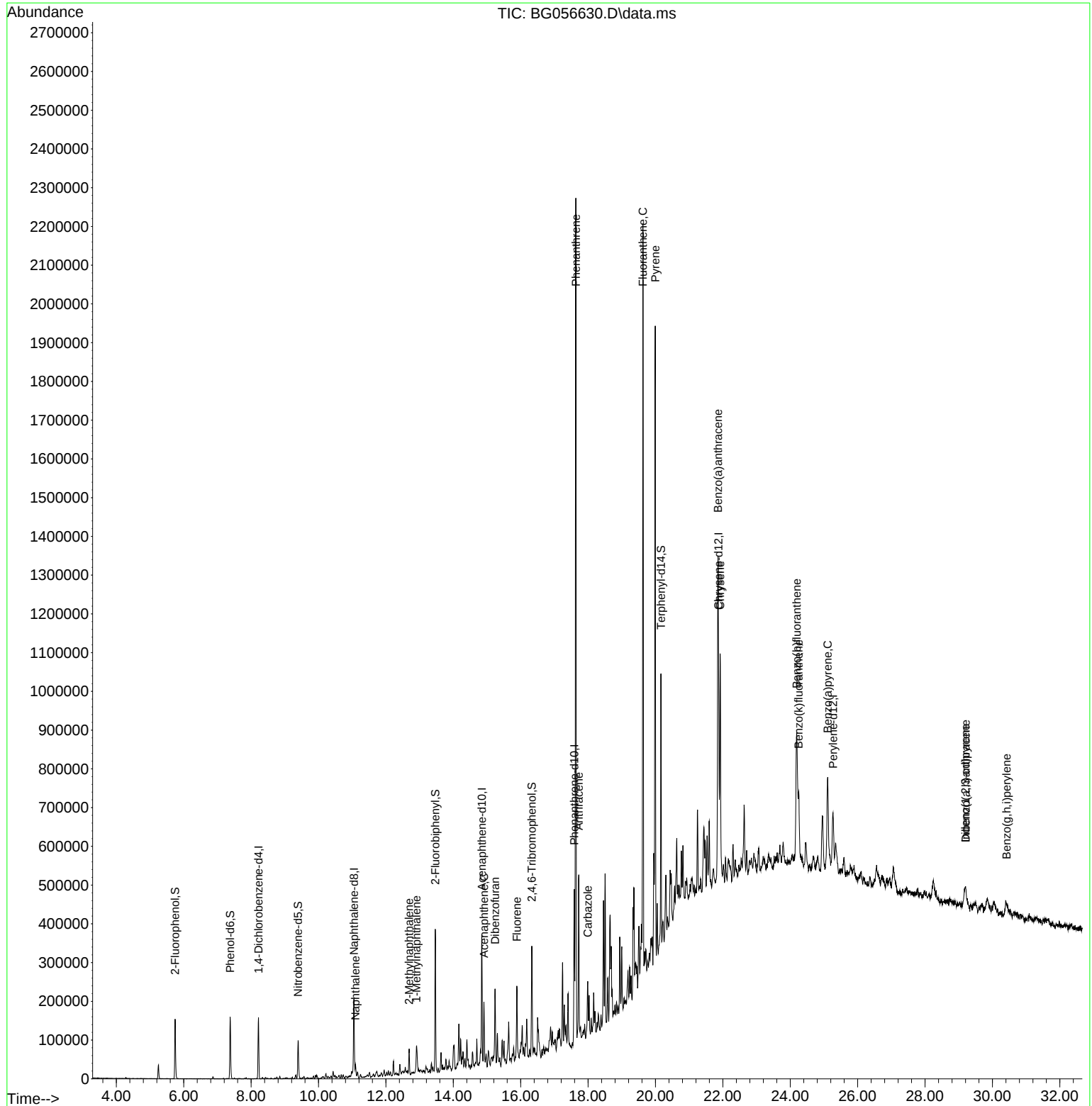
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG021323\
Data File : BG056630.D
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Sample : 01528-01 2X
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ALS Vial : 13 Sample Multiplier: 1

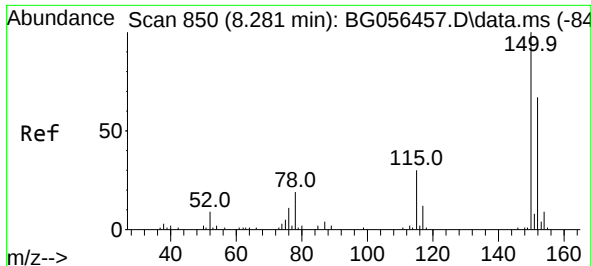
Instrument :
BNA_G
ClientSampleId :
EO-03-021023

Quant Time: Feb 14 02:09:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 10 22:46:08 2023
Response via : Initial Calibration

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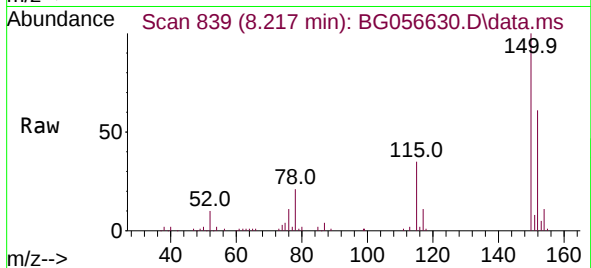
Reviewed By : Christian Giraldo 02/14/2023
Supervised By : Jagrut Upadhyay 02/14/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.217 min Scan# 84
Delta R.T. 0.010 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

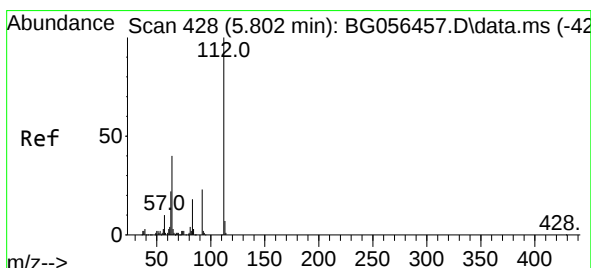
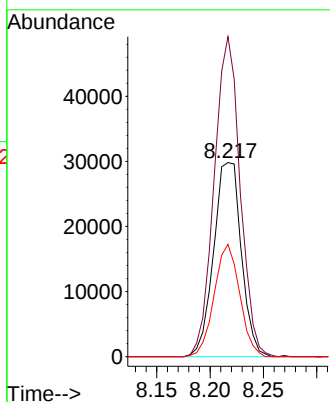
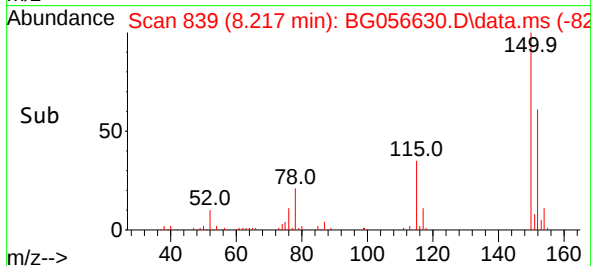
Instrument :
BNA_G
ClientSampleId :
EO-03-021023



Tgt Ion:152 Resp: 53852
Ion Ratio Lower Upper
152 100
150 164.9 120.2 180.4
115 57.9 36.3 54.5

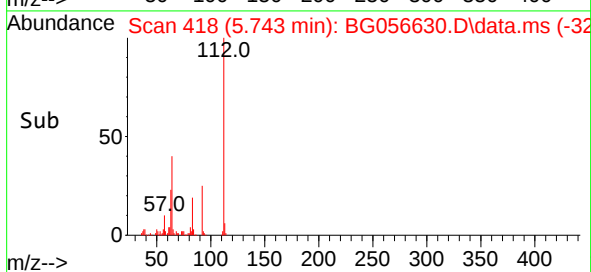
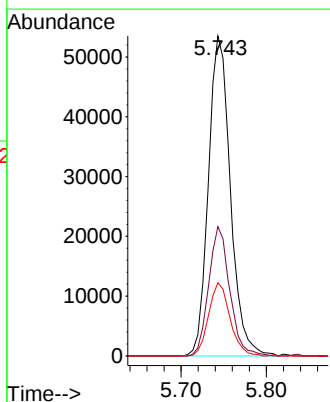
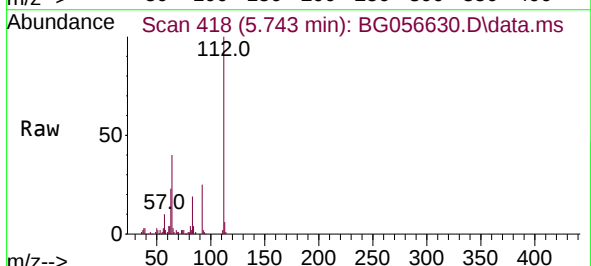
Manual Integrations
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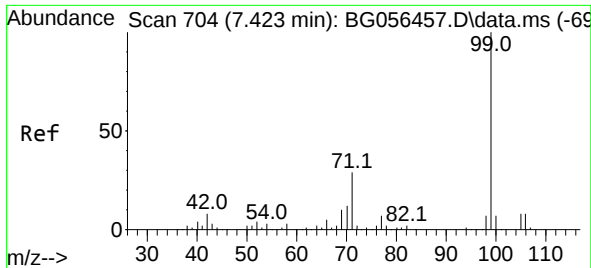
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#5
2-Fluorophenol
Concen: 32.705 ng
RT: 5.743 min Scan# 418
Delta R.T. 0.015 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

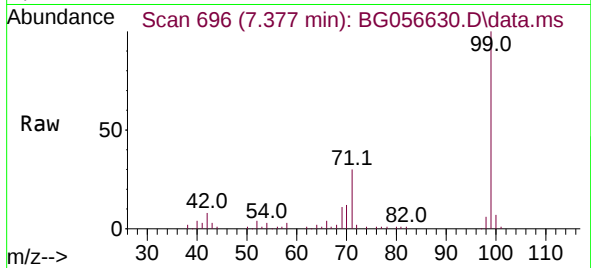
Tgt Ion:112 Resp: 95741
Ion Ratio Lower Upper
112 100
64 40.4 31.9 47.9
63 22.9 17.4 26.0





