

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031022\
 Data File : BG052638.D
 Acq On : 10 Mar 2022 17:37
 Operator : CG/JU
 Sample : N1845-12RE 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SAMPLE-12RE

Manual Integrations
 APPROVED

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

Quant Time: Mar 11 03:45:23 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	8.181	152	44708	20.000	ng	0.00
21) Naphthalene-d8	11.012	136	187705	20.000	ng	0.00
39) Acenaphthene-d10	14.831	164	117900	20.000	ng	0.00
64) Phenanthrene-d10	17.580	188	229147	20.000	ng	0.00
76) Chrysene-d12	21.892	240	194618	20.000	ng	0.00
86) Perylene-d12	25.328	264	167130	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.708	112	38260	14.784	ng	0.00
7) Phenol-d6	7.329	99	155377	41.483	ng	0.00
23) Nitrobenzene-d5	9.350	82	121654	29.380	ng	0.00
42) 2,4,6-Tribromophenol	16.323	330	4361	2.608	ng	0.00
45) 2-Fluorobiphenyl	13.450	172	286162	32.761	ng	0.00
79) Terphenyl-d14	20.177	244	362846	32.991	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.065	128	40427	4.093	ng	# 96
37) 2-Methylnaphthalene	12.663	142	31801	4.456	ng	99
38) 1-Methylnaphthalene	12.881	142	31126	4.442	ng	99
46) 1,1'-Biphenyl	13.662	154	25934	2.941	ng	100
52) Acenaphthene	14.895	154	83348	12.654	ng	99
55) Dibenzofuran	15.224	168	136342	12.207	ng	98
58) Fluorene	15.877	166	128930	14.213	ng	98
71) Phenanthrene	17.627	178	1227711	102.117	ng	98
72) Anthracene	17.715	178	385999	32.794	ng	98
73) Carbazole	17.980	167	64868	5.631	ng	96
75) Fluoranthene	19.636	202	1112083	74.080	ng	97
78) Pyrene	19.994	202	899832	69.172	ng	99
81) Benzo(a)anthracene	21.874	228	453061	34.746	ng	97
83) Chrysene	21.945	228	367875	30.174	ng	96
87) Indeno(1,2,3-cd)pyrene	29.300	276	105511m	8.809	ng	
88) Benzo(b)fluoranthene	24.242	252	374797	36.322	ng	95
89) Benzo(k)fluoranthene	24.300	252	166040m	16.000	ng	
90) Benzo(a)pyrene	25.170	252	295967	33.899	ng	99
91) Dibenzo(a,h)anthracene	29.352	278	27799m	2.797	ng	
92) Benzo(g,h,i)perylene	30.533	276	87598m	9.030	ng	

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

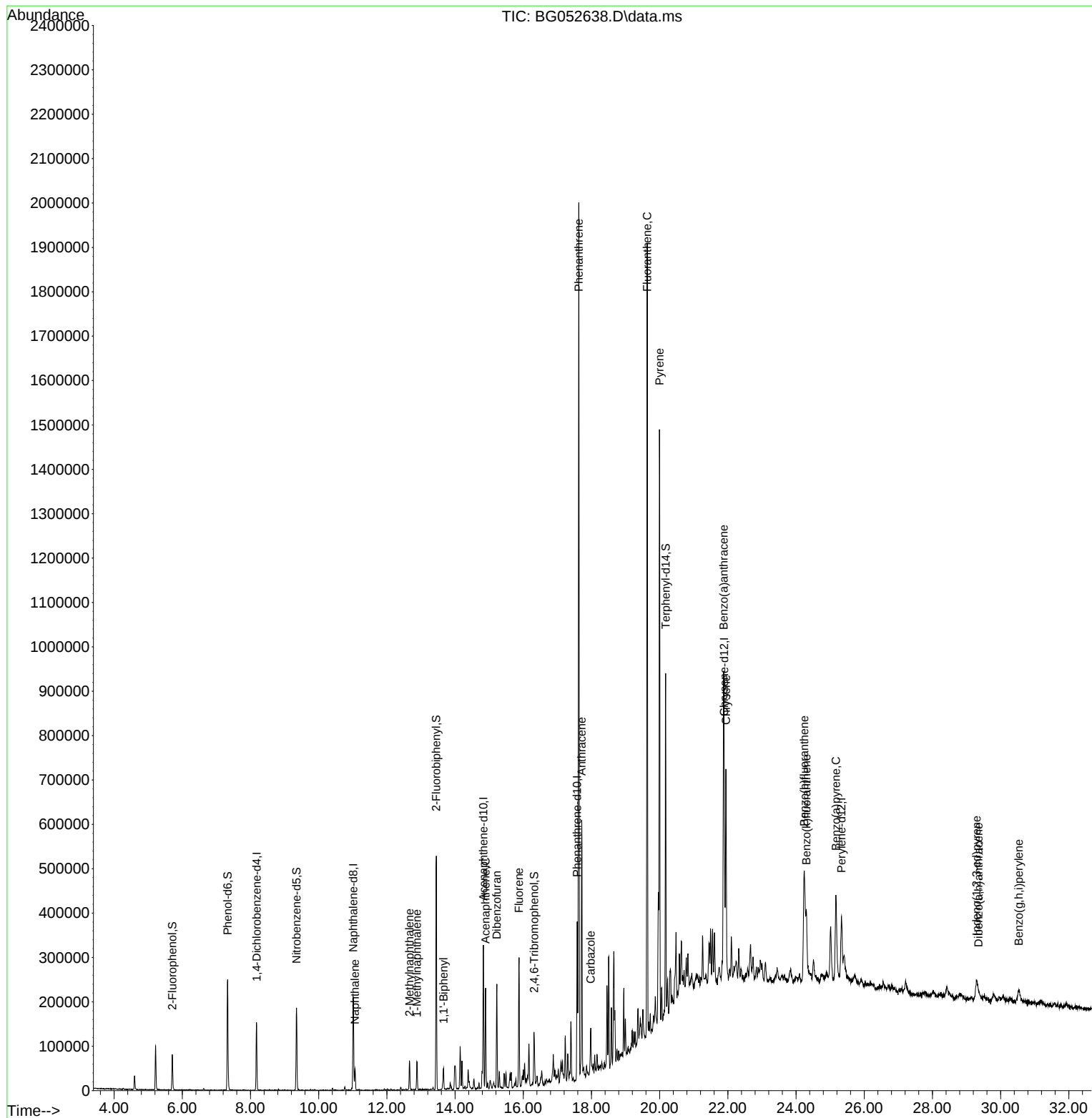
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG031022\
Data File : BG052638.D
Acq On : 10 Mar 2022 17:37
Operator : CG/JU
Sample : N1845-12RE 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

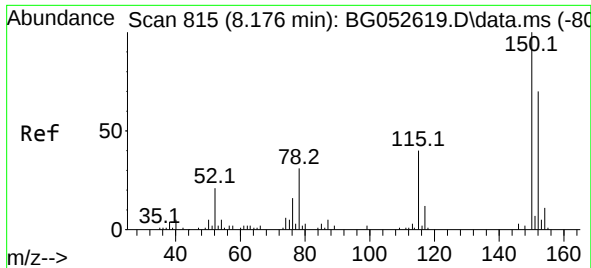
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12RE

Quant Time: Mar 11 03:45:23 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

Manual Integrations
APPROVED

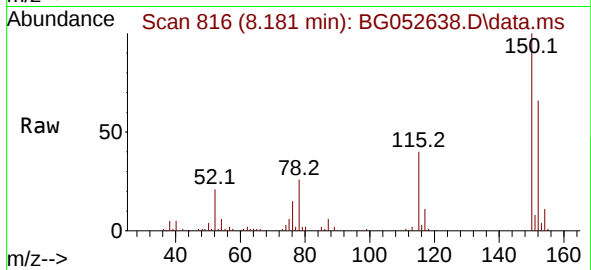
Reviewed By : Christian Giraldo 03/11/2022
Supervised By : Jagrut Upadhyay 03/11/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.181 min Scan# 815
Delta R.T. 0.005 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37

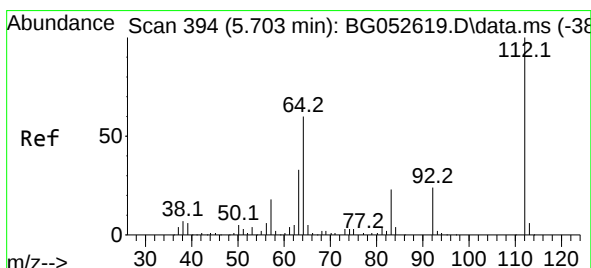
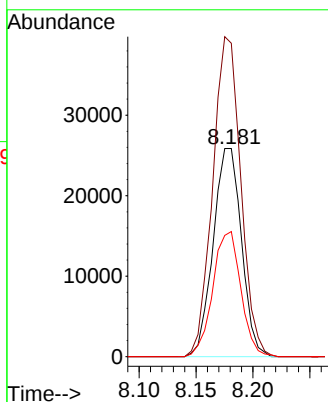
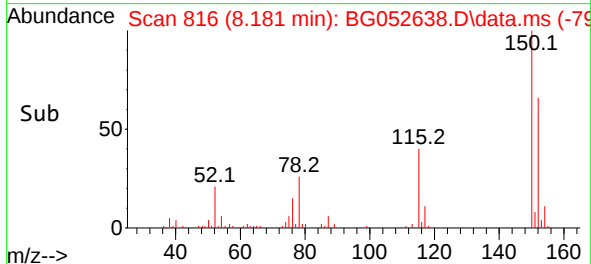
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12RE



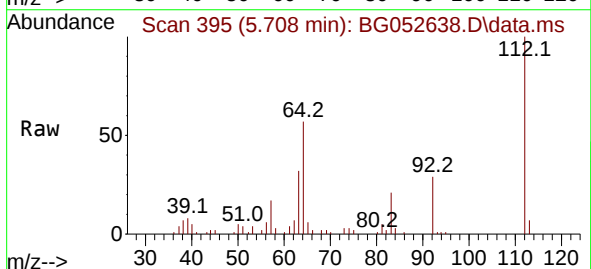
Tgt Ion:152 Resp: 44708
Ion Ratio Lower Upper
152 100
150 150.5 114.6 172.0
115 60.1 45.9 68.9

