

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG120622\
 Data File : BG055909.D
 Acq On : 6 Dec 2022 18:46
 Operator : CG/JU
 Sample : N5849-01DL 10X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TR-5-120222DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 12/07/2022
 Supervised By : Jagrut Upadhyay 12/07/2022

Quant Time: Dec 07 05:11:46 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111622.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 07 05:04:10 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.170	152	40639	20.000	ng	0.00
21) Naphthalene-d8	10.996	136	175396	20.000	ng	0.00
39) Acenaphthene-d10	14.803	164	120728	20.000	ng	0.00
64) Phenanthrene-d10	17.541	188	255405	20.000	ng	0.00
76) Chrysene-d12	21.825	240	231663	20.000	ng	0.00
86) Perylene-d12	25.179	264	239444	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.702	112	19753	8.786	ng	0.00
7) Phenol-d6	7.324	99	26800	8.955	ng	0.00
23) Nitrobenzene-d5	9.339	82	17955	5.411	ng	0.00
42) 2,4,6-Tribromophenol	16.290	330	10939	6.435	ng	0.00
45) 2-Fluorobiphenyl	13.423	172	41943	5.205	ng	0.00
79) Terphenyl-d14	20.132	244	64818	5.596	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.049	128	68838	7.260	ng	99
37) 2-Methylnaphthalene	12.641	142	33308	4.692	ng	99
38) 1-Methylnaphthalene	12.859	142	27117	3.935	ng	99
52) Acenaphthene	14.862	154	40176	5.459	ng	99
55) Dibenzofuran	15.197	168	54327	4.785	ng	98
58) Fluorene	15.843	166	86718	9.563	ng	99
71) Phenanthrene	17.588	178	596615	43.287	ng	99
72) Anthracene	17.676	178	141033	10.531	ng	99
73) Carbazole	17.947	167	58005	4.818	ng	96
75) Fluoranthene	19.586	202	532899	31.781	ng	99
78) Pyrene	19.950	202	477985	30.482	ng	99
81) Benzo(a)anthracene	21.807	228	241701	15.148	ng	99
83) Chrysene	21.872	228	203875	13.422	ng	99
87) Indeno(1,2,3-cd)pyrene	29.040	276	70610	3.600	ng	# 83
88) Benzo(b)fluoranthene	24.104	252	220958	14.170	ng	98
89) Benzo(k)fluoranthene	24.169	252	93786m	6.034	ng	
90) Benzo(a)pyrene	25.021	252	175619	13.124	ng	# 97
92) Benzo(g,h,i)perylene	30.256	276	59898	3.707	ng	94

