

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG052522\
 Data File : BG053710.D
 Acq On : 26 May 2022 1:43
 Operator : CG/JU
 Sample : N3001-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 BU-03-052322

Quant Time: May 26 02:53:42 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG050522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 25 15:11:41 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 05/26/2022
 Supervised By : Jagrut Upadhyay 05/26/2022

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.987	152	31508	20.000	ng	0.00
21) Naphthalene-d8	10.801	136	120695	20.000	ng	0.00
39) Acenaphthene-d10	14.625	164	84849	20.000	ng	0.00
64) Phenanthrene-d10	17.374	188	171895	20.000	ng	0.00
76) Chrysene-d12	21.663	240	147056	20.000	ng	0.02
86) Perylene-d12	24.876	264	150877	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.555	112	186217	100.303	ng	0.00
7) Phenol-d6	7.165	99	279445	99.179	ng	0.00
23) Nitrobenzene-d5	9.156	82	200659	70.771	ng	0.00
42) 2,4,6-Tribromophenol	16.117	330	125818	100.540	ng	0.00
45) 2-Fluorobiphenyl	13.245	172	435086	74.931	ng	0.00
79) Terphenyl-d14	20.000	244	567898	71.924	ng	0.02
Target Compounds						Qvalue
31) Naphthalene	10.848	128	19660	3.202	ng	97
37) 2-Methylnaphthalene	12.452	142	14793	3.229	ng	100
38) 1-Methylnaphthalene	12.675	142	26071	5.832	ng	# 86
49) Acenaphthylene	14.355	152	19870	2.748	ng	# 90
52) Acenaphthene	14.690	154	51104	11.859	ng	97
55) Dibenzofuran	15.025	168	67919	8.775	ng	93
58) Fluorene	15.671	166	115991	18.674	ng	98
71) Phenanthrene	17.421	178	825593	94.456	ng	98
72) Anthracene	17.504	178	224606	26.144	ng	99
73) Carbazole	17.780	167	116563	13.844	ng	100
75) Fluoranthene	19.442	202	1146162	101.275	ng	96
78) Pyrene	19.806	202	1004913	105.562	ng	97
81) Benzo(a)anthracene	21.645	228	495885	52.869	ng	96
83) Chrysene	21.710	228	472119	53.894	ng	95
87) Indeno(1,2,3-cd)pyrene	28.559	276	250844	23.871	ng	# 92
88) Benzo(b)fluoranthene	23.866	252	648719	72.640	ng	100
89) Benzo(k)fluoranthene	23.918	252	198549m	22.625	ng	
90) Benzo(a)pyrene	24.729	252	494922	65.110	ng	98
91) Dibenzo(a,h)anthracene	28.577	278	57290	6.616	ng	# 88
92) Benzo(g,h,i)perylene	29.711	276	245744	28.632	ng	95

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

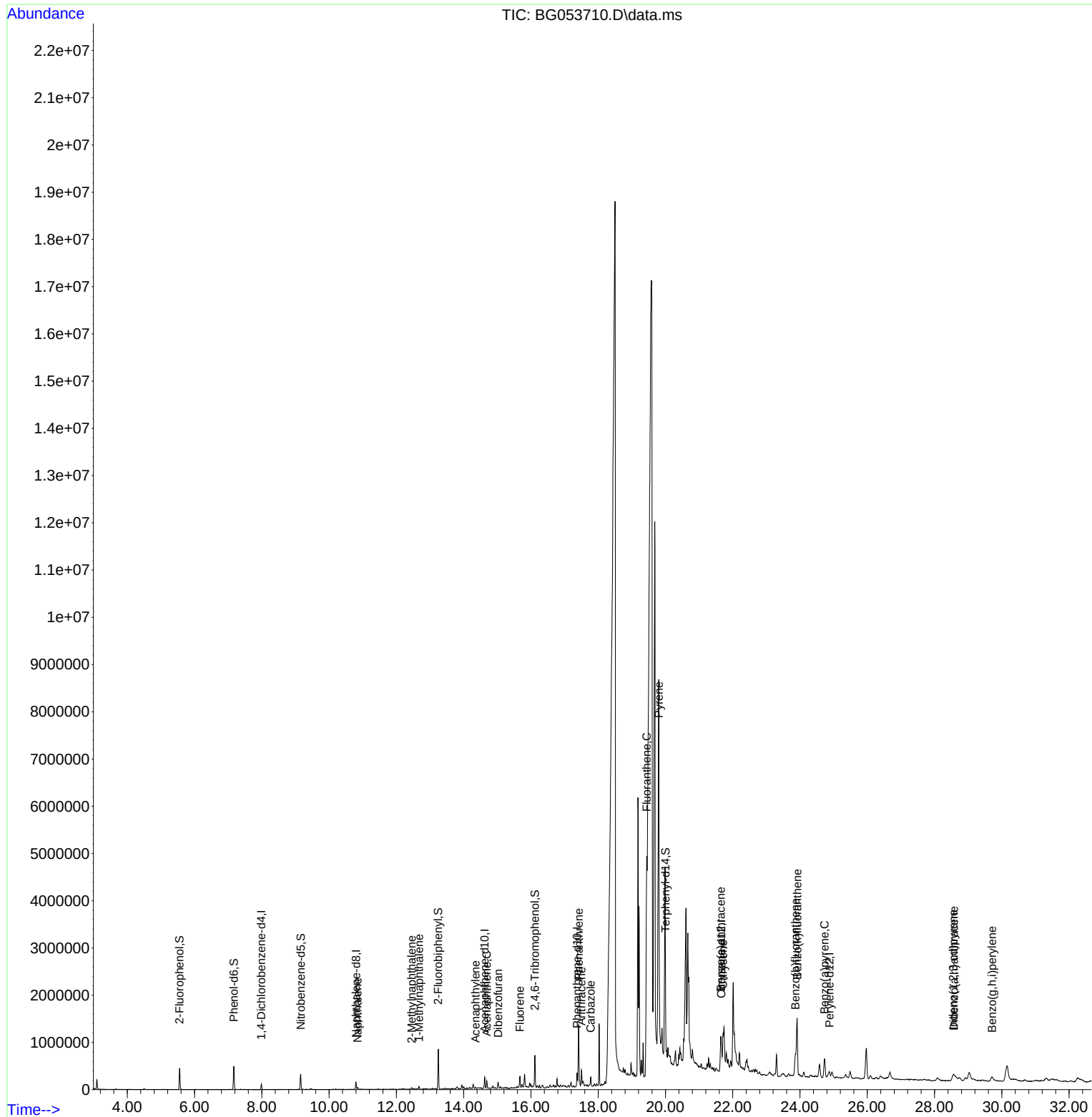
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG052522\
Data File : BG053710.D
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ALS Vial : 19 Sample Multiplier: 1

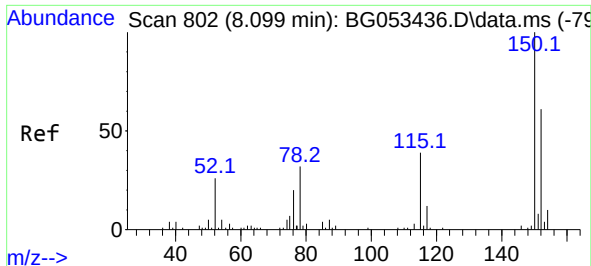
Instrument :
BNA_G
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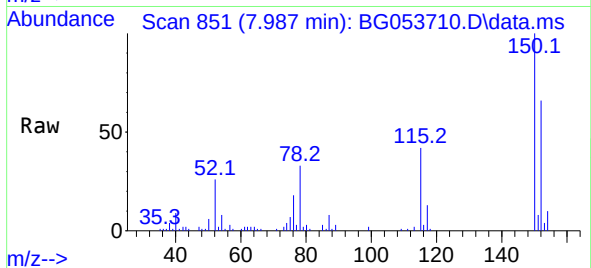
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1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.987 min Scan# 802
Delta R.T. 0.001 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

Instrument :

BNA_G

ClientSampleId :

BU-03-052322

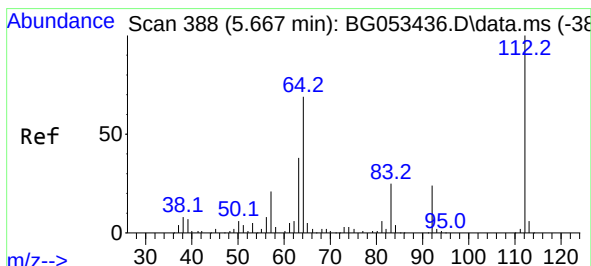
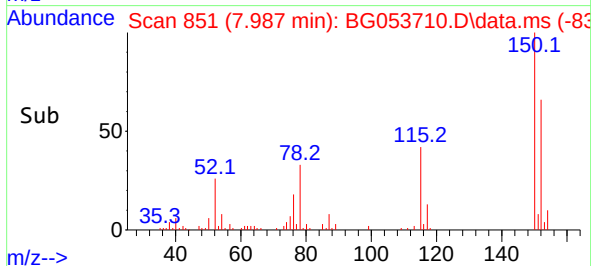
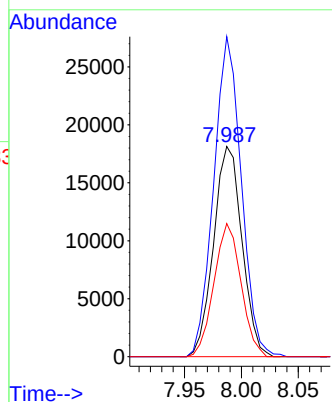


Tgt Ion:152 Resp: 31508
Ion Ratio Lower Upper
152 100
150 152.2 131.6 197.4
115 63.3 50.9 76.3

