

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031022\
 Data File : BG052633.D
 Acq On : 10 Mar 2022 14:24
 Operator : CG/JU
 Sample : N1845-12 2X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SAMPLE-12

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 03/11/2022
 Supervised By : Jagrut Upadhyay 03/11/2022

Quant Time: Mar 11 03:44:44 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	8.175	152	48542	20.000	ng	0.00
21) Naphthalene-d8	11.013	136	191773	20.000	ng	0.00
39) Acenaphthene-d10	14.825	164	118010	20.000	ng	0.00
64) Phenanthrene-d10	17.580	188	230849	20.000	ng	0.00
76) Chrysene-d12	21.886	240	208335	20.000	ng	0.00
86) Perylene-d12	25.323	264	218173	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.708	112	39570	14.082	ng	0.00
7) Phenol-d6	7.324	99	162808	40.034	ng	0.00
23) Nitrobenzene-d5	9.344	82	127057	30.034	ng	0.00
42) 2,4,6-Tribromophenol	16.317	330	3751	2.241	ng	0.00
45) 2-Fluorobiphenyl	13.445	172	290347	33.209	ng	0.00
79) Terphenyl-d14	20.171	244	391923	33.289	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.060	128	40312	3.995	ng	97
37) 2-Methylnaphthalene	12.663	142	31919	4.378	ng	98
38) 1-Methylnaphthalene	12.881	142	31498	4.400	ng	90
46) 1,1'-Biphenyl	13.656	154	25161	2.851	ng	94
52) Acenaphthene	14.890	154	84213	12.774	ng	92
55) Dibenzofuran	15.219	168	134404	12.022	ng	97
58) Fluorene	15.871	166	130118	14.331	ng	100
71) Phenanthrene	17.621	178	1238451	102.251	ng	99
72) Anthracene	17.709	178	385921	32.546	ng	99
73) Carbazole	17.974	167	65280	5.625	ng	96
75) Fluoranthene	19.630	202	1167737	77.214	ng	97
78) Pyrene	19.995	202	953646	68.482	ng	99
81) Benzo(a)anthracene	21.869	228	478919	34.311	ng	99
83) Chrysene	21.933	228	384710	29.477	ng	97
87) Indeno(1,2,3-cd)pyrene	29.270	276	177718	11.367	ng	96
88) Benzo(b)fluoranthene	24.230	252	454161	33.716	ng	95
89) Benzo(k)fluoranthene	24.289	252	175583m	12.961	ng	
90) Benzo(a)pyrene	25.158	252	362261	31.785	ng	99
91) Dibenzo(a,h)anthracene	29.300	278	44297	3.414	ng	# 93
92) Benzo(g,h,i)perylene	30.510	276	155757	12.300	ng	97

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

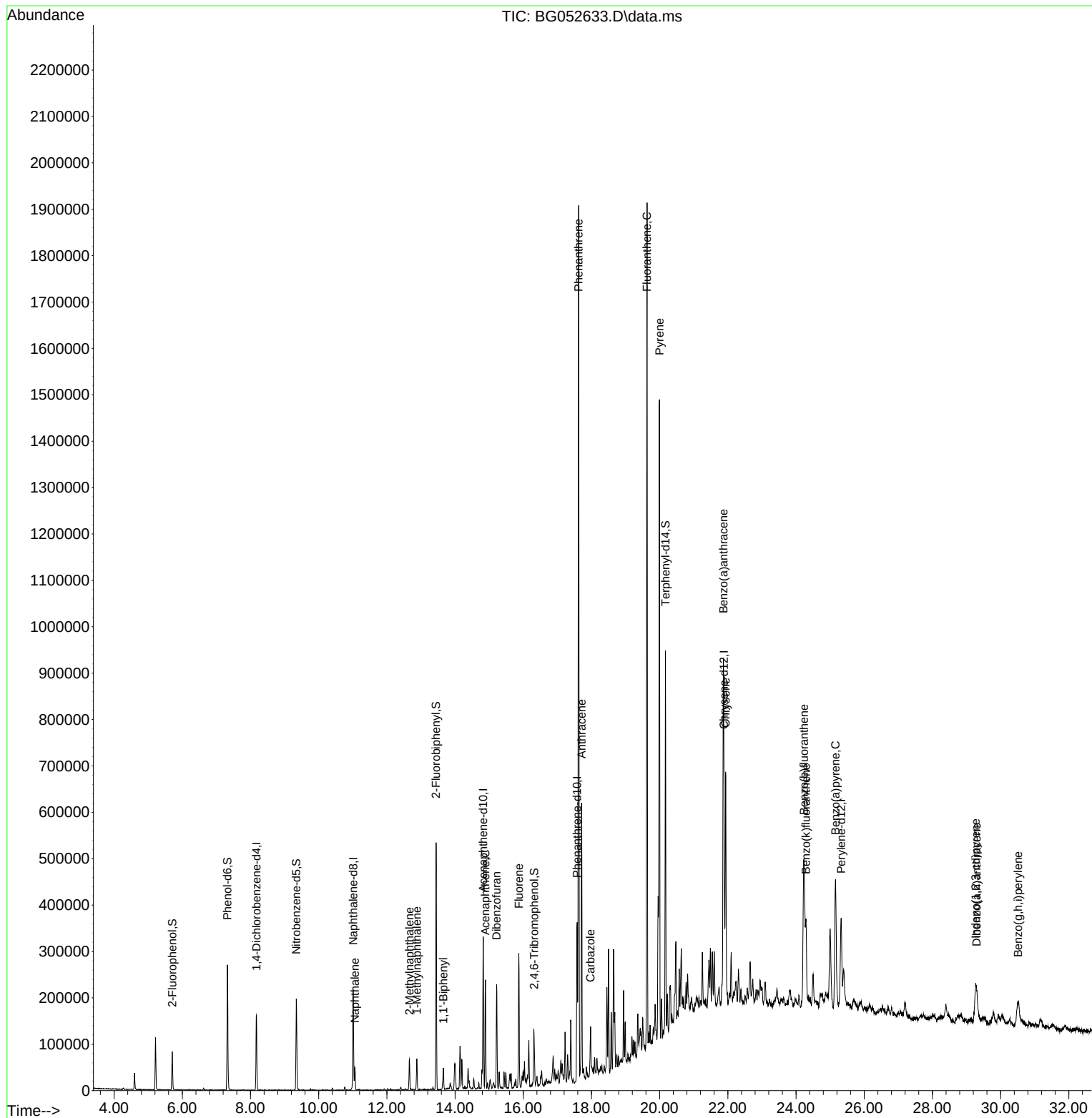
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031022\
Data File : BG052633.D
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Misc :
ALS Vial : 7 Sample Multiplier: 1

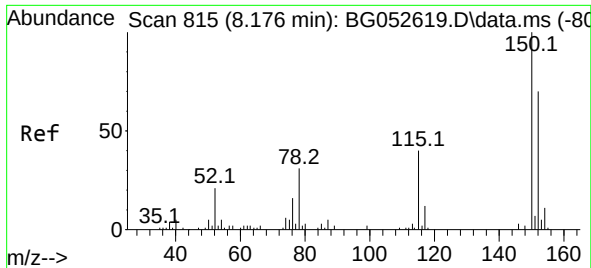
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12

Quant Time: Mar 11 03:44:44 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

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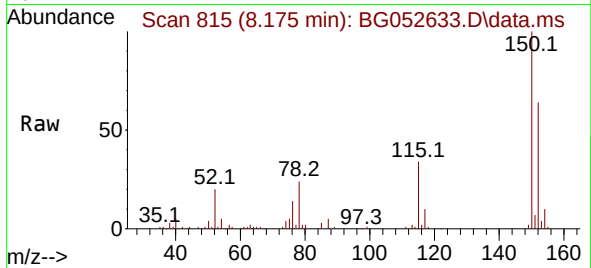
Reviewed By : Christian Giraldo 03/11/2022
Supervised By : Jagrut Upadhyay 03/11/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.175 min Scan# 815
Delta R.T. -0.001 min
Lab File: BG052633.D
Acq: 10 Mar 2022 14:24

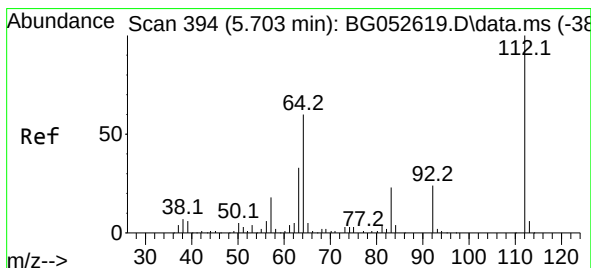
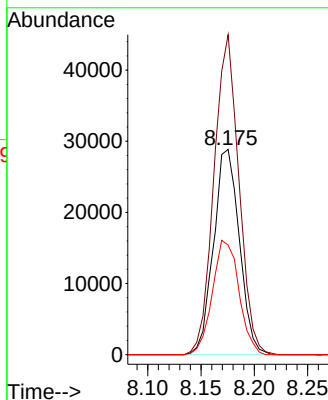
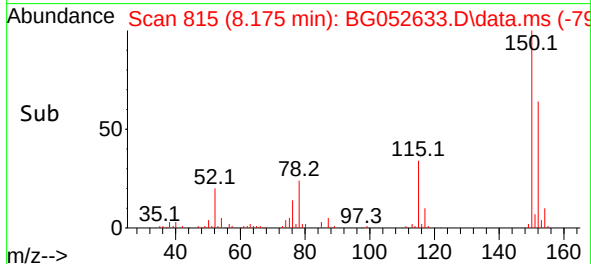
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12



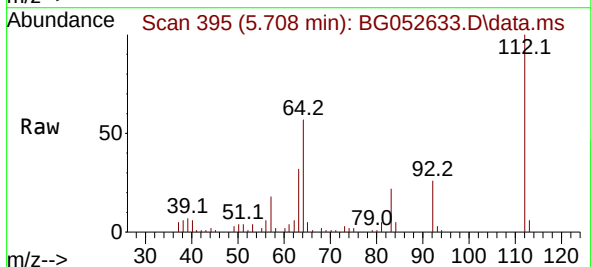
Tgt Ion:152 Resp: 4854
Ion Ratio Lower Upper
152 100
150 155.9 114.6 172.0
115 53.4 45.9 68.9