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

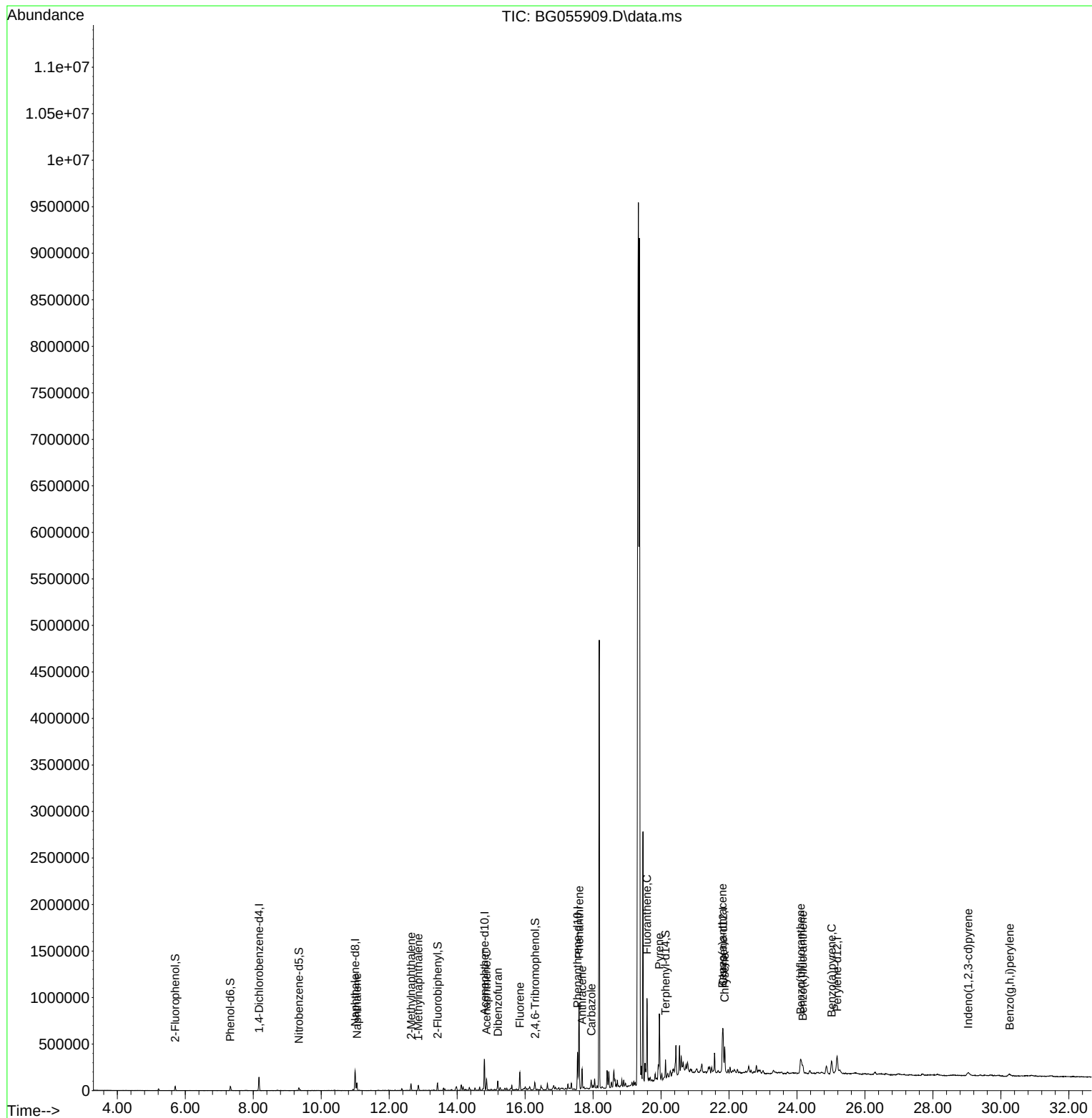
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG120622\
Data File : BG055909.D
Acq On : 6 Dec 2022 18:46
Operator : CG/JU
Sample : N5849-01DL 10X
Misc :
ALS Vial : 11 Sample Multiplier: 1

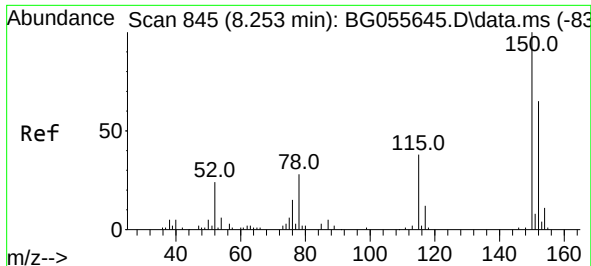
Instrument :
BNA_G
ClientSampleId :
TR-5-120222DL

Quant Time: Dec 07 05:11:46 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111622.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 07 05:04:10 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

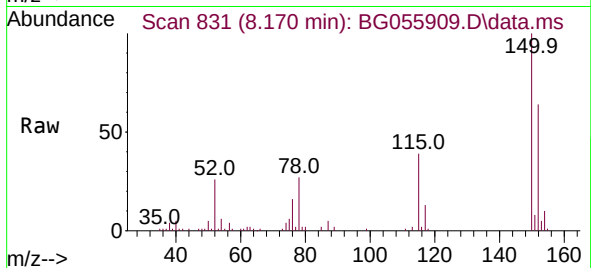
Reviewed By :Christian Giraldo 12/07/2022
Supervised By :Jagrut Upadhyay 12/07/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.170 min Scan# 845
Delta R.T. 0.008 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46