Manual Integrations
APPROVED

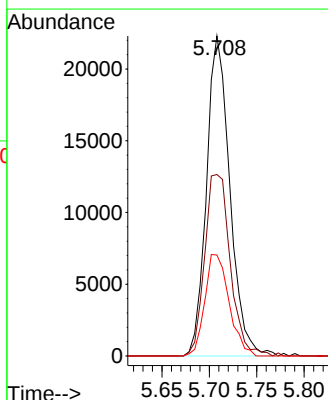
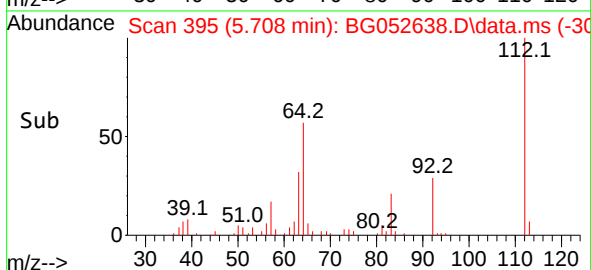
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022

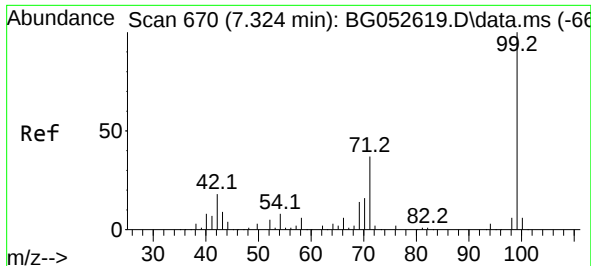


#5
2-Fluorophenol
Concen: 14.784 ng
RT: 5.708 min Scan# 395
Delta R.T. 0.005 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37



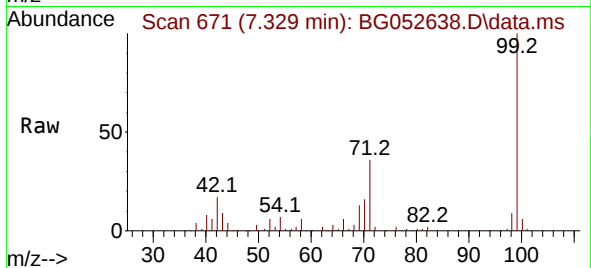
Tgt Ion:112 Resp: 38260
Ion Ratio Lower Upper
112 100
64 56.7 48.0 72.0
63 31.5 26.5 39.7





#7
Phenol-d6
Concen: 41.483 ng
RT: 7.329 min Scan# 61
Delta R.T. 0.005 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37

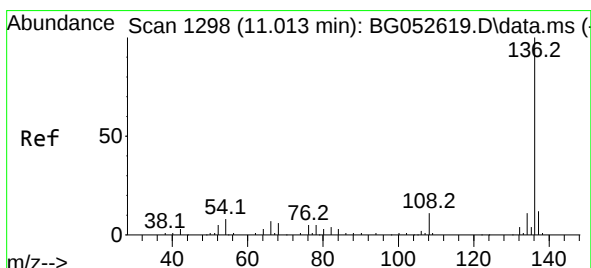
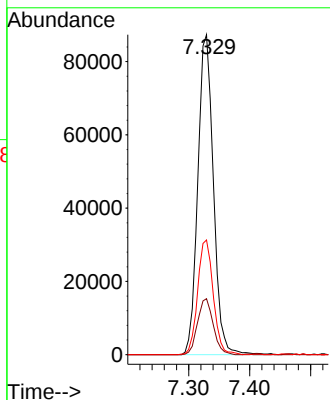
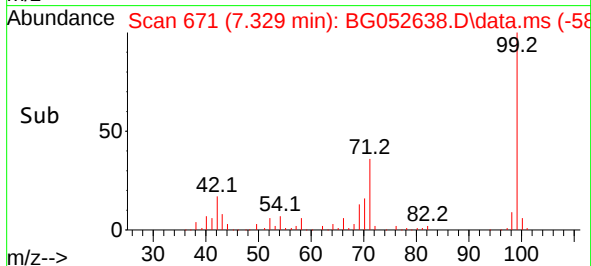
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12RE



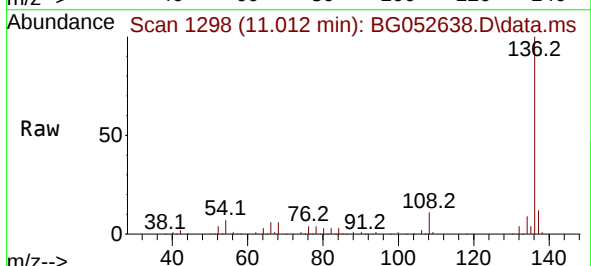
Tgt Ion: 99 Resp: 15537
Ion Ratio Lower Upper
99 100
42 17.5 14.7 22.1
71 35.8 29.2 43.8

Manual Integrations
APPROVED

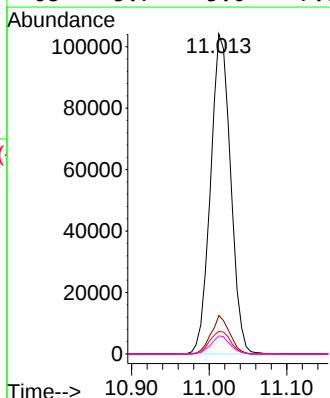
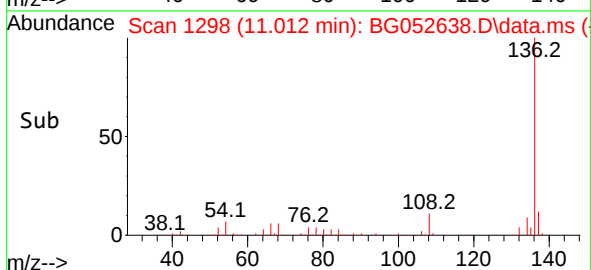
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022

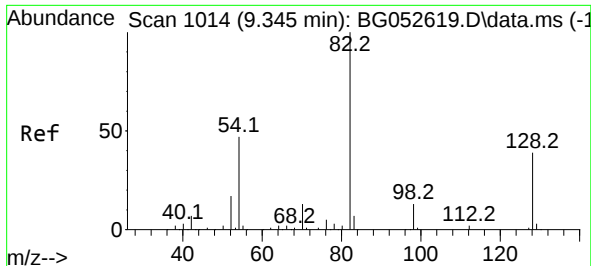


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.012 min Scan# 1298
Delta R.T. -0.001 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37



Tgt Ion:136 Resp: 187705
Ion Ratio Lower Upper
136 100
137 12.0 9.4 14.2
54 7.0 6.4 9.6
68 5.7 5.0 7.6





#23

Nitrobenzene-d5

Concen: 29.380 ng

RT: 9.350 min Scan# 1014

Delta R.T. 0.005 min

Lab File: BG052638.D

Acq: 10 Mar 2022 17:37

Instrument :

BNA_G

ClientSampleId :

SAMPLE-12RE

Tgt Ion: 82 Resp: 121654

Ion Ratio Lower Upper

82 100

128 39.7 31.3 46.9

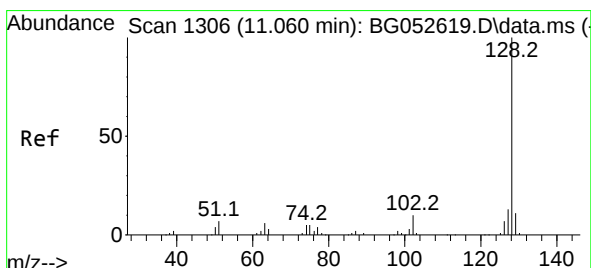
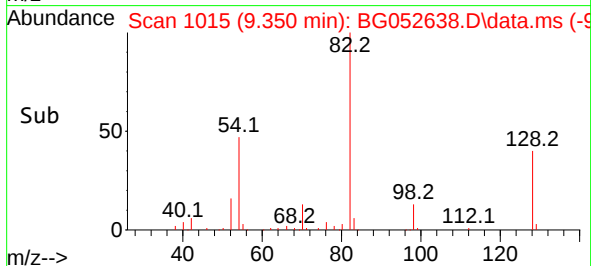
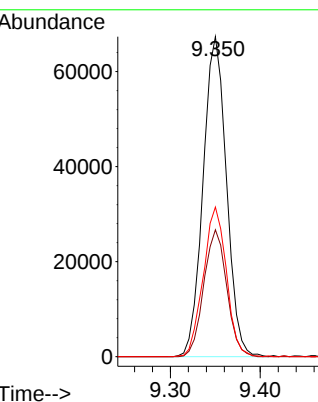
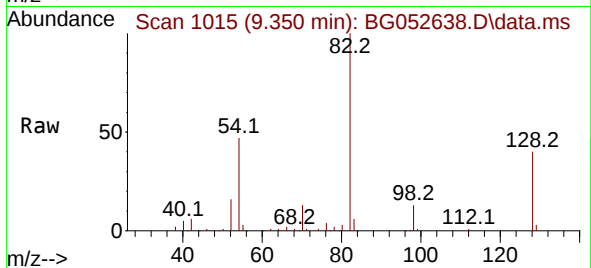
54 46.7 37.8 56.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/11/2022

Supervised By :Jagrut Upadhyay 03/11/2022



#31

Naphthalene

Concen: 4.093 ng

RT: 11.065 min Scan# 1307

Delta R.T. 0.005 min

Lab File: BG052638.D

Acq: 10 Mar 2022 17:37

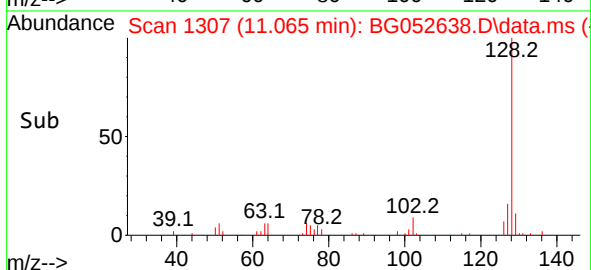
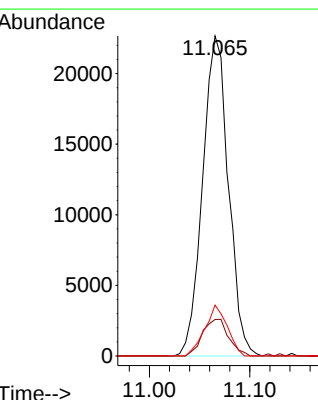
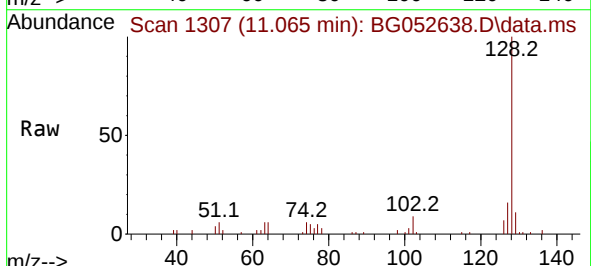
Tgt Ion:128 Resp: 40427