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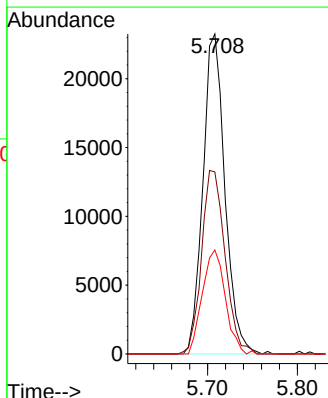
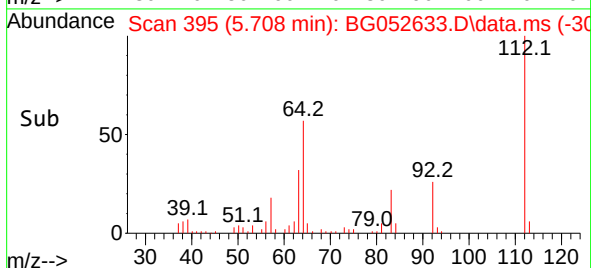
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022

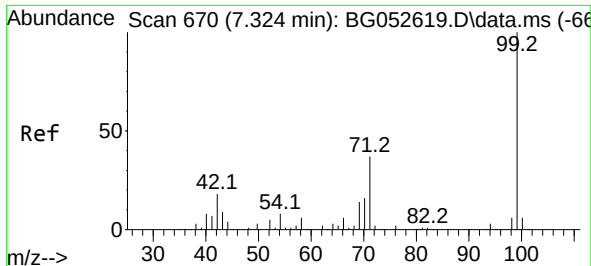


#5
2-Fluorophenol
Concen: 14.082 ng
RT: 5.708 min Scan# 395
Delta R.T. 0.005 min
Lab File: BG052633.D
Acq: 10 Mar 2022 14:24



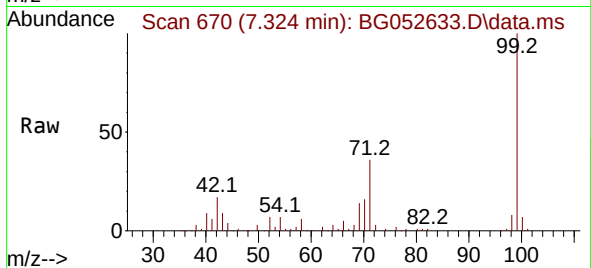
Tgt Ion:112 Resp: 39570
Ion Ratio Lower Upper
112 100
64 56.9 48.0 72.0
63 32.5 26.5 39.7





#7
Phenol-d6
Concen: 40.034 ng
RT: 7.324 min Scan# 61
Delta R.T. -0.001 min
Lab File: BG052633.D
Acq: 10 Mar 2022 14:24

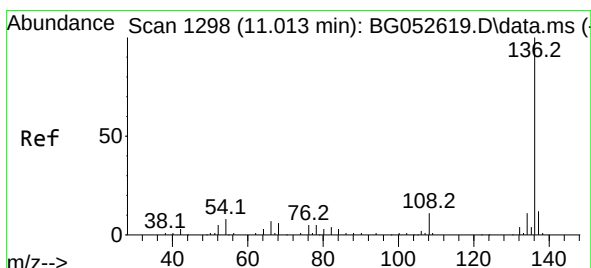
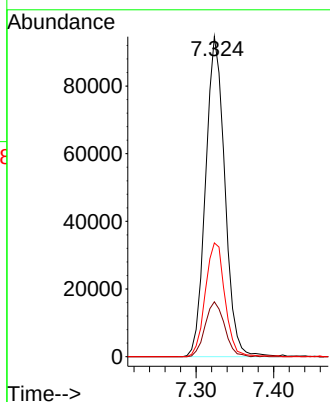
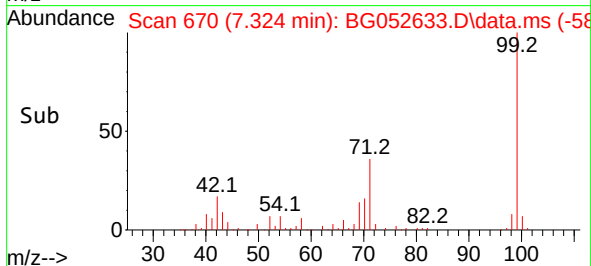
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12



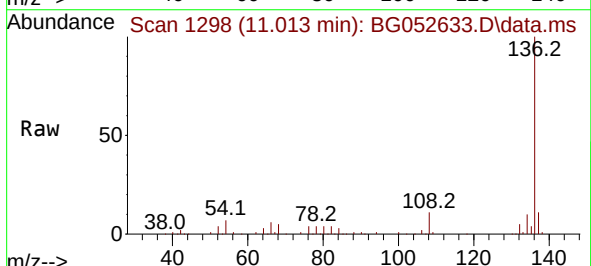
Tgt Ion: 99 Resp: 162808
Ion Ratio Lower Upper
99 100
42 17.1 14.7 22.1
71 35.6 29.2 43.8

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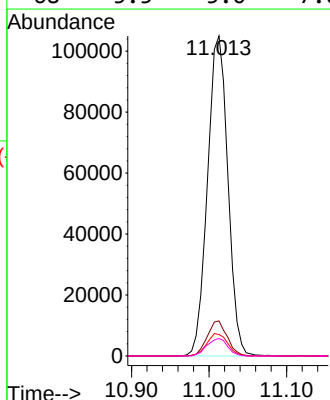
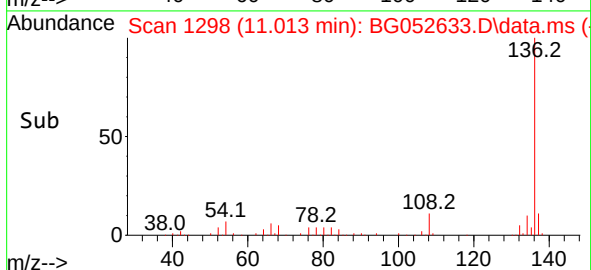
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022

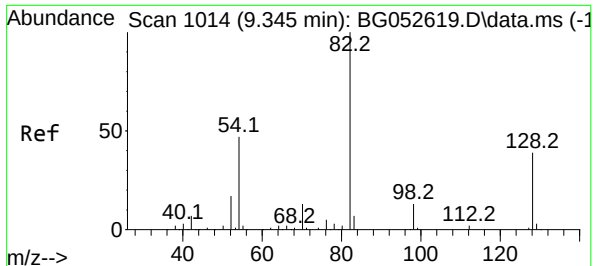


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.013 min Scan# 1298
Delta R.T. -0.000 min
Lab File: BG052633.D
Acq: 10 Mar 2022 14:24



Tgt Ion:136 Resp: 191773
Ion Ratio Lower Upper
136 100
137 10.9 9.4 14.2
54 6.7 6.4 9.6
68 5.5 5.0 7.6





#23

Nitrobenzene-d5

Concen: 30.034 ng

RT: 9.344 min Scan# 1014

Delta R.T. -0.001 min

Lab File: BG052633.D

Acq: 10 Mar 2022 14:24

Instrument :

BNA_G

ClientSampleId :

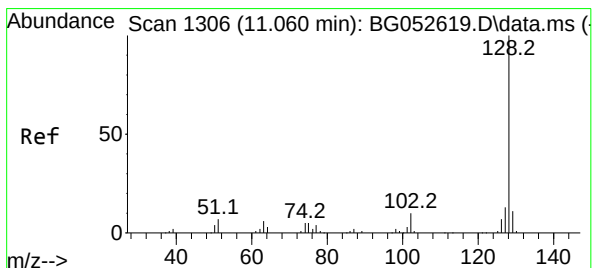
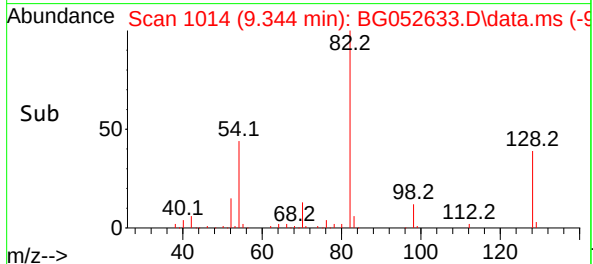
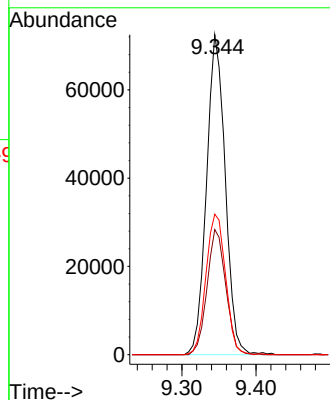
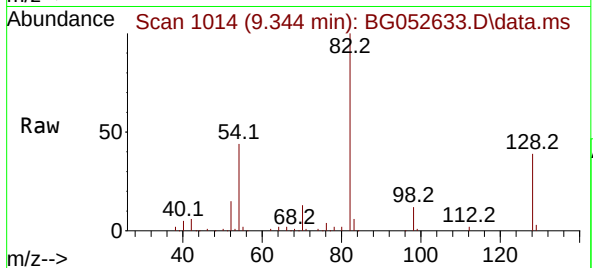
SAMPLE-12

Tgt Ion: 82 Resp: 12705
 Ion Ratio Lower Upper
 82 100
 128 39.1 31.3 46.9
 54 43.9 37.8 56.8

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#31

Naphthalene

Concen: 3.995 ng

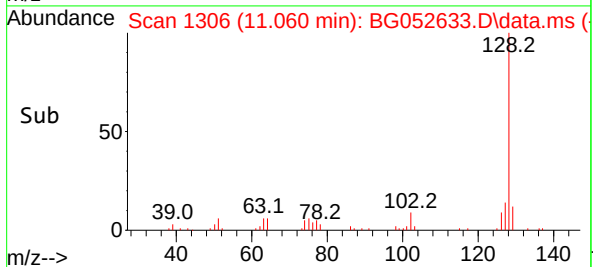
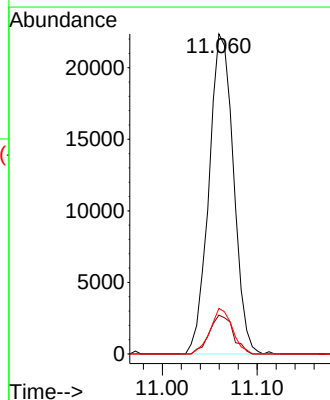
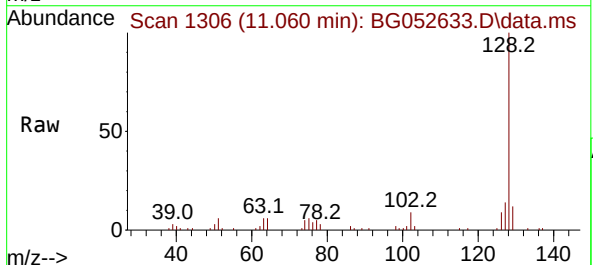
RT: 11.060 min Scan# 1306