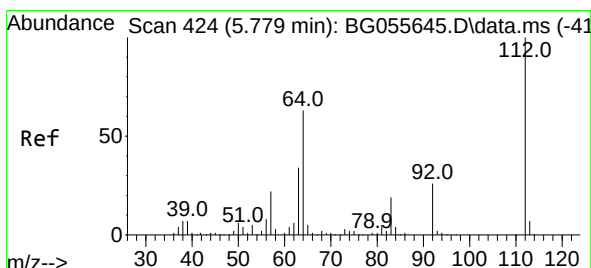
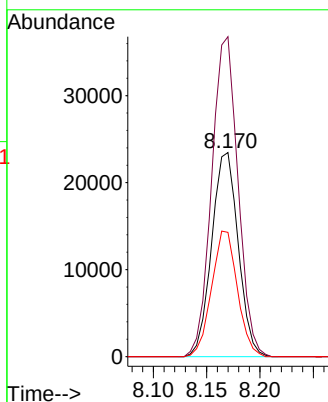
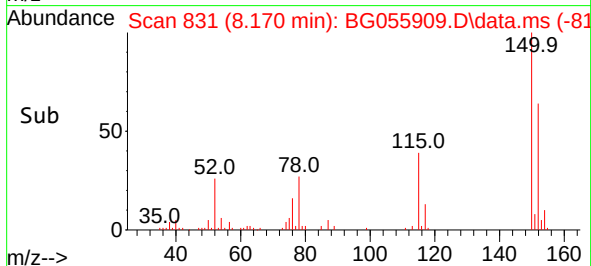
Instrument :
BNA_G
ClientSampleId :
TR-5-120222DL



Tgt Ion:152 Resp: 40639
Ion Ratio Lower Upper
152 100
150 156.9 123.0 184.6
115 60.9 47.0 70.4

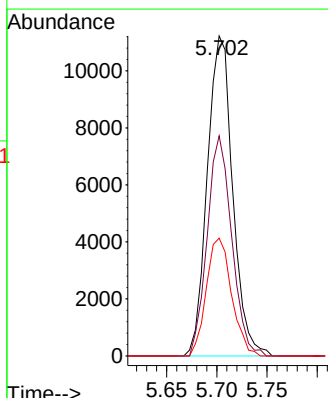
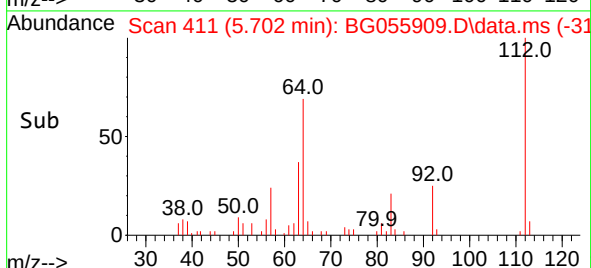
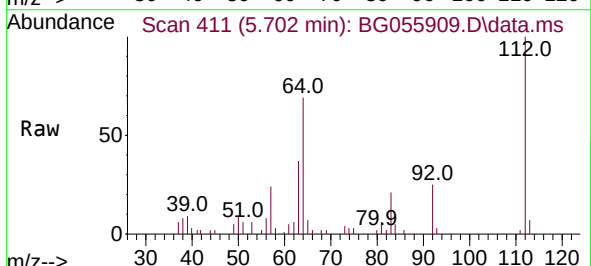
Manual Integrations
APPROVED

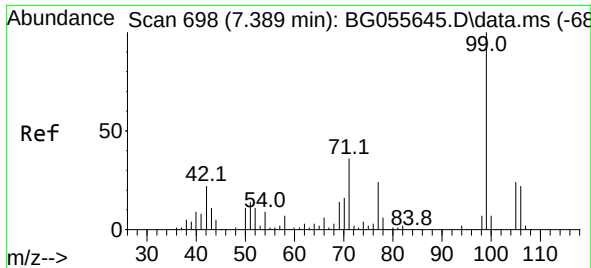
Reviewed By :Christian Giraldo 12/07/2022
Supervised By :Jagrut Upadhyay 12/07/2022



#5
2-Fluorophenol
Concen: 8.786 ng
RT: 5.702 min Scan# 411
Delta R.T. 0.008 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46

Tgt Ion:112 Resp: 19753
Ion Ratio Lower Upper
112 100
64 68.8 50.6 76.0
63 36.8 27.5 41.3