Manual Integrations

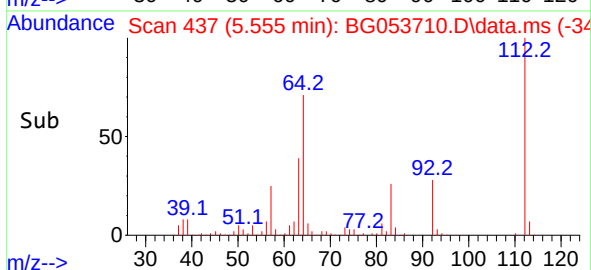
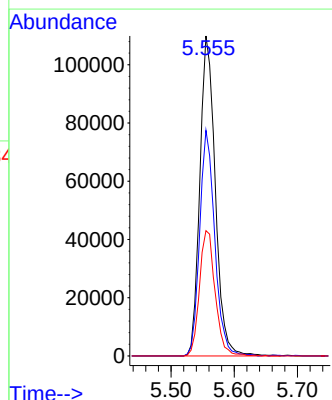
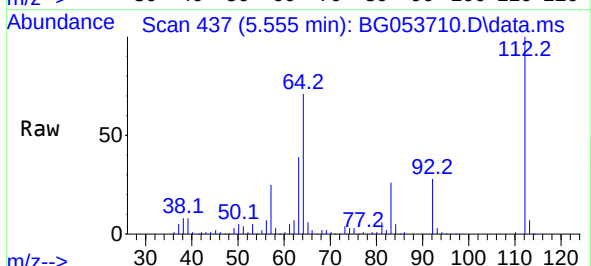
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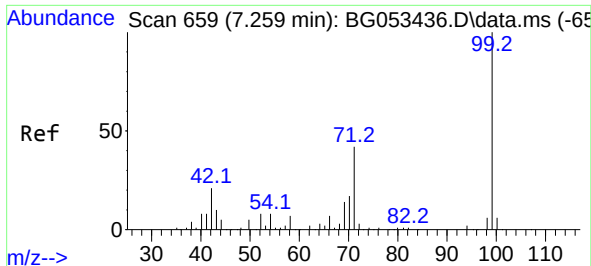
Reviewed By :Christian Giraldo 05/26/2022
Supervised By :Jagrut Upadhyay 05/26/2022



#5
2-Fluorophenol
Concen: 100.303 ng
RT: 5.555 min Scan# 437
Delta R.T. 0.001 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

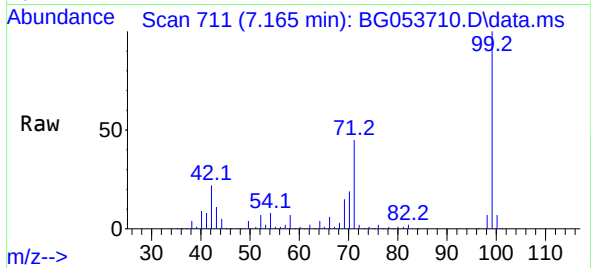
Tgt Ion:112 Resp: 186217
Ion Ratio Lower Upper
112 100
64 70.5 55.1 82.7
63 39.1 30.4 45.6





#7
Phenol-d6
Concen: 99.179 ng
RT: 7.165 min Scan# 71
Delta R.T. 0.001 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

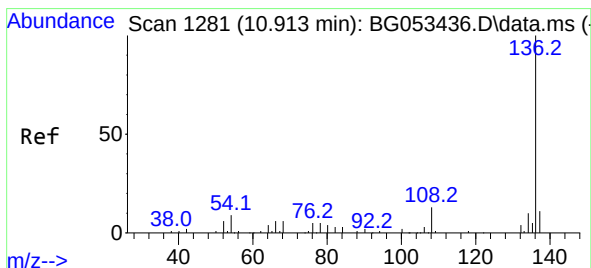
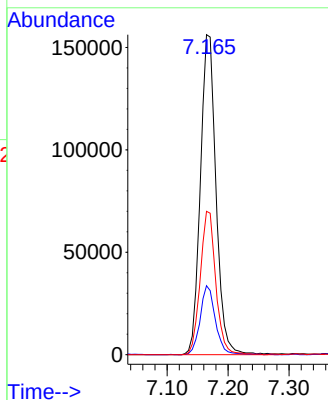
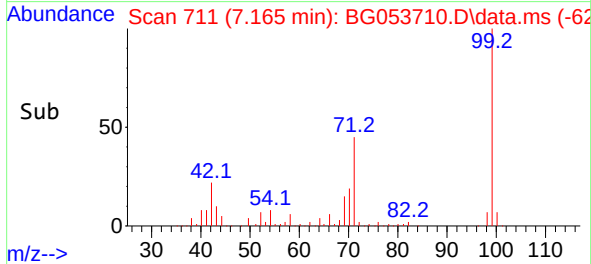
Instrument :
BNA_G
ClientSampleId :
BU-03-052322



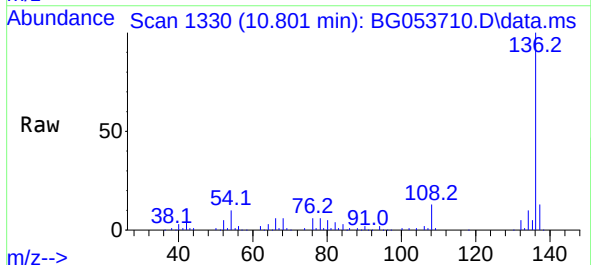
Tgt Ion: 99 Resp: 27944
Ion Ratio Lower Upper
99 100
42 21.6 17.0 25.6
71 44.8 33.8 50.8

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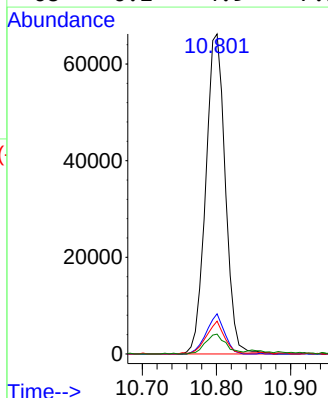
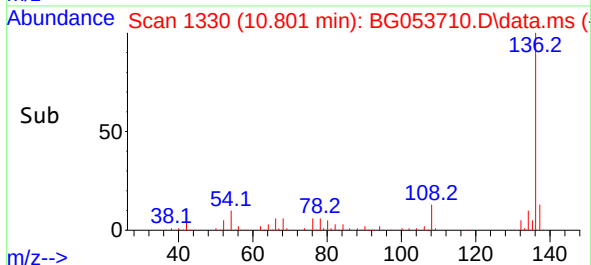
Reviewed By :Christian Giraldo 05/26/2022
Supervised By :Jagrut Upadhyay 05/26/2022

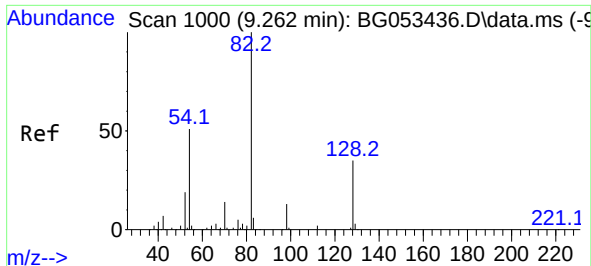


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.801 min Scan# 1330
Delta R.T. 0.001 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43



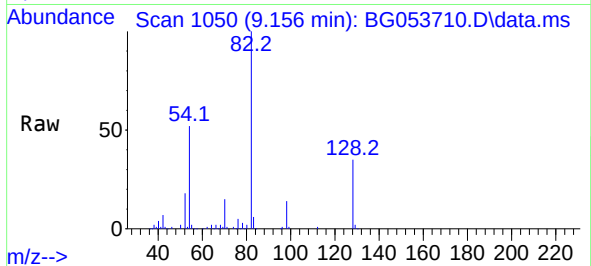
Tgt Ion:136 Resp: 120695
Ion Ratio Lower Upper
136 100
137 12.5 8.5 12.7
54 10.2 7.4 11.2
68 6.2 4.9 7.3





#23
Nitrobenzene-d5
Concen: 70.771 ng
RT: 9.156 min Scan# 1050
Delta R.T. 0.001 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

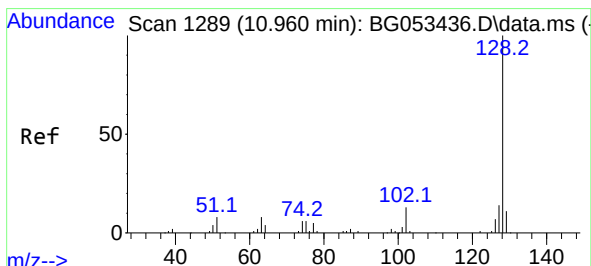
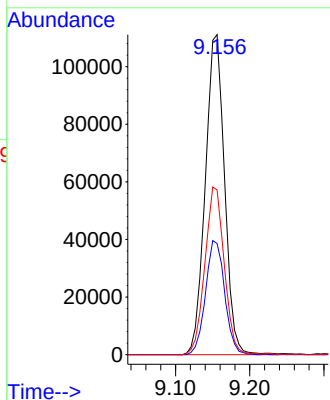
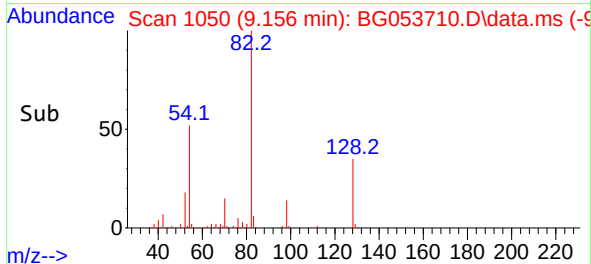
Instrument :
BNA_G
ClientSampleId :
BU-03-052322



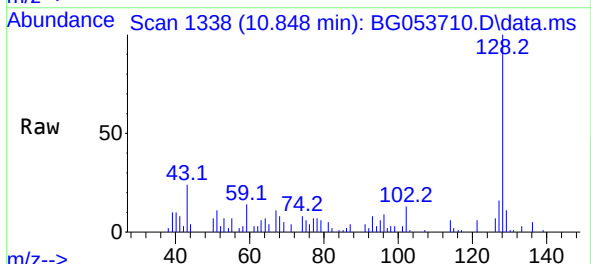
Tgt Ion: 82 Resp: 200659
Ion Ratio Lower Upper
82 100
128 34.7 27.9 41.9
54 51.5 41.2 61.8

Manual Integrations
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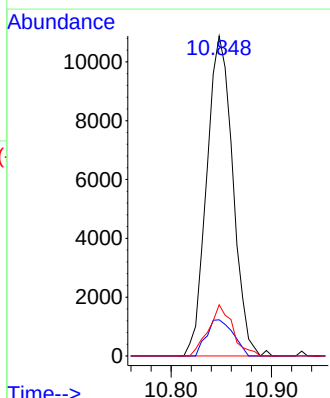
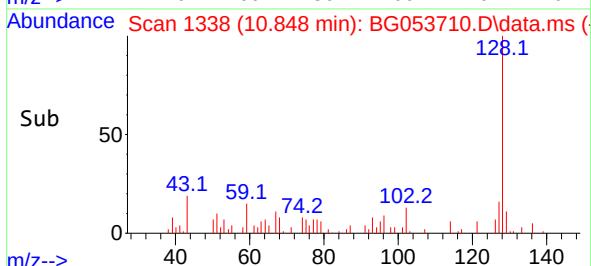
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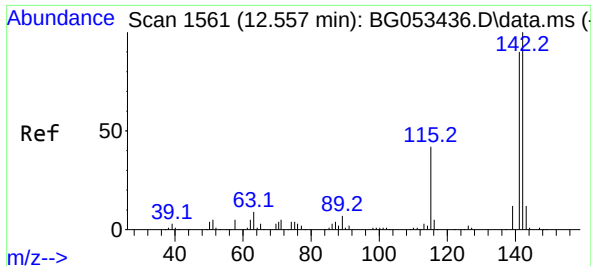