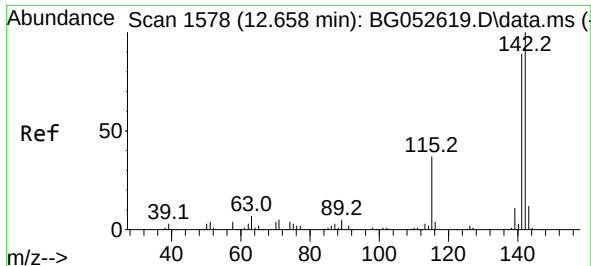
Delta R.T. -0.001 min

Lab File: BG052633.D

Acq: 10 Mar 2022 14:24

Tgt Ion:128 Resp: 40312
 Ion Ratio Lower Upper
 128 100
 129 12.2 8.8 13.2
 127 14.2 10.5 15.7





#37

2-Methylnaphthalene

Concen: 4.378 ng

RT: 12.663 min Scan# 1579

Delta R.T. 0.005 min

Lab File: BG052633.D

Acq: 10 Mar 2022 14:24

Instrument :

BNA_G

ClientSampleId :

SAMPLE-12

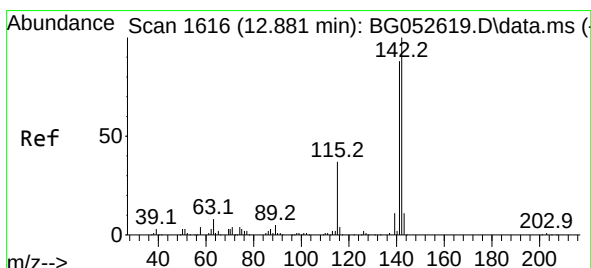
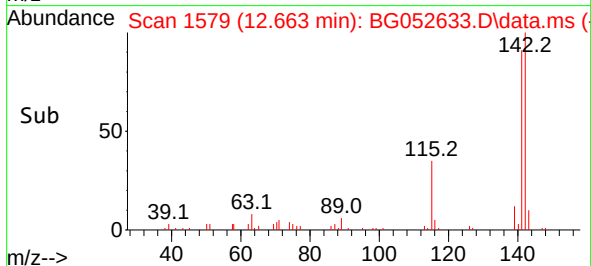
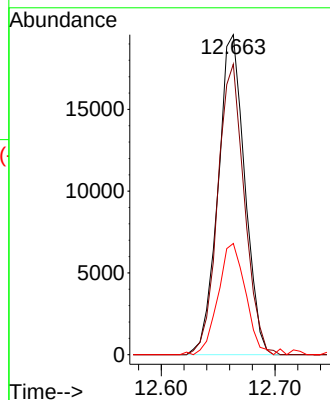
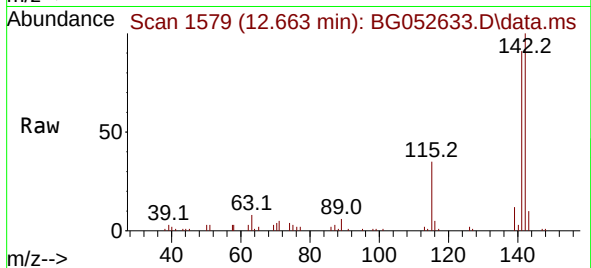
Tgt Ion:142	Resp:	31919
Ion Ratio	Lower	Upper
142	100	
141	90.8	71.3 106.9
115	34.8	29.5 44.3

Manual Integrations

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Supervised By :Jagrut Upadhyay 03/11/2022



#38

1-Methylnaphthalene

Concen: 4.400 ng

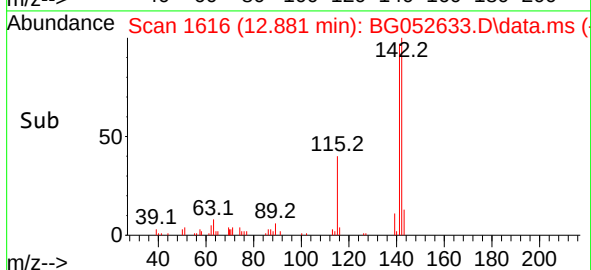
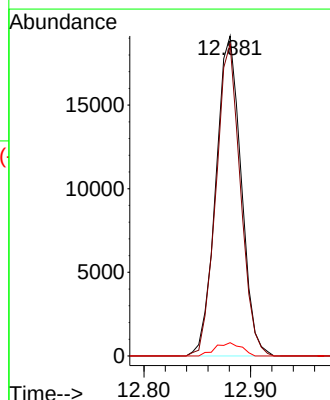
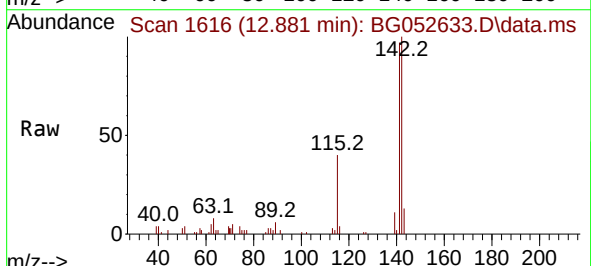
RT: 12.881 min Scan# 1616

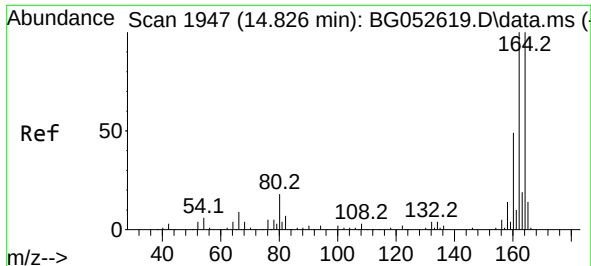
Delta R.T. -0.001 min

Lab File: BG052633.D

Acq: 10 Mar 2022 14:24

Tgt Ion:142	Resp:	31498
Ion Ratio	Lower	Upper
142	100	
141	97.5	70.5 105.7
116	4.2	3.1 4.7





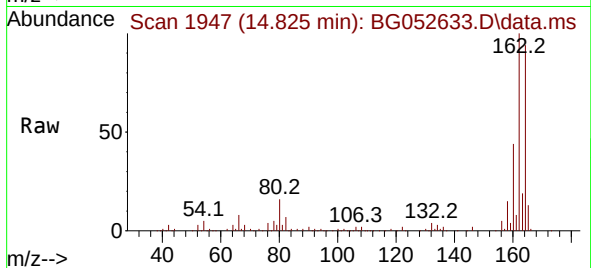
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.825 min Scan# 1947
Delta R.T. -0.001 min
Lab File: BG052633.D
Acq: 10 Mar 2022 14:24

Instrument :

BNA_G

ClientSampleId :

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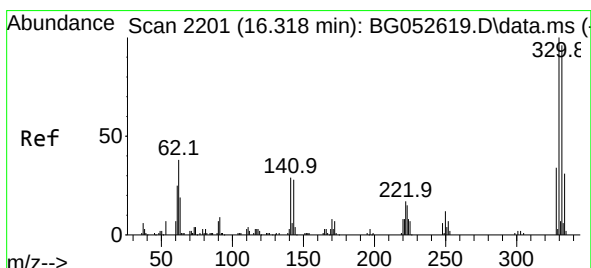
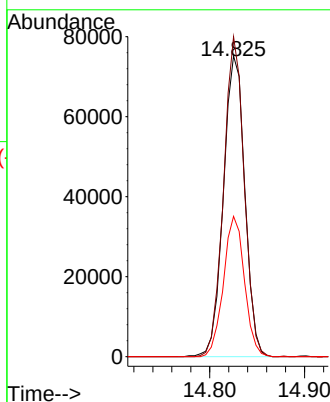
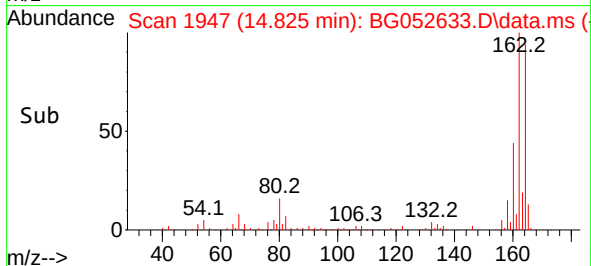


Tgt Ion:164 Resp: 118010
Ion Ratio Lower Upper
164 100
162 106.4 80.0 120.0
160 46.7 38.8 58.2

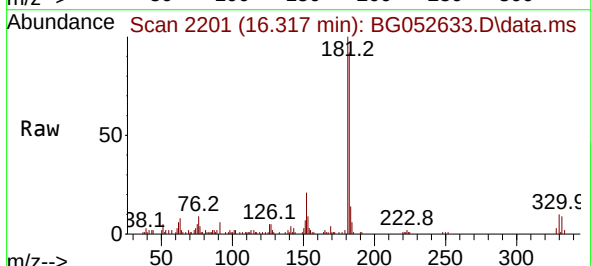
Manual Integrations

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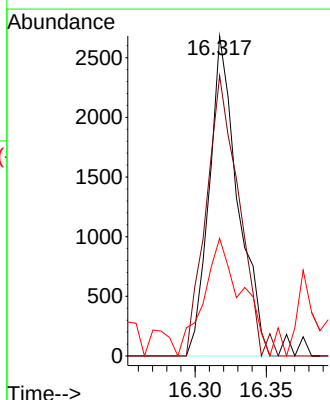
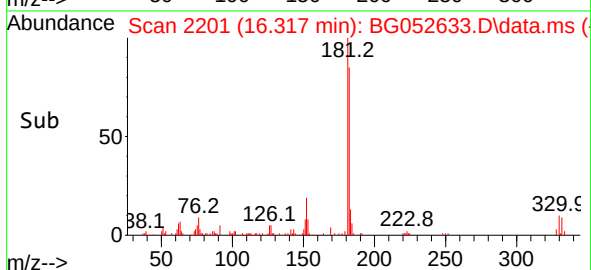
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022

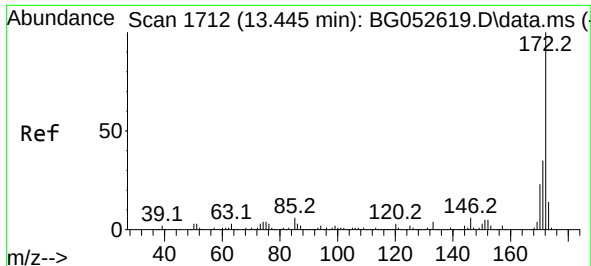


#42
2,4,6-Tribromophenol
Concen: 2.241 ng
RT: 16.317 min Scan# 2201
Delta R.T. -0.001 min
Lab File: BG052633.D
Acq: 10 Mar 2022 14:24