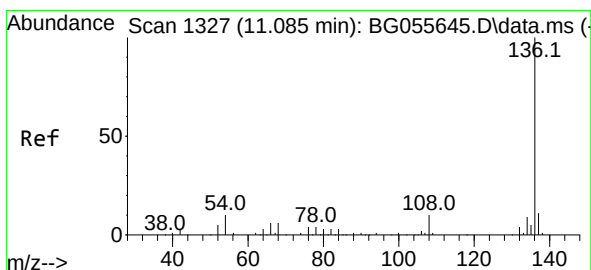
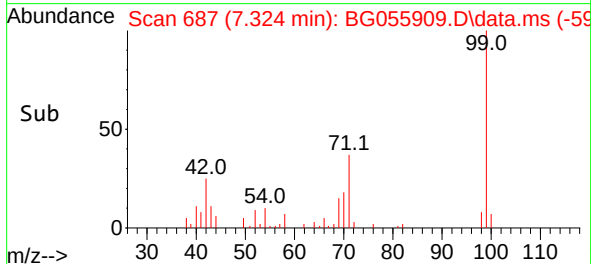
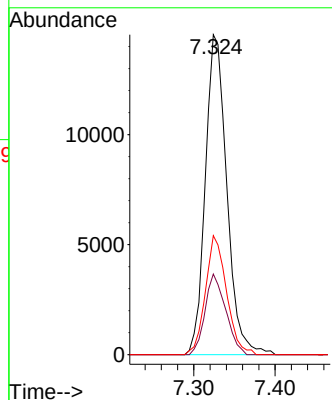
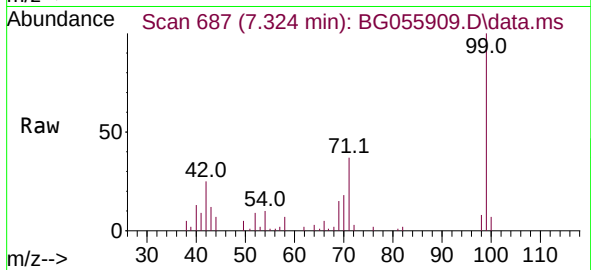
#7
Phenol-d6
Concen: 8.955 ng
RT: 7.324 min Scan# 68
Delta R.T. 0.002 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46

Instrument :
BNA_G
ClientSampleId :
TR-5-120222DL

Tgt Ion: 99 Resp: 26800
Ion Ratio Lower Upper
99 100
42 25.2 18.0 27.0
71 37.2 29.0 43.6

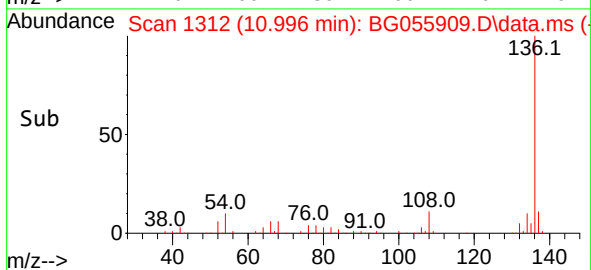
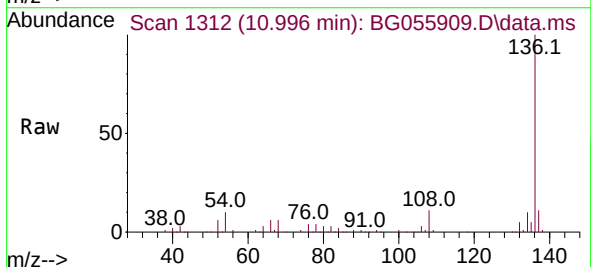
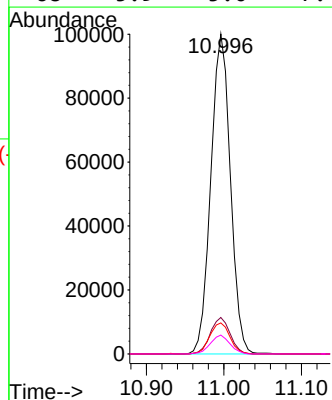
Manual Integrations
APPROVED

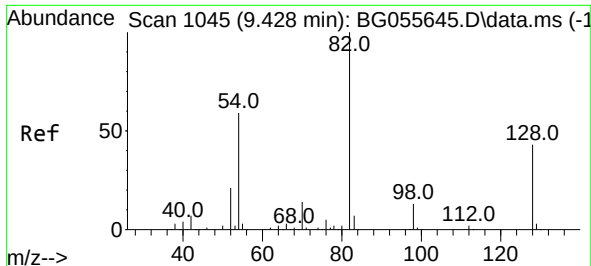
Reviewed By :Christian Giraldo 12/07/2022
Supervised By :Jagrut Upadhyay 12/07/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.996 min Scan# 1312
Delta R.T. 0.002 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46

Tgt Ion:136 Resp: 175396
Ion Ratio Lower Upper
136 100
137 11.4 9.0 13.6
54 9.7 7.8 11.6
68 5.9 5.0 7.4