#31
Naphthalene
Concen: 3.202 ng
RT: 10.848 min Scan# 1338
Delta R.T. 0.001 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43



Tgt Ion:128 Resp: 19660
Ion Ratio Lower Upper
128 100
129 11.3 9.0 13.6
127 16.0 11.1 16.7





#37
2-Methylnaphthalene
Concen: 3.229 ng
RT: 12.452 min Scan# 1611
Delta R.T. -0.005 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

Instrument :

BNA_G

ClientSampleId :

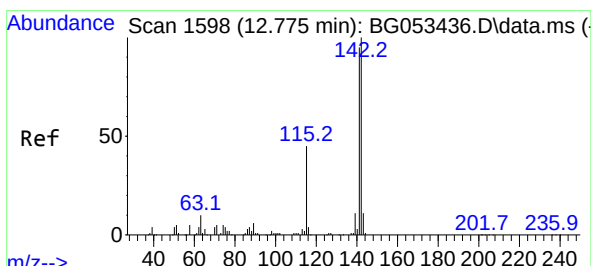
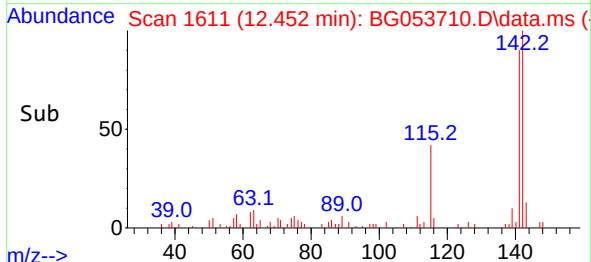
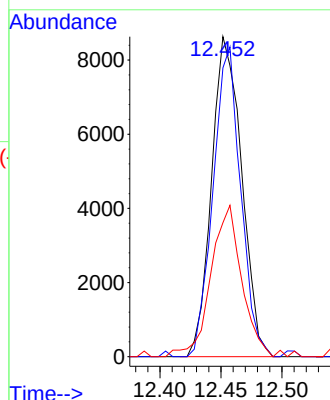
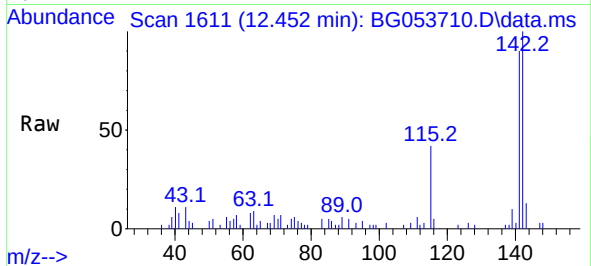
BU-03-052322

Tgt Ion:142 Resp: 1479
Ion Ratio Lower Upper
142 100
141 90.3 72.3 108.5
115 41.8 33.7 50.5

Manual Integrations

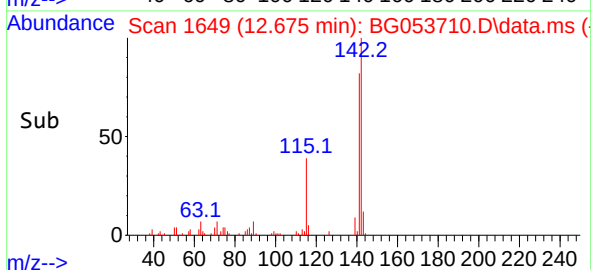
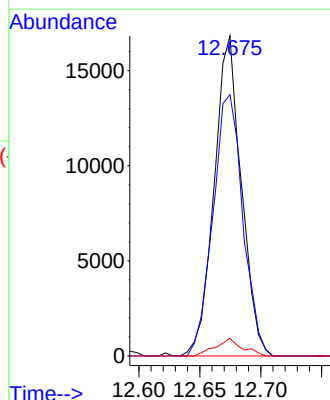
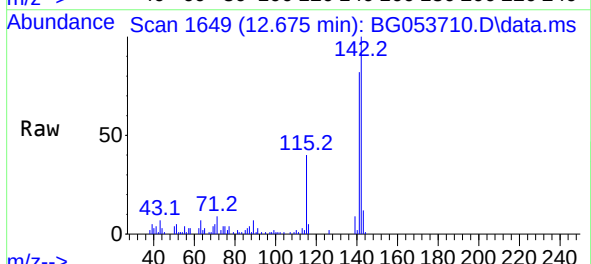
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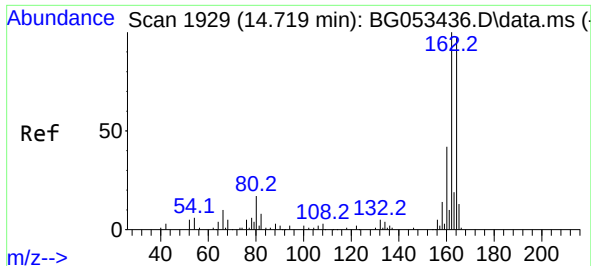
Reviewed By :Christian Giraldo 05/26/2022
Supervised By :Jagrut Upadhyay 05/26/2022



#38
1-Methylnaphthalene
Concen: 5.832 ng
RT: 12.675 min Scan# 1649
Delta R.T. 0.001 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

Tgt Ion:142 Resp: 26071
Ion Ratio Lower Upper
142 100
141 81.7 76.4 114.6
116 5.5 3.3 4.9#





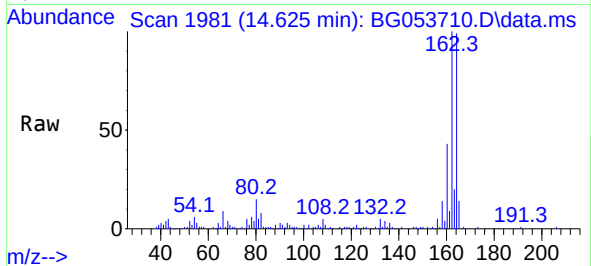
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.625 min Scan# 1981
Delta R.T. 0.001 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

Instrument :

BNA_G

ClientSampleId :

BU-03-052322

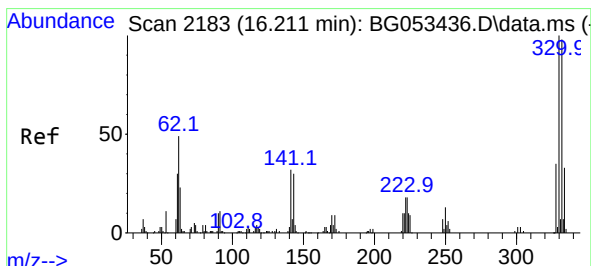
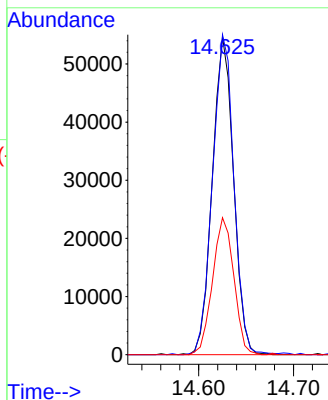
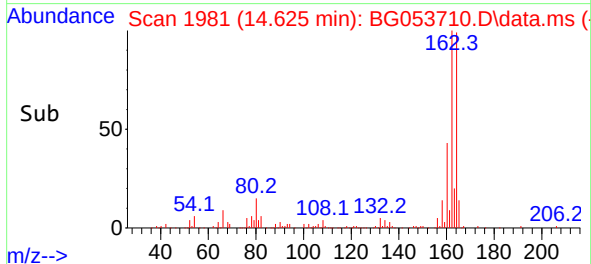


Tgt Ion:164 Resp: 84849
Ion Ratio Lower Upper
164 100
162 100.6 82.3 123.5
160 43.1 34.2 51.2

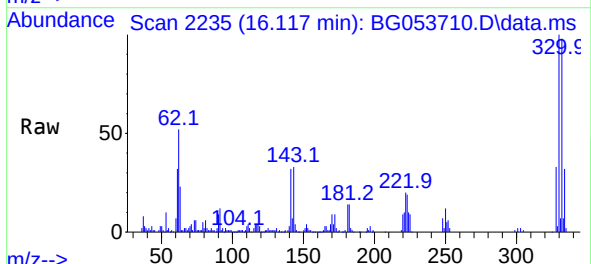
Manual Integrations

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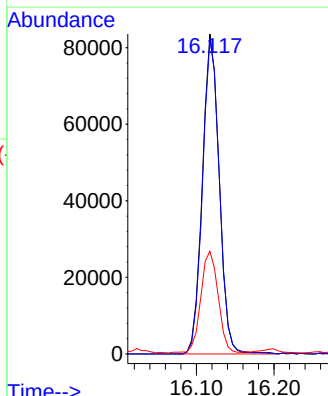
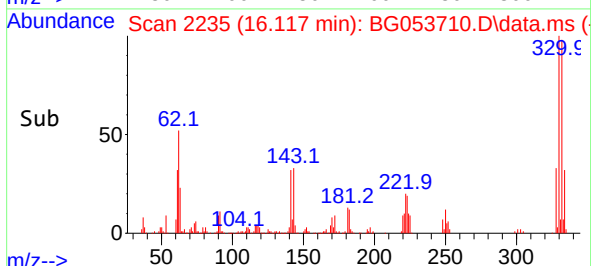
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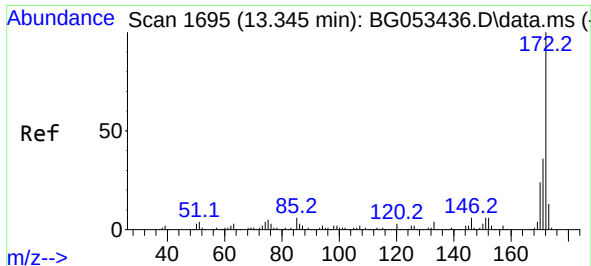


#42
2,4,6-Tribromophenol
Concen: 100.540 ng
RT: 16.117 min Scan# 2235
Delta R.T. 0.001 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43



Tgt Ion:330 Resp: 125818
Ion Ratio Lower Upper
330 100
332 98.6 76.0 114.0
141 32.7 27.1 40.7