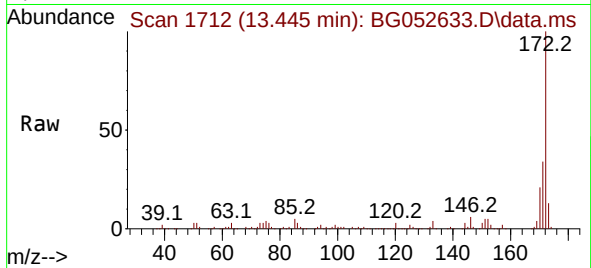
Tgt Ion:330 Resp: 3751
Ion Ratio Lower Upper
330 100
332 99.8 75.8 113.6
141 48.7 24.6 36.8#





#45
2-Fluorobiphenyl
Concen: 33.209 ng
RT: 13.445 min Scan# 1712
Delta R.T. -0.000 min
Lab File: BG052633.D
Acq: 10 Mar 2022 14:24

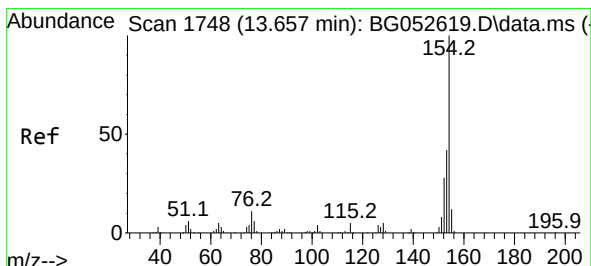
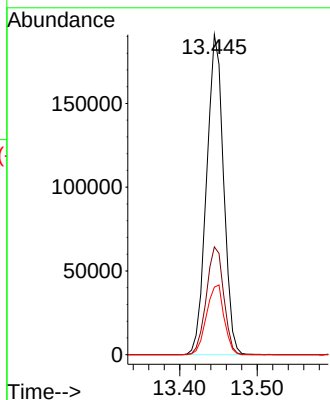
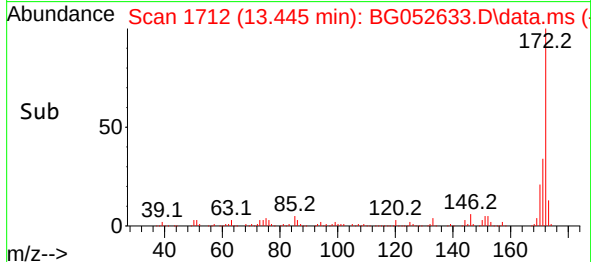
Instrument :
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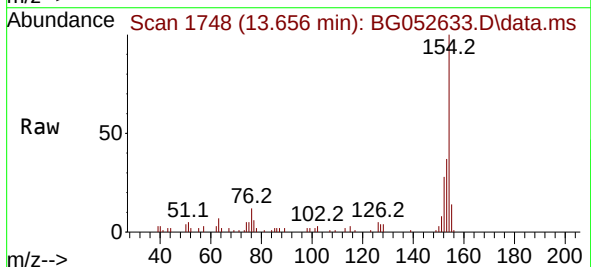
Tgt Ion:172 Resp: 29034
Ion Ratio Lower Upper
172 100
171 33.7 28.3 42.5
170 21.1 18.0 27.0

Manual Integrations
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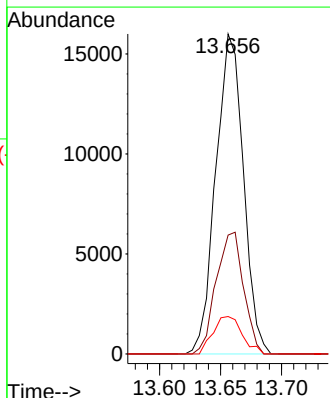
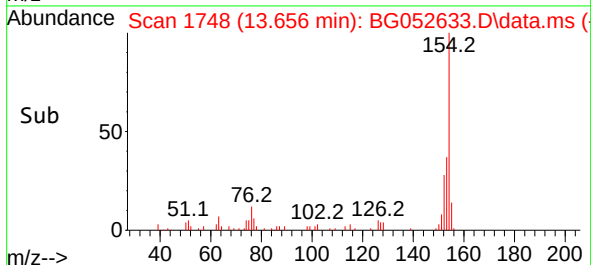
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022

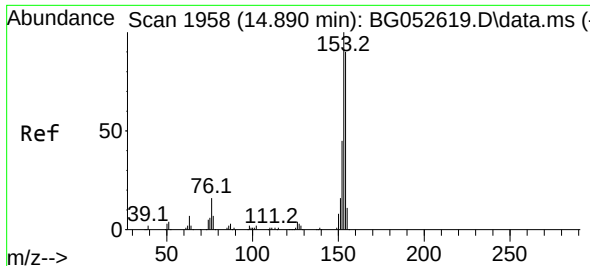


#46
1,1'-Biphenyl
Concen: 2.851 ng
RT: 13.656 min Scan# 1748
Delta R.T. -0.001 min
Lab File: BG052633.D
Acq: 10 Mar 2022 14:24



Tgt Ion:154 Resp: 25161
Ion Ratio Lower Upper
154 100
153 37.2 21.6 61.6
76 11.7 0.0 31.5





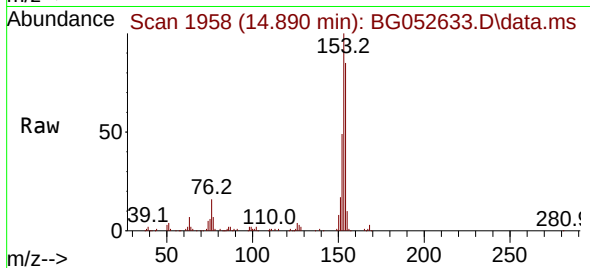
#52
Acenaphthene
Concen: 12.774 ng
RT: 14.890 min Scan# 1958
Delta R.T. -0.001 min
Lab File: BG052633.D
Acq: 10 Mar 2022 14:24

Instrument :

BNA_G

ClientSampleId :

SAMPLE-12

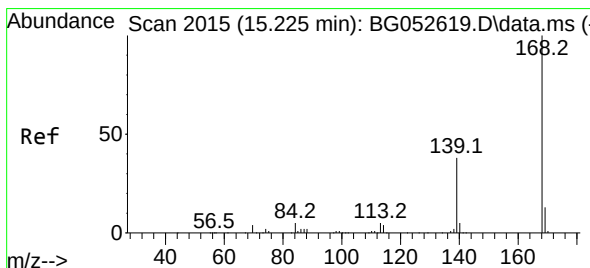
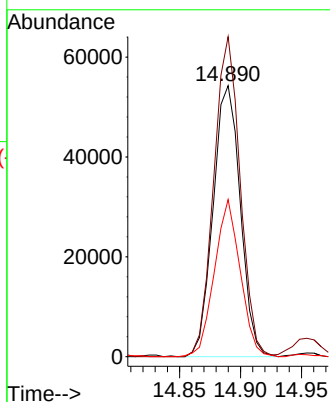
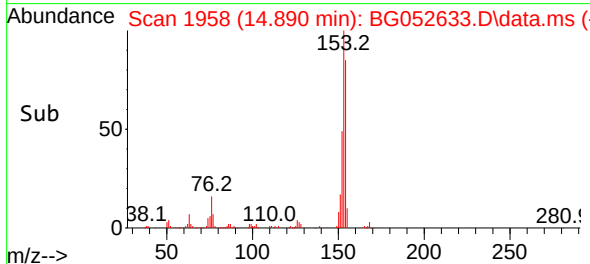


Tgt Ion:154 Resp: 8421
Ion Ratio Lower Upper
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153 118.1 89.0 133.4
152 58.0 40.5 60.7

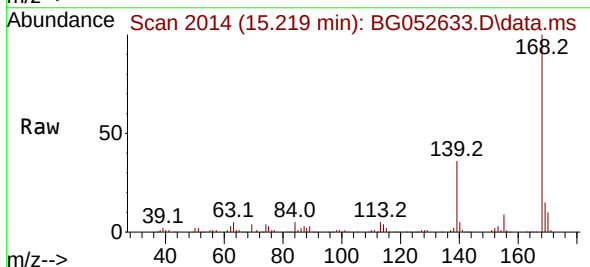
Manual Integrations

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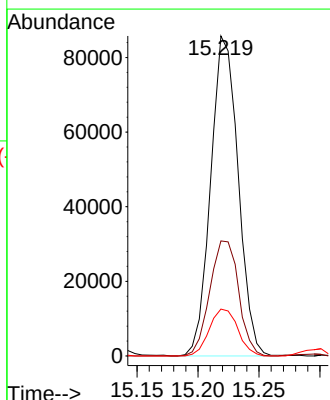
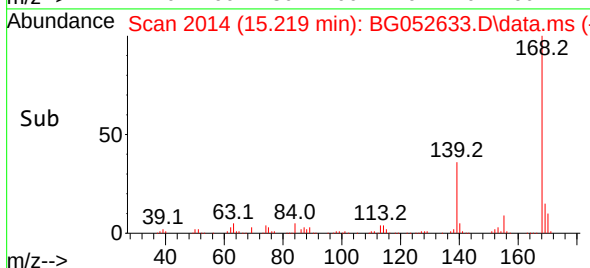
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022

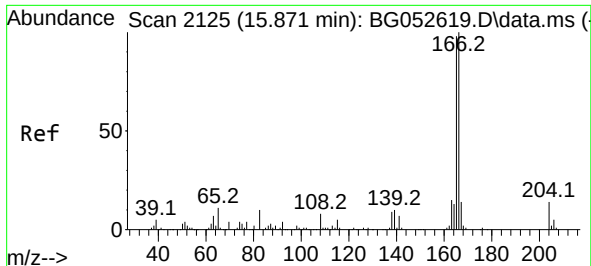


#55
Dibenzofuran
Concen: 12.022 ng
RT: 15.219 min Scan# 2014
Delta R.T. -0.007 min
Lab File: BG052633.D
Acq: 10 Mar 2022 14:24



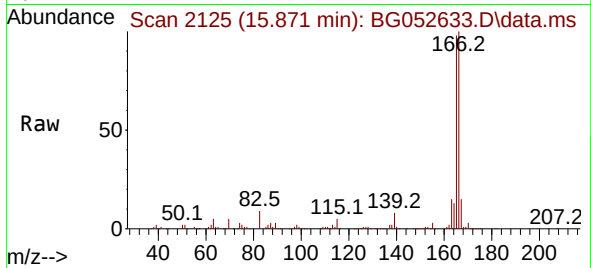
Tgt Ion:168 Resp: 134404
Ion Ratio Lower Upper
168 100
139 35.9 30.2 45.4
169 14.6 10.7 16.1





#58
Fluorene
Concen: 14.331 ng
RT: 15.871 min Scan# 2125
Delta R.T. -0.001 min
Lab File: BG052633.D
Acq: 10 Mar 2022 14:24