#23

Nitrobenzene-d5

Concen: 5.411 ng

RT: 9.339 min Scan# 1045

Delta R.T. -0.004 min

Lab File: BG055909.D

Acq: 6 Dec 2022 18:46

Instrument :

BNA_G

ClientSampleId :

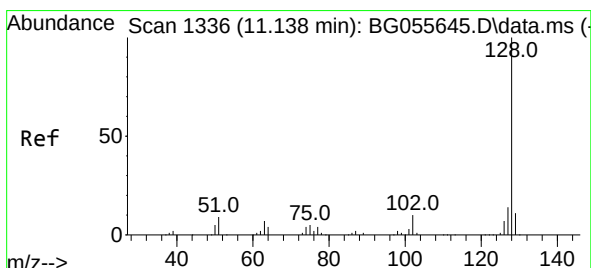
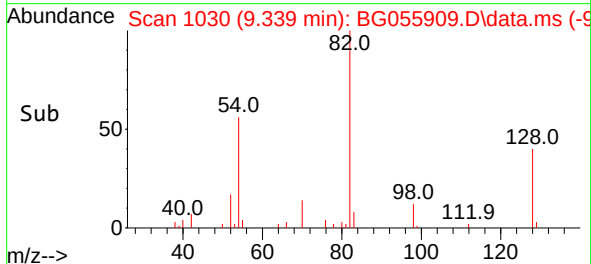
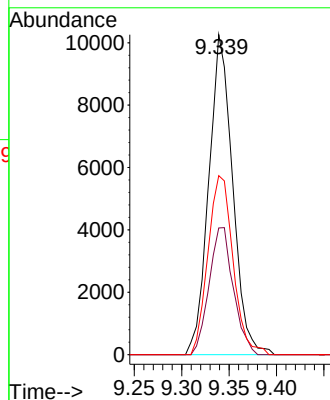
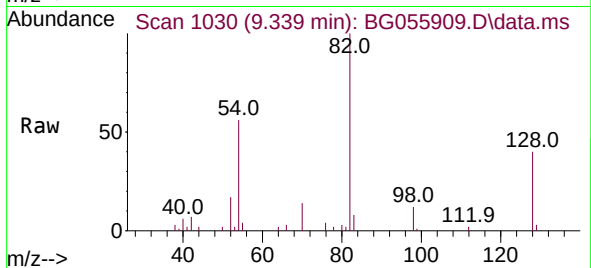
TR-5-120222DL

Tgt Ion:	82	Resp:	1795
Ion Ratio	Lower	Upper	
82	100		
128	39.6	34.1	51.1
54	55.9	47.3	70.9

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 12/07/2022
Supervised By :Jagrut Upadhyay 12/07/2022



#31

Naphthalene

Concen: 7.260 ng

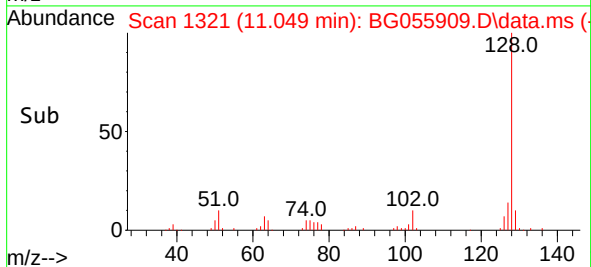
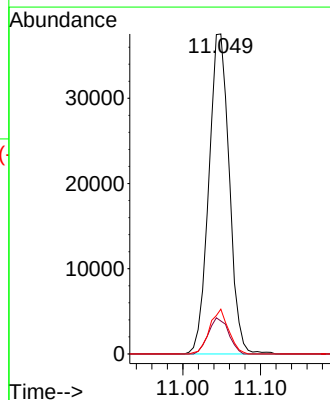
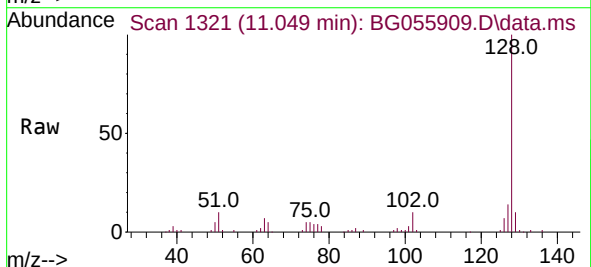
RT: 11.049 min Scan# 1321

