

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031122\
 Data File : BG052653.D
 Acq On : 11 Mar 2022 18:53
 Operator : CG/JU
 Sample : N1845-12DL 4X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SAMPLE-12DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 03/14/2022
 Supervised By : Jagrut Upadhyay 03/14/2022

Quant Time: Mar 12 06:17:00 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030922.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 10 06:37:54 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.170	152	43699	20.000	ng	0.00
21) Naphthalene-d8	11.008	136	181744	20.000	ng	0.00
39) Acenaphthene-d10	14.826	164	120561	20.000	ng	0.00
64) Phenanthrene-d10	17.575	188	243727	20.000	ng	0.00
76) Chrysene-d12	21.887	240	201860	20.000	ng	0.00
86) Perylene-d12	25.318	264	217007	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.697	112	17202	6.800	ng	0.00
7) Phenol-d6	7.324	99	72301	19.749	ng	0.00
23) Nitrobenzene-d5	9.345	82	55503	13.844	ng	0.00
42) 2,4,6-Tribromophenol	16.312	330	1815	1.061	ng	0.00
45) 2-Fluorobiphenyl	13.440	172	140622	15.743	ng	0.00
79) Terphenyl-d14	20.172	244	188131	16.492	ng	0.00
Target Compounds						Qvalue
38) 1-Methylnaphthalene	12.876	142	15069	2.221	ng	100
52) Acenaphthene	14.885	154	41837	6.212	ng	98
55) Dibenzofuran	15.220	168	67555	5.915	ng	95
58) Fluorene	15.872	166	64654	6.970	ng	97
71) Phenanthrene	17.622	178	667872	52.229	ng	99
72) Anthracene	17.710	178	201075	16.061	ng	99
73) Carbazole	17.975	167	32940	2.688	ng	98
75) Fluoranthene	19.625	202	604638	37.868	ng	98
78) Pyrene	19.990	202	485970	36.017	ng	99
81) Benzo(a)anthracene	21.864	228	227787	16.843	ng	99
83) Chrysene	21.934	228	182160m	14.405	ng	
87) Indeno(1,2,3-cd)pyrene	29.277	276	90538	5.822	ng	99
88) Benzo(b)fluoranthene	24.225	252	213259	15.917	ng	97
89) Benzo(k)fluoranthene	24.284	252	82463m	6.120	ng	
90) Benzo(a)pyrene	25.153	252	169381	14.941	ng	97
92) Benzo(g,h,i)perylene	30.522	276	84576m	6.715	ng	

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

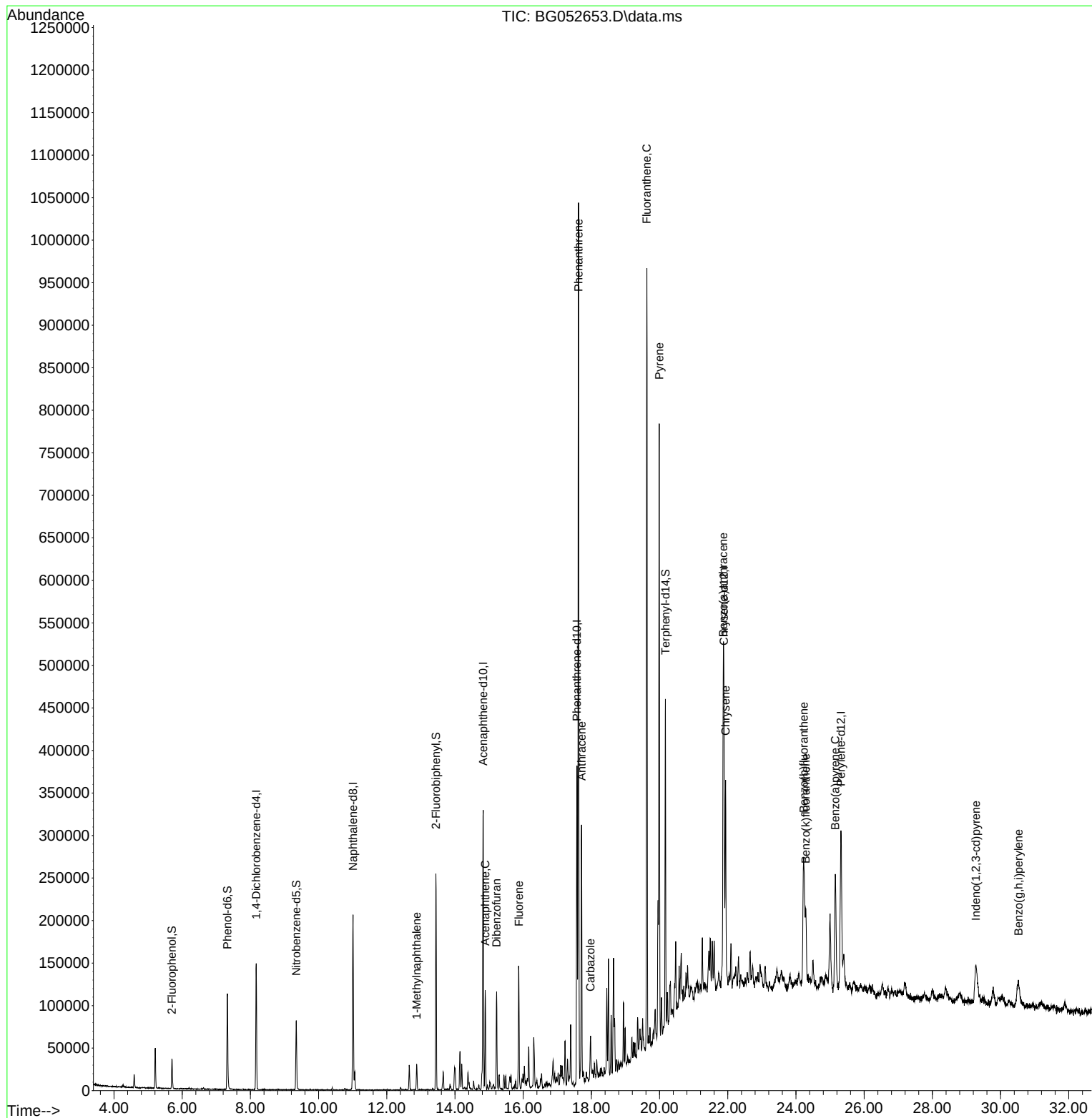
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031122\
Data File : BG052653.D
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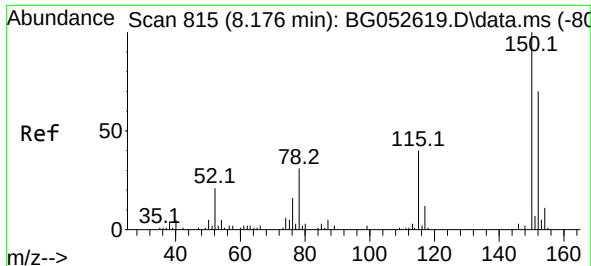
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12DL

Quant Time: Mar 12 06:17:00 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030922.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 10 06:37:54 2022
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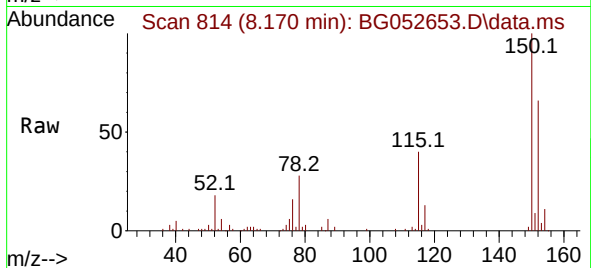
Reviewed By : Christian Giraldo 03/14/2022
Supervised By : Jagrut Upadhyay 03/14/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.170 min Scan# 815
Delta R.T. -0.006 min
Lab File: BG052653.D
Acq: 11 Mar 2022 18:53

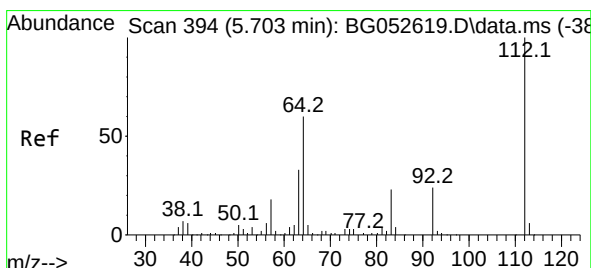
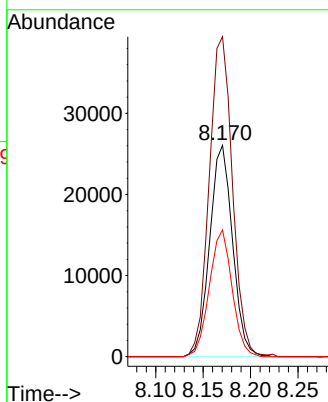
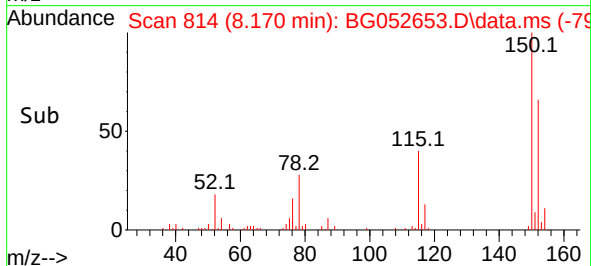
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12DL



Tgt Ion:152 Resp: 43699
Ion Ratio Lower Upper
152 100
150 151.4 114.6 172.0
115 59.9 45.9 68.9