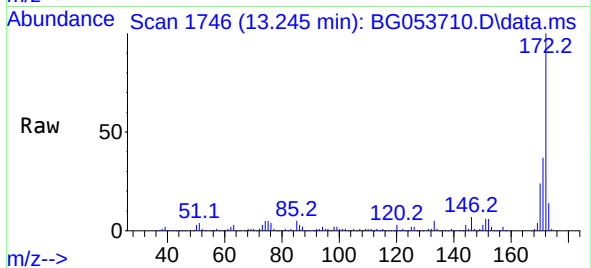
#45
2-Fluorobiphenyl
Concen: 74.931 ng
RT: 13.245 min Scan# 11
Delta R.T. 0.001 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

Instrument :

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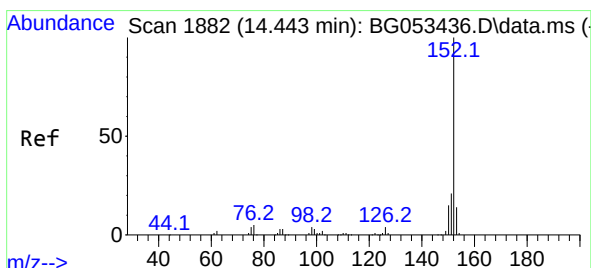
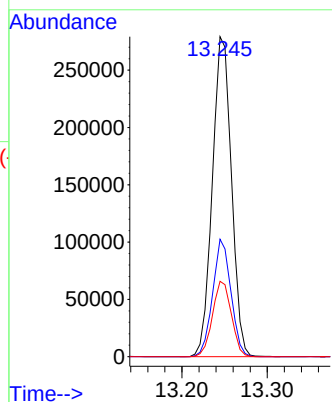
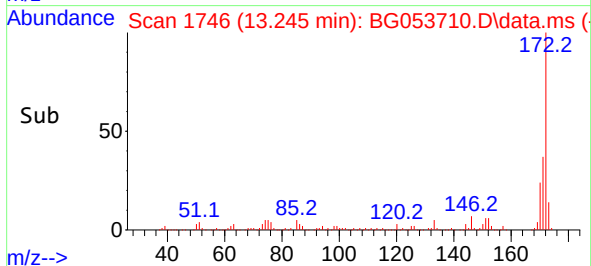


Tgt Ion:172 Resp: 435080
Ion Ratio Lower Upper
172 100
171 36.7 28.5 42.7
170 23.6 18.9 28.3

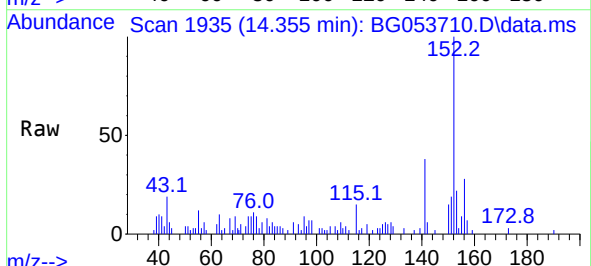
Manual Integrations

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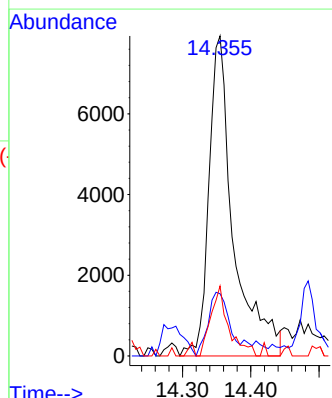
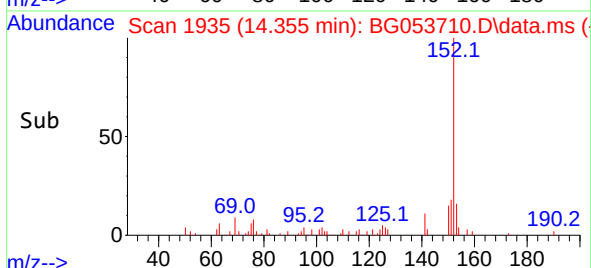
Reviewed By :Christian Giraldo 05/26/2022
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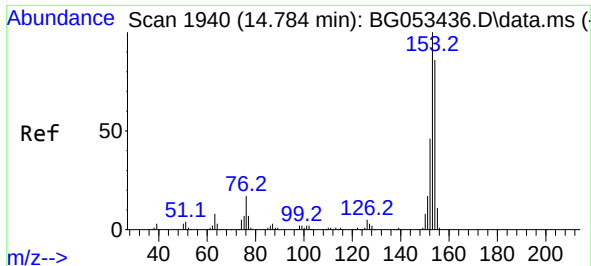


#49
Acenaphthylene
Concen: 2.748 ng
RT: 14.355 min Scan# 1935
Delta R.T. 0.007 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43



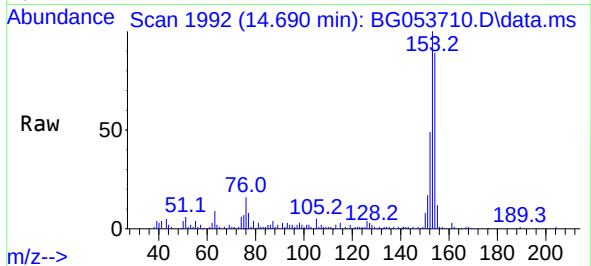
Tgt Ion:152 Resp: 19870
Ion Ratio Lower Upper
152 100
151 19.4 16.4 24.6
153 21.9 10.8 16.2#





#52
Acenaphthene
Concen: 11.859 ng
RT: 14.690 min Scan# 1992
Delta R.T. 0.001 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

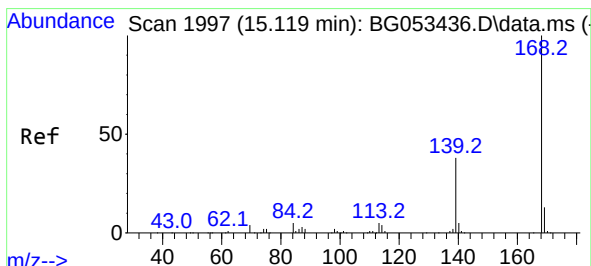
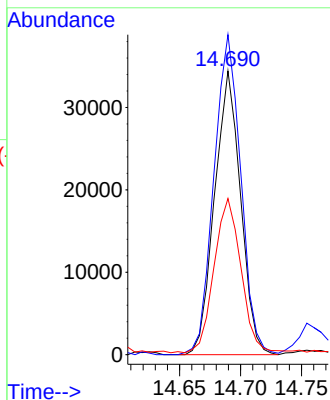
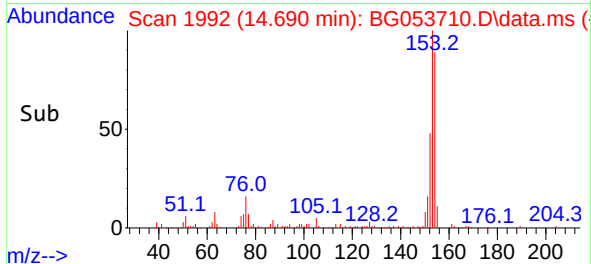
Instrument :
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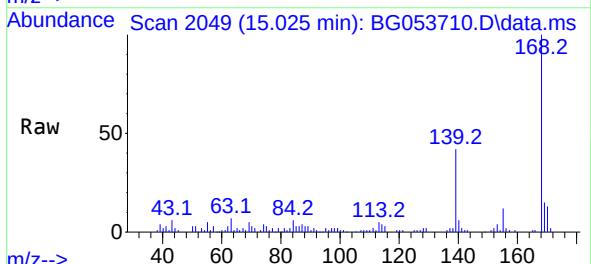
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Ion Ratio Lower Upper
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153 112.8 92.7 139.1
152 55.1 42.6 64.0

Manual Integrations
APPROVED

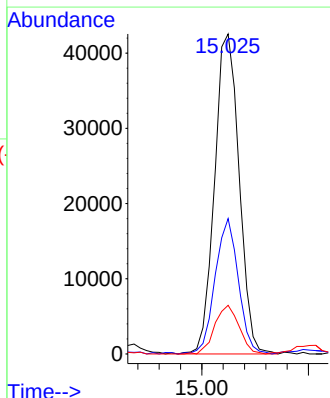
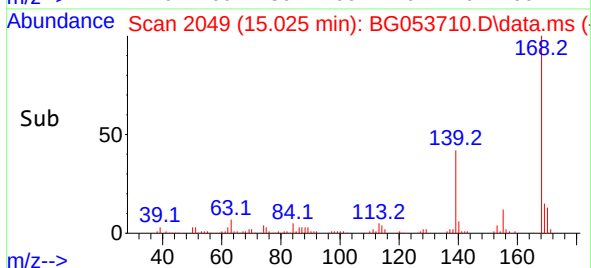
Reviewed By :Christian Giraldo 05/26/2022
Supervised By :Jagrut Upadhyay 05/26/2022

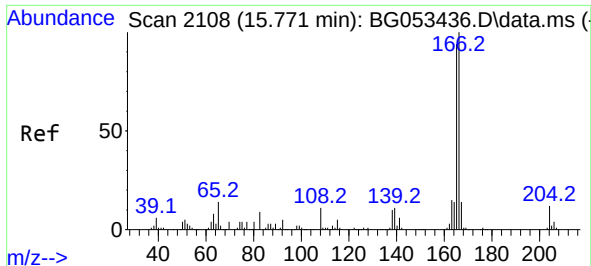


#55
Dibenzofuran
Concen: 8.775 ng
RT: 15.025 min Scan# 2049
Delta R.T. 0.001 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43



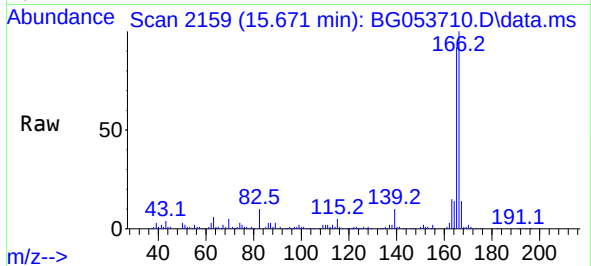
Tgt Ion:168 Resp: 67919
Ion Ratio Lower Upper
168 100
139 42.3 30.5 45.7
169 15.2 10.3 15.5





#58
Fluorene
Concen: 18.674 ng
RT: 15.671 min Scan# 2108
Delta R.T. -0.005 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