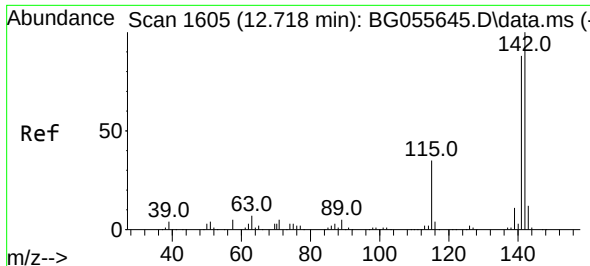
Delta R.T. 0.002 min

Lab File: BG055909.D

Acq: 6 Dec 2022 18:46

Tgt Ion:	128	Resp:	68838
Ion Ratio	Lower	Upper	
128	100		
129	10.3	8.7	13.1
127	14.0	10.9	16.3





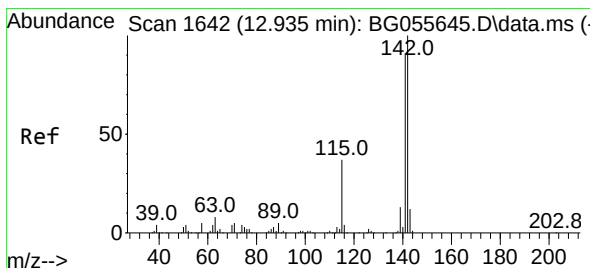
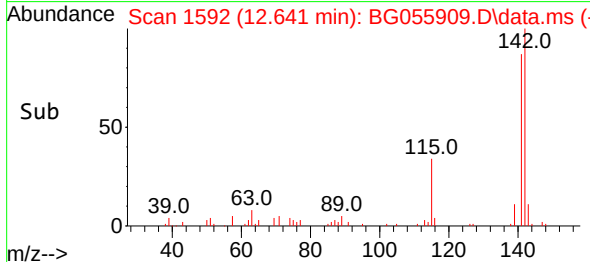
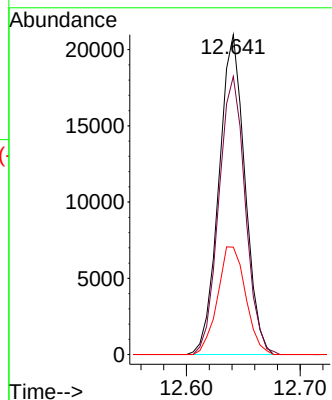
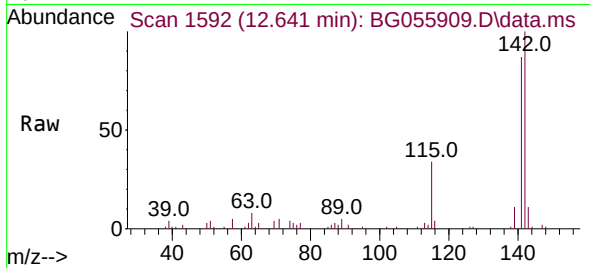
#37
2-Methylnaphthalene
Concen: 4.692 ng
RT: 12.641 min Scan# 11
Delta R.T. 0.002 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46

Instrument :
BNA_G
ClientSampleId :
TR-5-120222DL

Tgt Ion:142 Resp: 33308
Ion Ratio Lower Upper
142 100
141 86.9 70.3 105.5
115 33.6 27.9 41.9

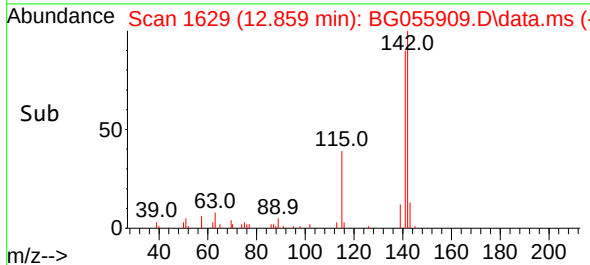
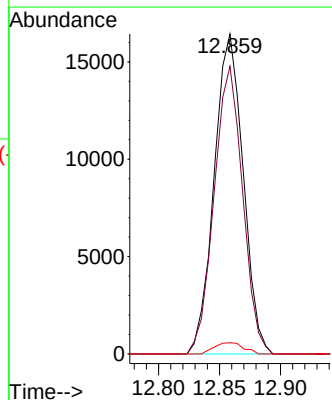
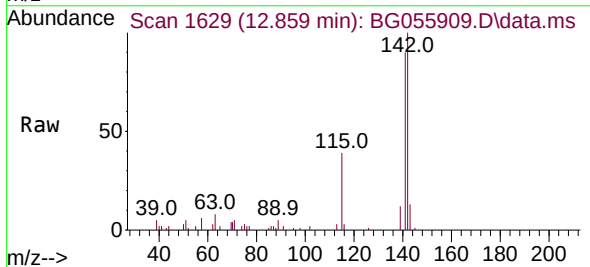
Manual Integrations
APPROVED