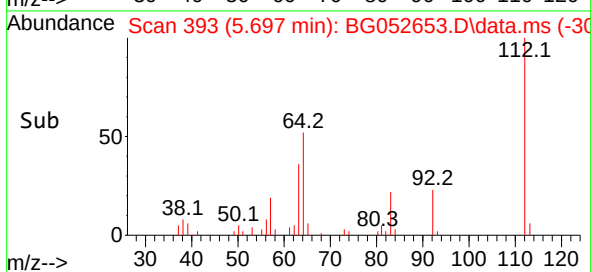
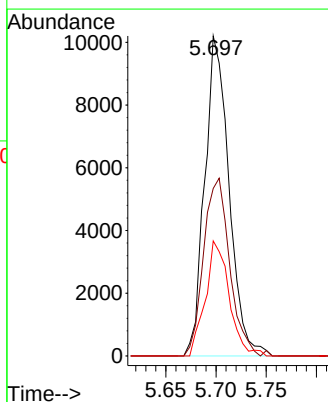
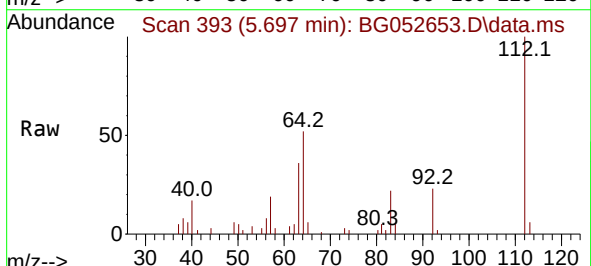
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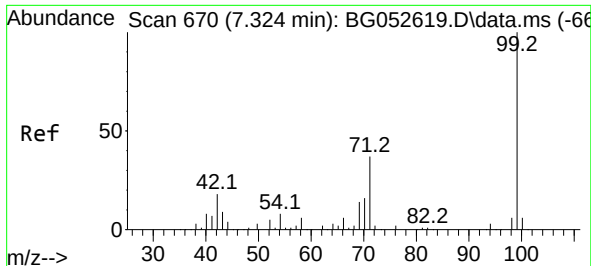
Reviewed By :Christian Giraldo 03/14/2022
Supervised By :Jagrut Upadhyay 03/14/2022



#5
2-Fluorophenol
Concen: 6.800 ng
RT: 5.697 min Scan# 393
Delta R.T. -0.006 min
Lab File: BG052653.D
Acq: 11 Mar 2022 18:53

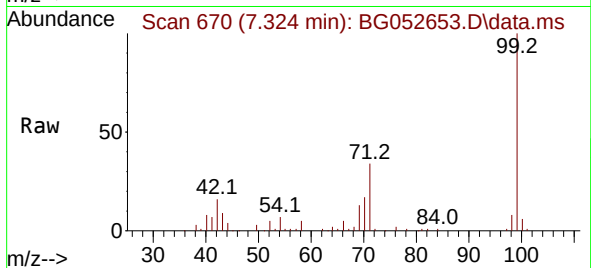
Tgt Ion:112 Resp: 17202
Ion Ratio Lower Upper
112 100
64 52.4 48.0 72.0
63 36.0 26.5 39.7





#7
Phenol-d6
Concen: 19.749 ng
RT: 7.324 min Scan# 61
Delta R.T. 0.000 min
Lab File: BG052653.D
Acq: 11 Mar 2022 18:53

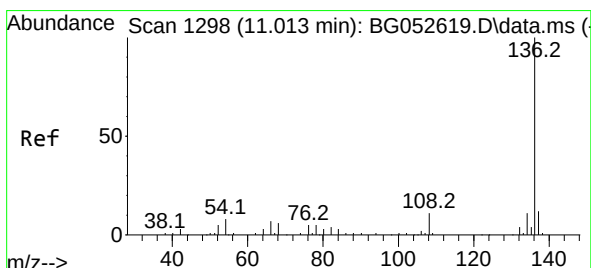
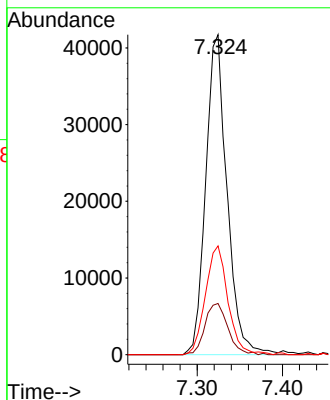
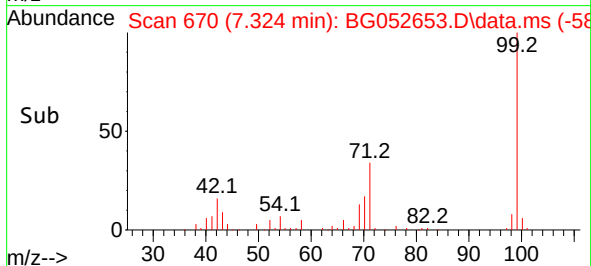
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12DL



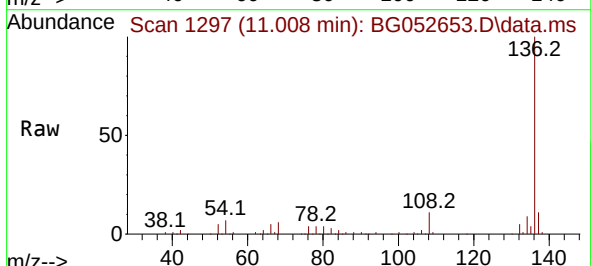
Tgt Ion: 99 Resp: 7230
Ion Ratio Lower Upper
99 100
42 16.0 14.7 22.1
71 34.0 29.2 43.8

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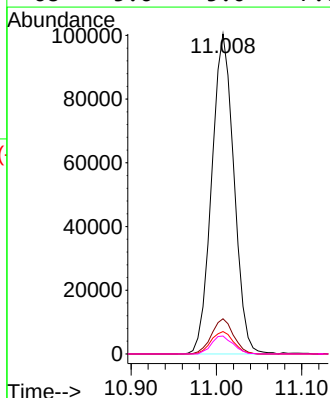
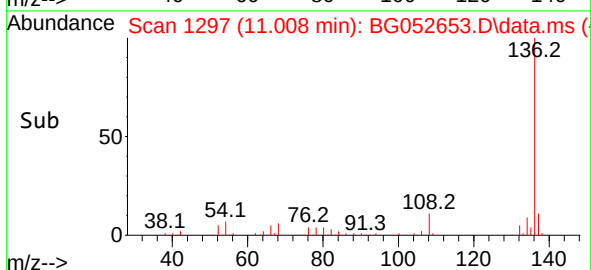
Reviewed By :Christian Giraldo 03/14/2022
Supervised By :Jagrut Upadhyay 03/14/2022

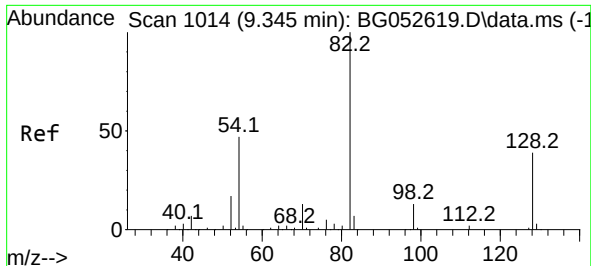


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.008 min Scan# 1297
Delta R.T. -0.005 min
Lab File: BG052653.D
Acq: 11 Mar 2022 18:53



Tgt Ion:136 Resp: 181744
Ion Ratio Lower Upper
136 100
137 11.0 9.4 14.2
54 7.0 6.4 9.6
68 5.6 5.0 7.6





#23

Nitrobenzene-d5

Concen: 13.844 ng

RT: 9.345 min Scan# 1014

Delta R.T. 0.000 min

Lab File: BG052653.D

Acq: 11 Mar 2022 18:53

Instrument :

BNA_G

ClientSampleId :

SAMPLE-12DL

Tgt Ion: 82 Resp: 5550

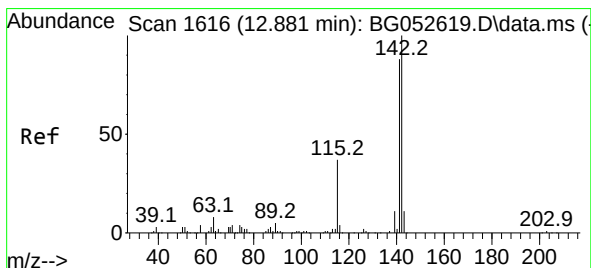
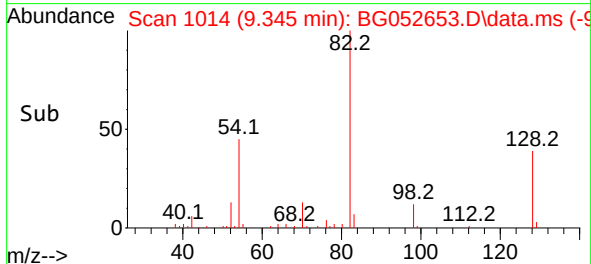
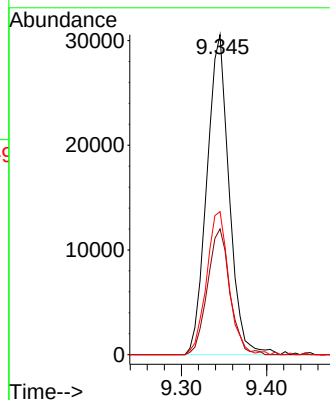
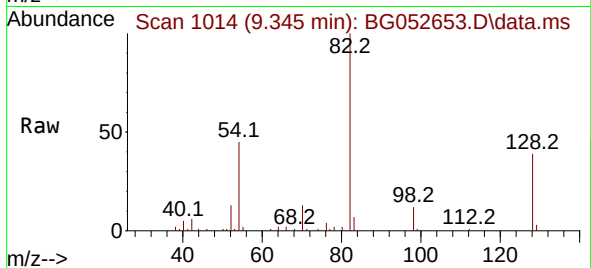
Ion	Ratio	Lower	Upper
82	100		
128	39.3	31.3	46.9
54	44.7	37.8	56.8