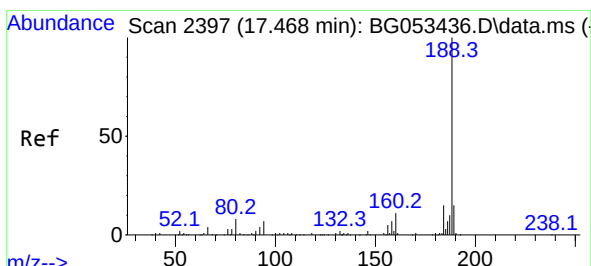
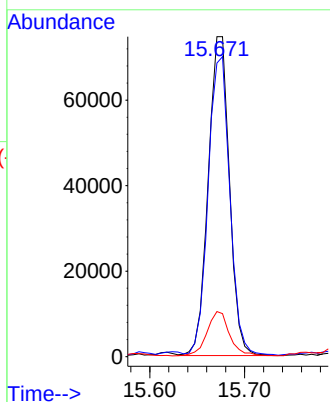
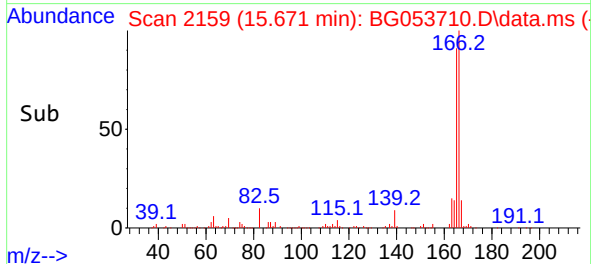
Instrument :
BNA_G
ClientSampleId :
BU-03-052322



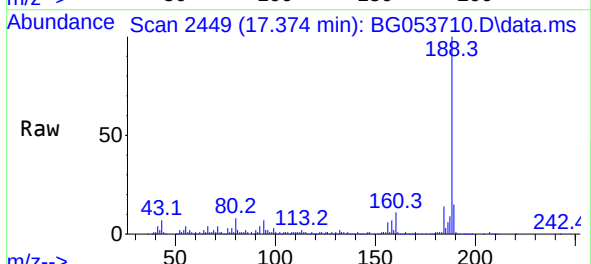
Tgt Ion:166 Resp: 11599
Ion Ratio Lower Upper
166 100
165 91.8 75.0 112.6
167 14.1 10.8 16.2

Manual Integrations
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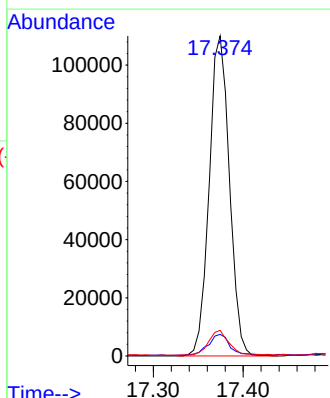
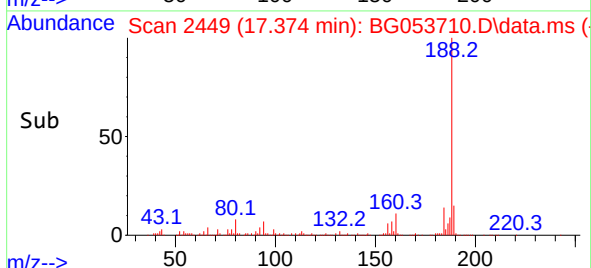
Reviewed By :Christian Giraldo 05/26/2022
Supervised By :Jagrut Upadhyay 05/26/2022

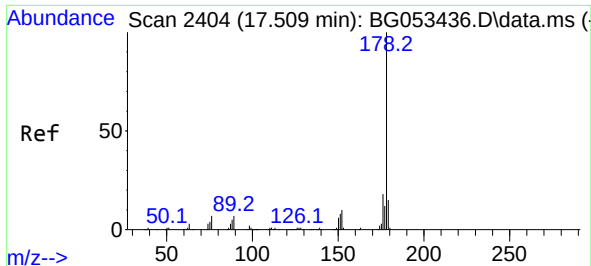


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.374 min Scan# 2449
Delta R.T. 0.001 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43



Tgt Ion:188 Resp: 171895
Ion Ratio Lower Upper
188 100
94 6.8 5.4 8.0
80 8.0 6.8 10.2





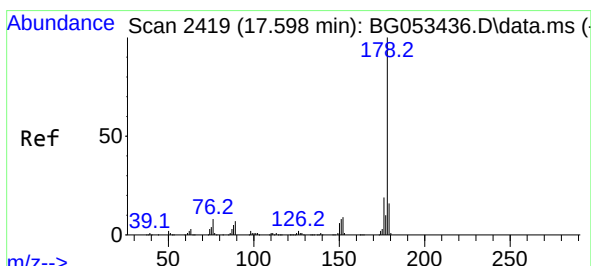
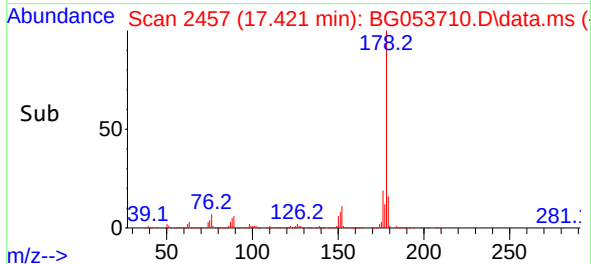
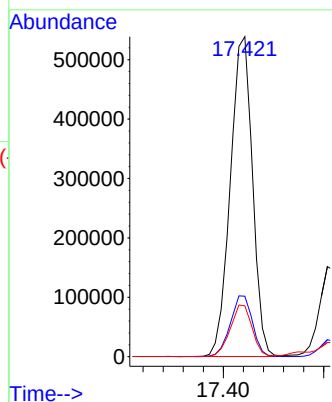
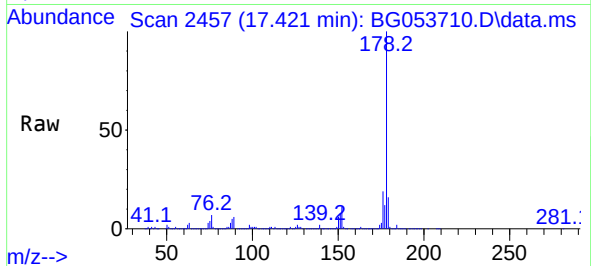
#71
Phenanthrene
Concen: 94.456 ng
RT: 17.421 min Scan# 2404
Delta R.T. 0.007 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

Instrument :
BNA_G
ClientSampleId :
BU-03-052322

Tgt Ion:178 Resp: 82559
Ion Ratio Lower Upper
178 100
176 18.9 14.1 21.1
179 15.9 12.1 18.1

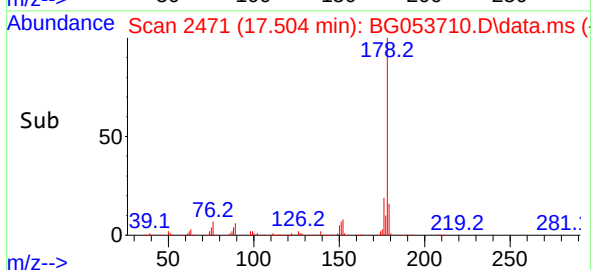
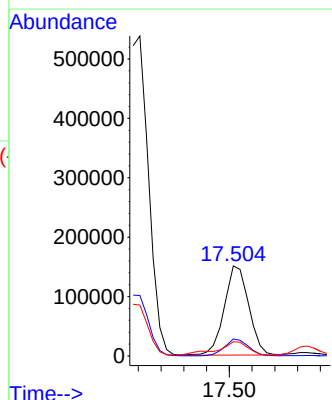
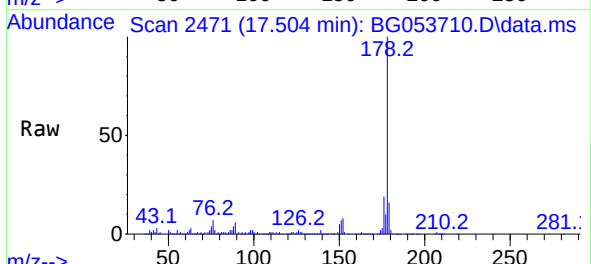
Manual Integrations
APPROVED

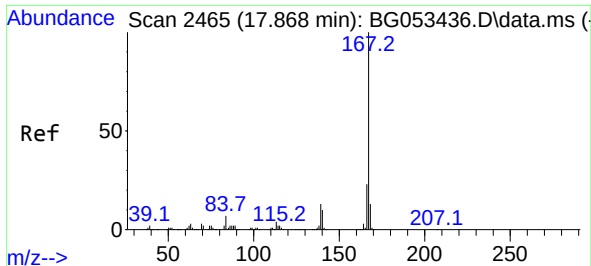
Reviewed By :Christian Giraldo 05/26/2022
Supervised By :Jagrut Upadhyay 05/26/2022



#72
Anthracene
Concen: 26.144 ng
RT: 17.504 min Scan# 2471
Delta R.T. 0.001 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

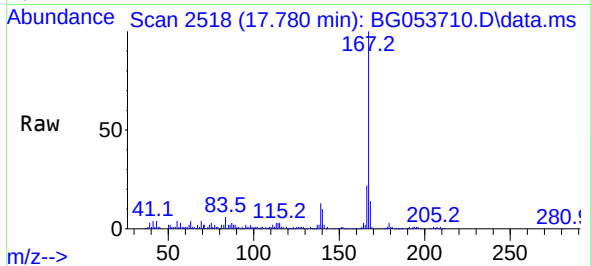
Tgt Ion:178 Resp: 224606
Ion Ratio Lower Upper
178 100
176 18.9 15.2 22.8
179 15.9 13.0 19.4





#73
 Carbazole
 Concen: 13.844 ng
 RT: 17.780 min Scan# 21
 Delta R.T. 0.001 min
 Lab File: BG053710.D
 Acq: 26 May 2022 1:43

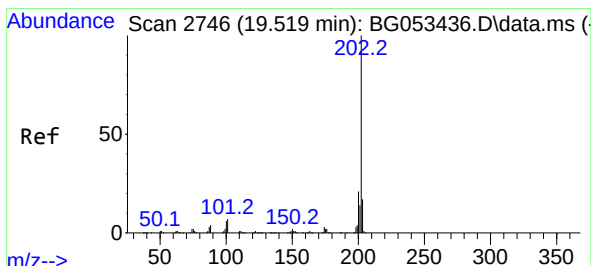
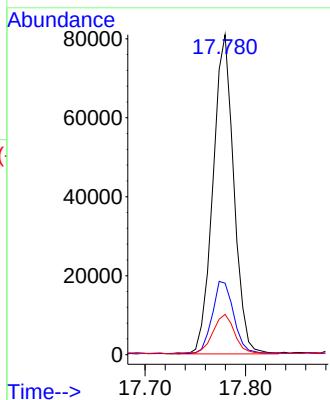
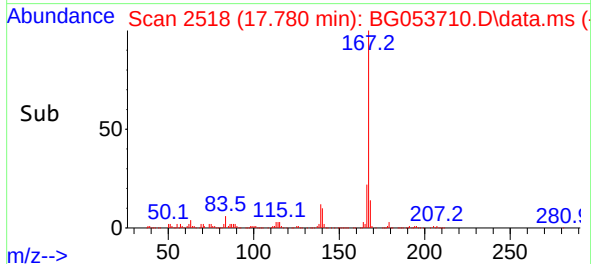
Instrument :
 BNA_G
 ClientSampleId :
 BU-03-052322