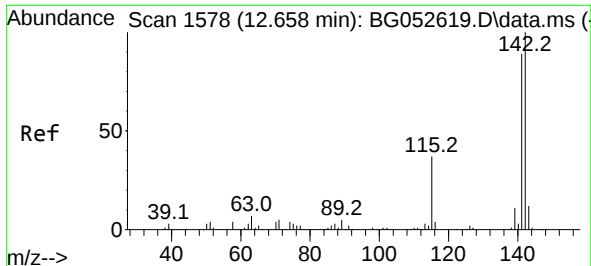
Ion Ratio Lower Upper

128 100

129 11.4 8.8 13.2

127 15.9 10.5 15.7#





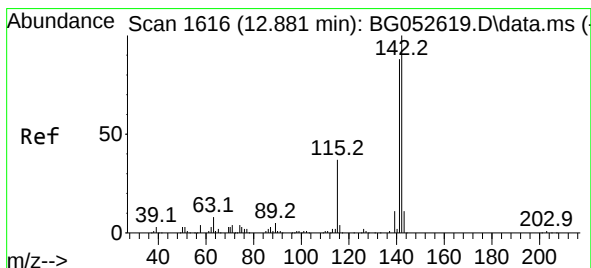
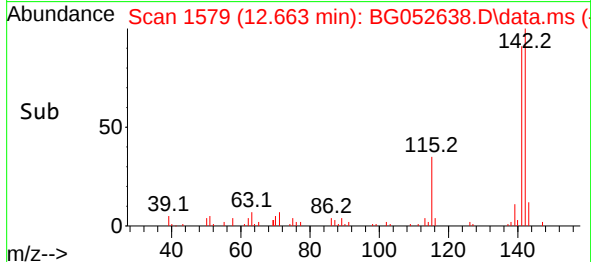
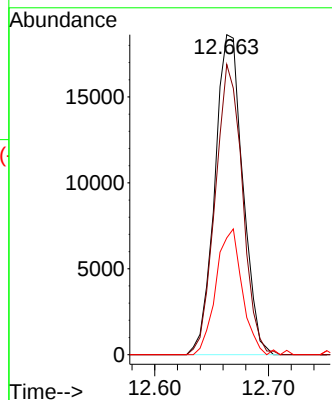
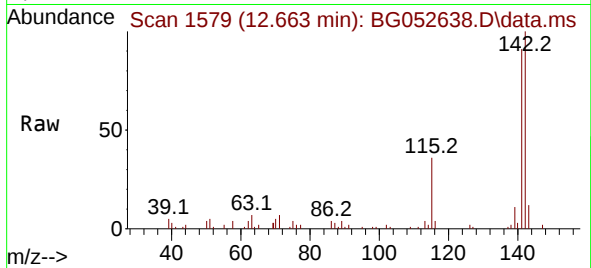
#37
2-Methylnaphthalene
Concen: 4.456 ng
RT: 12.663 min Scan# 1579
Delta R.T. 0.005 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37

Instrument :
BNA_G
ClientSampleId :
SAMPLE-12RE

Tgt Ion:142 Resp: 3180
Ion Ratio Lower Upper
142 100
141 90.7 71.3 106.9
115 36.5 29.5 44.3

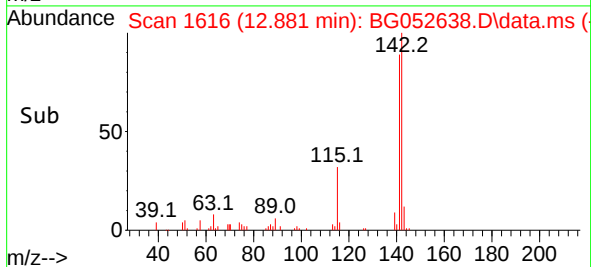
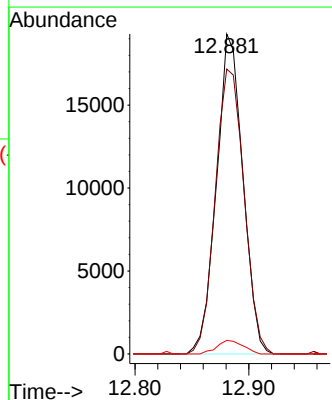
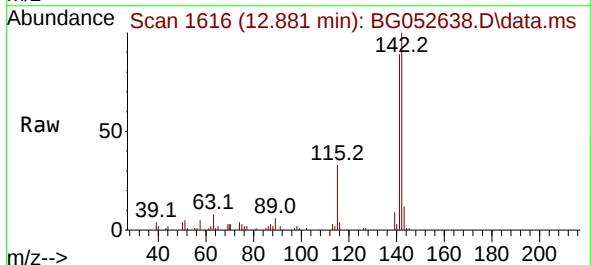
Manual Integrations
APPROVED

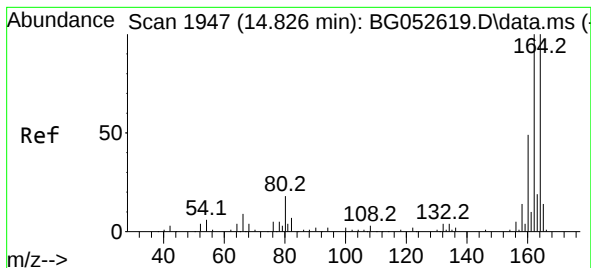
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022



#38
1-Methylnaphthalene
Concen: 4.442 ng
RT: 12.881 min Scan# 1616
Delta R.T. -0.001 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37

Tgt Ion:142 Resp: 31126
Ion Ratio Lower Upper
142 100
141 89.1 70.5 105.7
116 4.3 3.1 4.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.831 min Scan# 1948

Delta R.T. 0.005 min

Lab File: BG052638.D

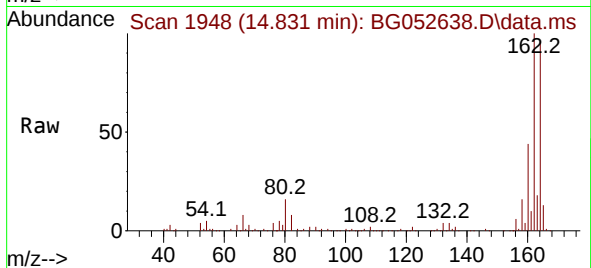
Acq: 10 Mar 2022 17:37

Instrument :

BNA_G

ClientSampleId :

SAMPLE-12RE



Tgt Ion:164 Resp: 117900

Ion Ratio Lower Upper

164 100

162 104.2 80.0 120.0

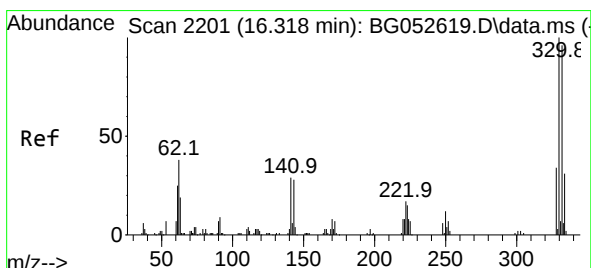
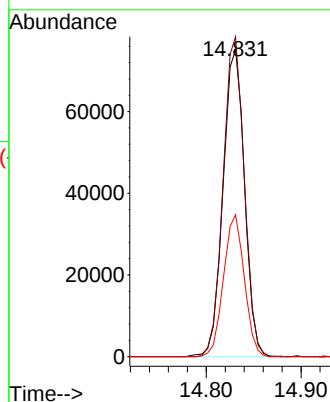
160 46.2 38.8 58.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/11/2022

Supervised By :Jagrut Upadhyay 03/11/2022



#42

2,4,6-Tribromophenol

Concen: 2.608 ng

RT: 16.323 min Scan# 2202

Delta R.T. 0.005 min

Lab File: BG052638.D

Acq: 10 Mar 2022 17:37

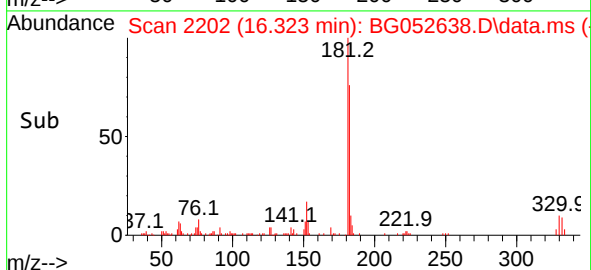
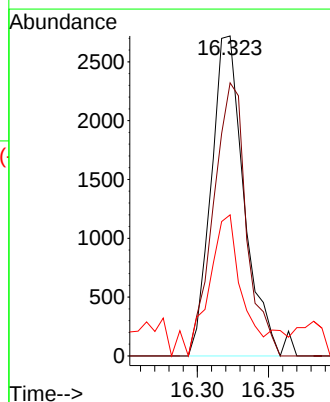
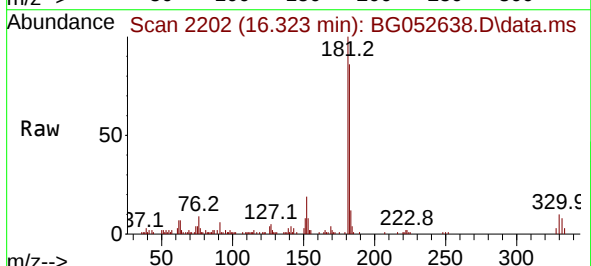
Tgt Ion:330 Resp: 4361