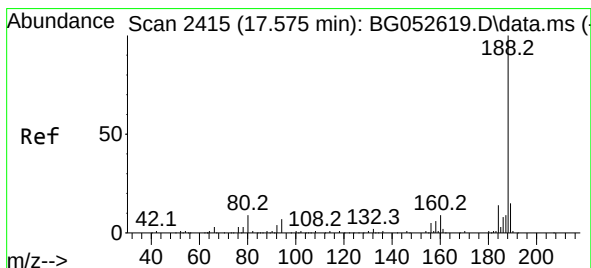
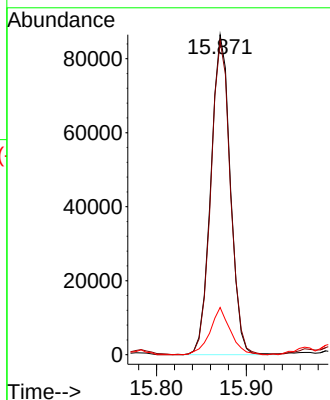
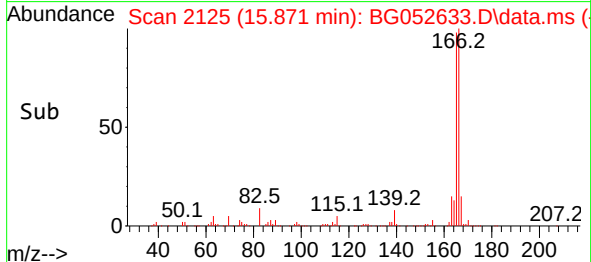
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12



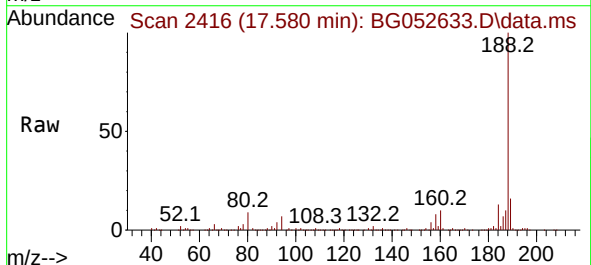
Tgt Ion:166 Resp: 130118
Ion Ratio Lower Upper
166 100
165 98.1 78.6 117.8
167 14.7 10.9 16.3

Manual Integrations
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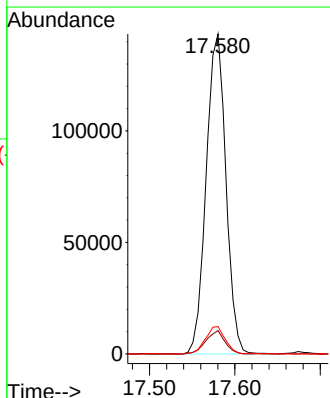
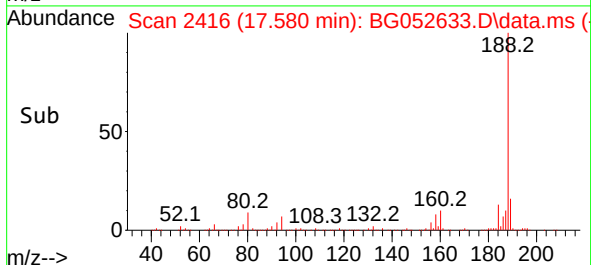
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022

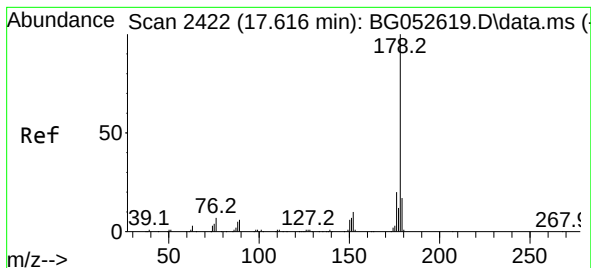


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.580 min Scan# 2416
Delta R.T. 0.005 min
Lab File: BG052633.D
Acq: 10 Mar 2022 14:24



Tgt Ion:188 Resp: 230849
Ion Ratio Lower Upper
188 100
94 7.3 5.7 8.5
80 8.5 7.2 10.8





#71

Phenanthrene

Concen: 102.251 ng

RT: 17.621 min Scan# 2422

Delta R.T. 0.005 min

Lab File: BG052633.D

Acq: 10 Mar 2022 14:24

Instrument :

BNA_G

ClientSampleId :

SAMPLE-12

Tgt Ion:178 Resp: 123845

Ion Ratio Lower Upper

178 100

176 20.2 15.9 23.9

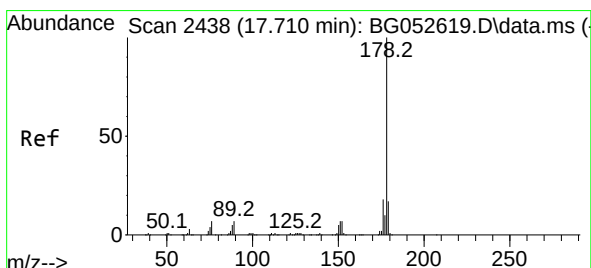
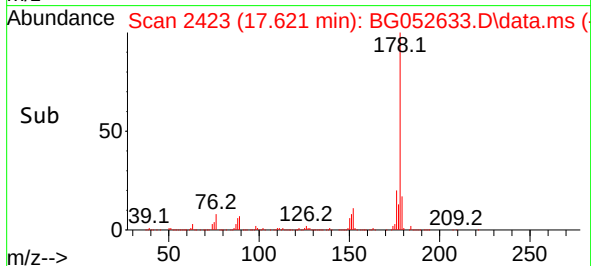
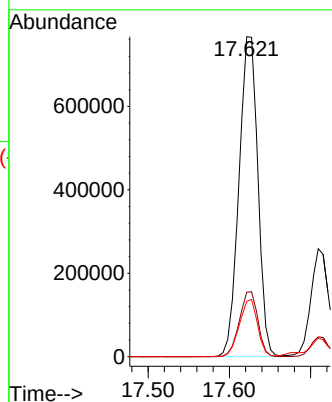
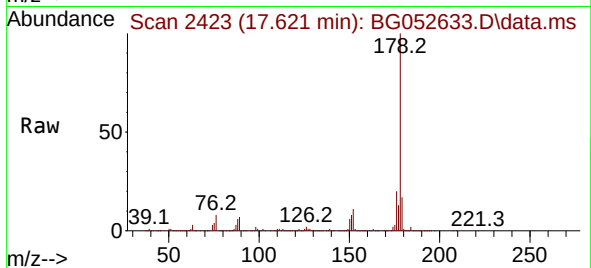
179 17.3 13.4 20.2

Manual Integrations

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Reviewed By :Christian Giraldo 03/11/2022

Supervised By :Jagrut Upadhyay 03/11/2022



#72

Anthracene

Concen: 32.546 ng

RT: 17.709 min Scan# 2438

Delta R.T. -0.001 min

Lab File: BG052633.D

Acq: 10 Mar 2022 14:24

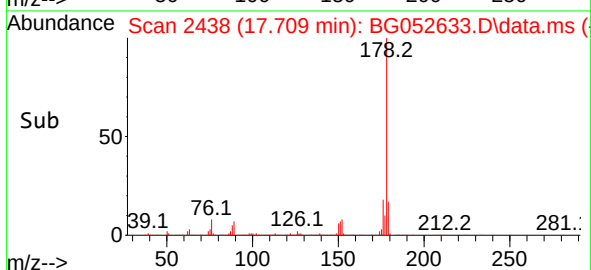
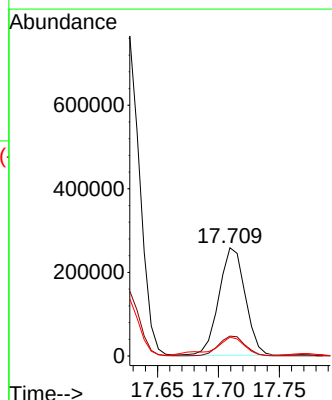
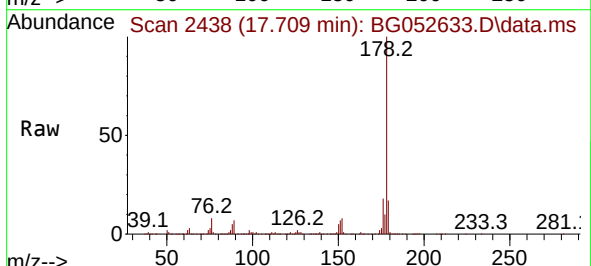
Tgt Ion:178 Resp: 385921

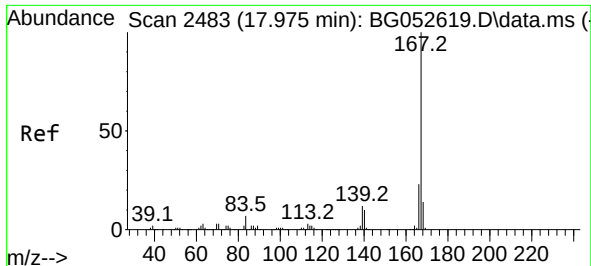
Ion Ratio Lower Upper

178 100

176 18.3 14.7 22.1

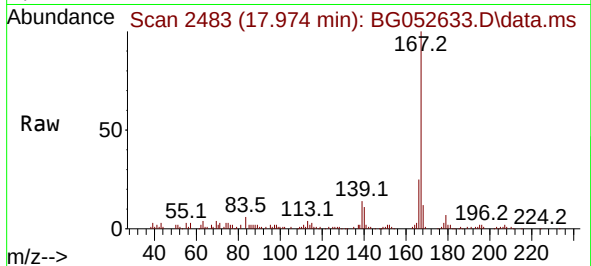
179 17.4 13.2 19.8





#73
 Carbazole
 Concen: 5.625 ng
 RT: 17.974 min Scan# 2483
 Delta R.T. -0.001 min
 Lab File: BG052633.D
 Acq: 10 Mar 2022 14:24