#7
Phenol-d6
Concen: 29.351 ng
RT: 7.377 min Scan# 69
Delta R.T. 0.009 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

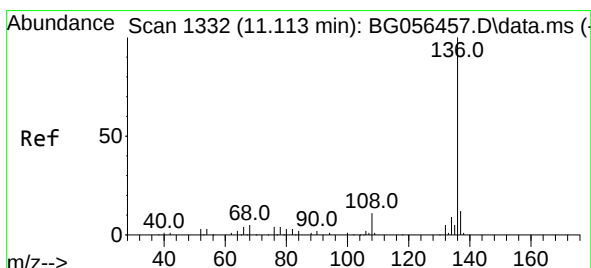
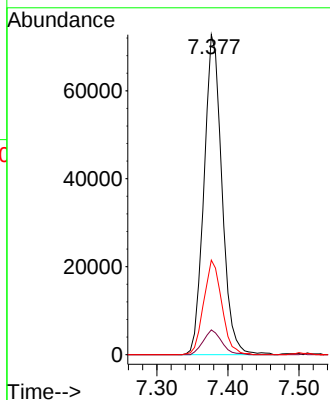
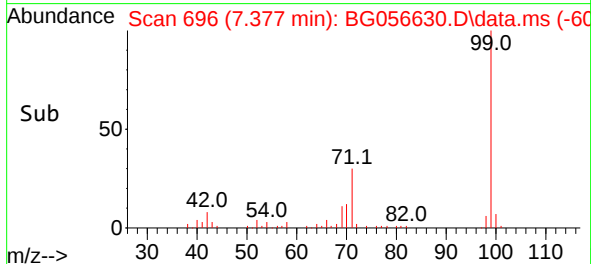
Instrument :
BNA_G
ClientSampleId :
EO-03-021023



Tgt Ion: 99 Resp: 127309
Ion Ratio Lower Upper
99 100
42 7.7 6.6 10.0
71 29.5 23.4 35.0

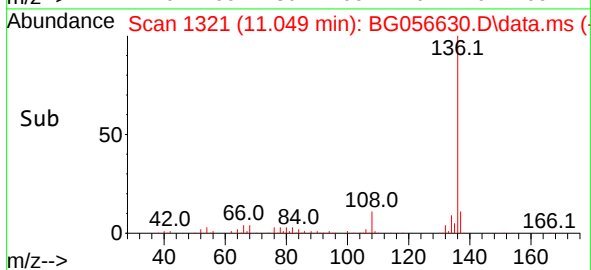
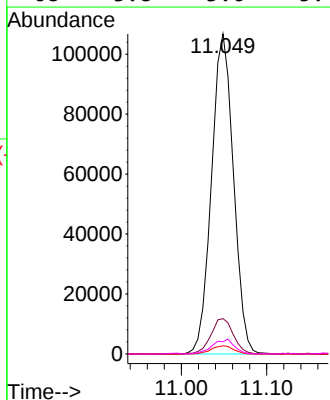
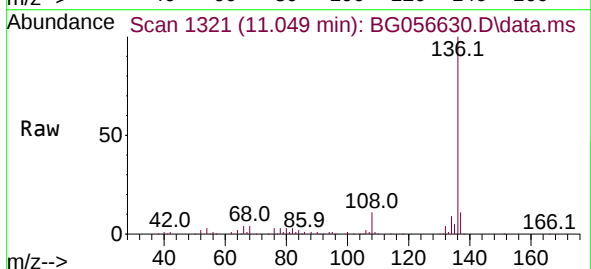
Manual Integrations
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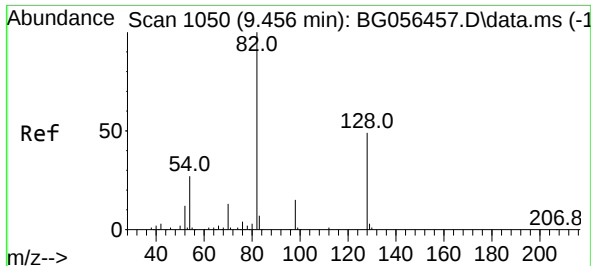
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.049 min Scan# 1321
Delta R.T. 0.004 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

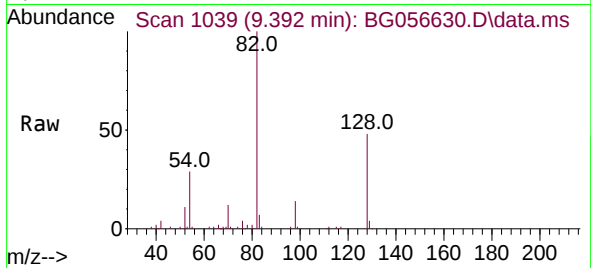
Tgt Ion:136 Resp: 190744
Ion Ratio Lower Upper
136 100
137 11.0 9.4 14.0
54 2.5 2.2 3.4
68 3.8 3.6 5.4





#23
Nitrobenzene-d5
Concen: 19.972 ng
RT: 9.392 min Scan# 1050
Delta R.T. 0.004 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

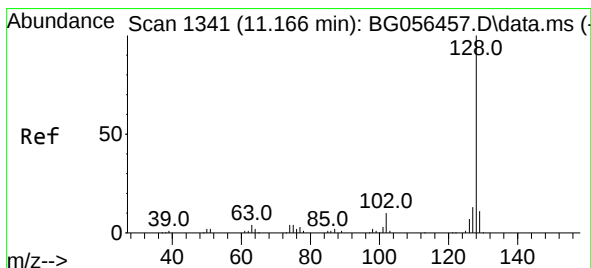
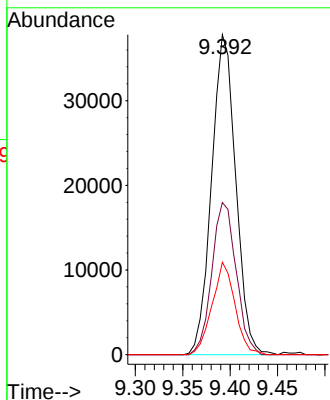
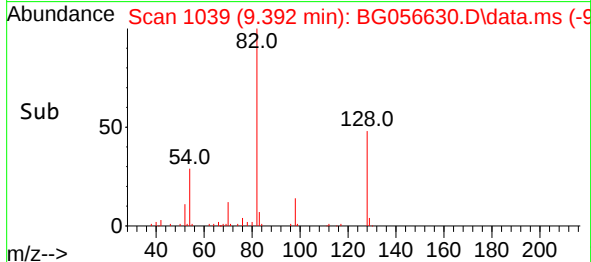
Instrument :
BNA_G
ClientSampleId :
EO-03-021023



Tgt Ion: 82 Resp: 6708
Ion Ratio Lower Upper
82 100
128 47.5 39.4 59.2
54 28.9 21.4 32.2

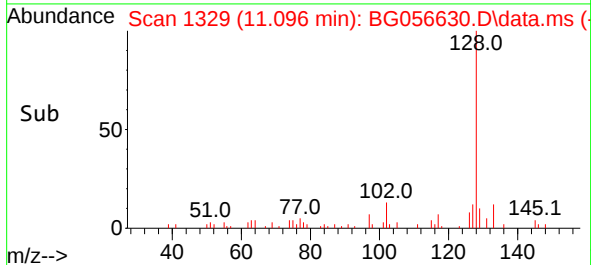
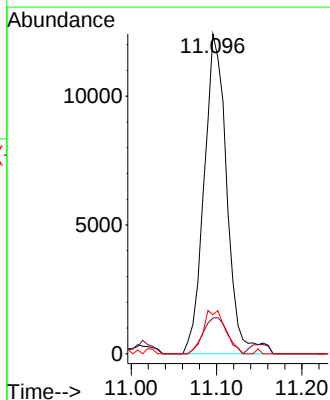
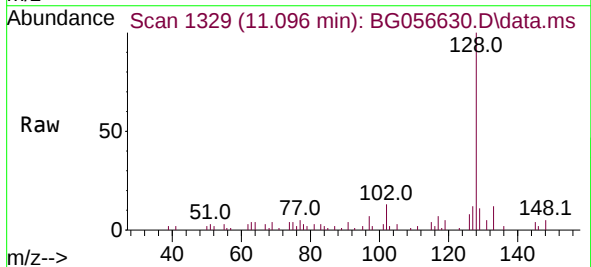
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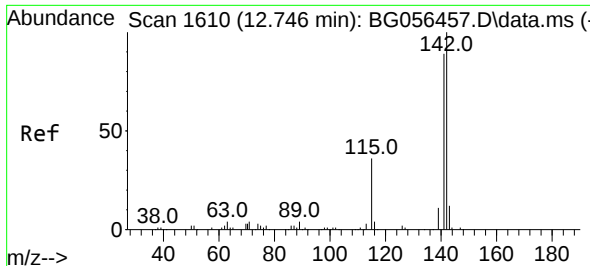
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#31
Naphthalene
Concen: 2.279 ng
RT: 11.096 min Scan# 1329
Delta R.T. -0.002 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

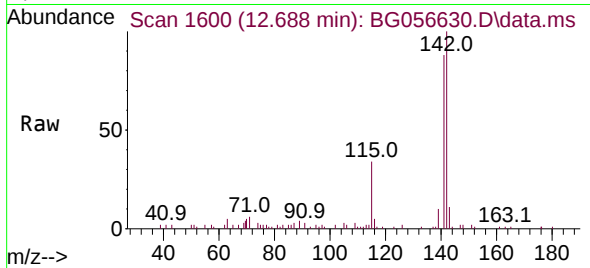
Tgt Ion:128 Resp: 22943
Ion Ratio Lower Upper
128 100
129 11.2 8.7 13.1
127 12.2 10.4 15.6