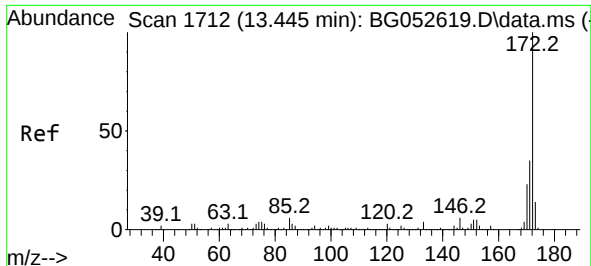
Ion Ratio Lower Upper

330 100

332 86.1 75.8 113.6

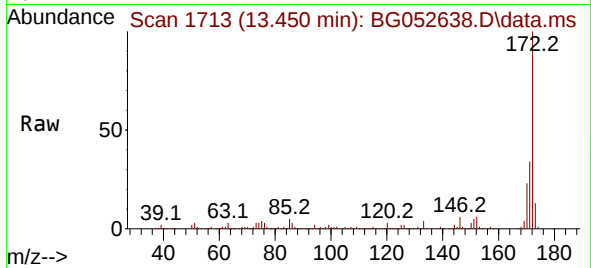
141 42.7 24.6 36.8#





#45
2-Fluorobiphenyl
Concen: 32.761 ng
RT: 13.450 min Scan# 1712
Delta R.T. 0.005 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37

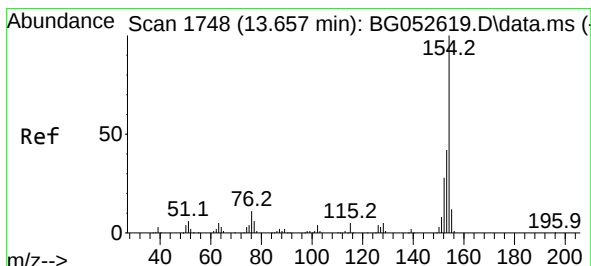
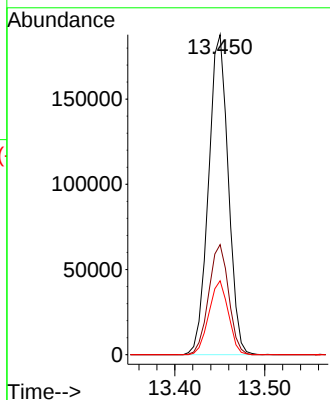
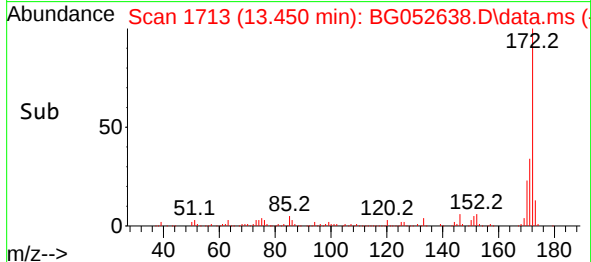
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12RE



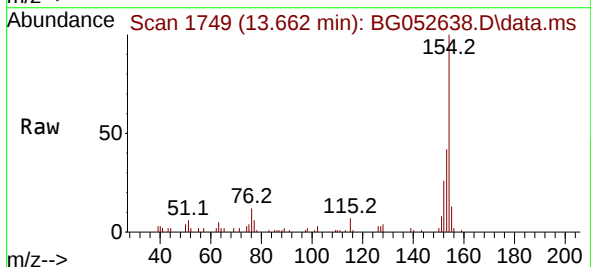
Tgt Ion:172 Resp: 286162
Ion Ratio Lower Upper
172 100
171 34.4 28.3 42.5
170 23.1 18.0 27.0

Manual Integrations
APPROVED

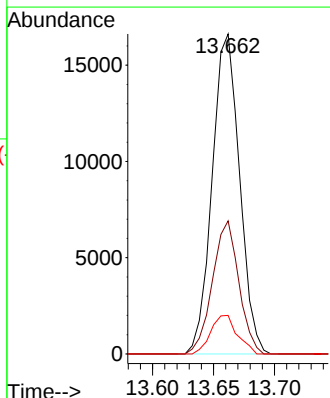
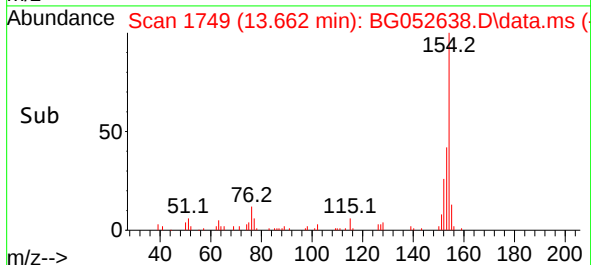
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022

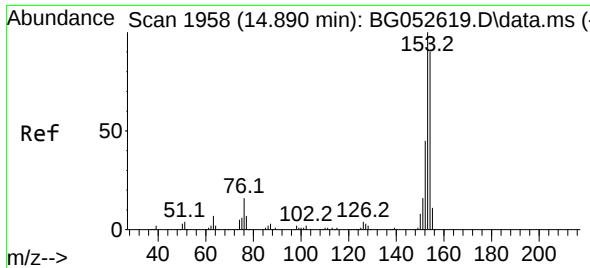


#46
1,1'-Biphenyl
Concen: 2.941 ng
RT: 13.662 min Scan# 1749
Delta R.T. 0.005 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37



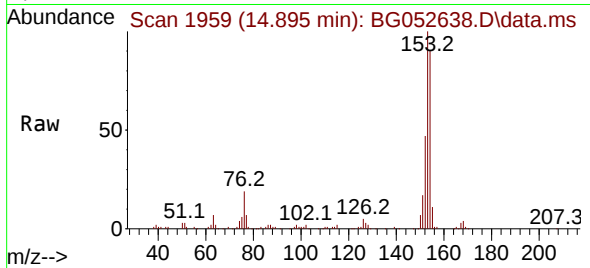
Tgt Ion:154 Resp: 25934
Ion Ratio Lower Upper
154 100
153 41.6 21.6 61.6
76 12.0 0.0 31.5





#52
Acenaphthene
Concen: 12.654 ng
RT: 14.895 min Scan# 1958
Delta R.T. 0.005 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37

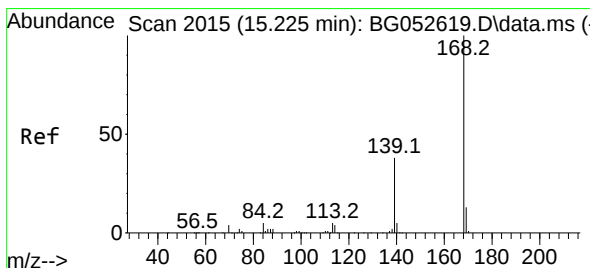
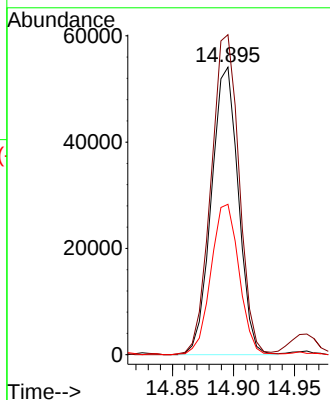
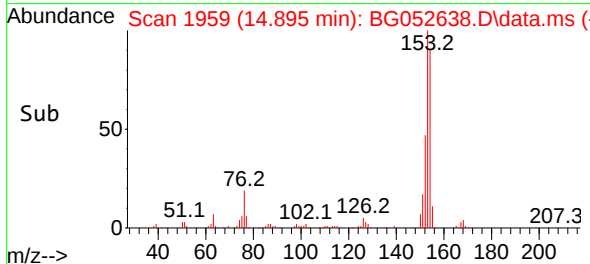
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12RE



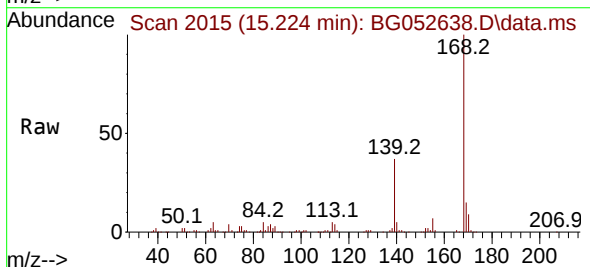
Tgt Ion:154 Resp: 8334
Ion Ratio Lower Upper
154 100
153 111.3 89.0 133.4
152 52.3 40.5 60.7

Manual Integrations
APPROVED

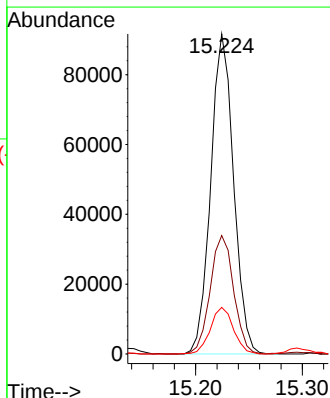
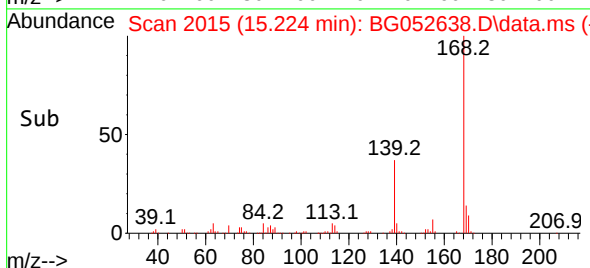
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022

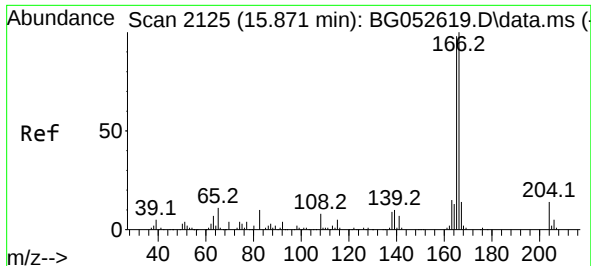


#55
Dibenzofuran
Concen: 12.207 ng
RT: 15.224 min Scan# 2015
Delta R.T. -0.001 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37



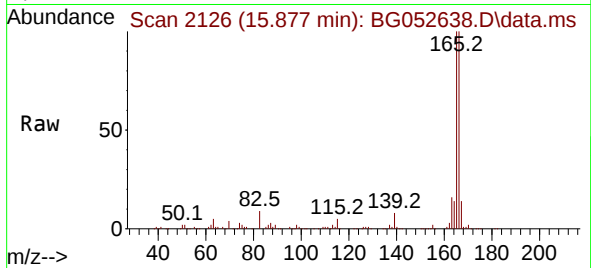
Tgt Ion:168 Resp: 136342
Ion Ratio Lower Upper
168 100
139 37.0 30.2 45.4
169 14.5 10.7 16.1





#58
Fluorene
Concen: 14.213 ng
RT: 15.877 min Scan# 2125
Delta R.T. 0.005 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37