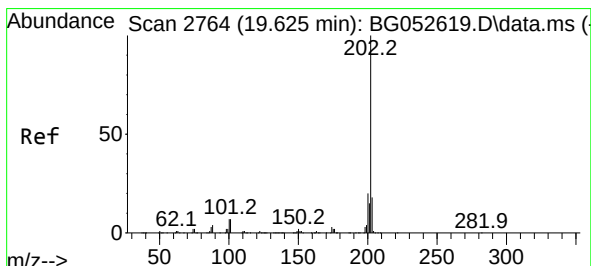
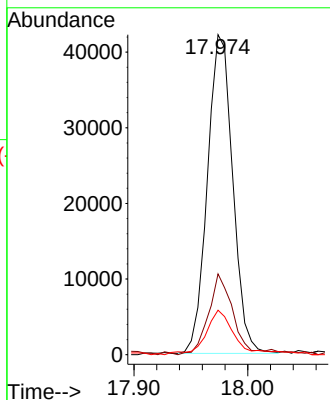
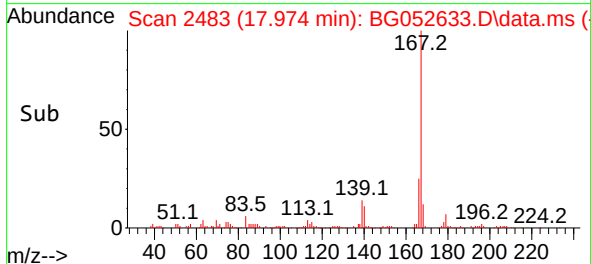
Instrument :
 BNA_G
 ClientSampleId :
 SAMPLE-12



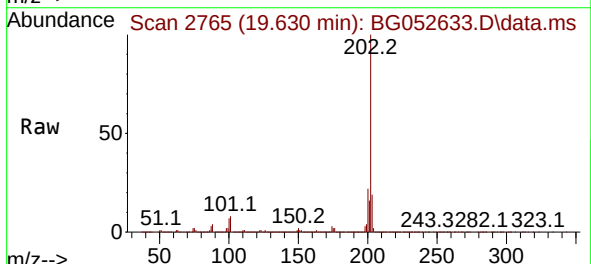
Tgt Ion:167 Resp: 65280
 Ion Ratio Lower Upper
 167 100
 166 25.3 18.5 27.7
 139 13.9 10.0 15.0

Manual Integrations
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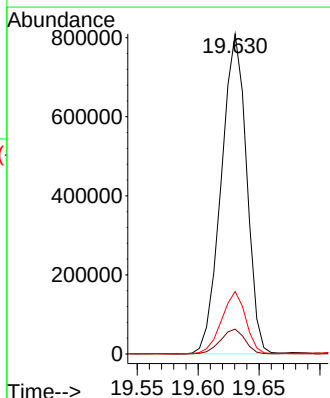
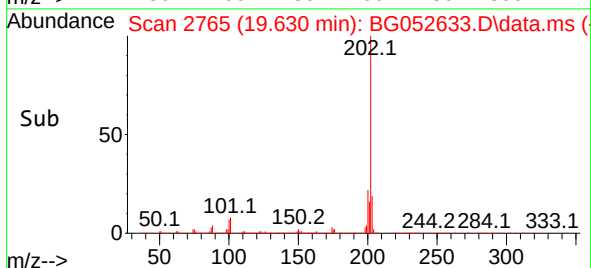
Reviewed By :Christian Giraldo 03/11/2022
 Supervised By :Jagrut Upadhyay 03/11/2022

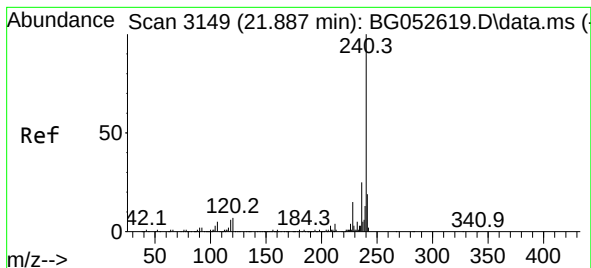


#75
 Fluoranthene
 Concen: 77.214 ng
 RT: 19.630 min Scan# 2765
 Delta R.T. 0.005 min
 Lab File: BG052633.D
 Acq: 10 Mar 2022 14:24



Tgt Ion:202 Resp: 1167737
 Ion Ratio Lower Upper
 202 100
 101 7.7 0.0 27.3
 203 19.5 0.0 37.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.886 min Scan# 3149

Delta R.T. -0.001 min

Lab File: BG052633.D

Acq: 10 Mar 2022 14:24

Instrument :

BNA_G

ClientSampleId :

SAMPLE-12

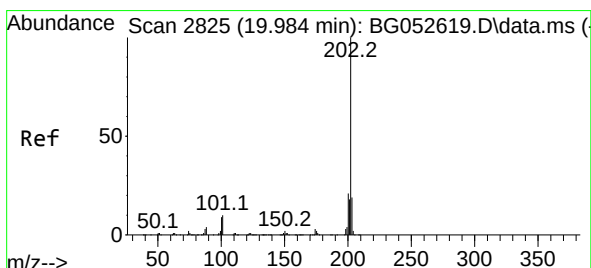
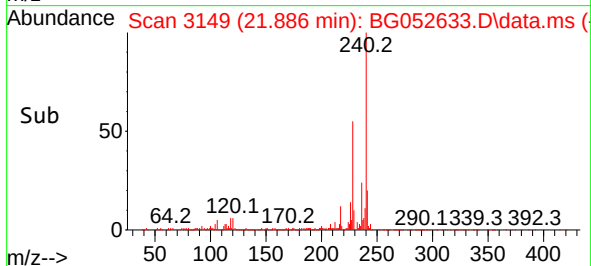
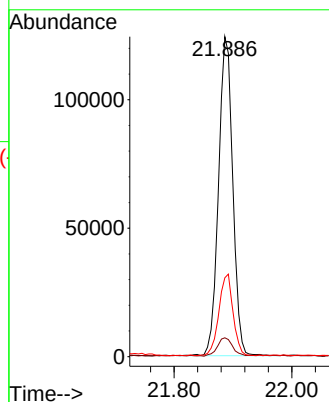
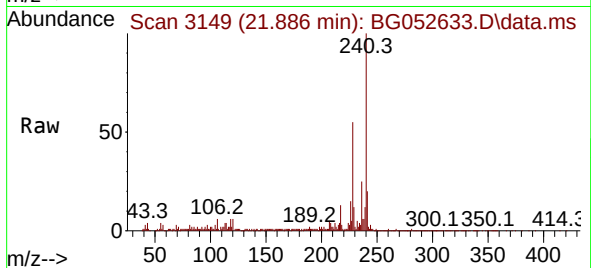
Tgt Ion:240 Resp: 208335
 Ion Ratio Lower Upper
 240 100
 120 5.9 5.4 8.0
 236 24.7 19.8 29.6

Manual Integrations

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Reviewed By :Christian Giraldo 03/11/2022

Supervised By :Jagrut Upadhyay 03/11/2022



#78

Pyrene

Concen: 68.482 ng

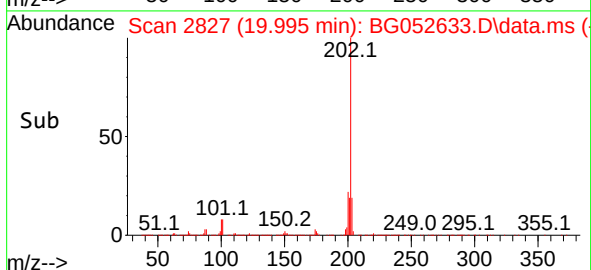
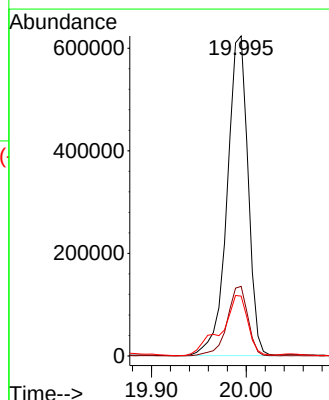
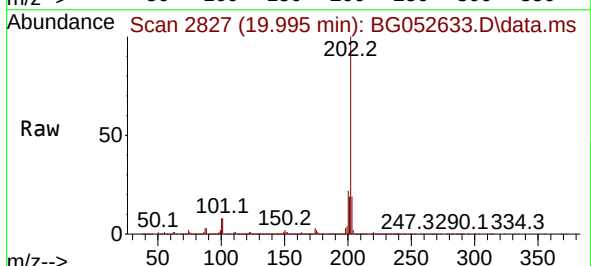
RT: 19.995 min Scan# 2827

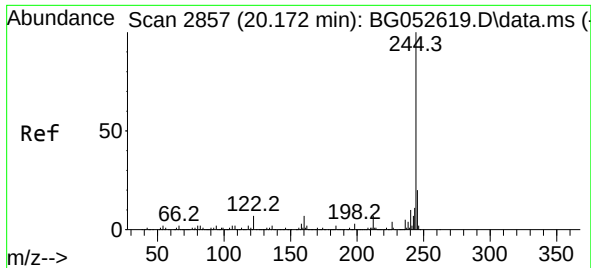
Delta R.T. 0.011 min

Lab File: BG052633.D

Acq: 10 Mar 2022 14:24

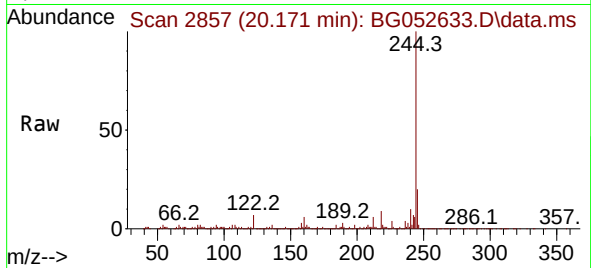
Tgt Ion:202 Resp: 953646
 Ion Ratio Lower Upper
 202 100
 200 21.7 17.0 25.6
 203 18.7 15.0 22.6





#79
 Terphenyl-d14
 Concen: 33.289 ng
 RT: 20.171 min Scan# 2857
 Delta R.T. -0.001 min
 Lab File: BG052633.D
 Acq: 10 Mar 2022 14:24

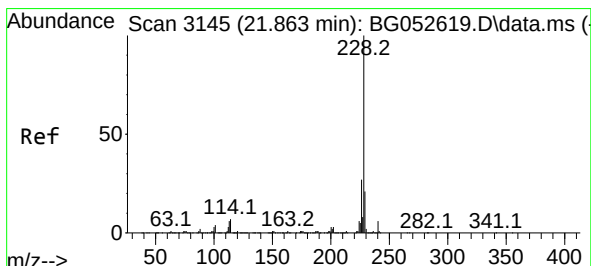
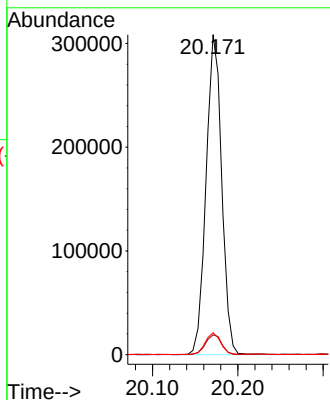
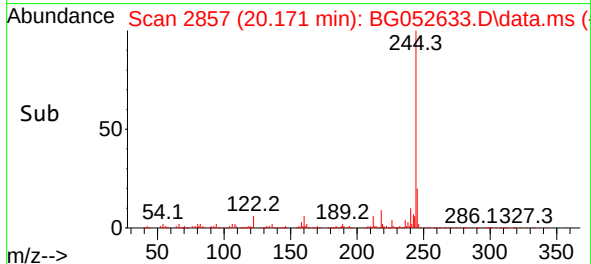
Instrument :
 BNA_G
 ClientSampleId :
 SAMPLE-12