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#38

1-Methylnaphthalene

Concen: 2.221 ng

RT: 12.876 min Scan# 1615

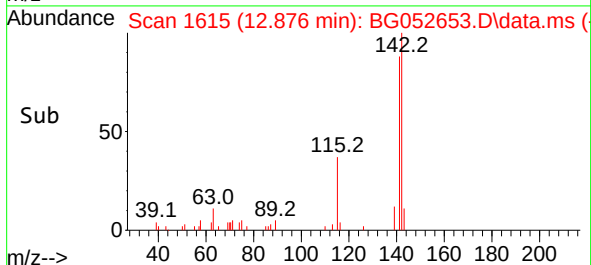
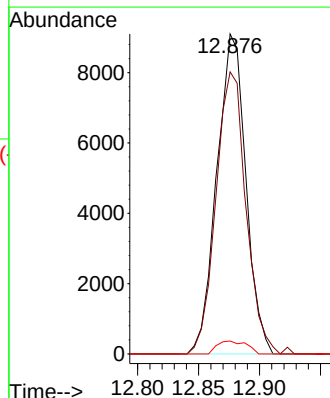
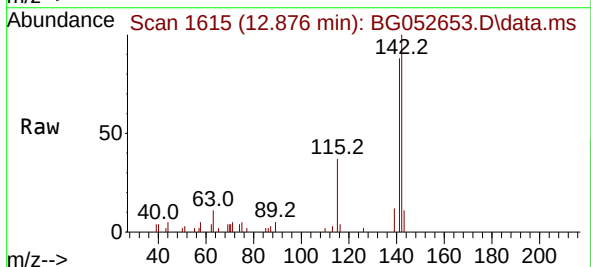
Delta R.T. -0.006 min

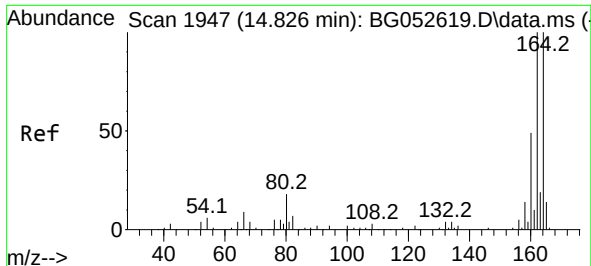
Lab File: BG052653.D

Acq: 11 Mar 2022 18:53

Tgt Ion:142 Resp: 15069

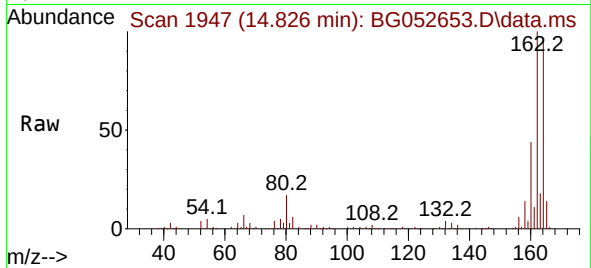
Ion	Ratio	Lower	Upper
142	100		
141	88.1	70.5	105.7
116	4.0	3.1	4.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.826 min Scan# 1947
Delta R.T. 0.000 min
Lab File: BG052653.D
Acq: 11 Mar 2022 18:53

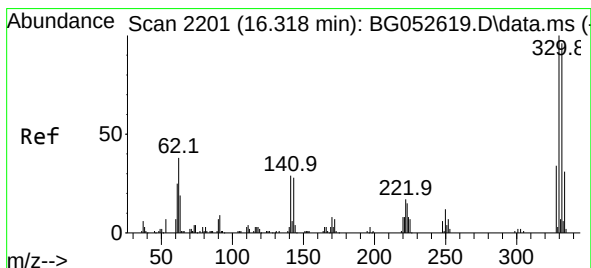
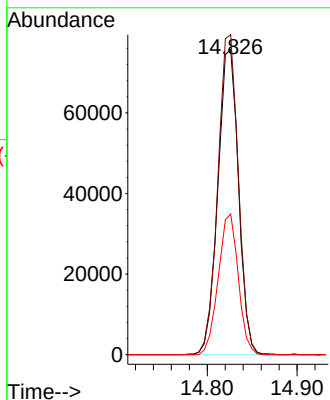
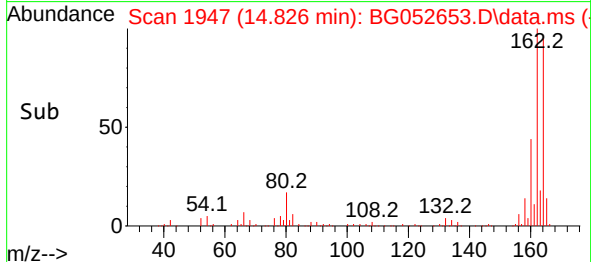
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12DL



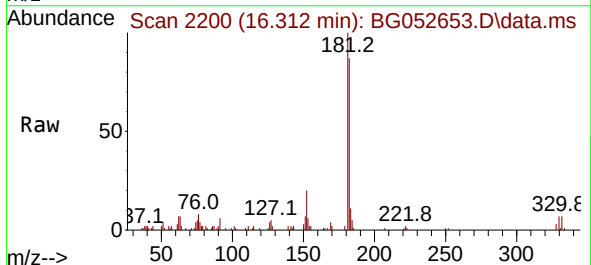
Tgt Ion:164 Resp: 12056
Ion Ratio Lower Upper
164 100
162 104.9 80.0 120.0
160 46.2 38.8 58.2

Manual Integrations
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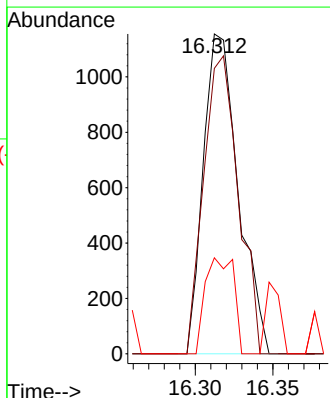
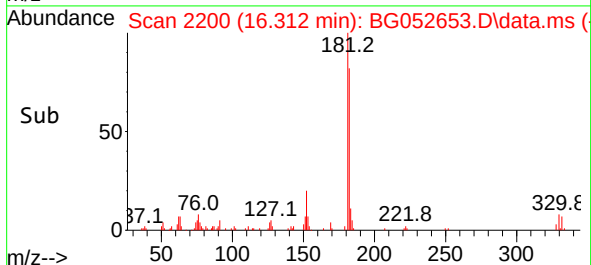
Reviewed By :Christian Giraldo 03/14/2022
Supervised By :Jagrut Upadhyay 03/14/2022

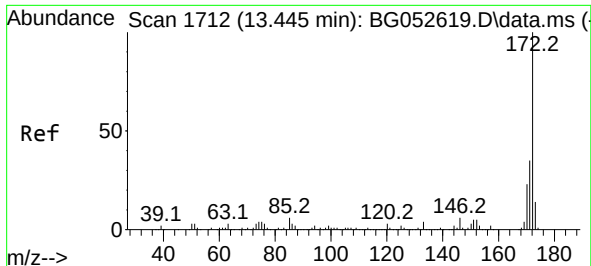


#42
2,4,6-Tribromophenol
Concen: 1.061 ng
RT: 16.312 min Scan# 2200
Delta R.T. -0.006 min
Lab File: BG052653.D
Acq: 11 Mar 2022 18:53



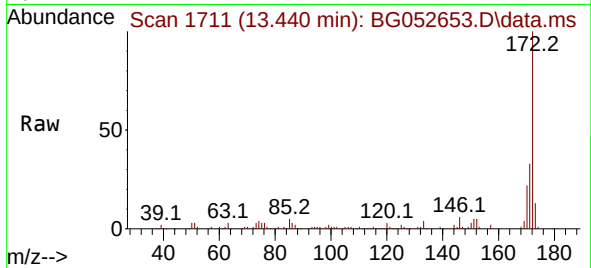
Tgt Ion:330 Resp: 1815
Ion Ratio Lower Upper
330 100
332 92.0 75.8 113.6
141 24.4 24.6 36.8#





#45
2-Fluorobiphenyl
Concen: 15.743 ng
RT: 13.440 min Scan# 1712
Delta R.T. -0.005 min
Lab File: BG052653.D
Acq: 11 Mar 2022 18:53