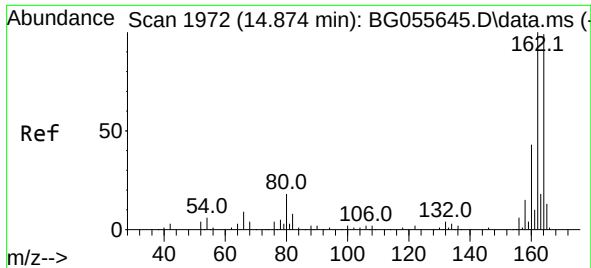
Reviewed By :Christian Giraldo 12/07/2022
Supervised By :Jagrut Upadhyay 12/07/2022



#38
1-Methylnaphthalene
Concen: 3.935 ng
RT: 12.859 min Scan# 1629
Delta R.T. 0.002 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46

Tgt Ion:142 Resp: 27117
Ion Ratio Lower Upper
142 100
141 89.9 73.0 109.4
116 3.5 3.1 4.7





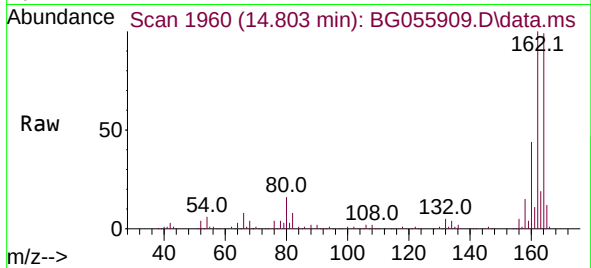
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.803 min Scan# 1972
Delta R.T. 0.002 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46

Instrument :

BNA_G

ClientSampleId :

TR-5-120222DL

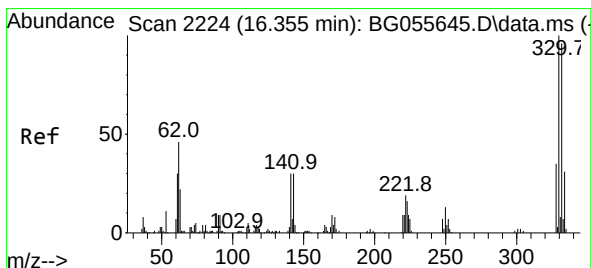
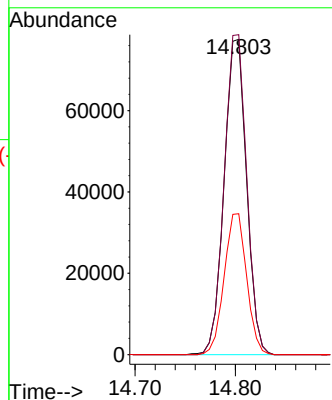
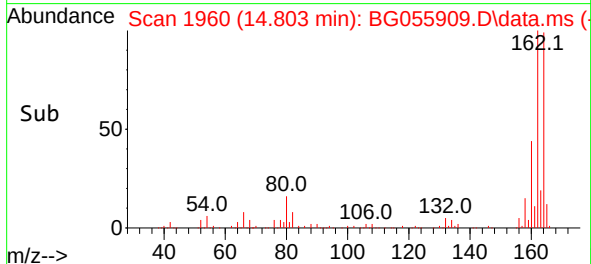


Tgt Ion:164 Resp: 120728
Ion Ratio Lower Upper
164 100
162 101.5 81.1 121.7
160 44.7 34.8 52.2