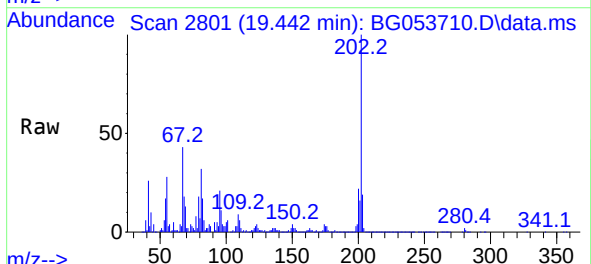
Tgt Ion:167 Resp: 11656
 Ion Ratio Lower Upper
 167 100
 166 22.4 18.2 27.2
 139 12.6 10.1 15.1

Manual Integrations
 APPROVED

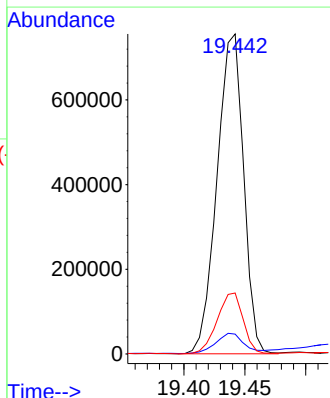
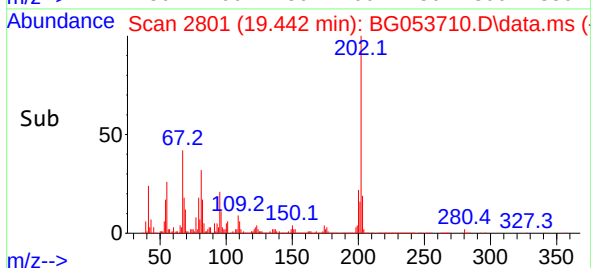
Reviewed By :Christian Giraldo 05/26/2022
 Supervised By :Jagrut Upadhyay 05/26/2022

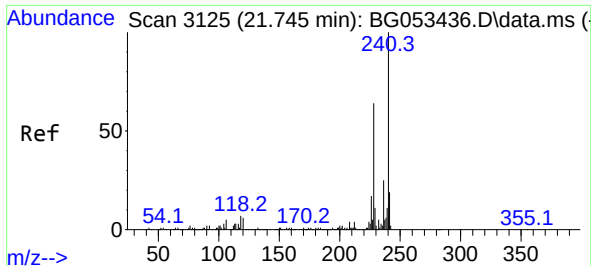


#75
 Fluoranthene
 Concen: 101.275 ng
 RT: 19.442 min Scan# 2801
 Delta R.T. 0.018 min
 Lab File: BG053710.D
 Acq: 26 May 2022 1:43



Tgt Ion:202 Resp: 1146162
 Ion Ratio Lower Upper
 202 100
 101 6.2 0.0 26.9
 203 19.1 0.0 37.2





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.663 min Scan# 3125
Delta R.T. 0.024 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

Instrument :

BNA_G

ClientSampleId :

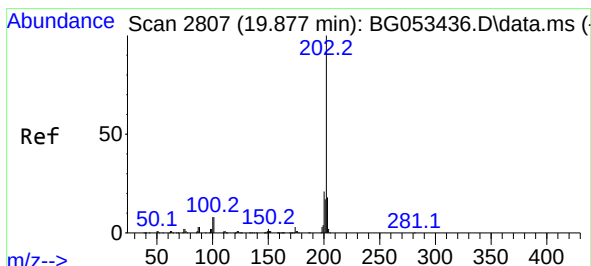
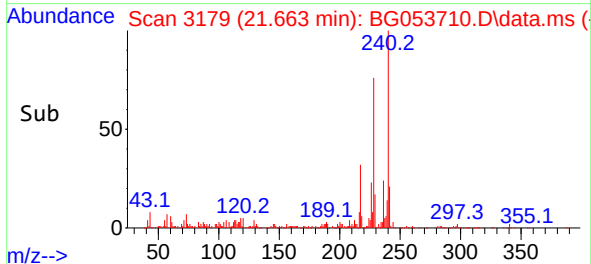
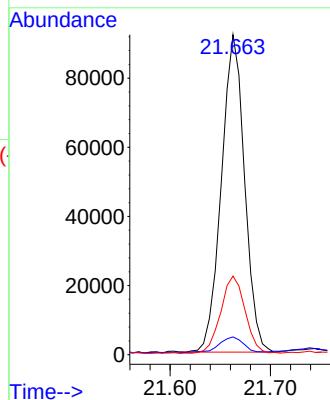
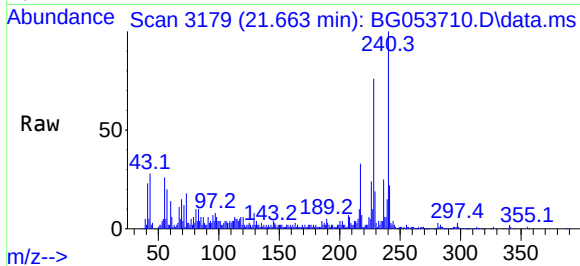
BU-03-052322

Tgt Ion:240 Resp: 147050
Ion Ratio Lower Upper
240 100
120 5.5 4.6 7.0
236 24.6 20.2 30.4

Manual Integrations

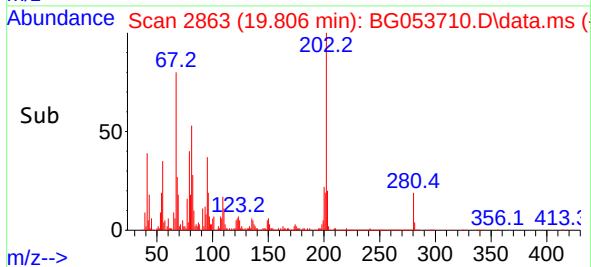
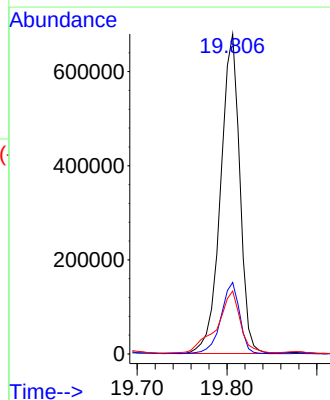
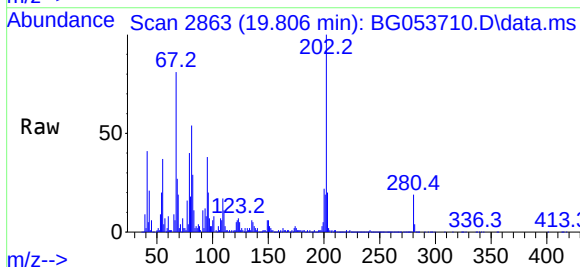
APPROVED

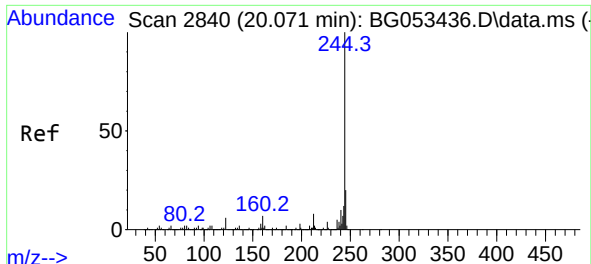
Reviewed By :Christian Giraldo 05/26/2022
Supervised By :Jagrut Upadhyay 05/26/2022



#78
Pyrene
Concen: 105.562 ng
RT: 19.806 min Scan# 2863
Delta R.T. 0.018 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

Tgt Ion:202 Resp: 1004913
Ion Ratio Lower Upper
202 100
200 22.3 16.6 24.8
203 19.7 14.6 21.8





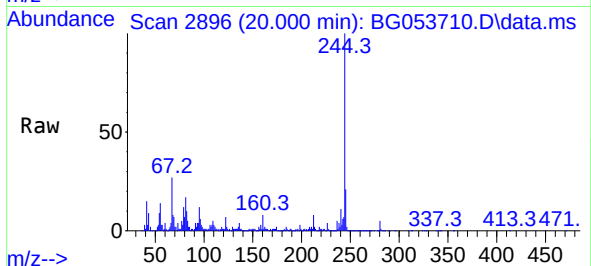
#79
Terphenyl-d14
Concen: 71.924 ng
RT: 20.000 min Scan# 21
Delta R.T. 0.024 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

Instrument :

BNA_G

ClientSampleId :

BU-03-052322

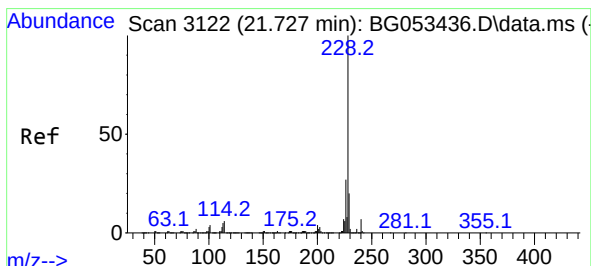
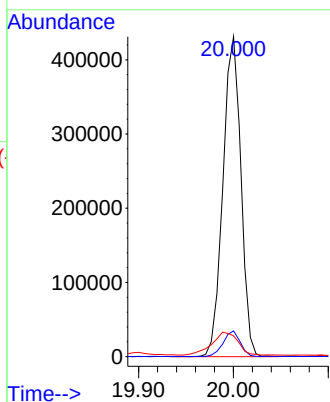
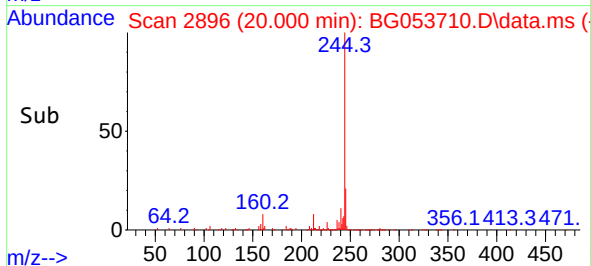