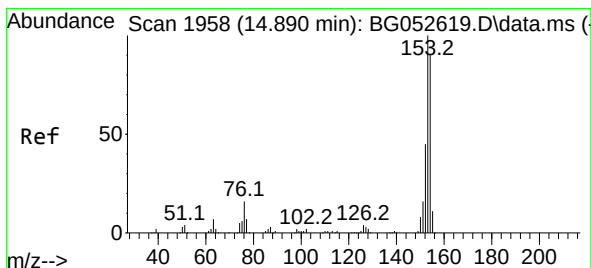
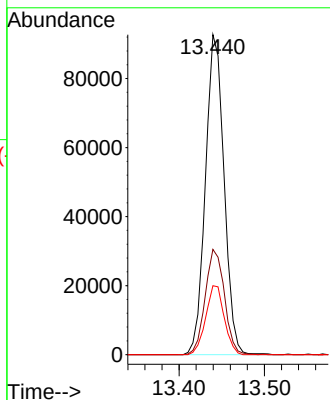
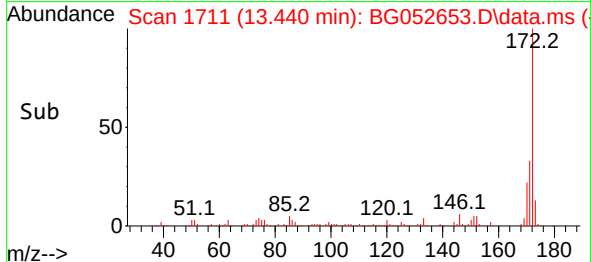
Instrument :
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ClientSampleId :
SAMPLE-12DL



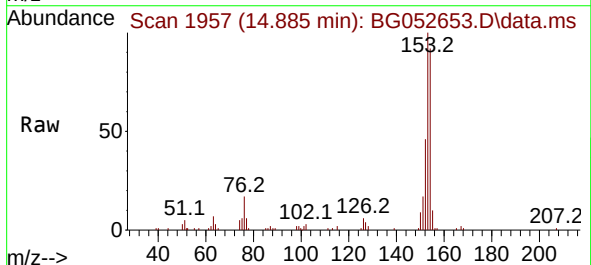
Tgt Ion:172 Resp: 14062
Ion Ratio Lower Upper
172 100
171 32.9 28.3 42.5
170 21.5 18.0 27.0

Manual Integrations
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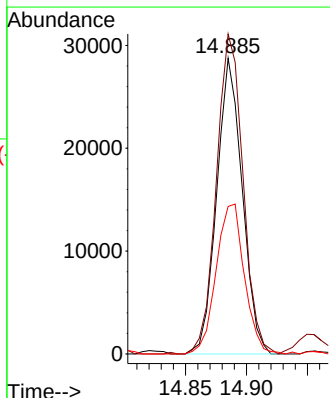
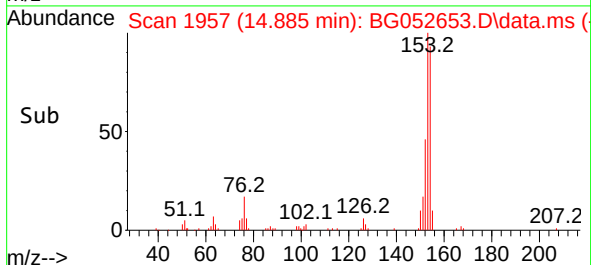
Reviewed By :Christian Giraldo 03/14/2022
Supervised By :Jagrut Upadhyay 03/14/2022

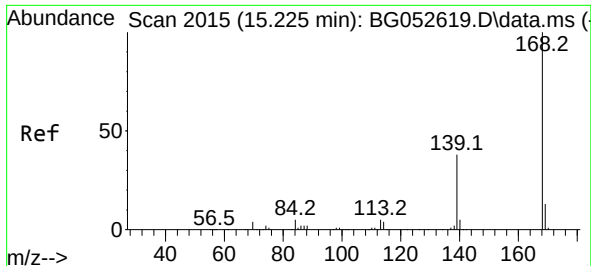


#52
Acenaphthene
Concen: 6.212 ng
RT: 14.885 min Scan# 1957
Delta R.T. -0.006 min
Lab File: BG052653.D
Acq: 11 Mar 2022 18:53



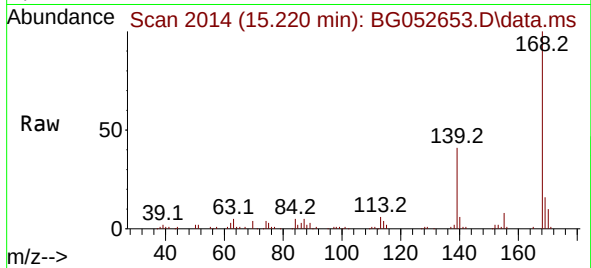
Tgt Ion:154 Resp: 41837
Ion Ratio Lower Upper
154 100
153 108.2 89.0 133.4
152 49.9 40.5 60.7





#55
Dibenzofuran
Concen: 5.915 ng
RT: 15.220 min Scan# 2014
Delta R.T. -0.006 min
Lab File: BG052653.D
Acq: 11 Mar 2022 18:53

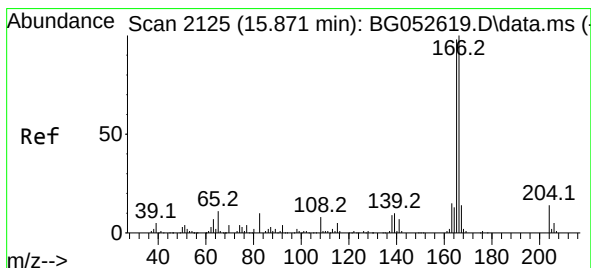
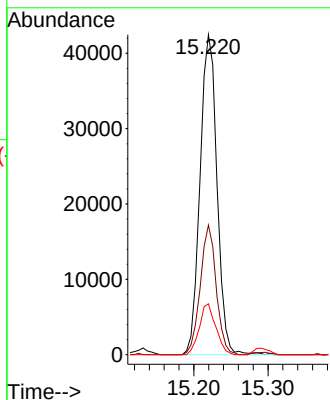
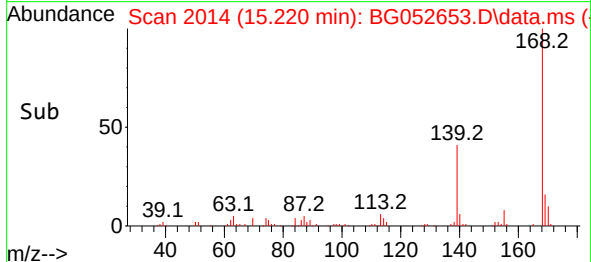
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BNA_G
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SAMPLE-12DL



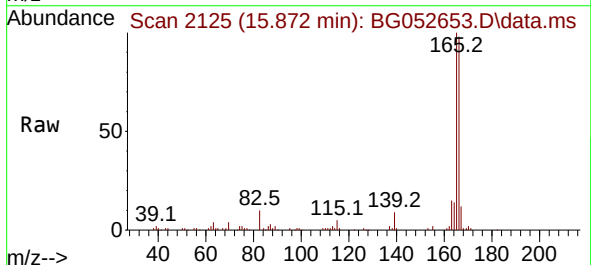
Tgt Ion:168 Resp: 6755
Ion Ratio Lower Upper
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139 40.5 30.2 45.4
169 15.9 10.7 16.1

Manual Integrations
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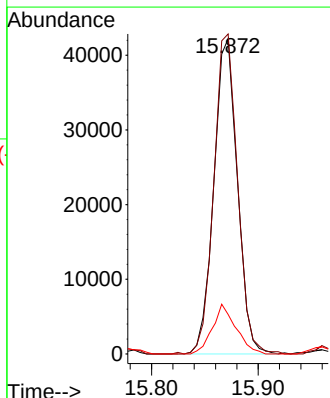
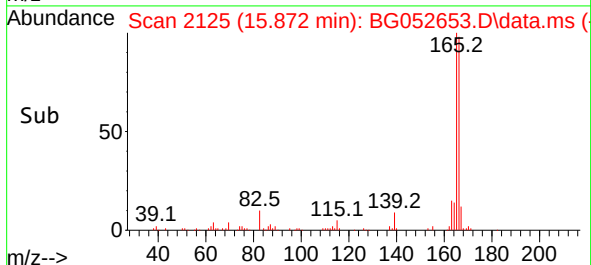
Reviewed By :Christian Giraldo 03/14/2022
Supervised By :Jagrut Upadhyay 03/14/2022

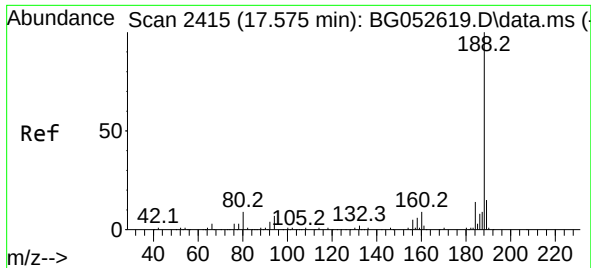


#58
Fluorene
Concen: 6.970 ng
RT: 15.872 min Scan# 2125
Delta R.T. 0.000 min
Lab File: BG052653.D
Acq: 11 Mar 2022 18:53



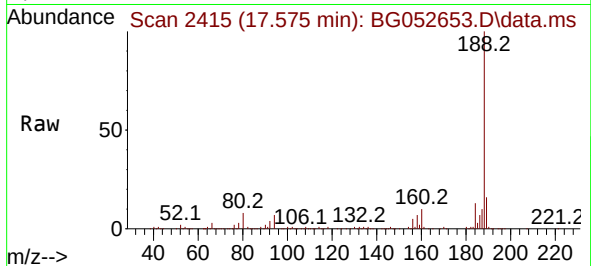
Tgt Ion:166 Resp: 64654
Ion Ratio Lower Upper
166 100
165 101.5 78.6 117.8
167 12.5 10.9 16.3