#37
2-Methylnaphthalene
Concen: 3.899 ng
RT: 12.688 min Scan# 1600
Delta R.T. 0.004 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

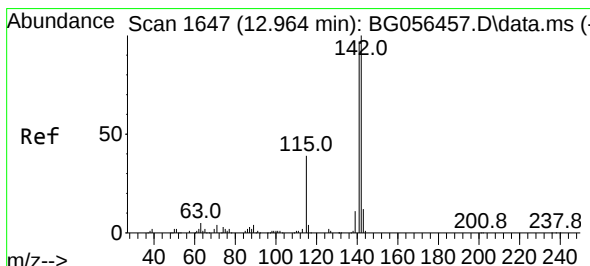
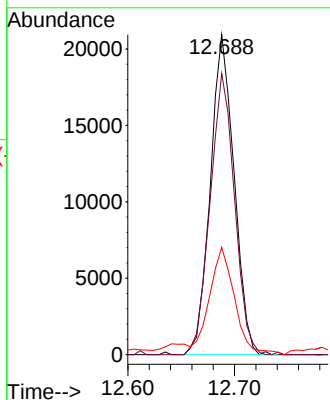
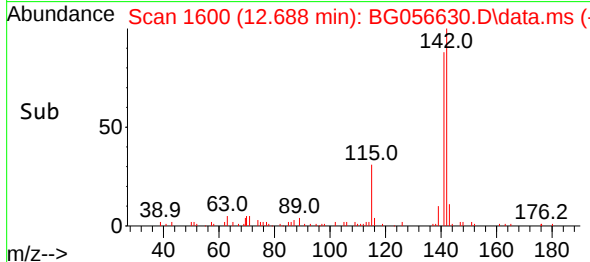
Instrument :
BNA_G
ClientSampleId :
EO-03-021023



Tgt Ion:142 Resp: 32365
Ion Ratio Lower Upper
142 100
141 87.9 71.4 107.0
115 33.5 28.4 42.6

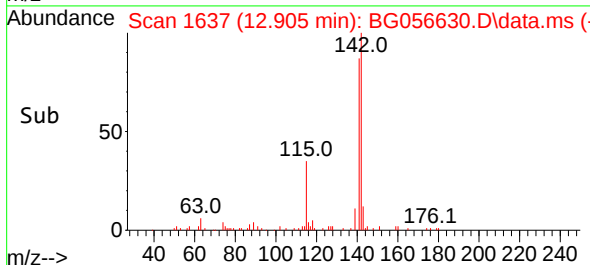
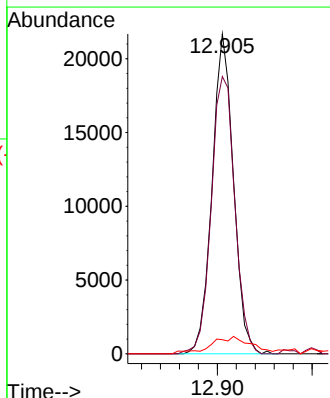
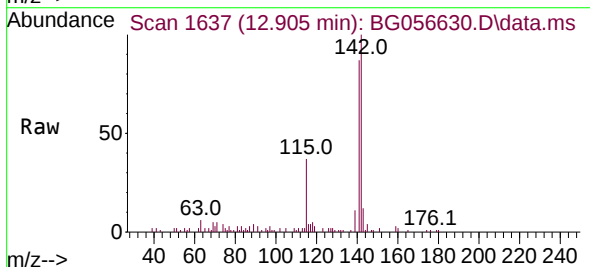
Manual Integrations
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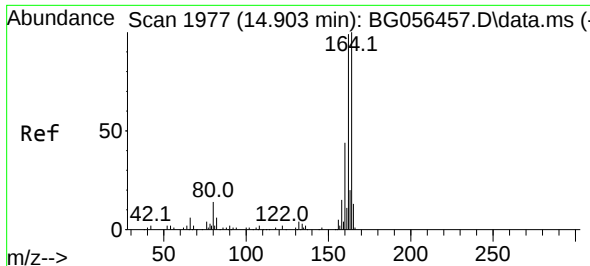
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#38
1-Methylnaphthalene
Concen: 4.374 ng
RT: 12.905 min Scan# 1637
Delta R.T. 0.004 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

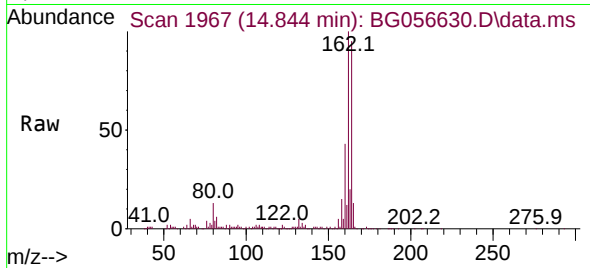
Tgt Ion:142 Resp: 33905
Ion Ratio Lower Upper
142 100
141 86.7 77.7 116.5
116 4.4 3.4 5.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.844 min Scan# 1977
Delta R.T. 0.004 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

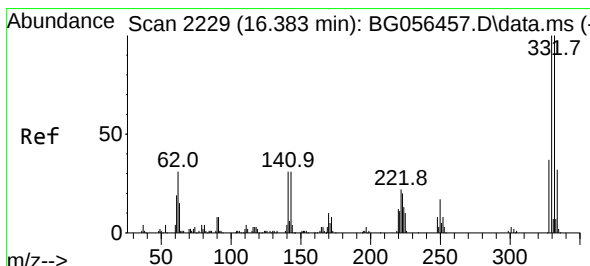
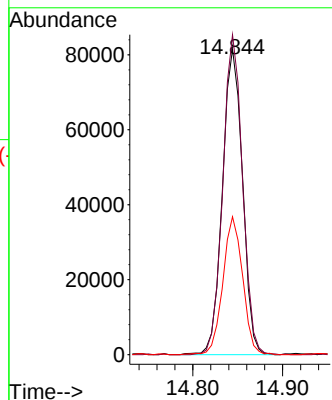
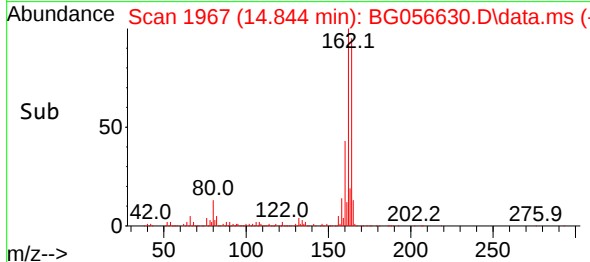
Instrument :
BNA_G
ClientSampleId :
EO-03-021023



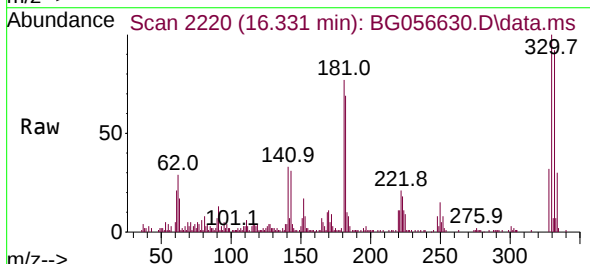
Tgt Ion:164 Resp: 126750
Ion Ratio Lower Upper
164 100
162 104.7 79.6 119.4
160 45.1 34.9 52.3

Manual Integrations
APPROVED

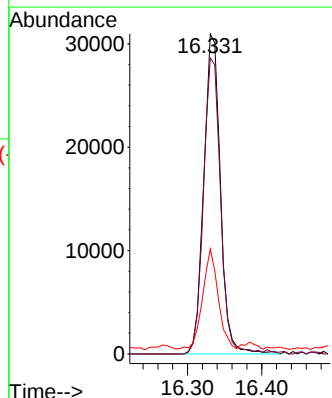
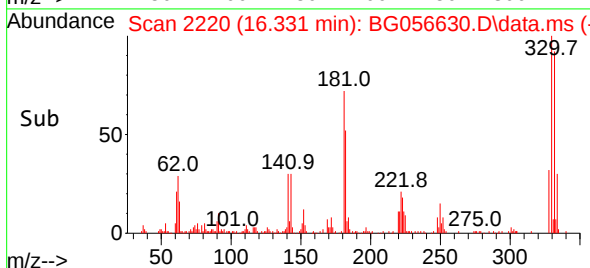
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023

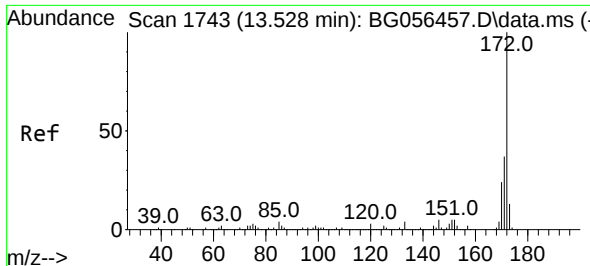


#42
2,4,6-Tribromophenol
Concen: 28.607 ng
RT: 16.331 min Scan# 2220
Delta R.T. 0.004 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12



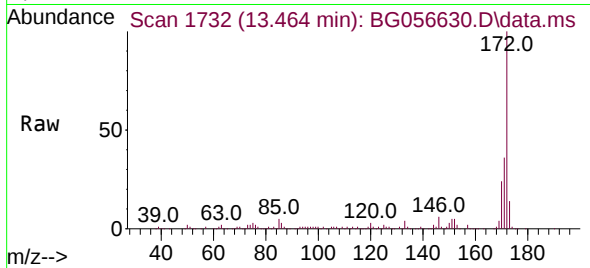
Tgt Ion:330 Resp: 48205
Ion Ratio Lower Upper
330 100
332 94.8 79.0 118.6
141 29.2 24.2 36.4





#45
2-Fluorobiphenyl
Concen: 22.805 ng
RT: 13.464 min Scan# 1743
Delta R.T. -0.002 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