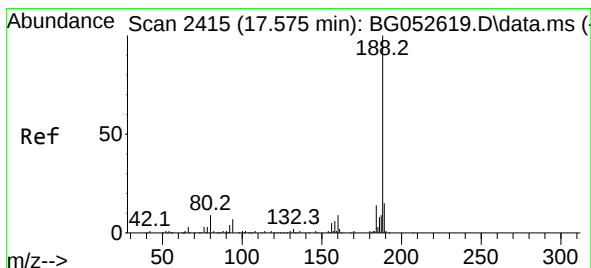
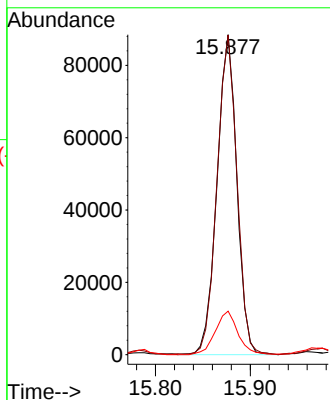
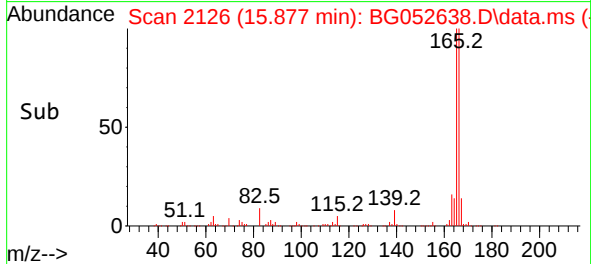
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12RE



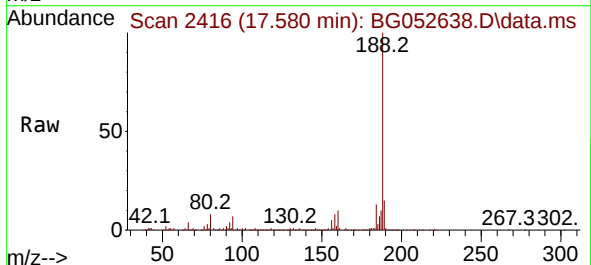
Tgt Ion:166 Resp: 128930
Ion Ratio Lower Upper
166 100
165 99.9 78.6 117.8
167 13.6 10.9 16.3

Manual Integrations
APPROVED

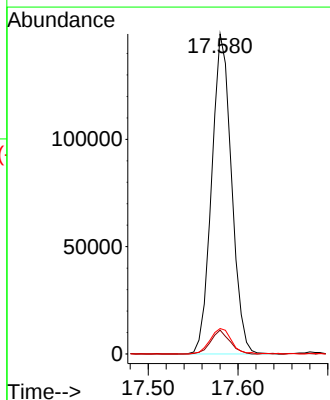
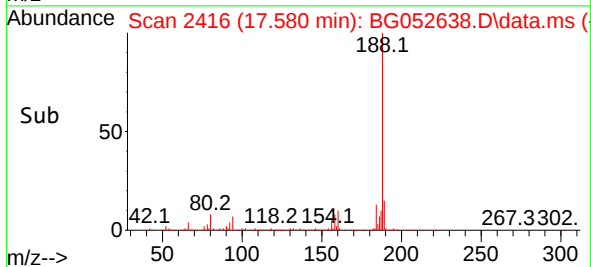
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022

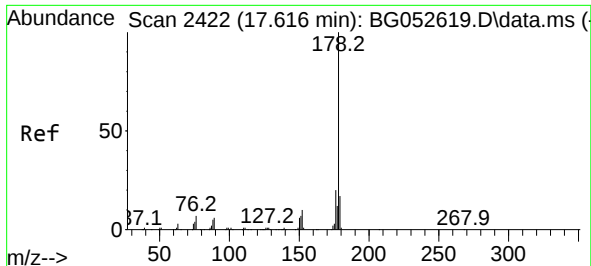


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.580 min Scan# 2416
Delta R.T. 0.005 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37



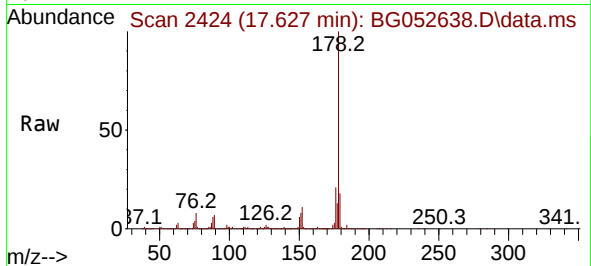
Tgt Ion:188 Resp: 229147
Ion Ratio Lower Upper
188 100
94 7.5 5.7 8.5
80 8.0 7.2 10.8





#71
Phenanthrene
Concen: 102.117 ng
RT: 17.627 min Scan# 2424
Delta R.T. 0.011 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37

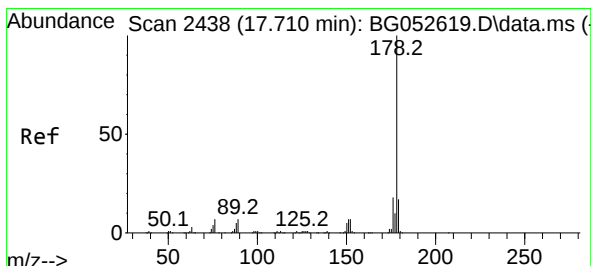
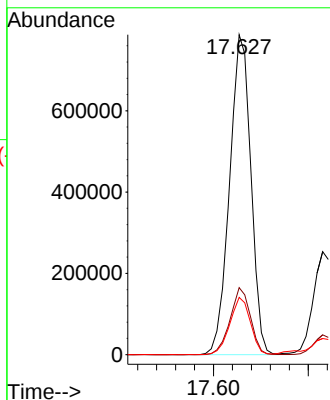
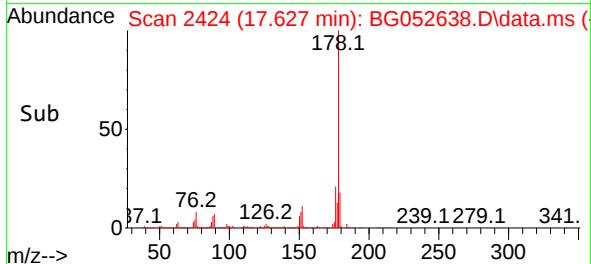
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12RE



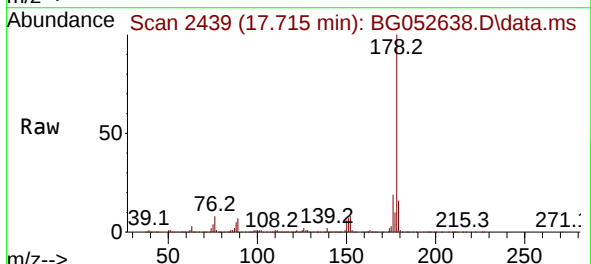
Tgt Ion:178 Resp: 122771
Ion Ratio Lower Upper
178 100
176 20.9 15.9 23.9
179 17.9 13.4 20.2

Manual Integrations
APPROVED

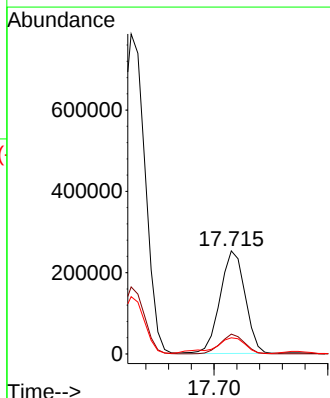
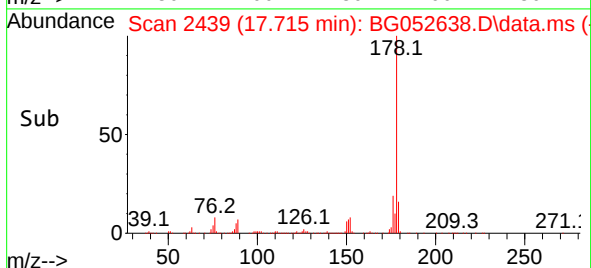
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022

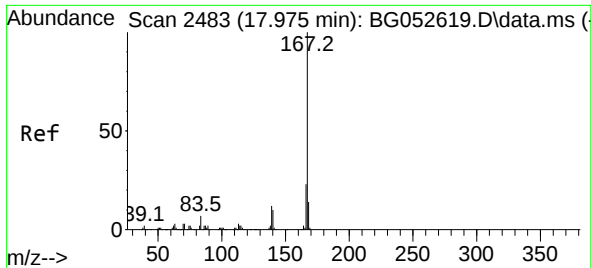


#72
Anthracene
Concen: 32.794 ng
RT: 17.715 min Scan# 2439
Delta R.T. 0.005 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37



Tgt Ion:178 Resp: 385999
Ion Ratio Lower Upper
178 100
176 19.2 14.7 22.1
179 15.7 13.2 19.8





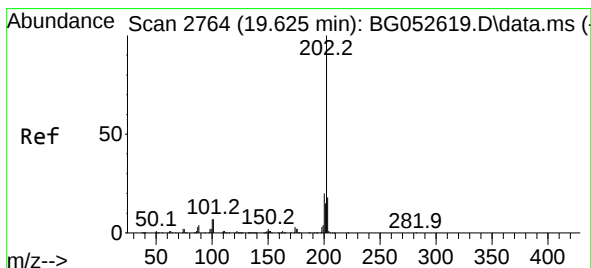
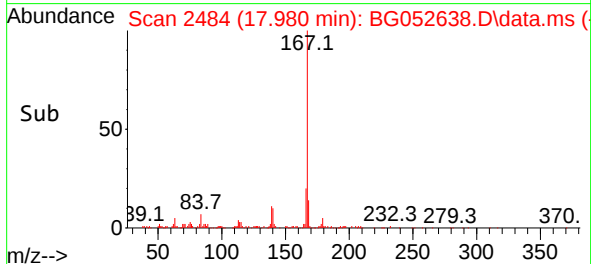
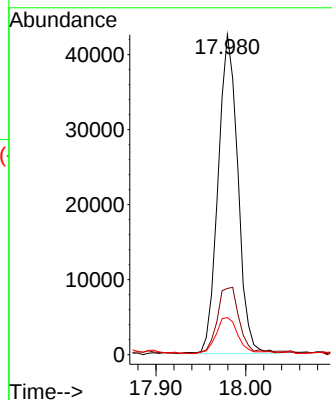
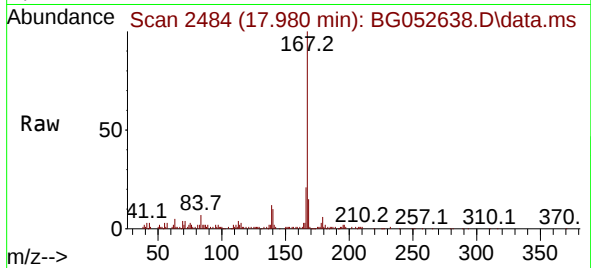
#73
Carbazole
Concen: 5.631 ng
RT: 17.980 min Scan# 2483
Delta R.T. 0.005 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37