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.575 min Scan# 2415
Delta R.T. 0.000 min
Lab File: BG052653.D
Acq: 11 Mar 2022 18:53

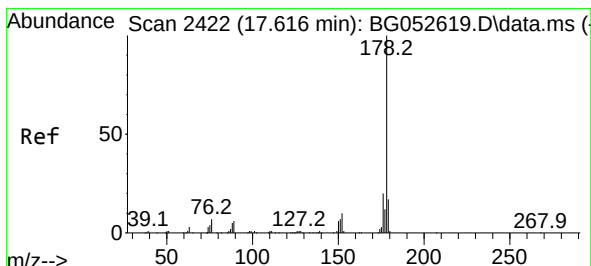
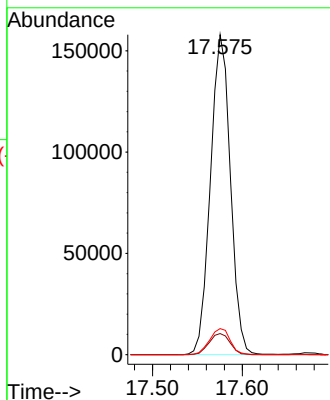
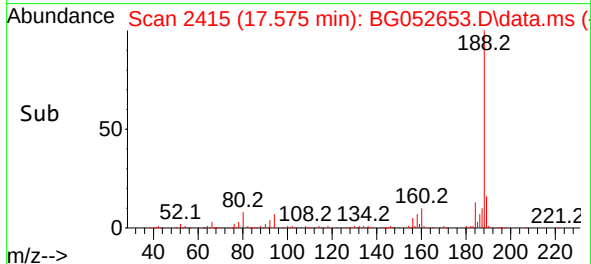
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12DL



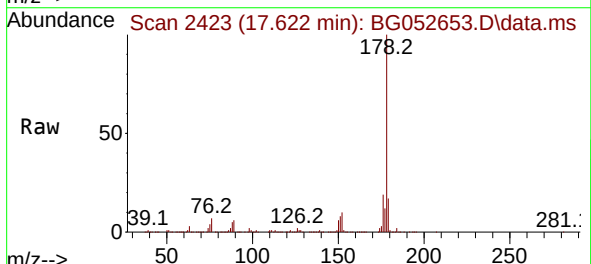
Tgt Ion:188 Resp: 24372
Ion Ratio Lower Upper
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94 6.6 5.7 8.5
80 8.2 7.2 10.8

Manual Integrations
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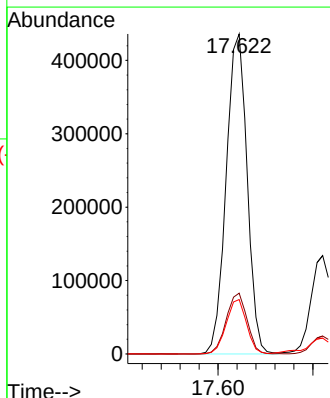
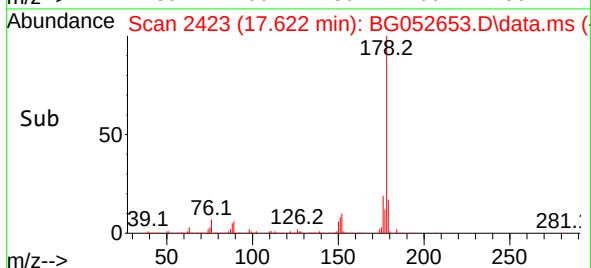
Reviewed By :Christian Giraldo 03/14/2022
Supervised By :Jagrut Upadhyay 03/14/2022

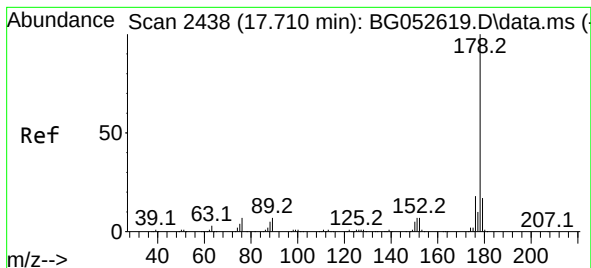


#71
Phenanthrene
Concen: 52.229 ng
RT: 17.622 min Scan# 2423
Delta R.T. 0.006 min
Lab File: BG052653.D
Acq: 11 Mar 2022 18:53



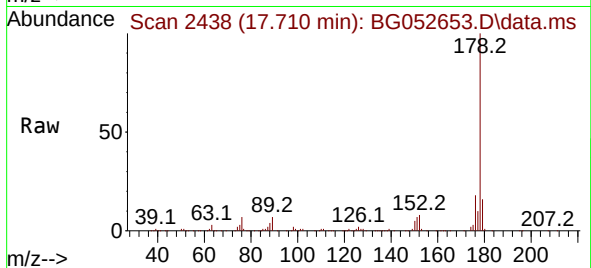
Tgt Ion:178 Resp: 667872
Ion Ratio Lower Upper
178 100
176 19.0 15.9 23.9
179 17.0 13.4 20.2





#72
 Anthracene
 Concen: 16.061 ng
 RT: 17.710 min Scan# 2438
 Delta R.T. 0.000 min
 Lab File: BG052653.D
 Acq: 11 Mar 2022 18:53

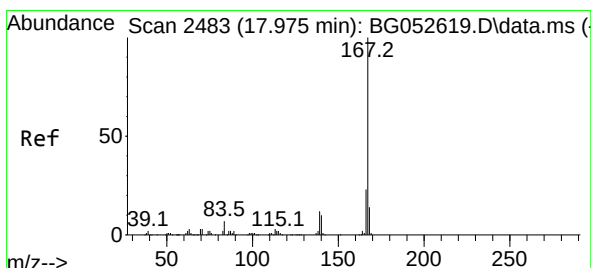
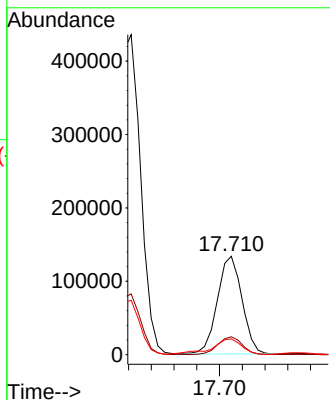
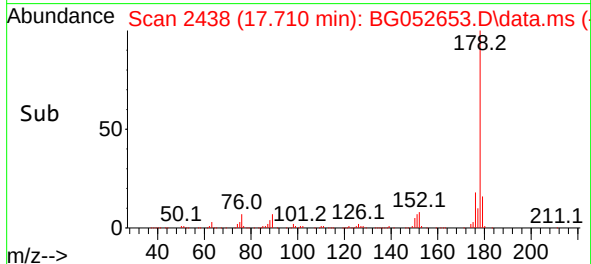
Instrument :
 BNA_G
 ClientSampleId :
 SAMPLE-12DL



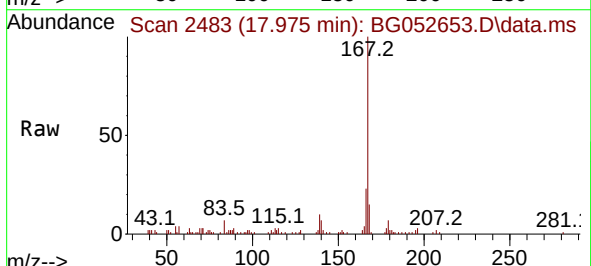
Tgt Ion:178 Resp: 201075
 Ion Ratio Lower Upper
 178 100
 176 18.3 14.7 22.1
 179 16.1 13.2 19.8

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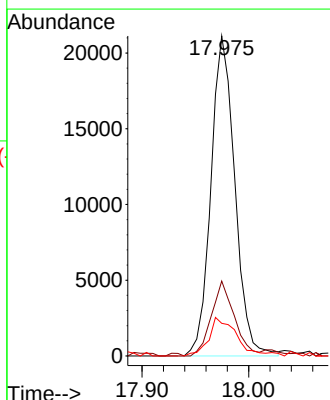
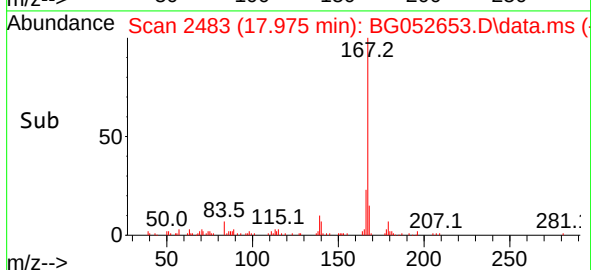
Reviewed By :Christian Giraldo 03/14/2022
 Supervised By :Jagrut Upadhyay 03/14/2022

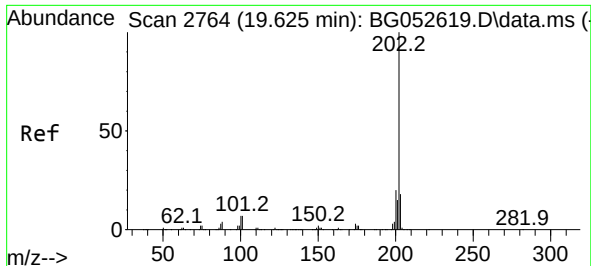


#73
 Carbazole
 Concen: 2.688 ng
 RT: 17.975 min Scan# 2483
 Delta R.T. 0.000 min
 Lab File: BG052653.D
 Acq: 11 Mar 2022 18:53