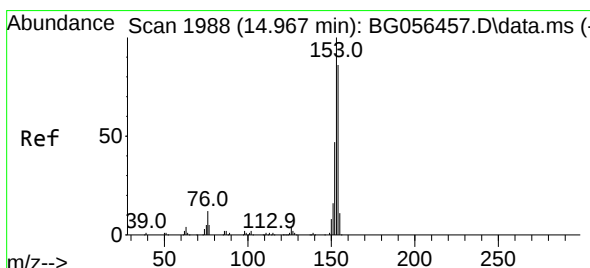
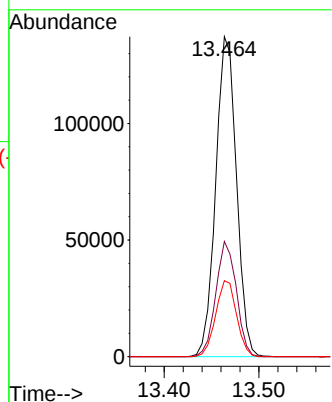
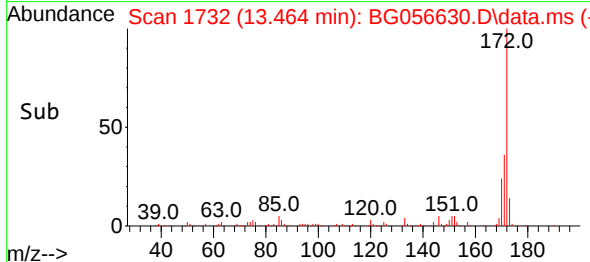
Instrument :
BNA_G
ClientSampleId :
EO-03-021023



Tgt Ion:172 Resp: 208490
Ion Ratio Lower Upper
172 100
171 36.0 29.5 44.3
170 23.7 19.2 28.8

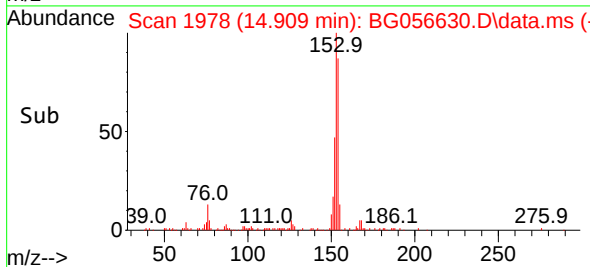
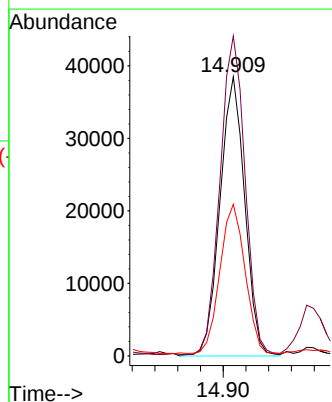
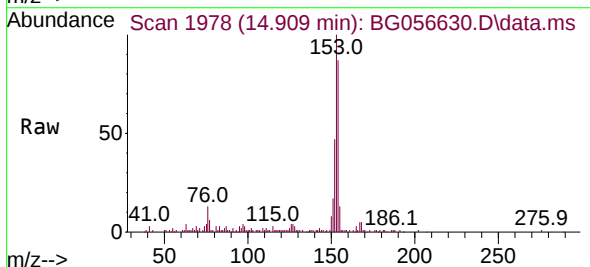
Manual Integrations
APPROVED

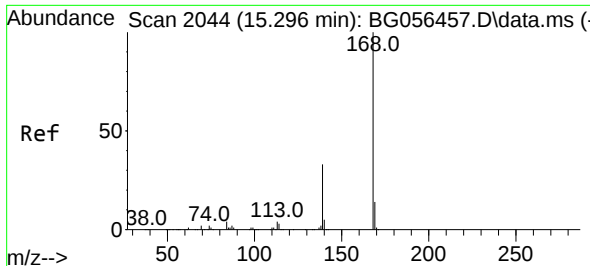
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#52
Acenaphthene
Concen: 8.398 ng
RT: 14.909 min Scan# 1978
Delta R.T. 0.004 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Tgt Ion:154 Resp: 58223
Ion Ratio Lower Upper
154 100
153 114.6 93.4 140.0
152 54.3 43.4 65.2





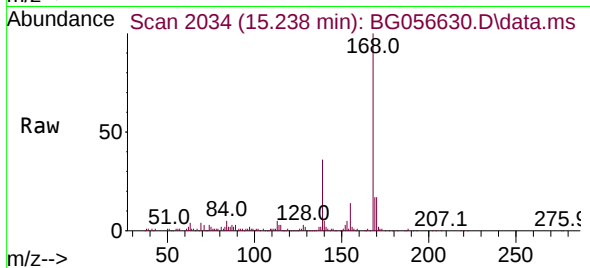
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Dibenzenofuran
Concen: 8.738 ng
RT: 15.238 min Scan# 2044
Delta R.T. -0.002 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Instrument :

BNA_G

ClientSampleId :

EO-03-021023



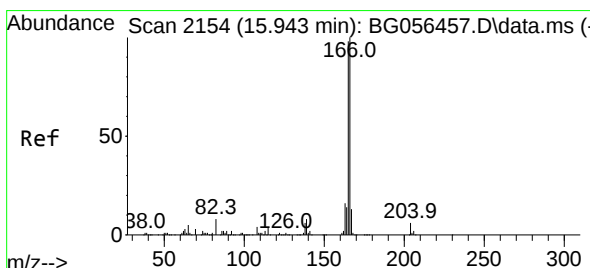
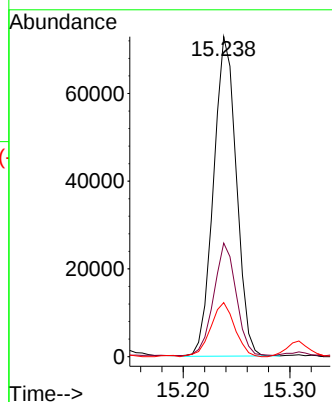
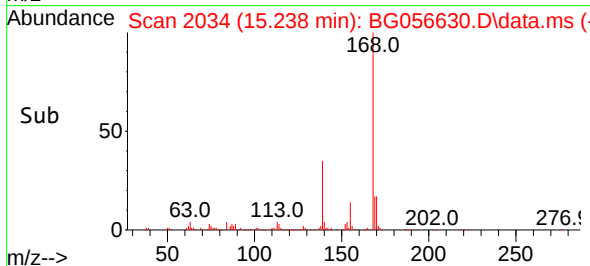
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Ion Ratio Lower Upper
168 100
139 35.5 26.2 39.2
169 16.9 11.0 16.6

Manual Integrations

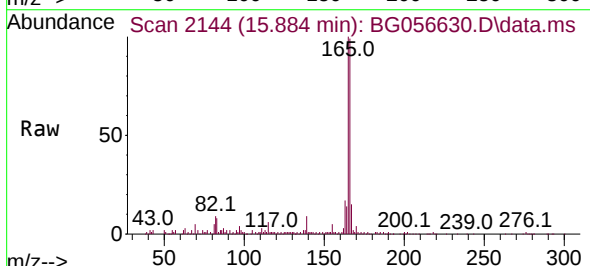
APPROVED

Reviewed By :Christian Giraldo 02/14/2023

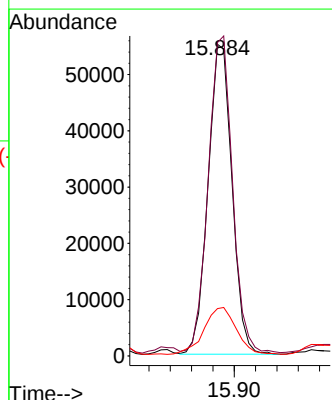
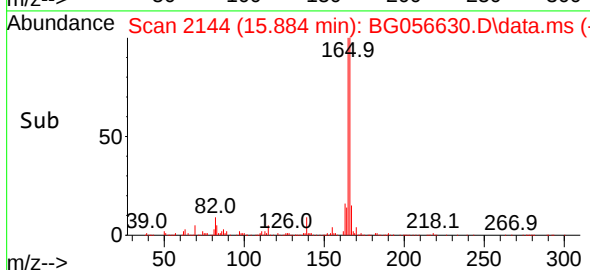
Supervised By :Jagrut Upadhyay 02/14/2023

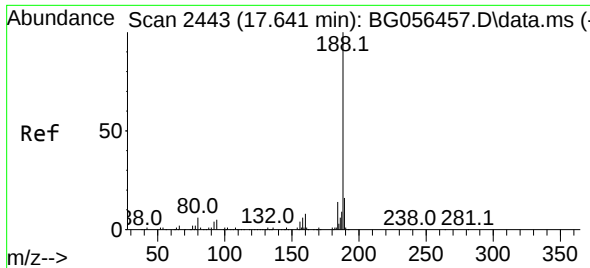


#58
Fluorene
Concen: 8.707 ng
RT: 15.884 min Scan# 2144
Delta R.T. -0.002 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12



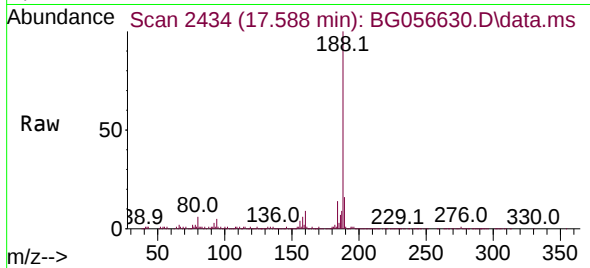
Tgt Ion:166 Resp: 86141
Ion Ratio Lower Upper
166 100
165 100.6 78.8 118.2
167 15.2 10.6 15.8





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.588 min Scan# 2443
Delta R.T. 0.004 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