Instrument :
BNA_G
ClientSampleId :
SAMPLE-12RE

Tgt Ion:167 Resp: 6486
Ion Ratio Lower Upper
167 100
166 20.7 18.5 27.7
139 11.6 10.0 15.0

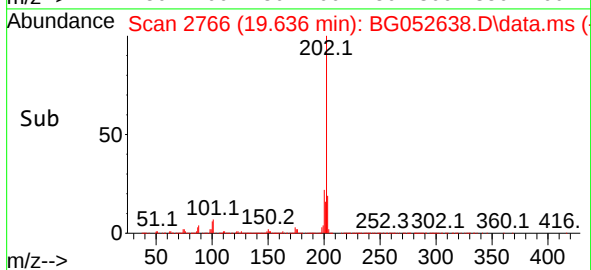
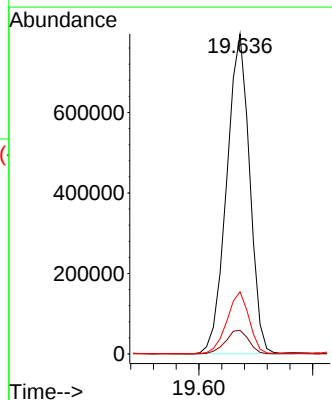
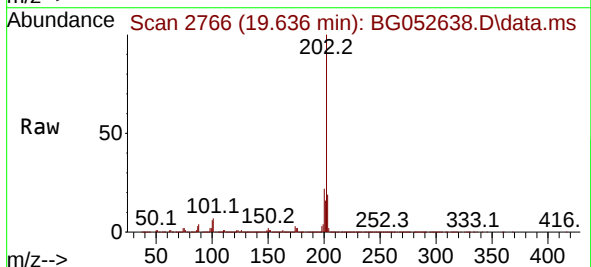
Manual Integrations
APPROVED

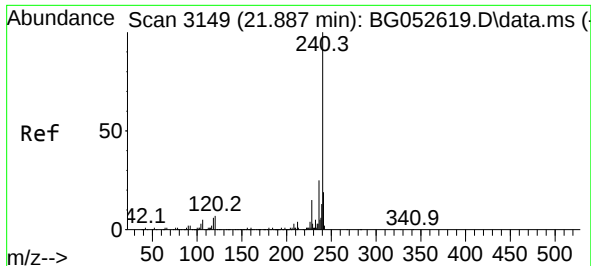
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022



#75
Fluoranthene
Concen: 74.080 ng
RT: 19.636 min Scan# 2766
Delta R.T. 0.011 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37

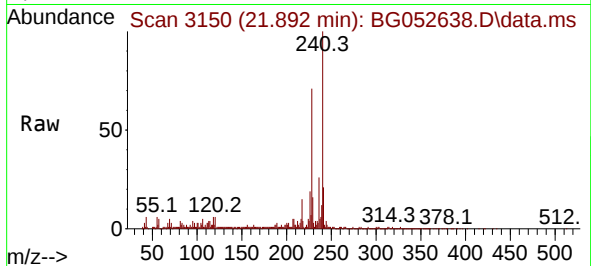
Tgt Ion:202 Resp: 1112083
Ion Ratio Lower Upper
202 100
101 7.4 0.0 27.3
203 19.5 0.0 37.7





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.892 min Scan# 3149
Delta R.T. 0.005 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37

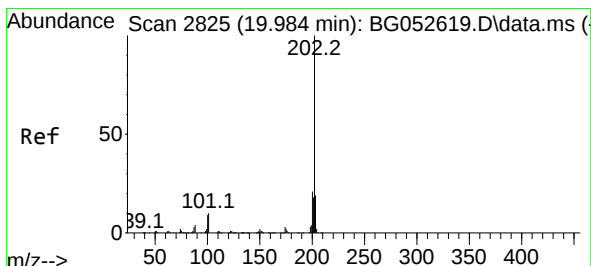
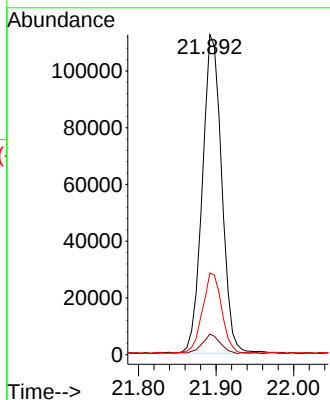
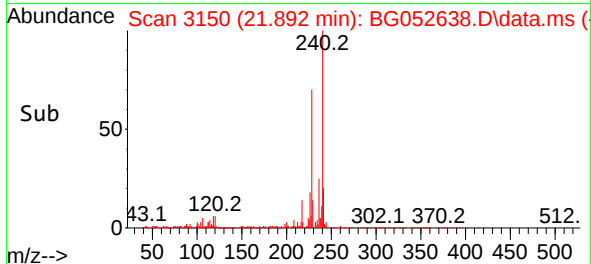
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12RE



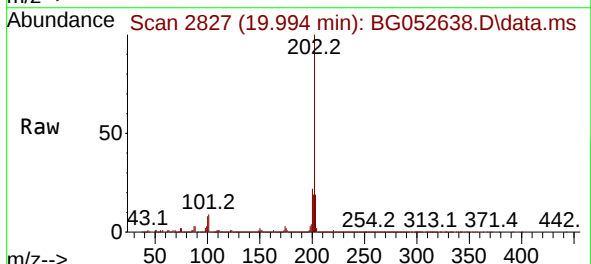
Tgt Ion:240 Resp: 194618
Ion Ratio Lower Upper
240 100
120 6.4 5.4 8.0
236 25.5 19.8 29.6

Manual Integrations
APPROVED

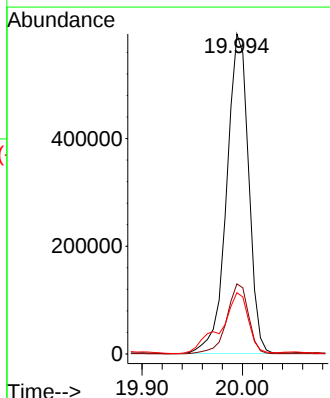
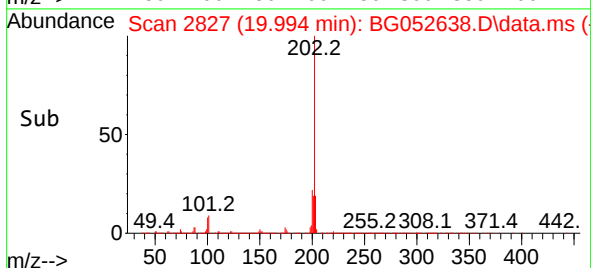
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022

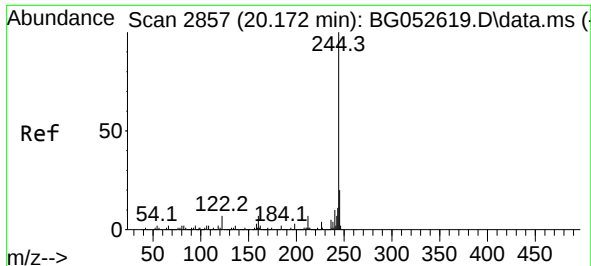


#78
Pyrene
Concen: 69.172 ng
RT: 19.994 min Scan# 2827
Delta R.T. 0.011 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37



Tgt Ion:202 Resp: 899832
Ion Ratio Lower Upper
202 100
200 21.9 17.0 25.6
203 19.2 15.0 22.6





#79
 Terphenyl-d14
 Concen: 32.991 ng
 RT: 20.177 min Scan# 21
 Delta R.T. 0.005 min
 Lab File: BG052638.D
 Acq: 10 Mar 2022 17:37

Instrument :

BNA_G

ClientSampleId :

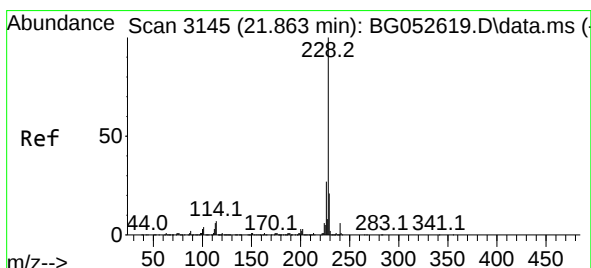
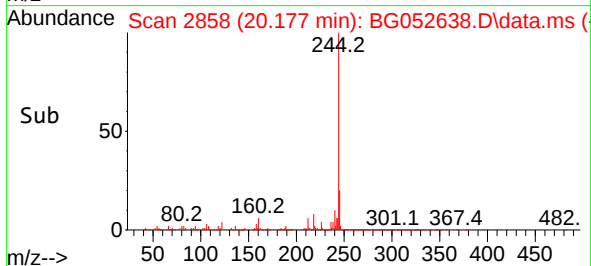
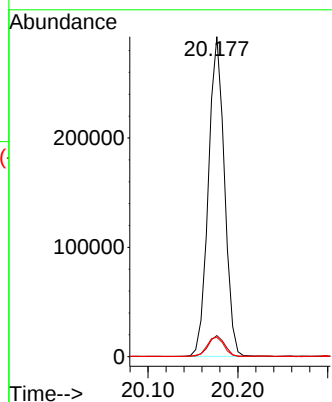
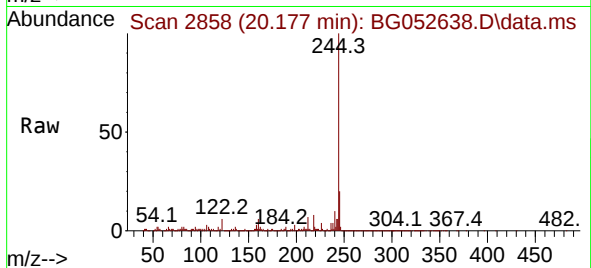
SAMPLE-12RE