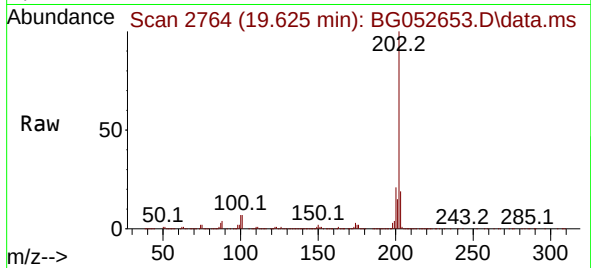
Tgt Ion:167 Resp: 32940
 Ion Ratio Lower Upper
 167 100
 166 23.4 18.5 27.7
 139 10.2 10.0 15.0





#75
Fluoranthene
Concen: 37.868 ng
RT: 19.625 min Scan# 2764
Delta R.T. 0.000 min
Lab File: BG052653.D
Acq: 11 Mar 2022 18:53

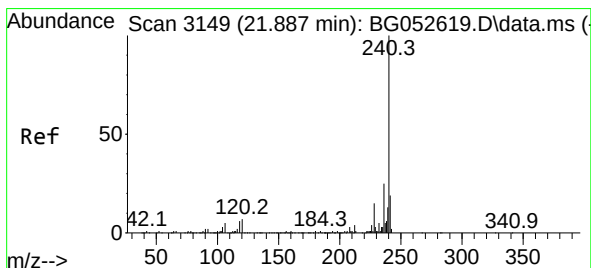
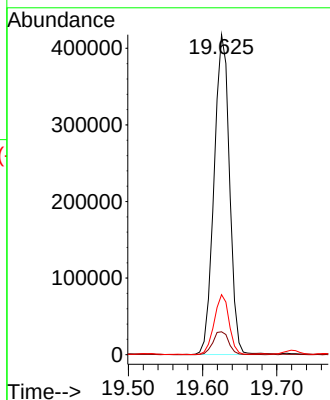
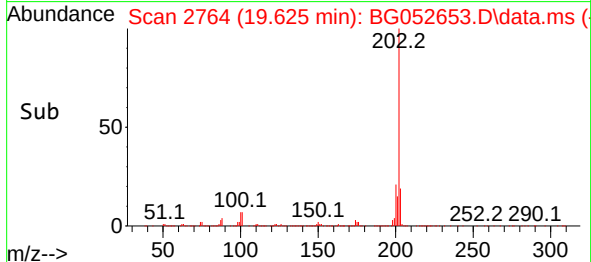
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12DL



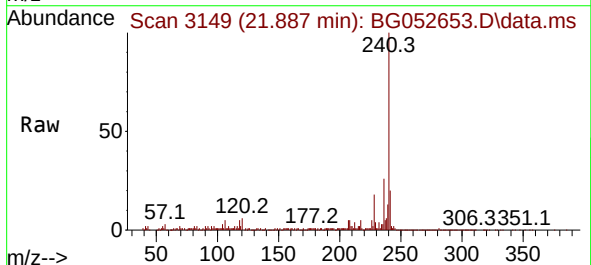
Tgt Ion:202 Resp: 604638
Ion Ratio Lower Upper
202 100
101 7.2 0.0 27.3
203 18.7 0.0 37.7

Manual Integrations
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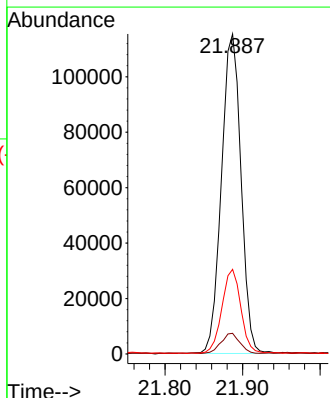
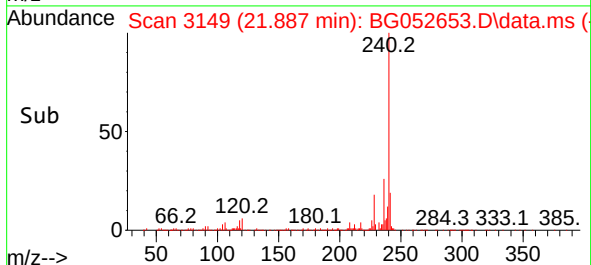
Reviewed By :Christian Giraldo 03/14/2022
Supervised By :Jagrut Upadhyay 03/14/2022

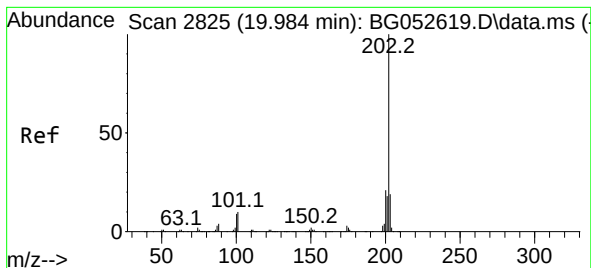


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.887 min Scan# 3149
Delta R.T. 0.000 min
Lab File: BG052653.D
Acq: 11 Mar 2022 18:53



Tgt Ion:240 Resp: 201860
Ion Ratio Lower Upper
240 100
120 6.4 5.4 8.0
236 26.5 19.8 29.6





#78

Pyrene

Concen: 36.017 ng

RT: 19.990 min Scan# 2826

Delta R.T. 0.006 min

Lab File: BG052653.D

Acq: 11 Mar 2022 18:53

Instrument :

BNA_G

ClientSampleId :

SAMPLE-12DL

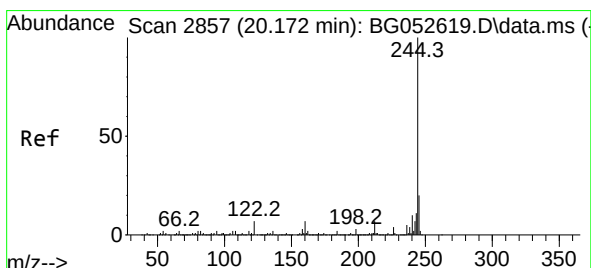
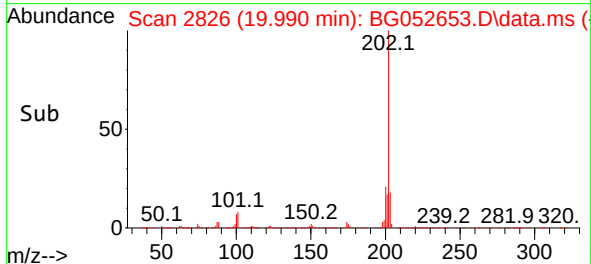
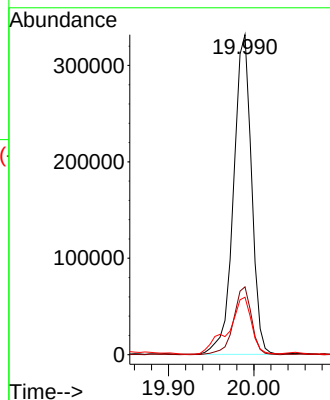
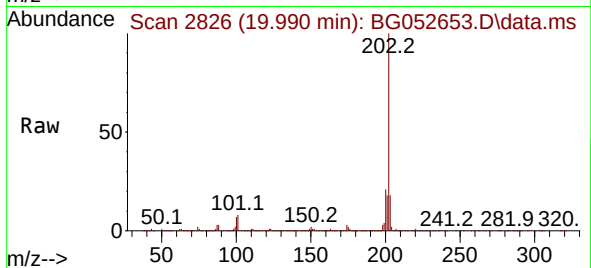
Tgt Ion:202 Resp: 485970
 Ion Ratio Lower Upper
 202 100
 200 21.2 17.0 25.6
 203 18.0 15.0 22.6

Manual Integrations

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Reviewed By :Christian Giraldo 03/14/2022

Supervised By :Jagrut Upadhyay 03/14/2022



#79

Terphenyl-d14

Concen: 16.492 ng

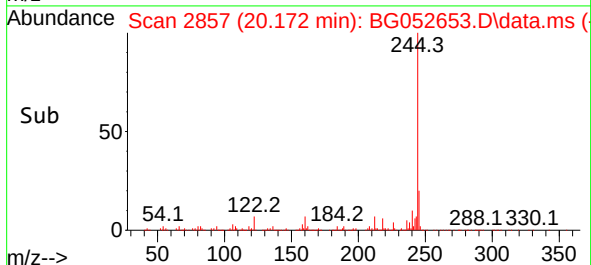
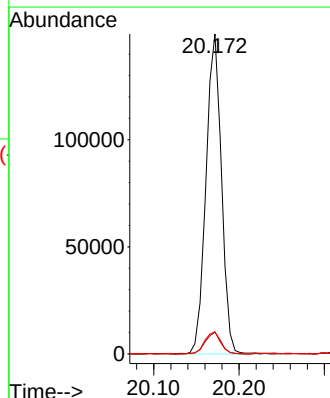
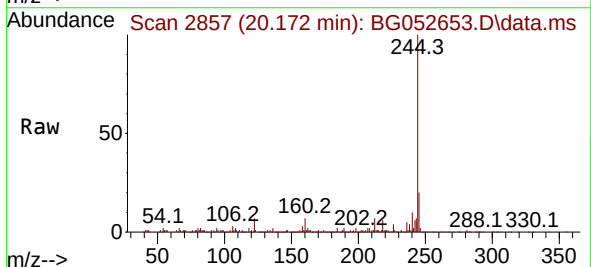
RT: 20.172 min Scan# 2857