Tgt Ion:244 Resp: 567898
Ion Ratio Lower Upper
244 100
212 8.1 6.5 9.7
122 6.5 5.0 7.4

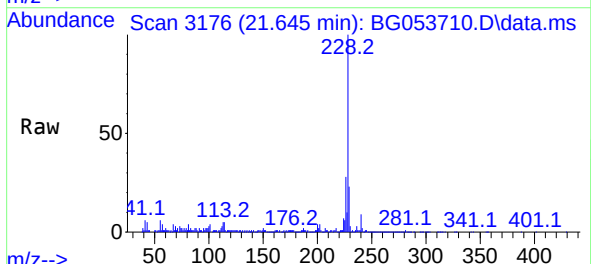
Manual Integrations

APPROVED

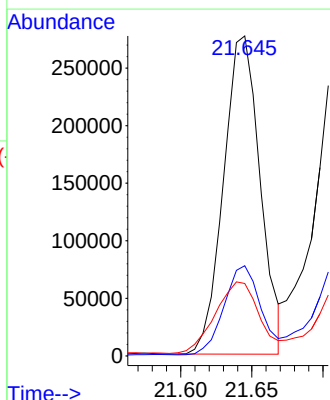
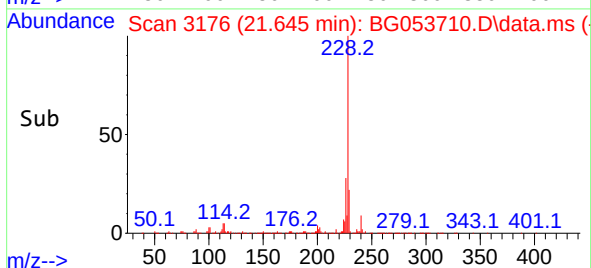
Reviewed By :Christian Giraldo 05/26/2022
Supervised By :Jagrut Upadhyay 05/26/2022

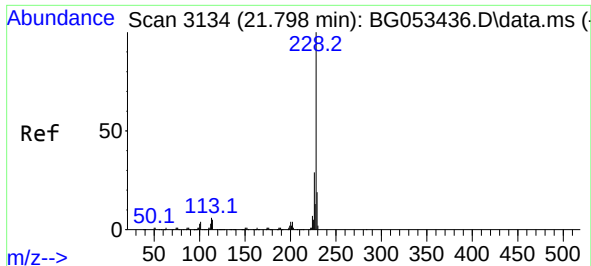


#81
Benzo(a)anthracene
Concen: 52.869 ng
RT: 21.645 min Scan# 3176
Delta R.T. 0.030 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43



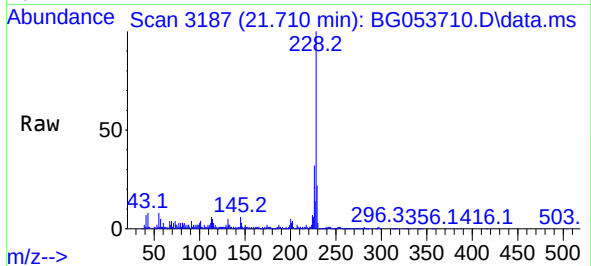
Tgt Ion:228 Resp: 495885
Ion Ratio Lower Upper
228 100
226 28.2 21.6 32.4
229 22.7 16.2 24.2





#83
Chrysene
Concen: 53.894 ng
RT: 21.710 min Scan# 3134
Delta R.T. 0.024 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

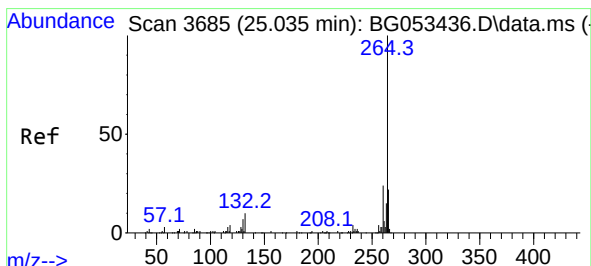
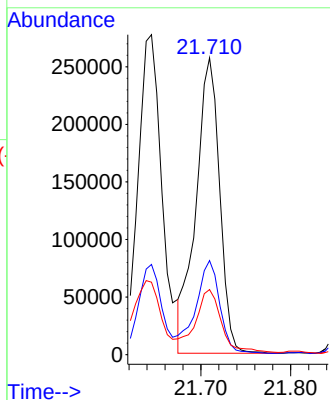
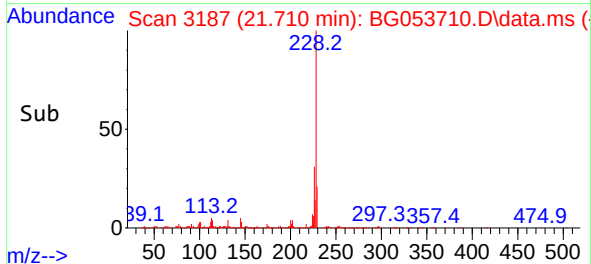
Instrument :
BNA_G
ClientSampleId :
BU-03-052322



Tgt Ion:228 Resp: 472119
Ion Ratio Lower Upper
228 100
226 31.7 23.4 35.2
229 21.9 15.5 23.3

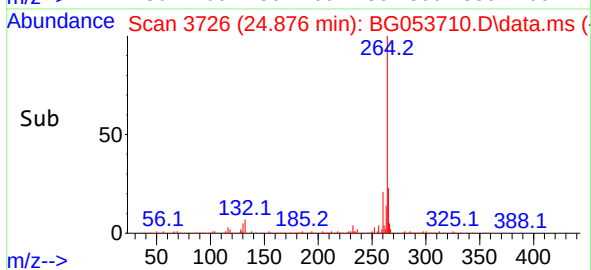
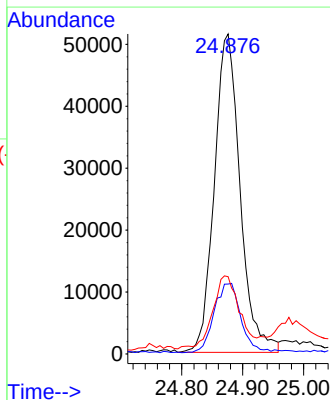
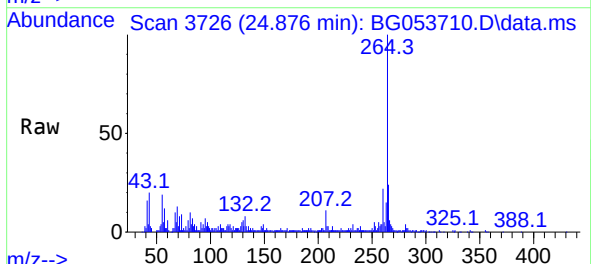
Manual Integrations
APPROVED

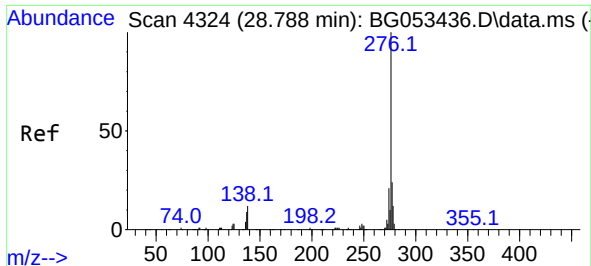
Reviewed By :Christian Giraldo 05/26/2022
Supervised By :Jagrut Upadhyay 05/26/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.876 min Scan# 3726
Delta R.T. 0.036 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

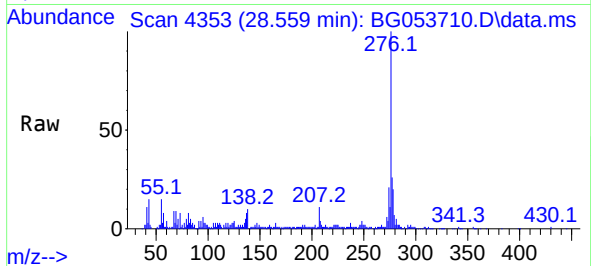
Tgt Ion:264 Resp: 150877
Ion Ratio Lower Upper
264 100
260 21.9 19.0 28.6
265 24.2 17.4 26.2





#87
Indeno(1,2,3-cd)pyrene
Concen: 23.871 ng
RT: 28.559 min Scan# 41
Delta R.T. 0.048 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

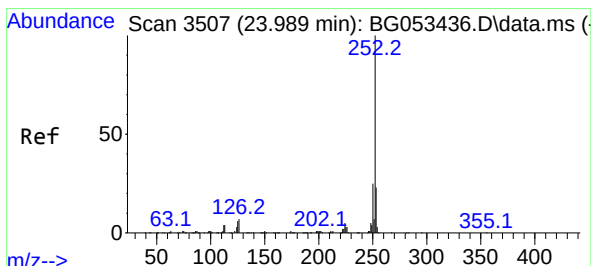
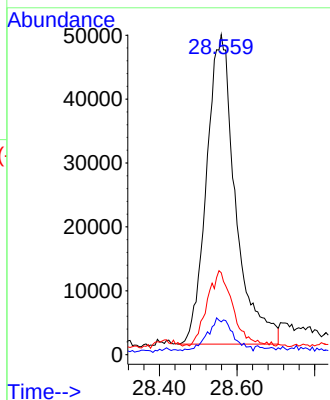
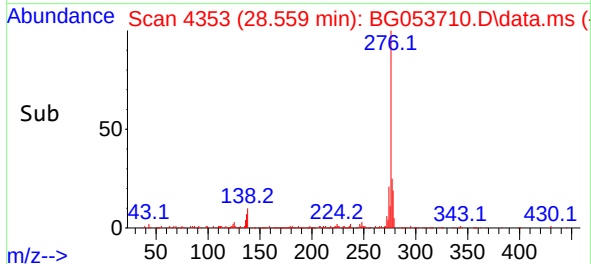
Instrument :
BNA_G
ClientSampleId :
BU-03-052322



Tgt Ion:276 Resp: 25084
Ion Ratio Lower Upper
276 100
138 9.4 5.0 7.4
277 21.4 20.3 30.5