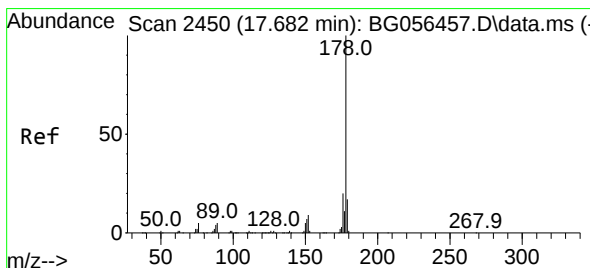
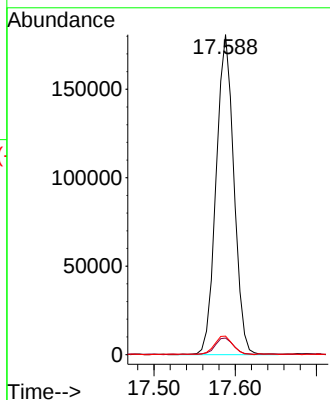
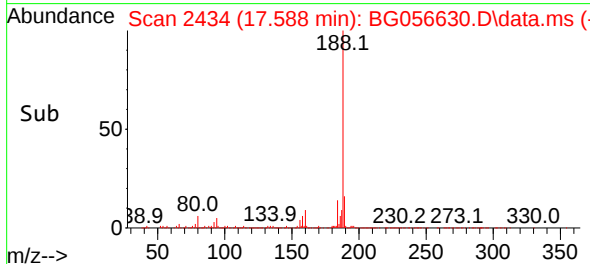
Instrument :
BNA_G
ClientSampleId :
EO-03-021023



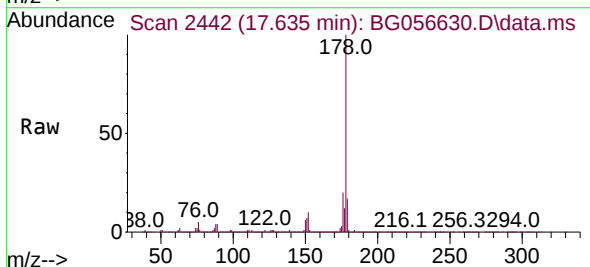
Tgt Ion:188 Resp: 273736
Ion Ratio Lower Upper
188 100
94 5.2 4.1 6.1
80 5.8 5.0 7.4

Manual Integrations
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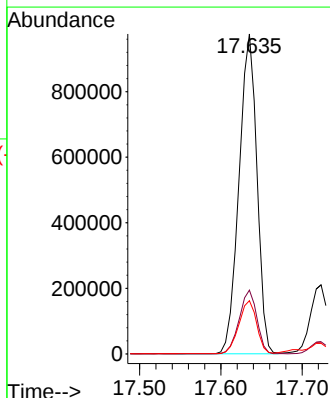
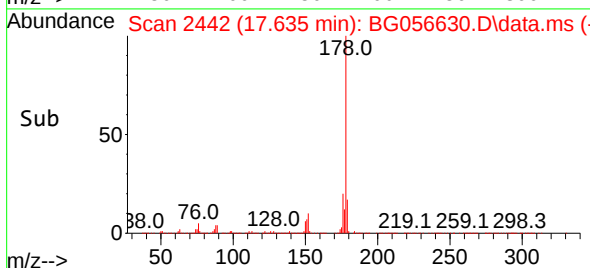
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023

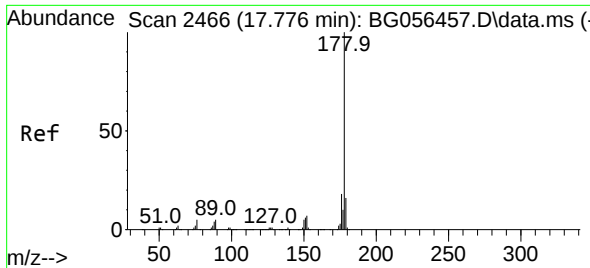


#71
Phenanthrene
Concen: 104.189 ng
RT: 17.635 min Scan# 2442
Delta R.T. 0.009 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12



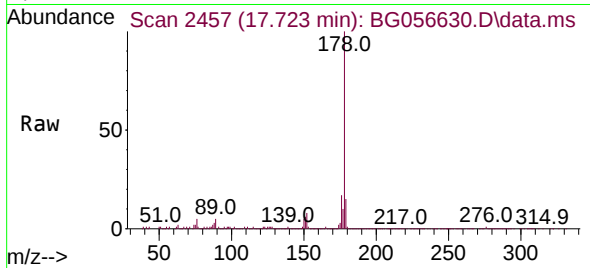
Tgt Ion:178 Resp: 1492699
Ion Ratio Lower Upper
178 100
176 19.9 15.6 23.4
179 16.6 13.3 19.9





#72
 Anthracene
 Concen: 20.595 ng
 RT: 17.723 min Scan# 2466
 Delta R.T. 0.009 min
 Lab File: BG056630.D
 Acq: 13 Feb 2023 22:12

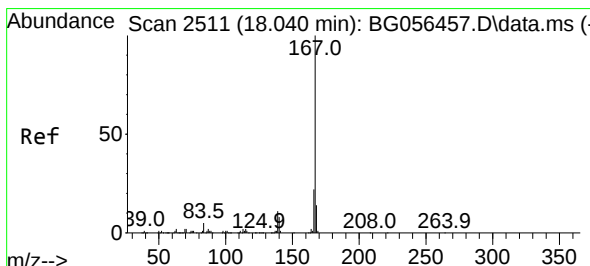
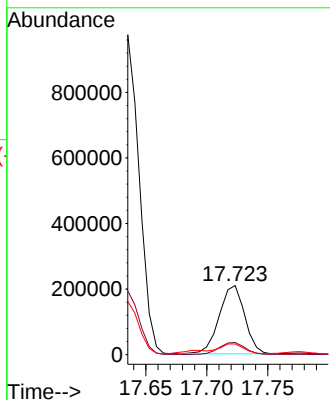
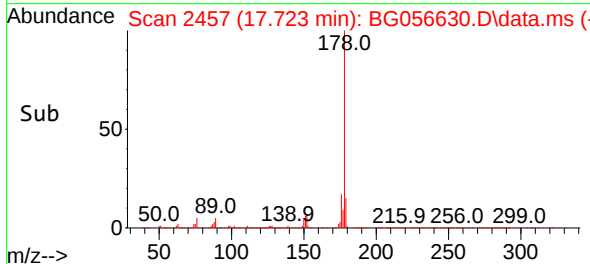
Instrument :
 BNA_G
 ClientSampleId :
 EO-03-021023



Tgt Ion:178 Resp: 302889
 Ion Ratio Lower Upper
 178 100
 176 17.5 14.5 21.7
 179 15.5 12.5 18.7

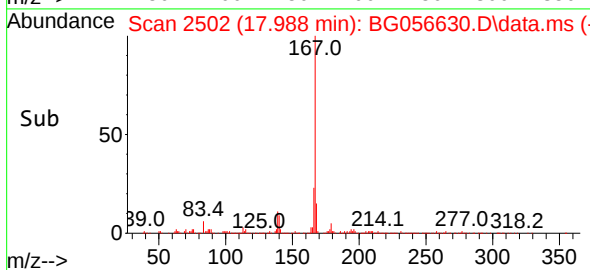
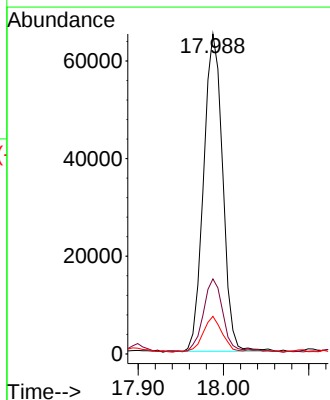
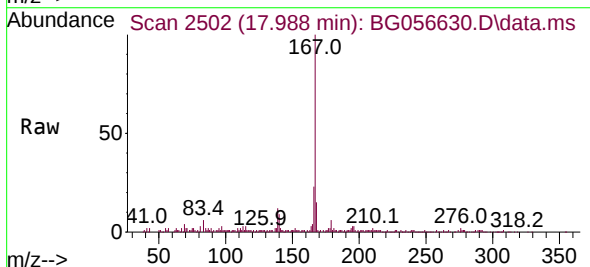
Manual Integrations
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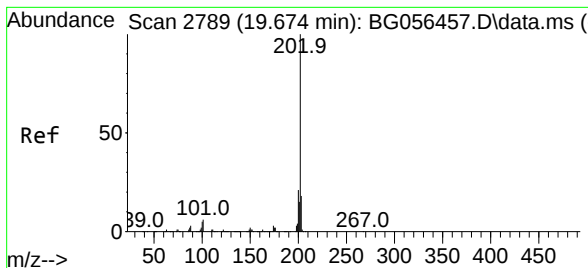
Reviewed By :Christian Giraldo 02/14/2023
 Supervised By :Jagrut Upadhyay 02/14/2023



#73
 Carbazole
 Concen: 8.054 ng
 RT: 17.988 min Scan# 2502
 Delta R.T. 0.004 min
 Lab File: BG056630.D
 Acq: 13 Feb 2023 22:12

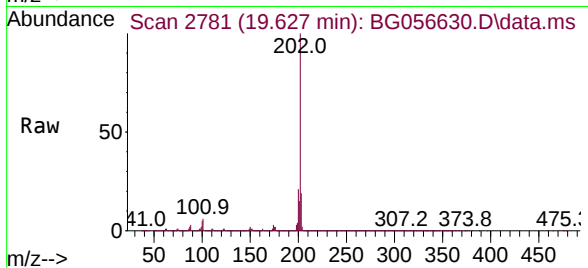
Tgt Ion:167 Resp: 100887
 Ion Ratio Lower Upper
 167 100
 166 23.4 17.8 26.6
 139 11.7 8.9 13.3





#75
Fluoranthene
Concen: 73.099 ng
RT: 19.627 min Scan# 21
Delta R.T. 0.004 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