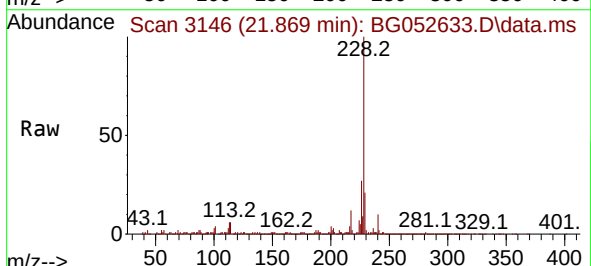
Tgt Ion:244 Resp: 39192
 Ion Ratio Lower Upper
 244 100
 212 6.2 5.4 8.2
 122 6.9 5.8 8.6

Manual Integrations
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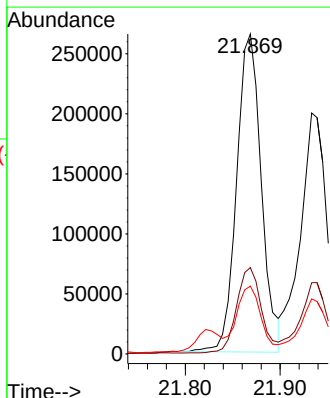
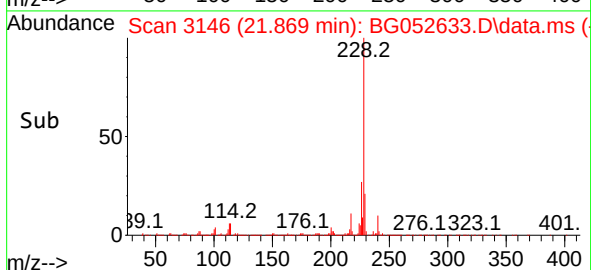
Reviewed By :Christian Giraldo 03/11/2022
 Supervised By :Jagrut Upadhyay 03/11/2022

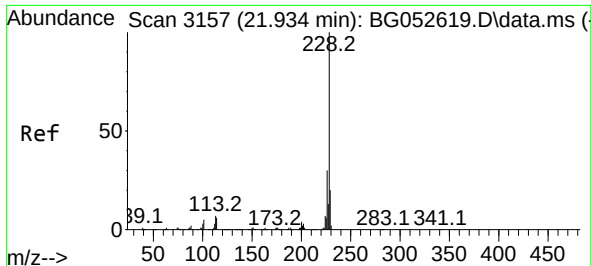


#81
 Benzo(a)anthracene
 Concen: 34.311 ng
 RT: 21.869 min Scan# 3146
 Delta R.T. 0.005 min
 Lab File: BG052633.D
 Acq: 10 Mar 2022 14:24



Tgt Ion:228 Resp: 478919
 Ion Ratio Lower Upper
 228 100
 226 27.0 21.4 32.0
 229 21.2 16.7 25.1





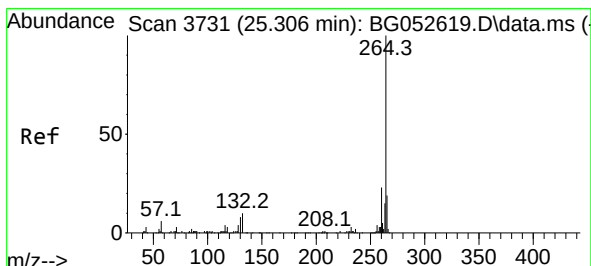
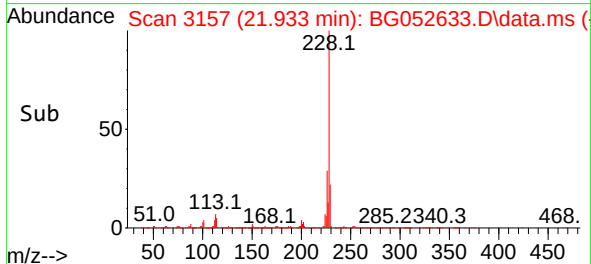
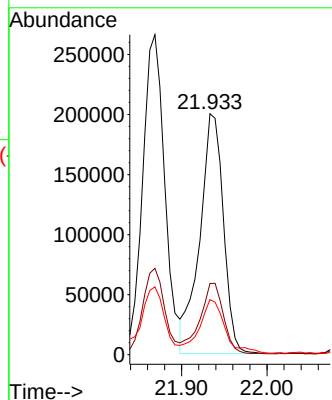
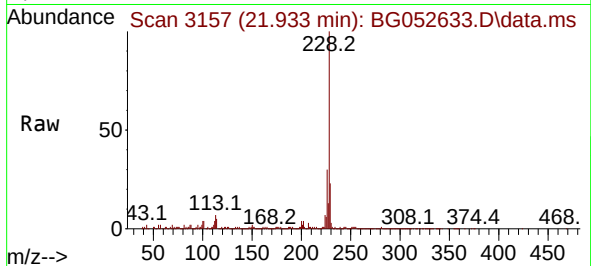
#83
Chrysene
Concen: 29.477 ng
RT: 21.933 min Scan# 3157
Delta R.T. -0.001 min
Lab File: BG052633.D
Acq: 10 Mar 2022 14:24

Instrument :
BNA_G
ClientSampleId :
SAMPLE-12

Tgt Ion:228 Resp: 384710
Ion Ratio Lower Upper
228 100
226 29.6 24.2 36.4
229 22.9 16.3 24.5

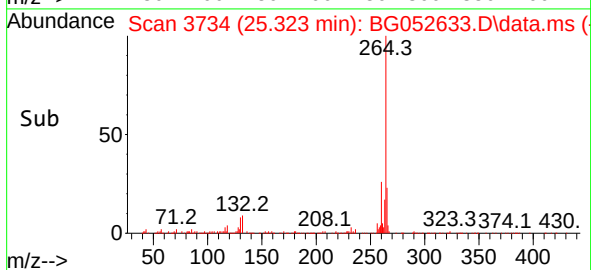
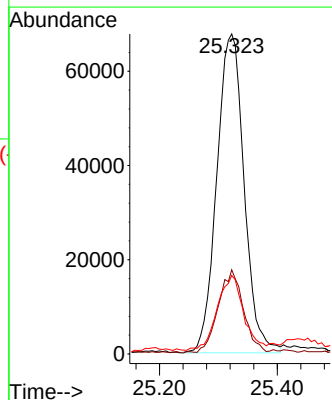
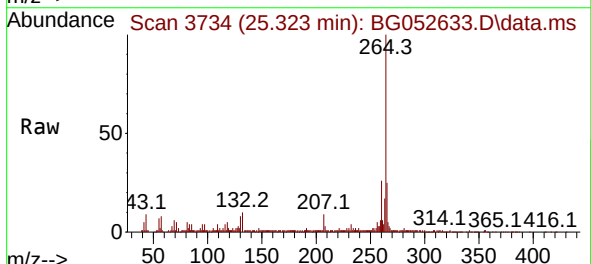
Manual Integrations
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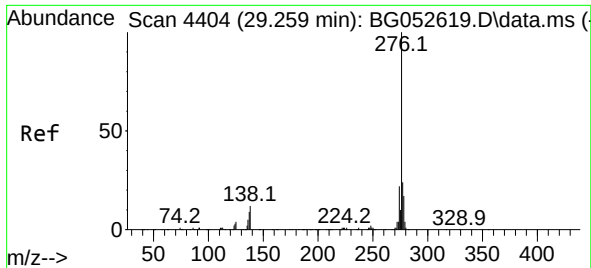
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.323 min Scan# 3734
Delta R.T. 0.017 min
Lab File: BG052633.D
Acq: 10 Mar 2022 14:24

Tgt Ion:264 Resp: 218173
Ion Ratio Lower Upper
264 100
260 26.3 18.2 27.2
265 24.5 15.1 22.7#





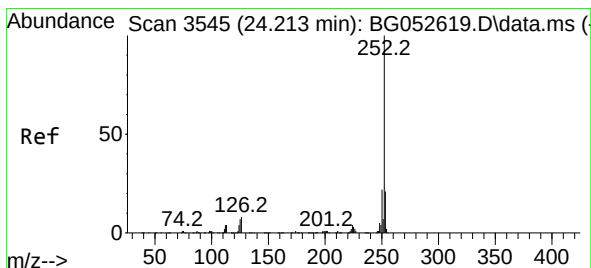
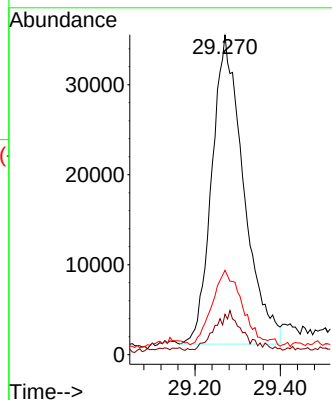
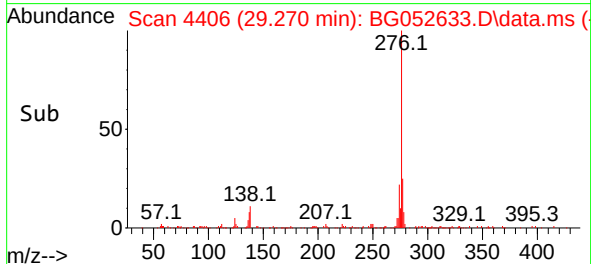
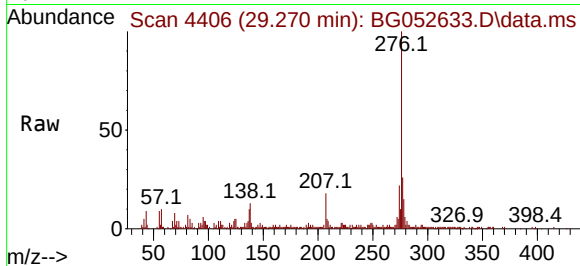
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 11.367 ng
 RT: 29.270 min Scan# 4404
 Delta R.T. 0.011 min
 Lab File: BG052633.D
 Acq: 10 Mar 2022 14:24

Instrument :
 BNA_G
 ClientSampleId :
 SAMPLE-12

Tgt Ion:276 Resp: 177718
 Ion Ratio Lower Upper
 276 100
 138 10.3 8.7 13.1
 277 22.6 20.2 30.4