Tgt Ion:244 Resp: 362840
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.4 8.2
 122 6.0 5.8 8.6

Manual Integrations

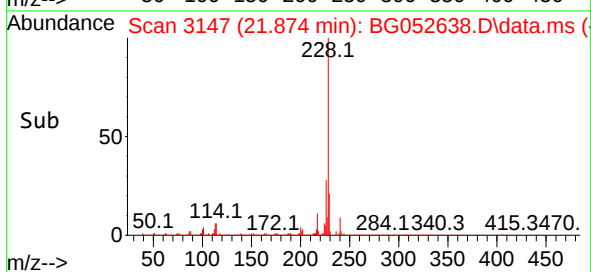
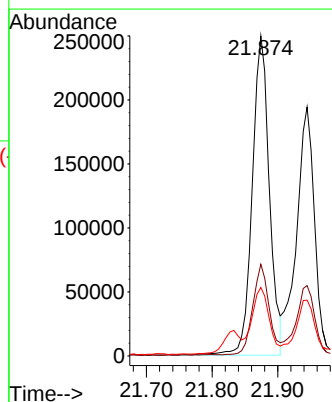
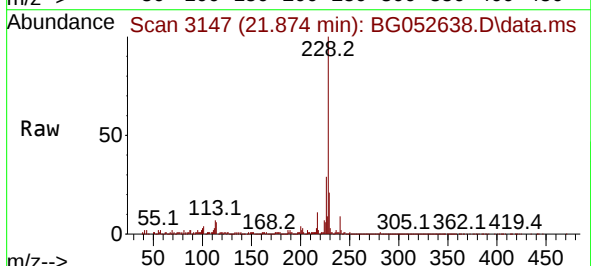
APPROVED

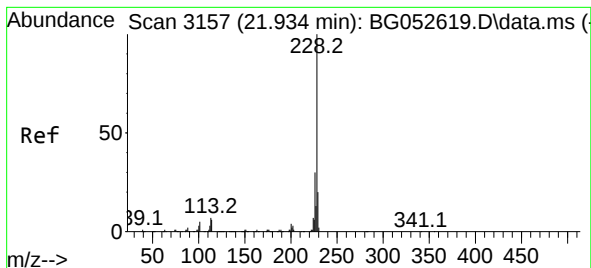
Reviewed By :Christian Giraldo 03/11/2022
 Supervised By :Jagrut Upadhyay 03/11/2022



#81
 Benzo(a)anthracene
 Concen: 34.746 ng
 RT: 21.874 min Scan# 3147
 Delta R.T. 0.011 min
 Lab File: BG052638.D
 Acq: 10 Mar 2022 17:37

Tgt Ion:228 Resp: 453061
 Ion Ratio Lower Upper
 228 100
 226 28.7 21.4 32.0
 229 21.4 16.7 25.1





#83

Chrysene

Concen: 30.174 ng

RT: 21.945 min Scan# 3157

Delta R.T. 0.011 min

Lab File: BG052638.D

Acq: 10 Mar 2022 17:37

Instrument :

BNA_G

ClientSampleId :

SAMPLE-12RE

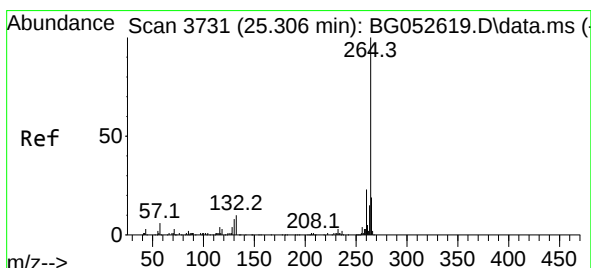
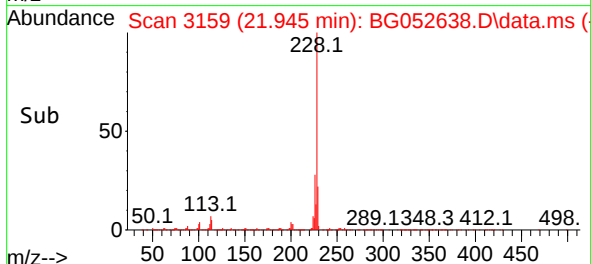
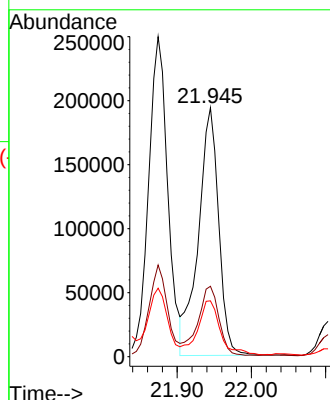
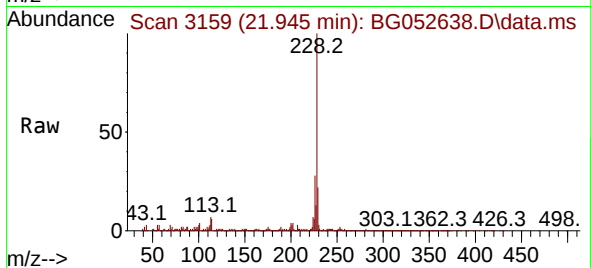
Tgt Ion:	228	Resp:	36787
Ion Ratio	Lower	Upper	
228	100		
226	28.3	24.2	36.4
229	22.4	16.3	24.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/11/2022

Supervised By :Jagrut Upadhyay 03/11/2022



#86

Perylene-d12

Concen: 20.000 ng

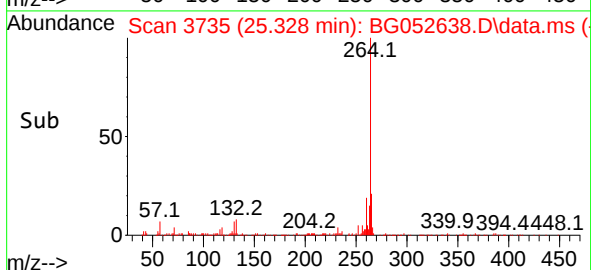
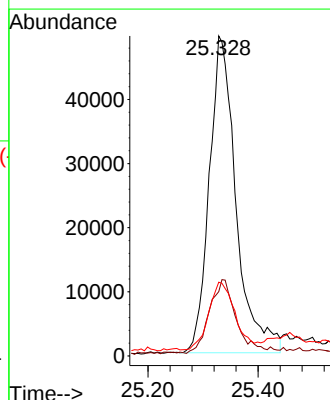
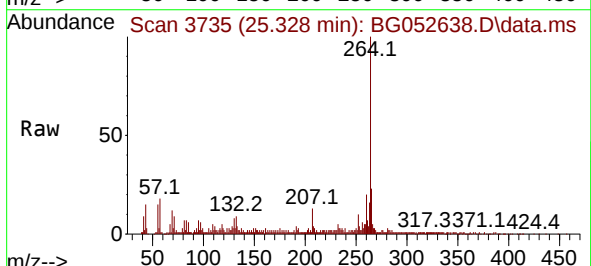
RT: 25.328 min Scan# 3735

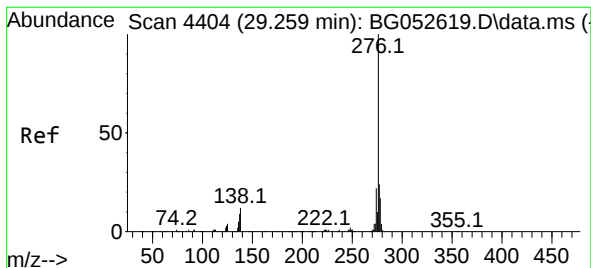
Delta R.T. 0.023 min

Lab File: BG052638.D

Acq: 10 Mar 2022 17:37

Tgt Ion:	264	Resp:	167130
Ion Ratio	Lower	Upper	
264	100		
260	20.1	18.2	27.2
265	23.0	15.1	22.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.809 ng m

RT: 29.300 min Scan# 4404

Delta R.T. 0.040 min

Lab File: BG052638.D

Acq: 10 Mar 2022 17:37

Instrument :

BNA_G

ClientSampleId :

SAMPLE-12RE

Tgt Ion:276 Resp: 10551

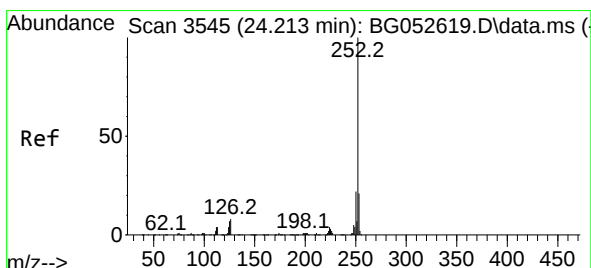
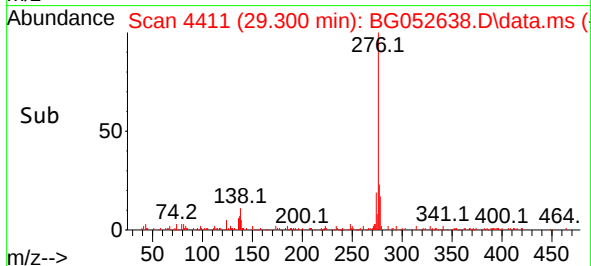
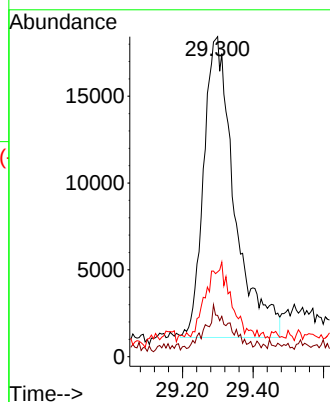
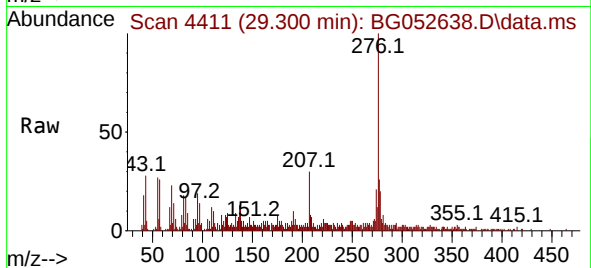
Ion	Ratio	Lower	Upper
276	100		
138	9.0	8.7	13.1
277	8.5	20.2	30.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/11/2022