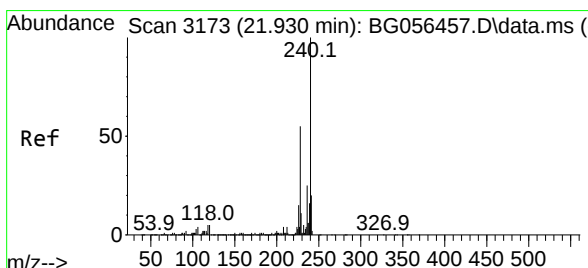
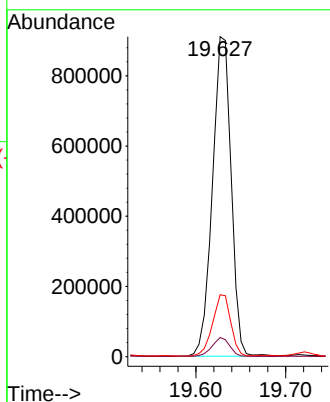
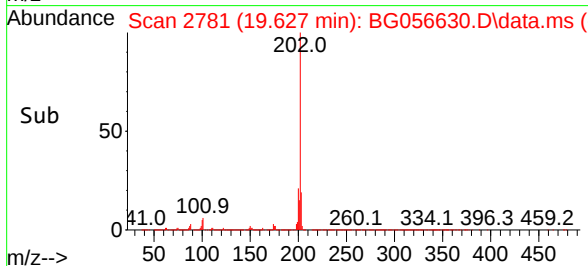
Instrument :
BNA_G
ClientSampleId :
EO-03-021023



Tgt Ion:202 Resp: 1321793
Ion Ratio Lower Upper
202 100
101 6.0 0.0 25.6
203 19.3 0.0 38.1

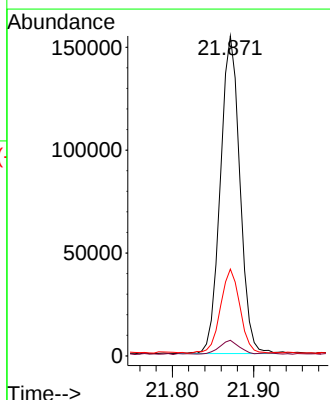
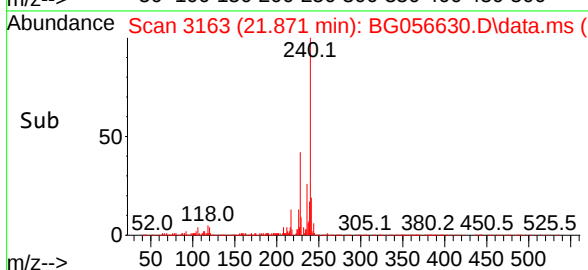
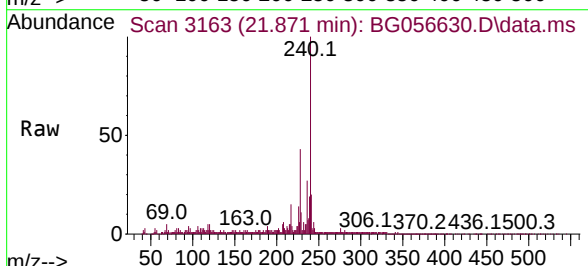
Manual Integrations
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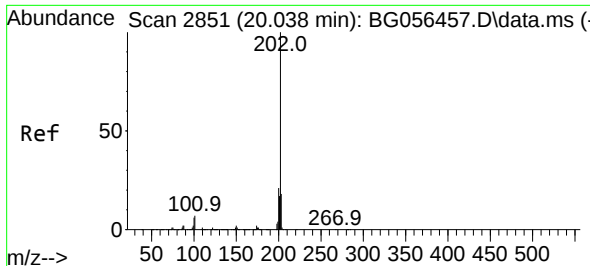
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.871 min Scan# 3163
Delta R.T. 0.009 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Tgt Ion:240 Resp: 257413
Ion Ratio Lower Upper
240 100
120 4.9 3.8 5.8
236 27.1 20.2 30.2





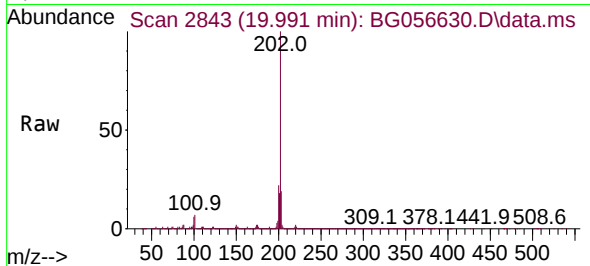
#78
Pyrene
Concen: 60.818 ng
RT: 19.991 min Scan# 2851
Delta R.T. 0.009 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Instrument :

BNA_G

ClientSampleId :

EO-03-021023

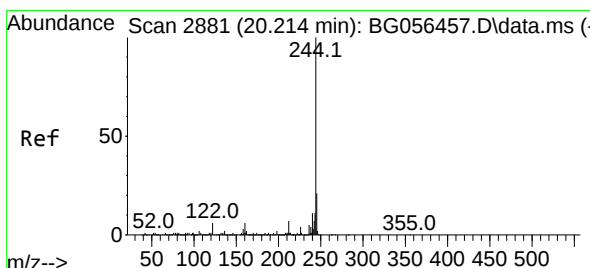
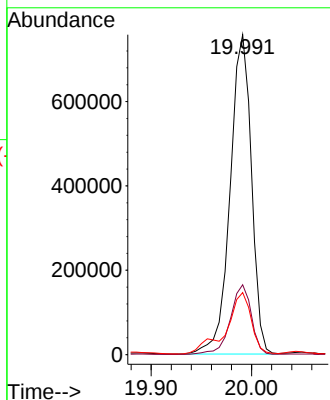
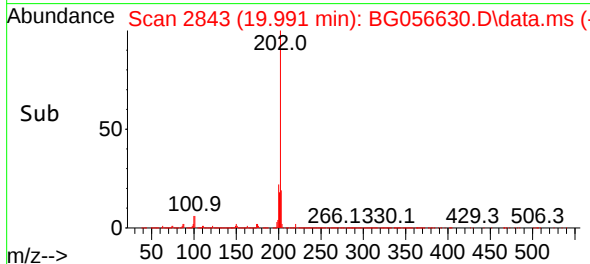


Tgt Ion:202 Resp: 1113449
Ion Ratio Lower Upper
202 100
200 21.9 16.7 25.1
203 19.4 14.4 21.6

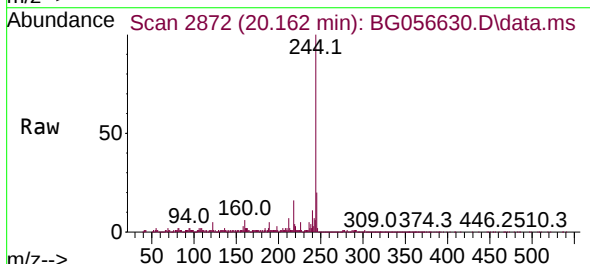
Manual Integrations

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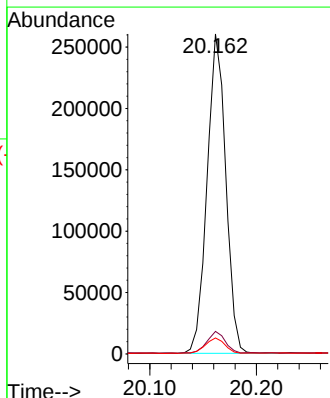
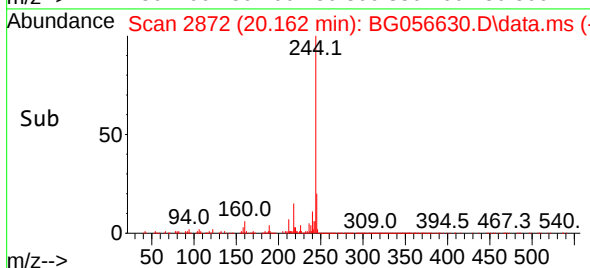
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023

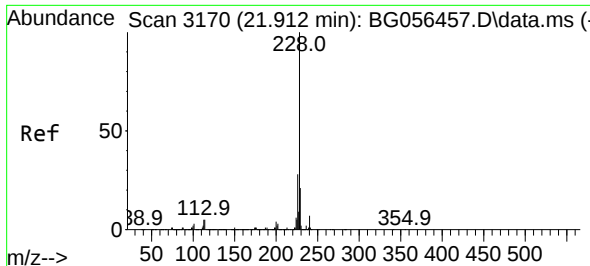


#79
Terphenyl-d14
Concen: 21.607 ng
RT: 20.162 min Scan# 2872
Delta R.T. 0.004 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12



Tgt Ion:244 Resp: 316679
Ion Ratio Lower Upper
244 100
212 7.0 5.5 8.3
122 5.0 4.4 6.6