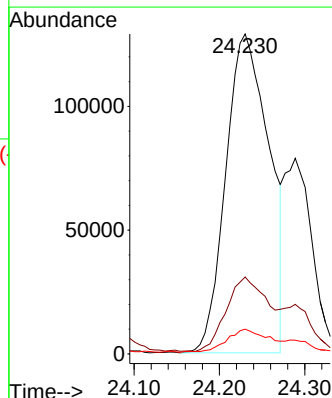
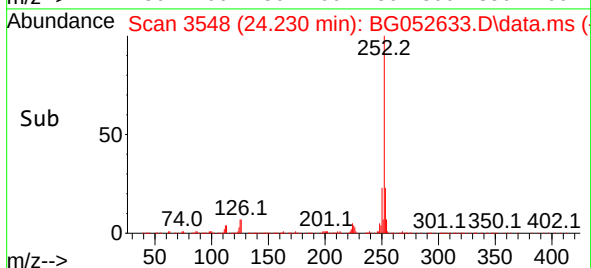
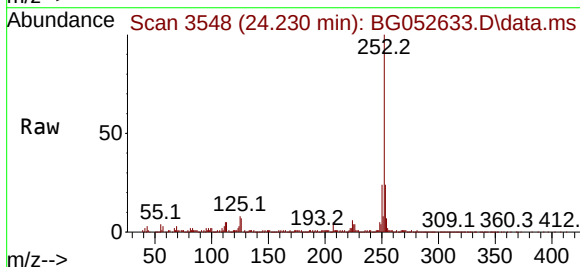
Manual Integrations
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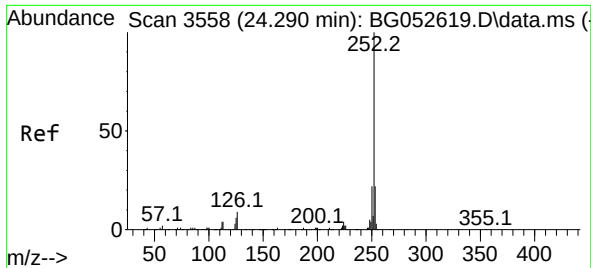
Reviewed By :Christian Giraldo 03/11/2022
 Supervised By :Jagrut Upadhyay 03/11/2022



#88
 Benzo(b)fluoranthene
 Concen: 33.716 ng
 RT: 24.230 min Scan# 3548
 Delta R.T. 0.017 min
 Lab File: BG052633.D
 Acq: 10 Mar 2022 14:24

Tgt Ion:252 Resp: 454161
 Ion Ratio Lower Upper
 252 100
 253 24.0 17.2 25.8
 125 7.8 5.2 7.8





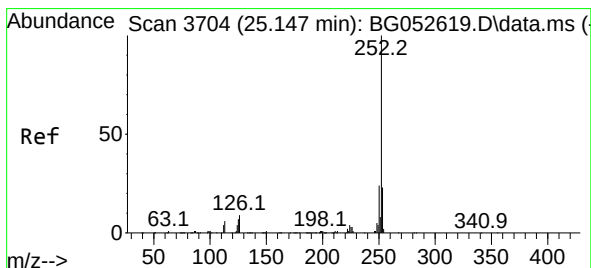
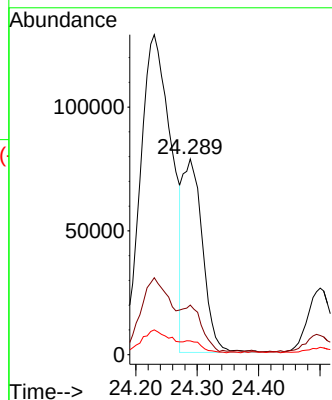
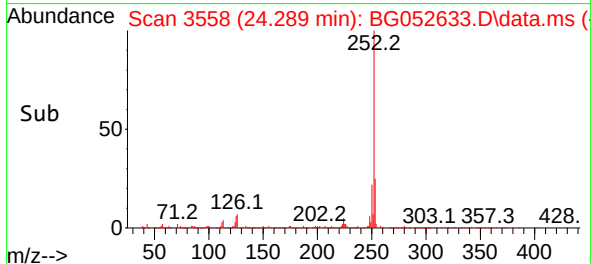
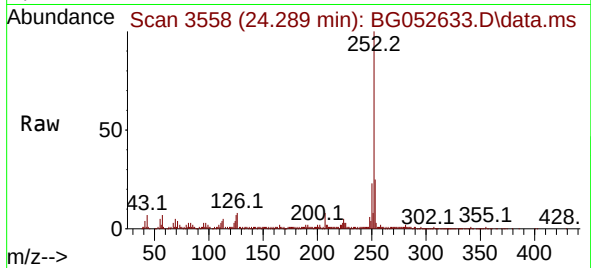
#89
Benzo(k)fluoranthene
Concen: 12.961 ng m
RT: 24.289 min Scan# 3558
Delta R.T. -0.001 min
Lab File: BG052633.D
Acq: 10 Mar 2022 14:24

Instrument :
BNA_G
ClientSampleId :
SAMPLE-12

Tgt Ion:252 Resp: 17558
Ion Ratio Lower Upper
252 100
253 25.4 17.4 26.0
125 7.0 5.0 7.4

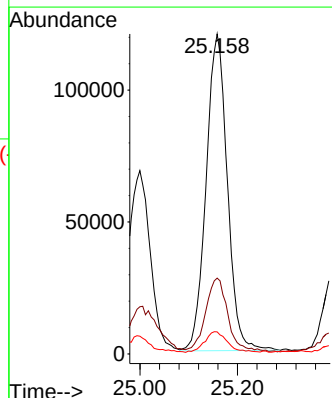
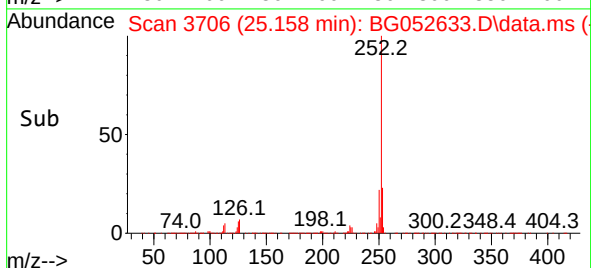
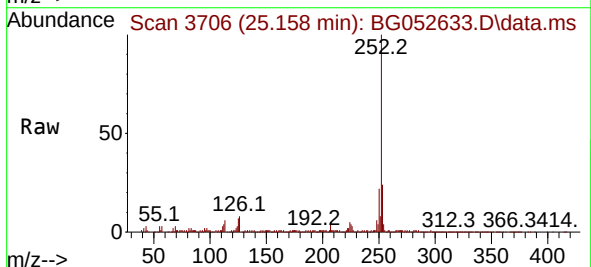
Manual Integrations
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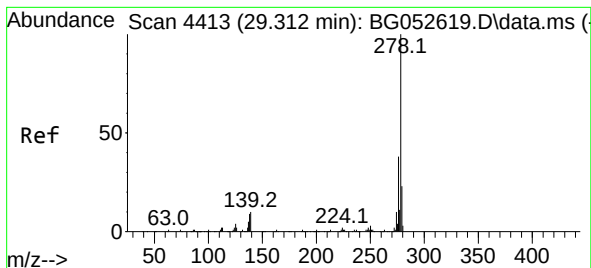
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022



#90
Benzo(a)pyrene
Concen: 31.785 ng
RT: 25.158 min Scan# 3706
Delta R.T. 0.011 min
Lab File: BG052633.D
Acq: 10 Mar 2022 14:24

Tgt Ion:252 Resp: 362261
Ion Ratio Lower Upper
252 100
253 23.7 18.4 27.6
125 6.9 5.6 8.4





#91

Dibenzo(a,h)anthracene

Concen: 3.414 ng

RT: 29.300 min Scan# 4413

Delta R.T. -0.012 min

Lab File: BG052633.D

Acq: 10 Mar 2022 14:24

Instrument :

BNA_G

ClientSampleId :

SAMPLE-12

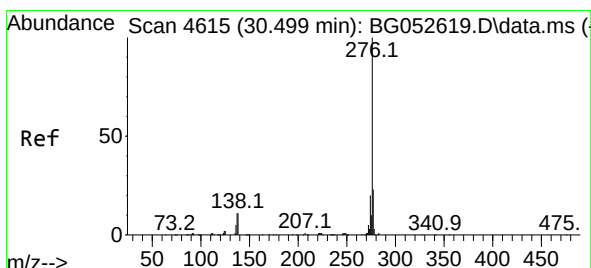
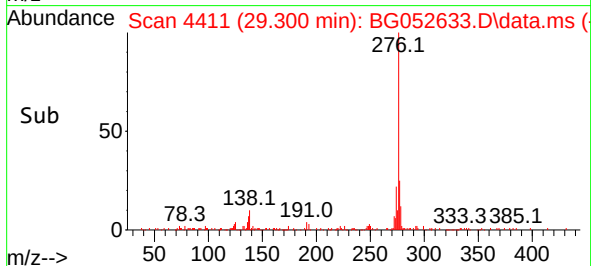
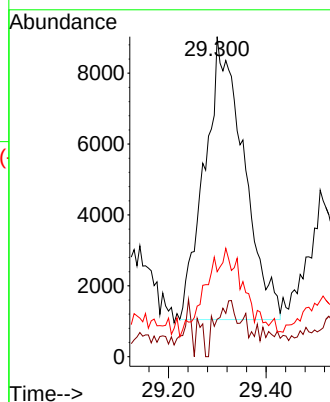
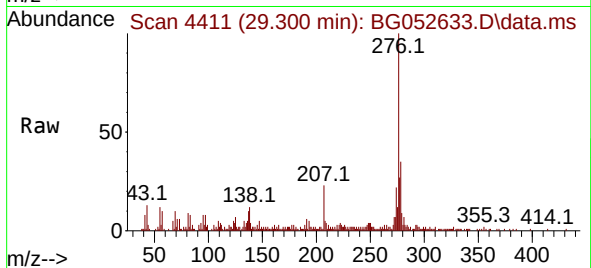
Tgt Ion:	278	Resp:	4429
Ion Ratio	Lower	Upper	
278	100		
139	11.7	7.8	11.6
279	26.6	18.5	27.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/11/2022

Supervised By :Jagrut Upadhyay 03/11/2022



#92

Benzo(g,h,i)perylene

Concen: 12.300 ng

RT: 30.510 min Scan# 4617

Delta R.T. 0.011 min

Lab File: BG052633.D

Acq: 10 Mar 2022 14:24

Tgt Ion:	276	Resp:	155757
Ion Ratio	Lower	Upper	
276	100		
277	24.2	18.2	27.2
138	12.2	9.1	13.7