Supervised By :Jagrut Upadhyay 03/11/2022



#88

Benzo(b)fluoranthene

Concen: 36.322 ng

RT: 24.242 min Scan# 3550

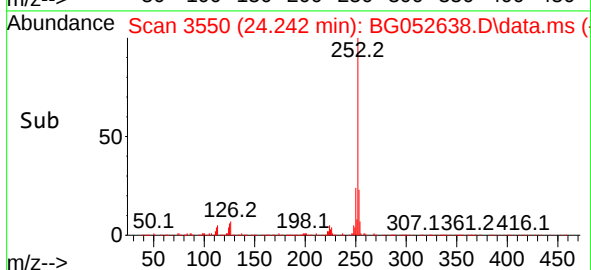
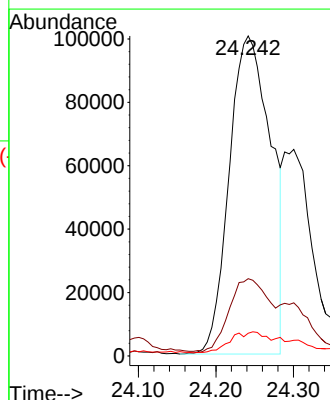
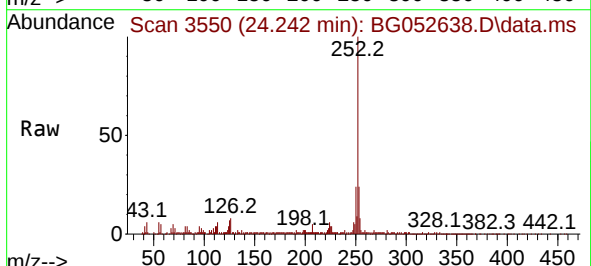
Delta R.T. 0.029 min

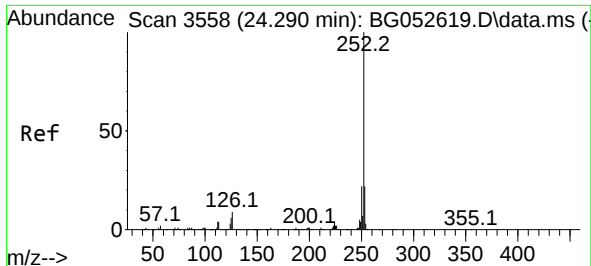
Lab File: BG052638.D

Acq: 10 Mar 2022 17:37

Tgt Ion:252 Resp: 374797

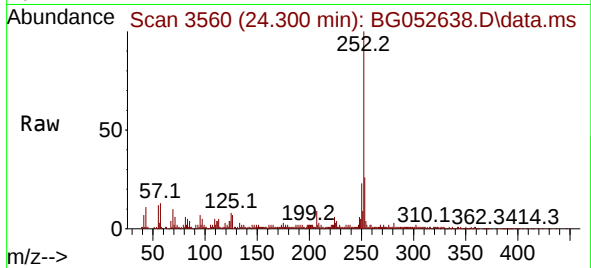
Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.2	25.8
125	7.1	5.2	7.8





#89
Benzo(k)fluoranthene
Concen: 16.000 ng m
RT: 24.300 min Scan# 3
Delta R.T. 0.011 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37

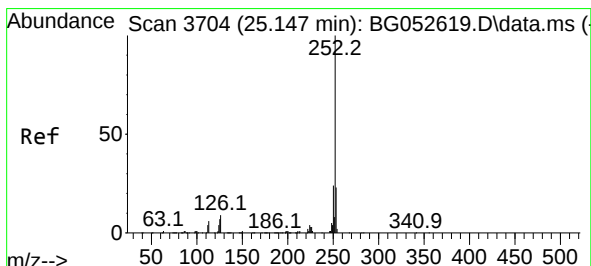
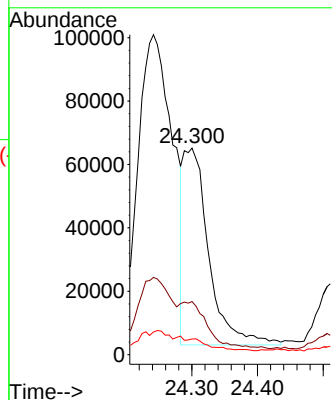
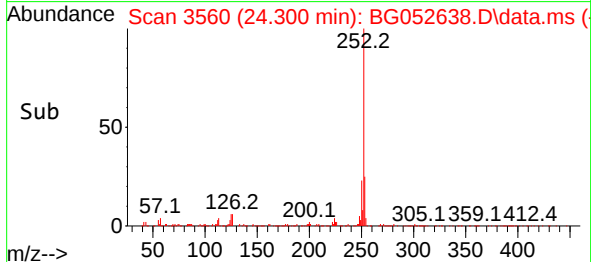
Instrument :
BNA_G
ClientSampleId :
SAMPLE-12RE



Tgt Ion:252 Resp: 166040
Ion Ratio Lower Upper
252 100
253 25.7 17.4 26.0
125 7.6 5.0 7.4

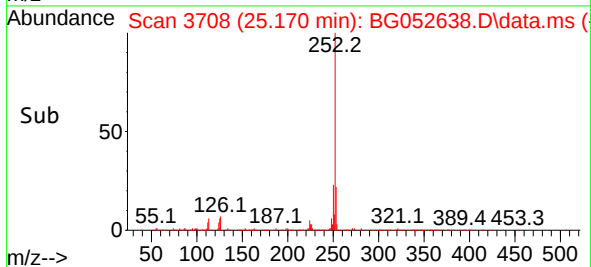
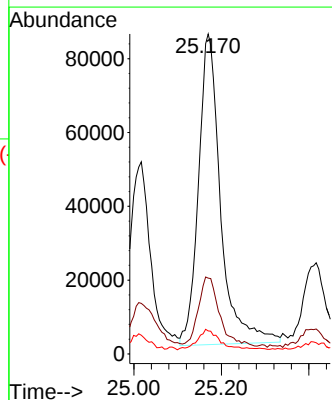
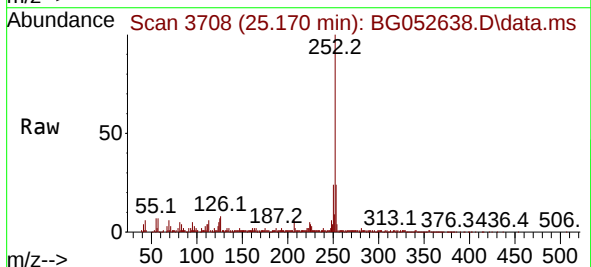
Manual Integrations
APPROVED

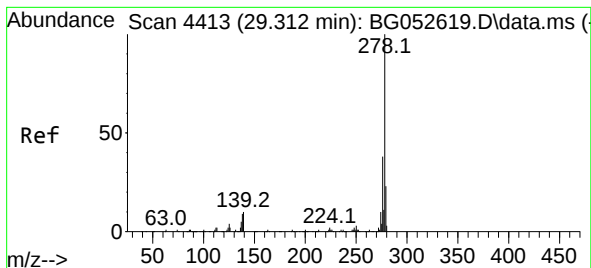
Reviewed By :Christian Giraldo 03/11/2022
Supervised By :Jagrut Upadhyay 03/11/2022



#90
Benzo(a)pyrene
Concen: 33.899 ng
RT: 25.170 min Scan# 3708
Delta R.T. 0.023 min
Lab File: BG052638.D
Acq: 10 Mar 2022 17:37

Tgt Ion:252 Resp: 295967
Ion Ratio Lower Upper
252 100
253 23.7 18.4 27.6
125 7.2 5.6 8.4





#91

Dibenzo(a,h)anthracene

Concen: 2.797 ng m

RT: 29.352 min Scan# 4413

Delta R.T. 0.040 min

Lab File: BG052638.D

Acq: 10 Mar 2022 17:37

Instrument :

BNA_G

ClientSampleId :

SAMPLE-12RE

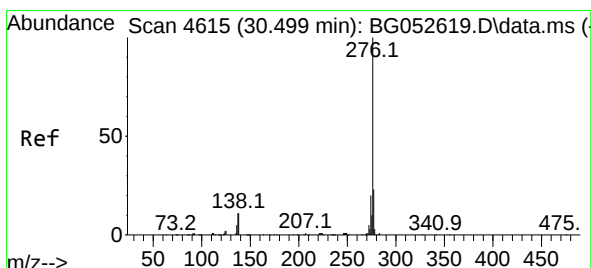
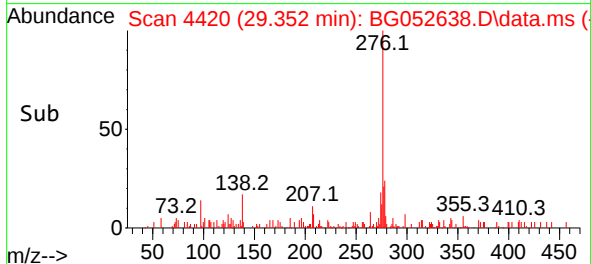
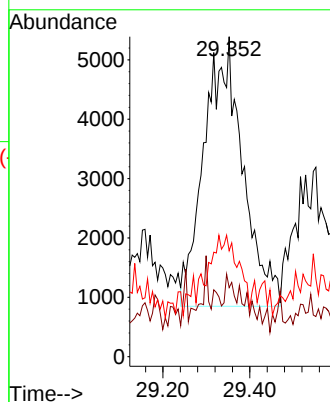
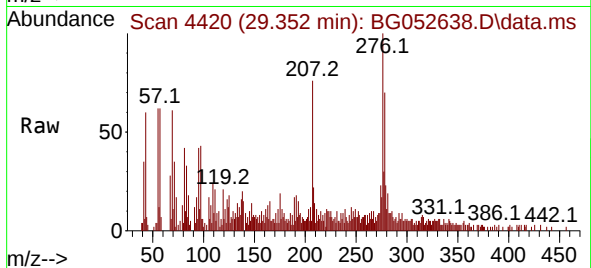
Tgt Ion:	278	Resp:	27798
Ion Ratio	Lower	Upper	
278	100		
139	21.6	7.8	11.6
279	33.1	18.5	27.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/11/2022

Supervised By :Jagrut Upadhyay 03/11/2022



#92

Benzo(g,h,i)perylene

Concen: 9.030 ng m

RT: 30.533 min Scan# 4621

Delta R.T. 0.034 min

Lab File: BG052638.D

Acq: 10 Mar 2022 17:37

Tgt Ion:	276	Resp:	87598
Ion Ratio	Lower	Upper	
276	100		
277	30.4	18.2	27.2#
138	15.9	9.1	13.7#