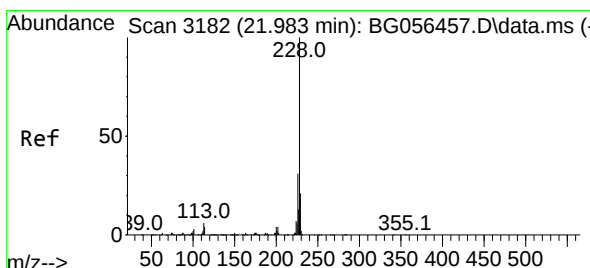
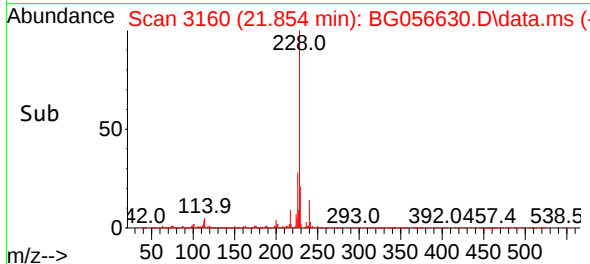
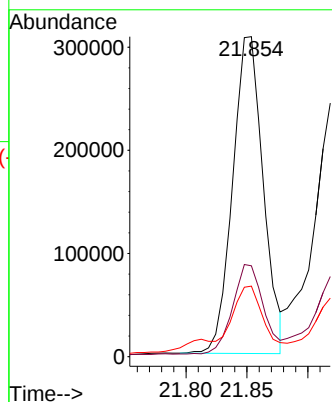
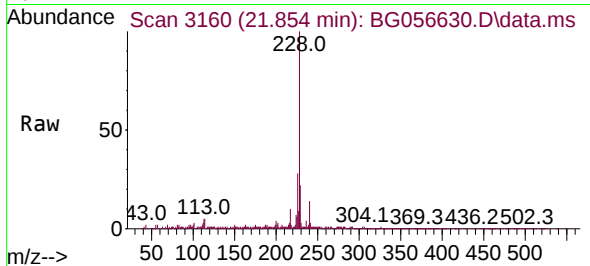
#81
Benzo(a)anthracene
Concen: 29.839 ng
RT: 21.854 min Scan# 3170
Delta R.T. 0.015 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Instrument :
BNA_G
ClientSampleId :
EO-03-021023

Tgt Ion:228 Resp: 536993
Ion Ratio Lower Upper
228 100
226 28.4 22.4 33.6
229 22.0 16.5 24.7

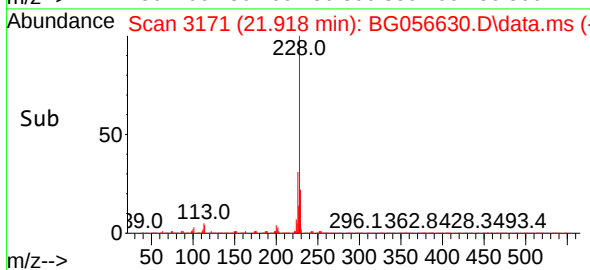
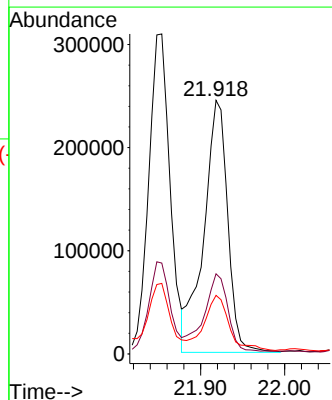
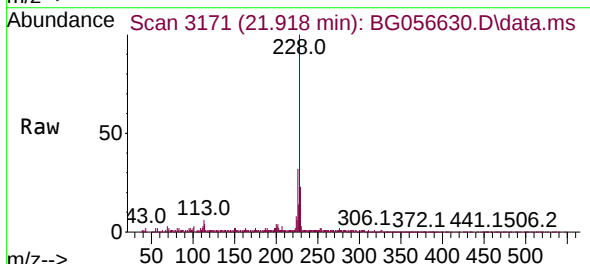
Manual Integrations
APPROVED

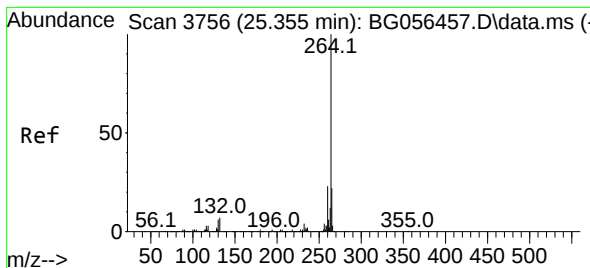
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#83
Chrysene
Concen: 28.709 ng m
RT: 21.918 min Scan# 3171
Delta R.T. 0.009 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Tgt Ion:228 Resp: 485376
Ion Ratio Lower Upper
228 100
226 31.6 25.0 37.4
229 23.1 16.4 24.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.267 min Scan# 31

Delta R.T. 0.033 min

Lab File: BG056630.D

Acq: 13 Feb 2023 22:12

Instrument :

BNA_G

ClientSampleId :

EO-03-021023

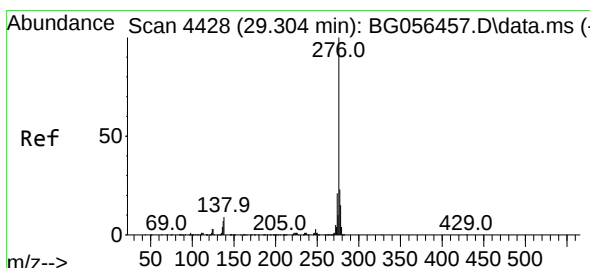
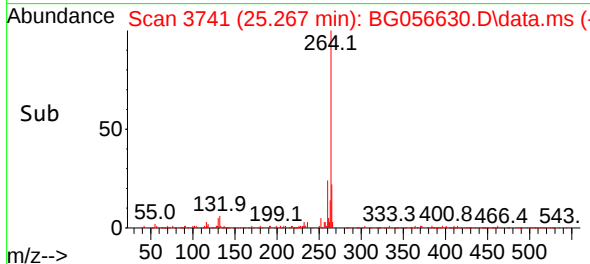
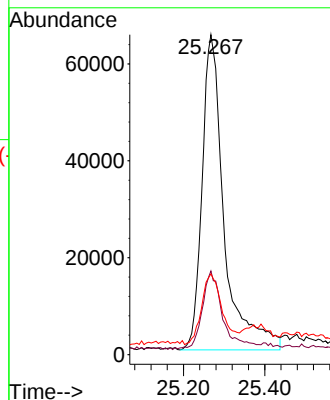
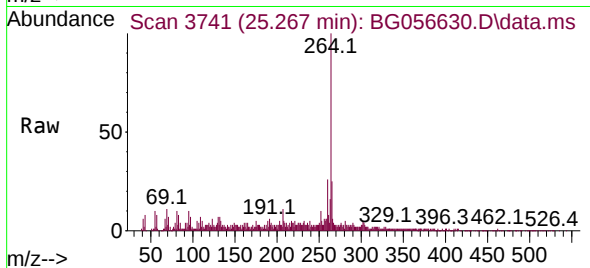
Tgt Ion:	264	Resp:	245989
Ion Ratio	Lower	Upper	
264	100		
260	26.1	18.2	27.4
265	25.2	18.1	27.1

Manual Integrations

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Reviewed By :Christian Giraldo 02/14/2023

Supervised By :Jagrut Upadhyay 02/14/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.252 ng

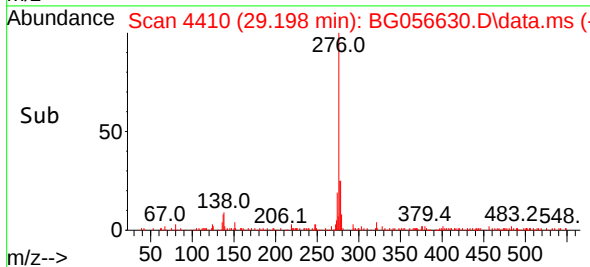
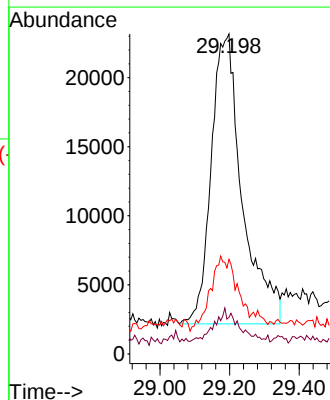
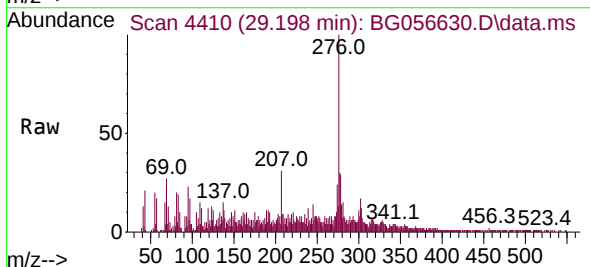
RT: 29.198 min Scan# 4410

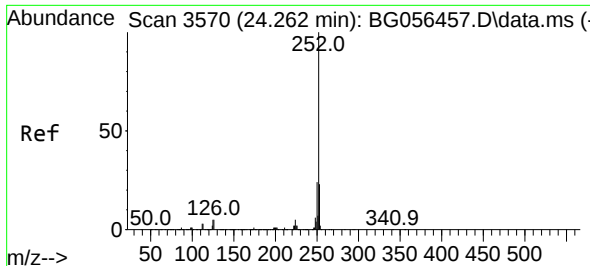
Delta R.T. 0.068 min

Lab File: BG056630.D

Acq: 13 Feb 2023 22:12

Tgt Ion:	276	Resp:	130584
Ion Ratio	Lower	Upper	
276	100		
138	5.0	9.4	14.2#
277	0.0	20.3	30.5#