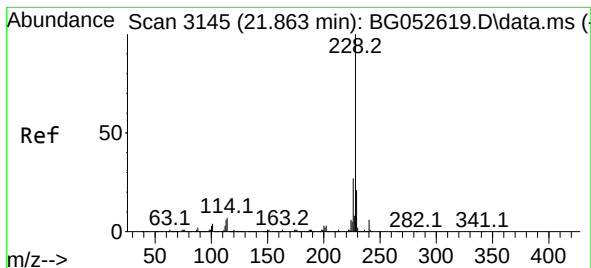
Delta R.T. 0.000 min

Lab File: BG052653.D

Acq: 11 Mar 2022 18:53

Tgt Ion:244 Resp: 188131
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.2
 122 6.9 5.8 8.6





#81

Benzo(a)anthracene

Concen: 16.843 ng

RT: 21.864 min Scan# 3145

Delta R.T. 0.000 min

Lab File: BG052653.D

Acq: 11 Mar 2022 18:53

Instrument :

BNA_G

ClientSampleId :

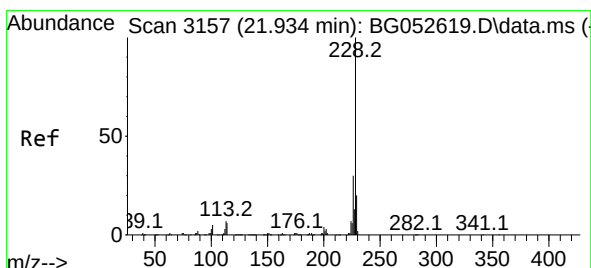
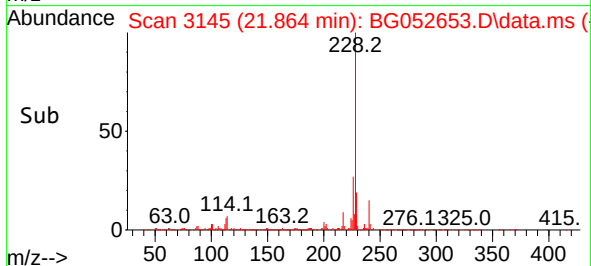
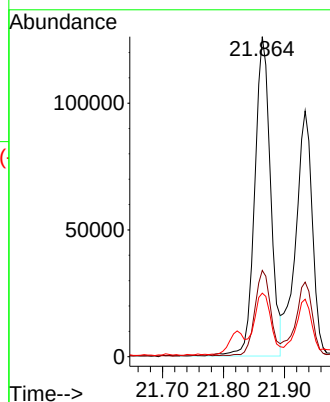
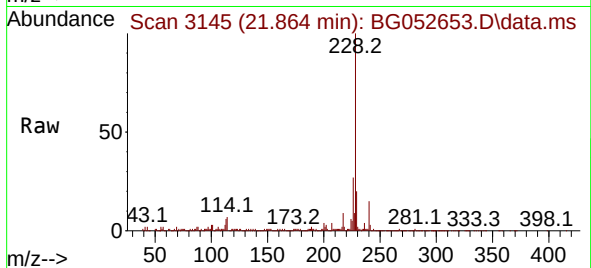
SAMPLE-12DL

Tgt Ion:228 Resp: 22778
 Ion Ratio Lower Upper
 228 100
 226 27.0 21.4 32.0
 229 19.8 16.7 25.1

Manual Integrations

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 Supervised By :Jagrut Upadhyay 03/14/2022



#83

Chrysene

Concen: 14.405 ng m

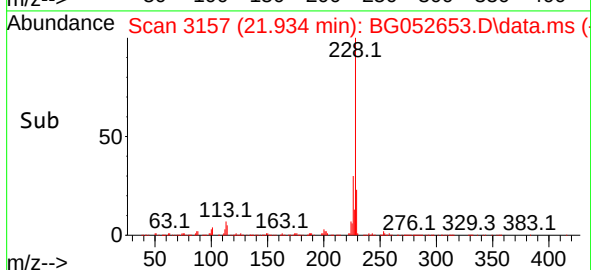
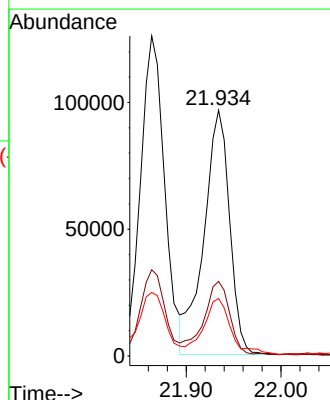
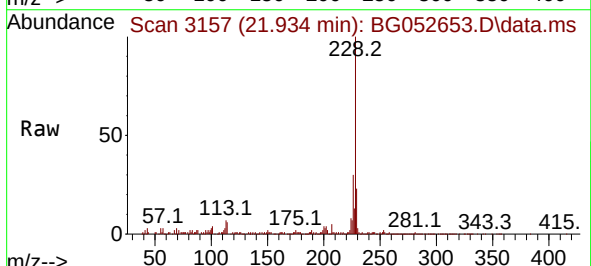
RT: 21.934 min Scan# 3157

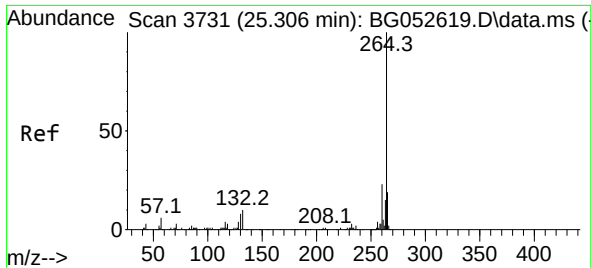
Delta R.T. 0.000 min

Lab File: BG052653.D

Acq: 11 Mar 2022 18:53

Tgt Ion:228 Resp: 182160
 Ion Ratio Lower Upper
 228 100
 226 30.4 24.2 36.4
 229 23.4 16.3 24.5





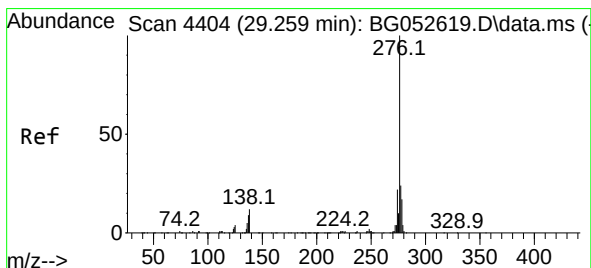
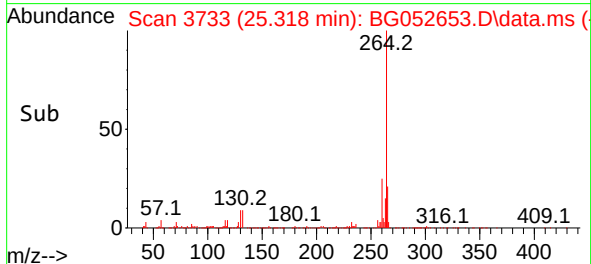
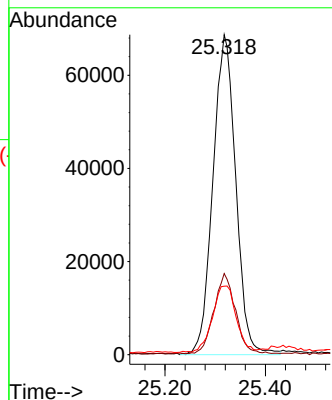
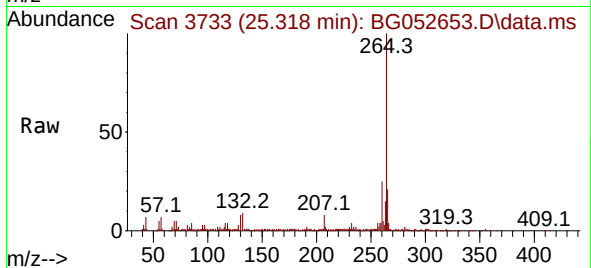
#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.318 min Scan# 31
 Delta R.T. 0.012 min
 Lab File: BG052653.D
 Acq: 11 Mar 2022 18:53

Instrument :
 BNA_G
 ClientSampleId :
 SAMPLE-12DL

Tgt Ion:264 Resp: 21700
 Ion Ratio Lower Upper
 264 100
 260 25.4 18.2 27.2
 265 21.4 15.1 22.7

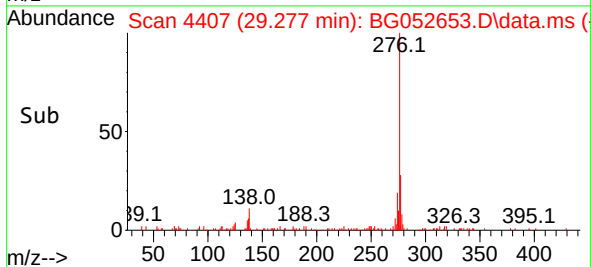
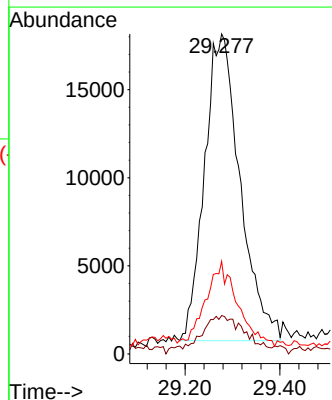
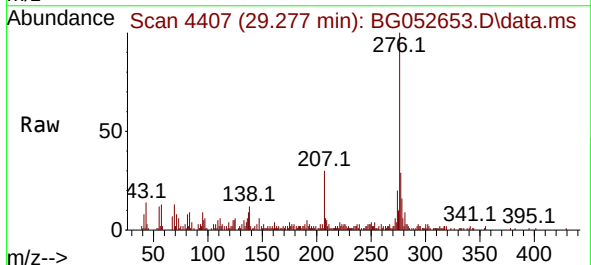
Manual Integrations
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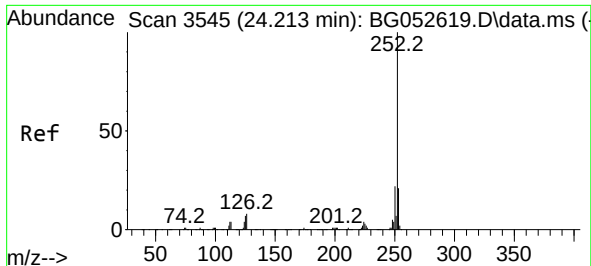
Reviewed By :Christian Giraldo 03/14/2022
 Supervised By :Jagrut Upadhyay 03/14/2022