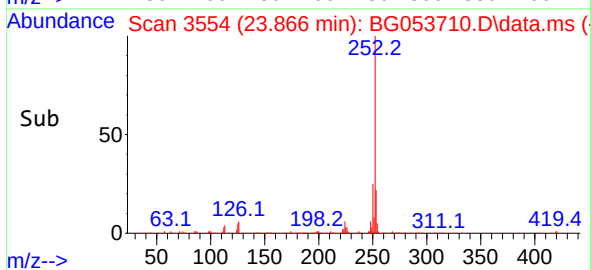
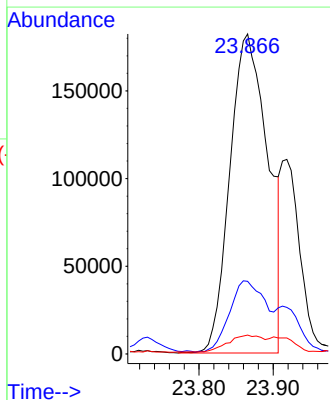
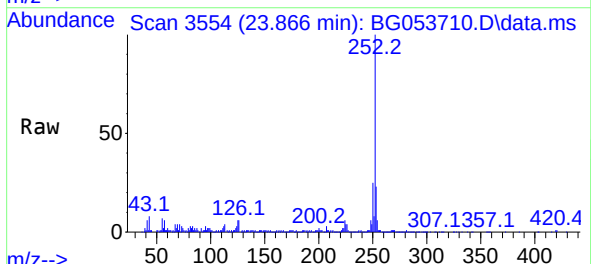
Manual Integrations
APPROVED

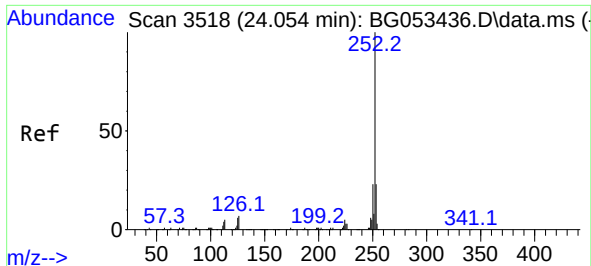
Reviewed By :Christian Giraldo 05/26/2022
Supervised By :Jagrut Upadhyay 05/26/2022



#88
Benzo(b)fluoranthene
Concen: 72.640 ng
RT: 23.866 min Scan# 3554
Delta R.T. 0.042 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

Tgt Ion:252 Resp: 648719
Ion Ratio Lower Upper
252 100
253 22.7 18.0 27.0
125 5.9 4.6 6.8





#89

Benzo(k)fluoranthene

Concen: 22.625 ng m

RT: 23.918 min Scan# 3

Delta R.T. 0.030 min

Lab File: BG053710.D

Acq: 26 May 2022 1:43

Instrument :

BNA_G

ClientSampleId :

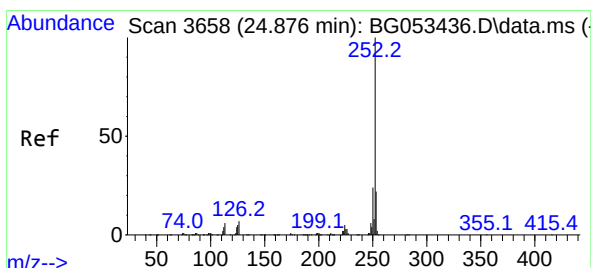
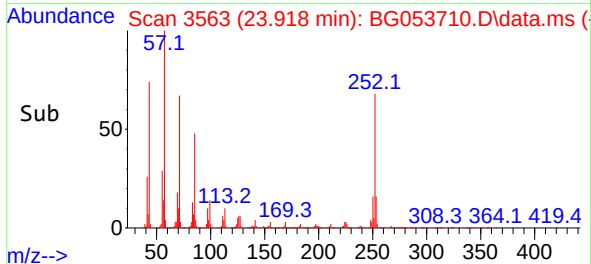
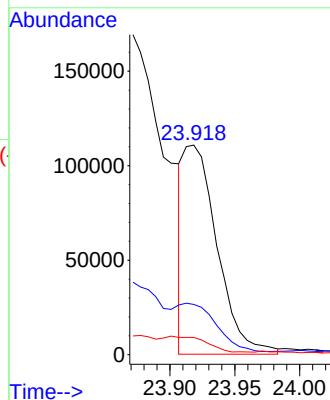
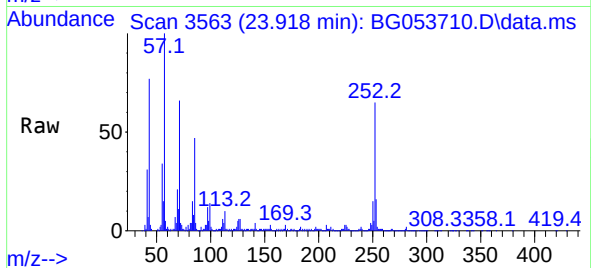
BU-03-052322

Tgt Ion:252 Resp: 198549
 Ion Ratio Lower Upper
 252 100
 253 24.0 18.4 27.6
 125 8.2 4.8 7.2

Manual Integrations

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Reviewed By :Christian Giraldo 05/26/2022
 Supervised By :Jagrut Upadhyay 05/26/2022



#90

Benzo(a)pyrene

Concen: 65.110 ng

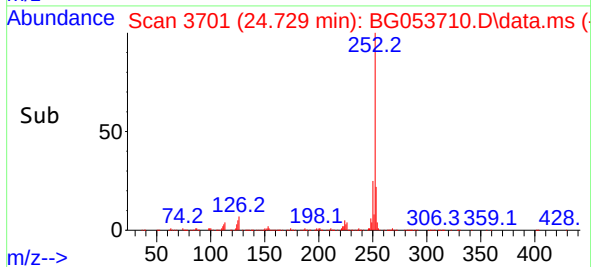
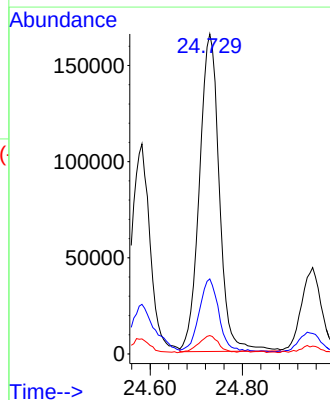
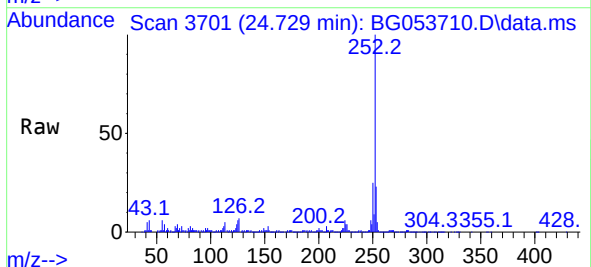
RT: 24.729 min Scan# 3701

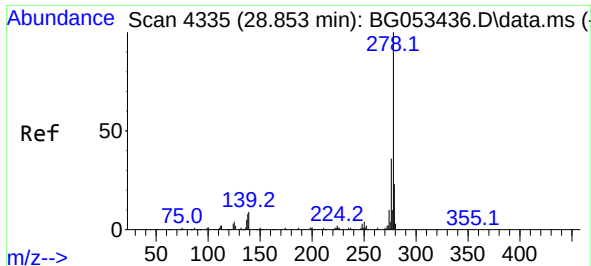
Delta R.T. 0.042 min

Lab File: BG053710.D

Acq: 26 May 2022 1:43

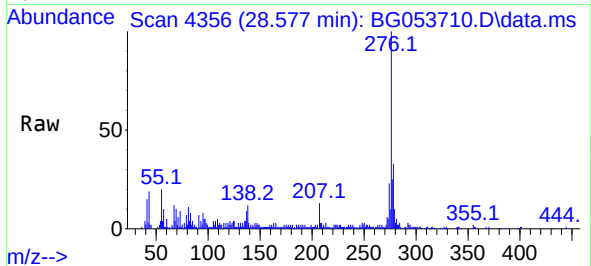
Tgt Ion:252 Resp: 494922
 Ion Ratio Lower Upper
 252 100
 253 23.4 17.8 26.8
 125 5.8 4.3 6.5





#91
Dibenzo(a,h)anthracene
Concen: 6.616 ng
RT: 28.577 min Scan# 41
Delta R.T. 0.024 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43

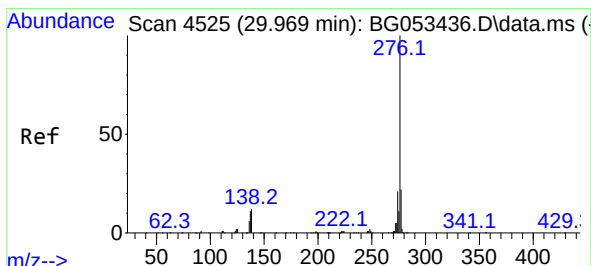
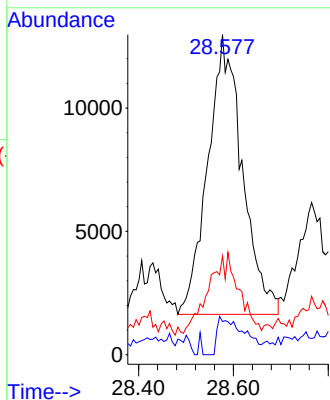
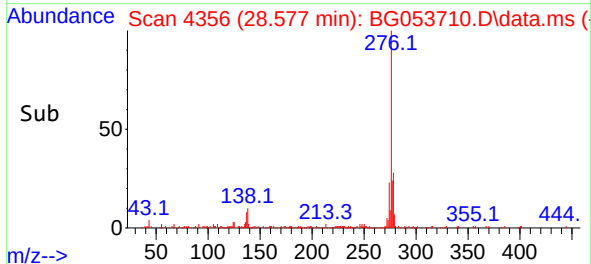
Instrument :
BNA_G
ClientSampleId :
BU-03-052322



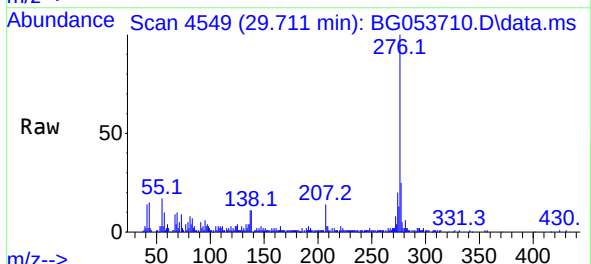
Tgt Ion:278 Resp: 57290
Ion Ratio Lower Upper
278 100
139 10.3 7.2 10.8
279 30.9 18.6 27.8

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 05/26/2022
Supervised By :Jagrut Upadhyay 05/26/2022



#92
Benzo(g,h,i)perylene
Concen: 28.632 ng
RT: 29.711 min Scan# 4549
Delta R.T. 0.060 min
Lab File: BG053710.D
Acq: 26 May 2022 1:43



Tgt Ion:276 Resp: 245744
Ion Ratio Lower Upper
276 100
277 24.9 17.3 25.9
138 10.9 9.6 14.4