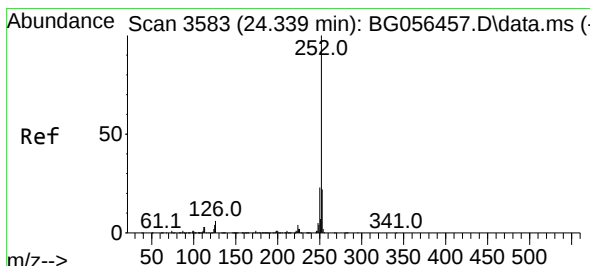
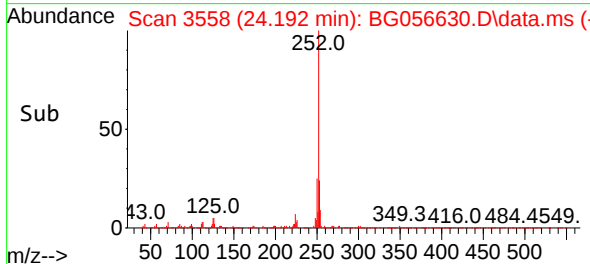
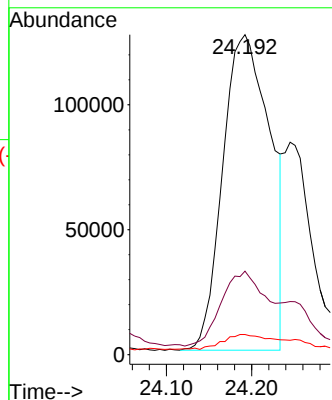
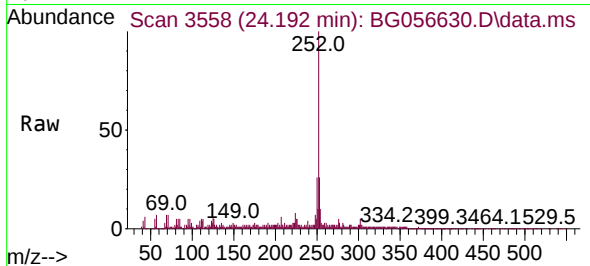
#88
Benzo(b)fluoranthene
Concen: 31.919 ng
RT: 24.192 min Scan# 3558
Delta R.T. 0.033 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Instrument :
BNA_G
ClientSampleId :
EO-03-021023

Tgt Ion:252 Resp: 487343
Ion Ratio Lower Upper
252 100
253 26.1 18.1 27.1
125 6.3 3.9 5.9

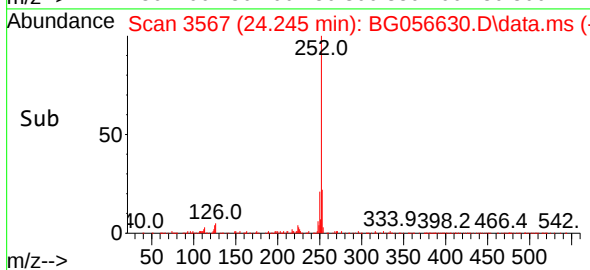
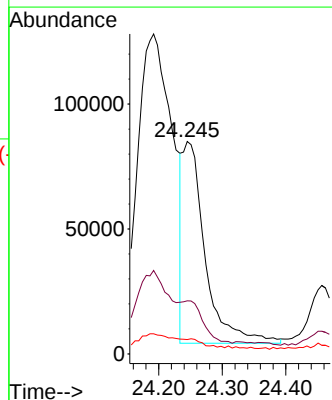
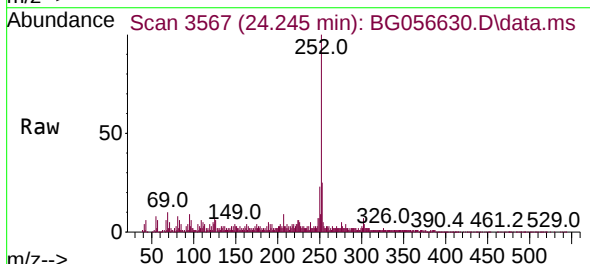
Manual Integrations
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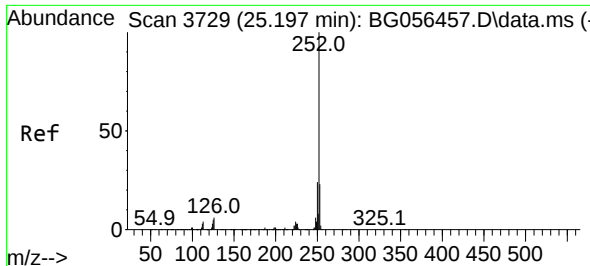
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#89
Benzo(k)fluoranthene
Concen: 12.895 ng m
RT: 24.245 min Scan# 3567
Delta R.T. 0.015 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Tgt Ion:252 Resp: 198780
Ion Ratio Lower Upper
252 100
253 25.0 17.5 26.3
125 6.8 3.4 5.0





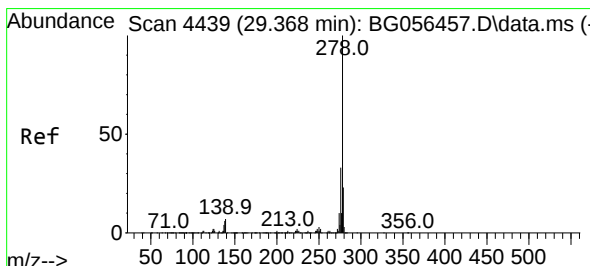
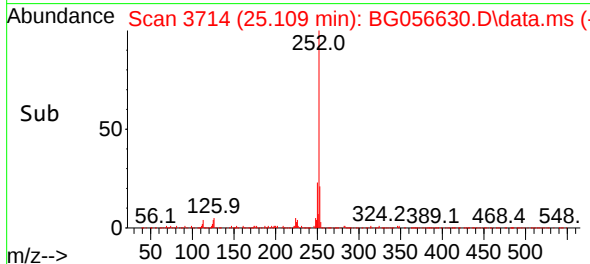
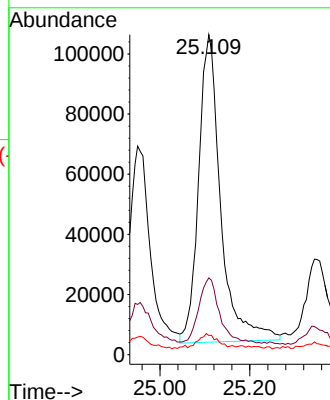
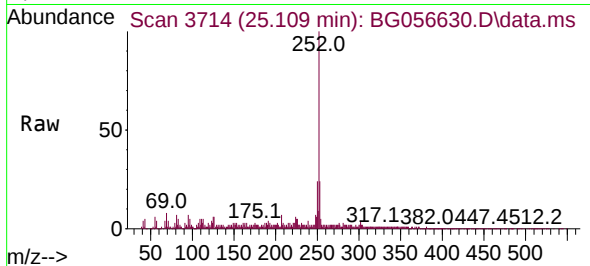
#90
Benzo(a)pyrene
Concen: 23.223 ng
RT: 25.109 min Scan# 31
Delta R.T. 0.027 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

Instrument :
BNA_G
ClientSampleId :
EO-03-021023

Tgt Ion:252 Resp: 349276
Ion Ratio Lower Upper
252 100
253 24.0 18.4 27.6
125 6.0 4.1 6.1

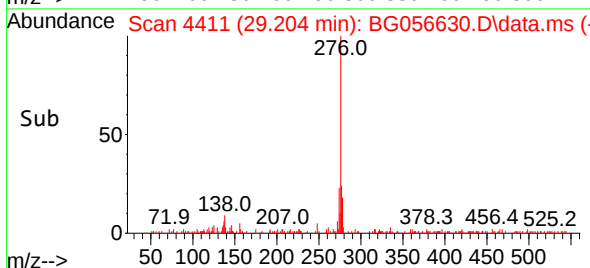
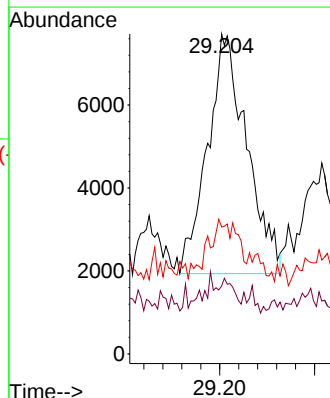
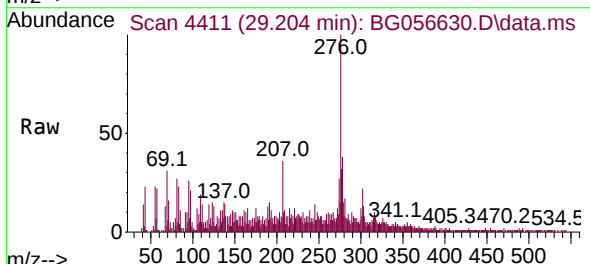
Manual Integrations
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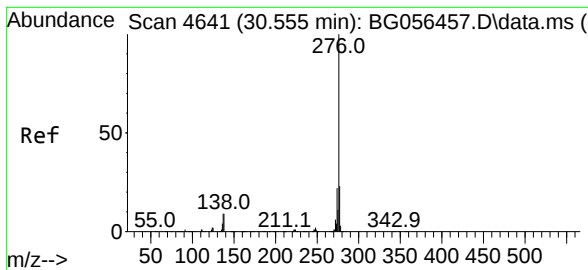
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#91
Dibenzo(a,h)anthracene
Concen: 2.204 ng
RT: 29.204 min Scan# 4411
Delta R.T. 0.021 min
Lab File: BG056630.D
Acq: 13 Feb 2023 22:12

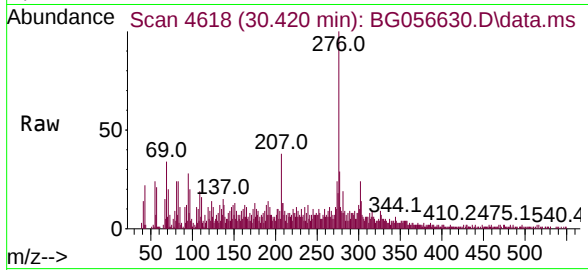
Tgt Ion:278 Resp: 33309
Ion Ratio Lower Upper
278 100
139 21.3 5.5 8.3#
279 39.6 18.8 28.2#





#92
 Benzo(g,h,i)perylene
 Concen: 7.214 ng m
 RT: 30.420 min Scan# 4618
 Delta R.T. 0.068 min
 Lab File: BG056630.D
 Acq: 13 Feb 2023 22:12

Instrument :
 BNA_G
 ClientSampleId :
 EO-03-021023



Tgt Ion: 276 Resp: 105210

Ion	Ratio	Lower	Upper
276	100		
277	28.6	18.5	27.7
138	12.2	7.4	11.0

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/14/2023
 Supervised By : Jagrut Upadhyay 02/14/2023