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 5.822 ng
 RT: 29.277 min Scan# 4407
 Delta R.T. 0.018 min
 Lab File: BG052653.D
 Acq: 11 Mar 2022 18:53

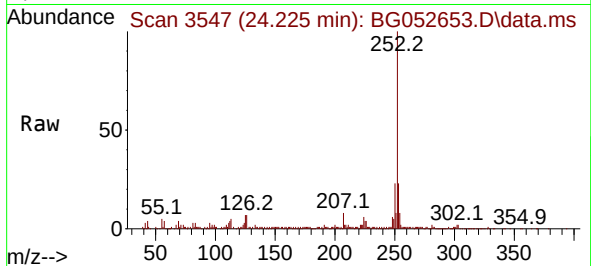
Tgt Ion:276 Resp: 90538
 Ion Ratio Lower Upper
 276 100
 138 12.0 8.7 13.1
 277 25.5 20.2 30.4





#88
Benzo(b)fluoranthene
Concen: 15.917 ng
RT: 24.225 min Scan# 3545
Delta R.T. 0.012 min
Lab File: BG052653.D
Acq: 11 Mar 2022 18:53

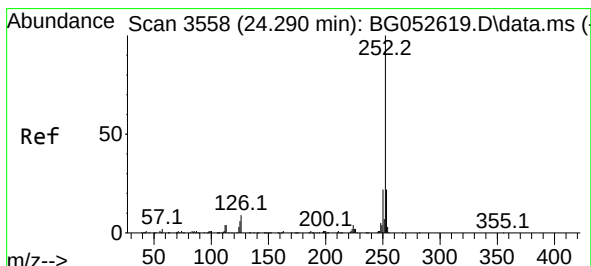
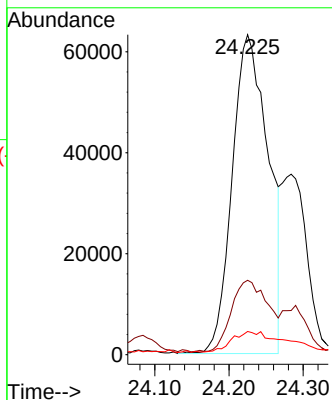
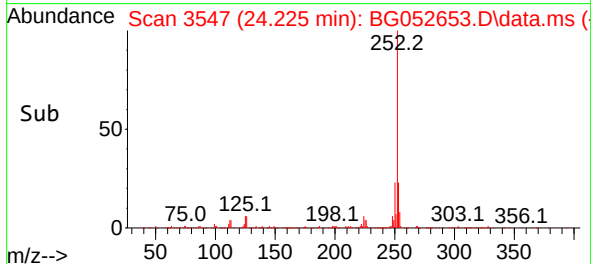
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12DL



Tgt Ion:252 Resp: 21325
Ion Ratio Lower Upper
252 100
253 23.2 17.2 25.8
125 7.2 5.2 7.8

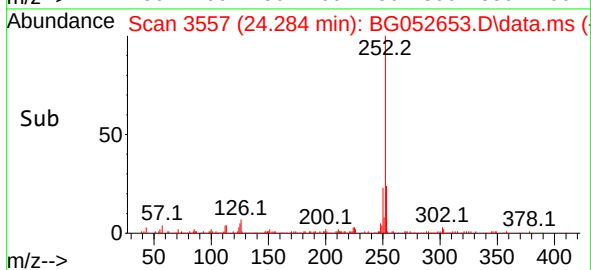
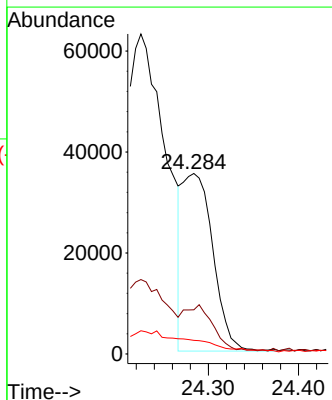
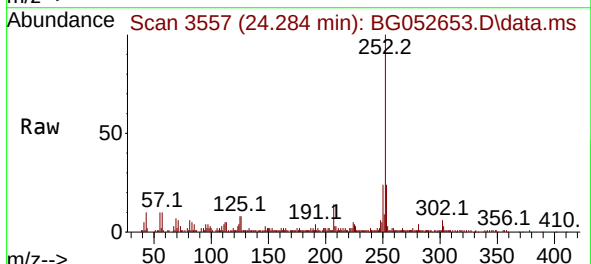
Manual Integrations
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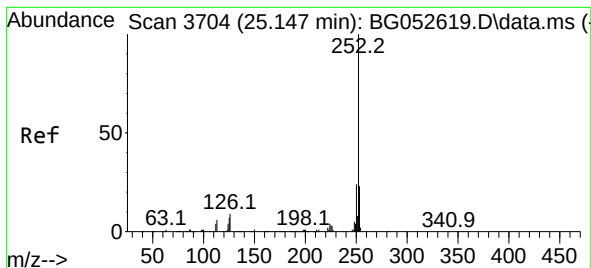
Reviewed By :Christian Giraldo 03/14/2022
Supervised By :Jagrut Upadhyay 03/14/2022



#89
Benzo(k)fluoranthene
Concen: 6.120 ng m
RT: 24.284 min Scan# 3557
Delta R.T. -0.006 min
Lab File: BG052653.D
Acq: 11 Mar 2022 18:53

Tgt Ion:252 Resp: 82463
Ion Ratio Lower Upper
252 100
253 24.5 17.4 26.0
125 7.5 5.0 7.4#





#90

Benzo(a)pyrene

Concen: 14.941 ng

RT: 25.153 min Scan# 31

Delta R.T. 0.006 min

Lab File: BG052653.D

Acq: 11 Mar 2022 18:53

Instrument :

BNA_G

ClientSampleId :

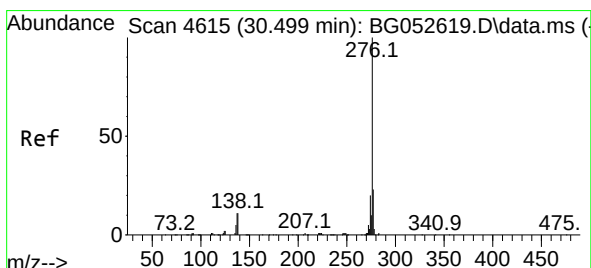
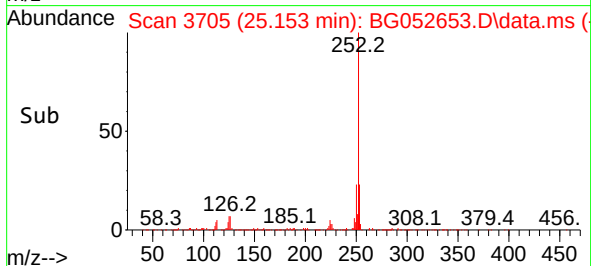
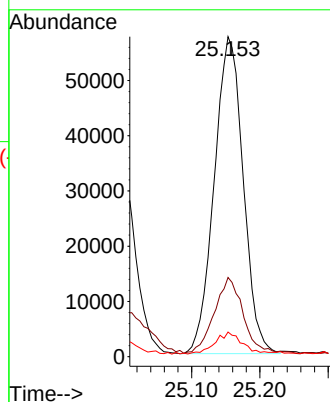
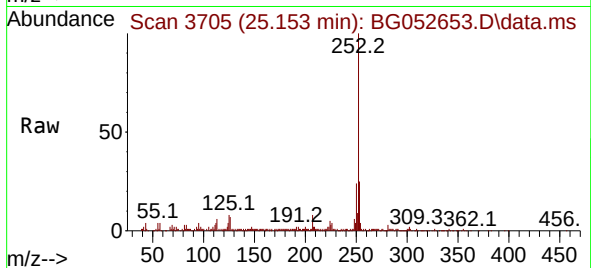
SAMPLE-12DL

Tgt Ion:252 Resp: 16938
 Ion Ratio Lower Upper
 252 100
 253 24.7 18.4 27.6
 125 7.7 5.6 8.4

Manual Integrations

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Reviewed By :Christian Giraldo 03/14/2022
 Supervised By :Jagrut Upadhyay 03/14/2022



#92

Benzo(g,h,i)perylene

Concen: 6.715 ng m

RT: 30.522 min Scan# 4619

Delta R.T. 0.024 min

Lab File: BG052653.D

Acq: 11 Mar 2022 18:53

Tgt Ion:276 Resp: 84576
 Ion Ratio Lower Upper
 276 100
 277 25.3 18.2 27.2
 138 12.9 9.1 13.7