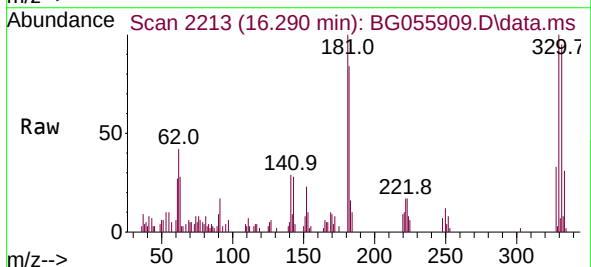
Manual Integrations

APPROVED

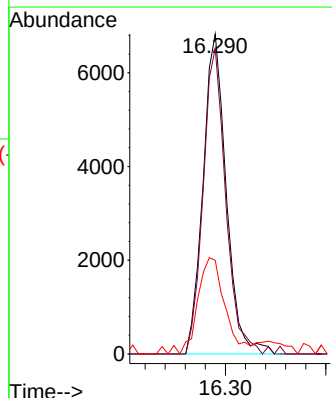
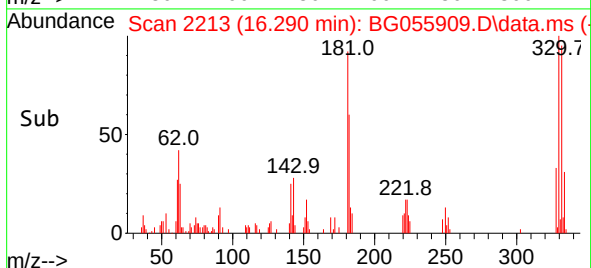
Reviewed By :Christian Giraldo 12/07/2022
Supervised By :Jagrut Upadhyay 12/07/2022

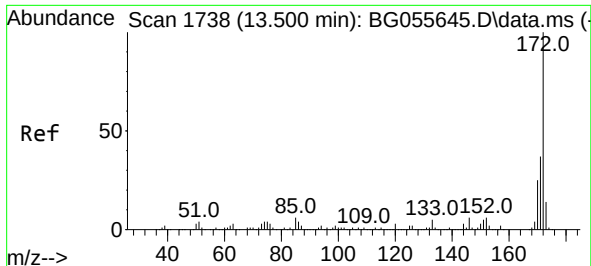


#42
2,4,6-Tribromophenol
Concen: 6.435 ng
RT: 16.290 min Scan# 2213
Delta R.T. 0.002 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46



Tgt Ion:330 Resp: 10939
Ion Ratio Lower Upper
330 100
332 92.7 77.8 116.8
141 35.4 23.9 35.9





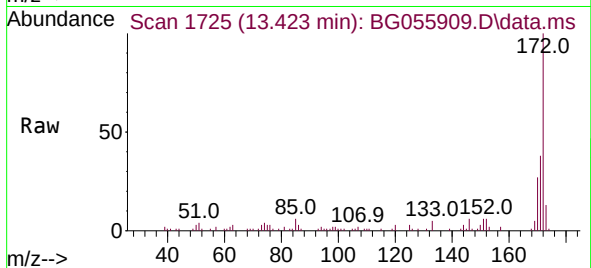
#45
2-Fluorobiphenyl
Concen: 5.205 ng
RT: 13.423 min Scan# 1725
Delta R.T. 0.002 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46

Instrument :

BNA_G

ClientSampleId :

TR-5-120222DL

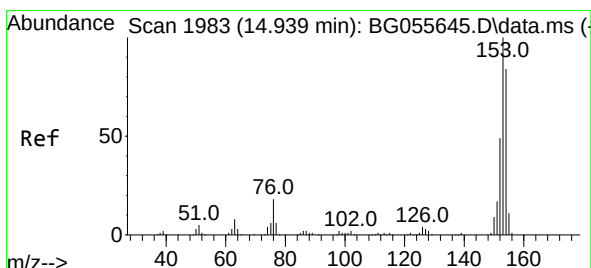
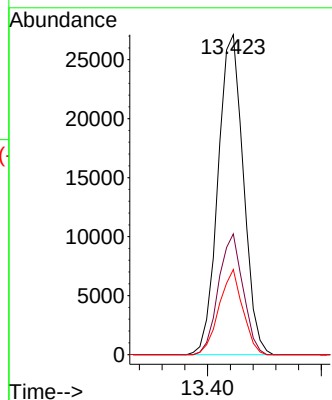
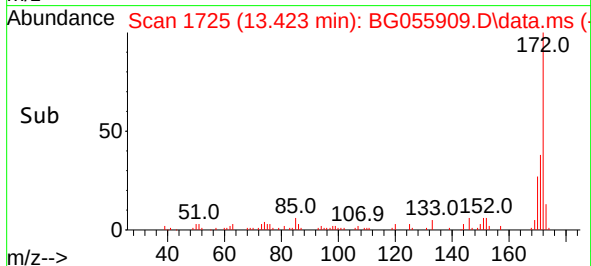


Tgt Ion:172 Resp: 41943
Ion Ratio Lower Upper
172 100
171 37.8 29.8 44.6
170 26.6 20.2 30.4

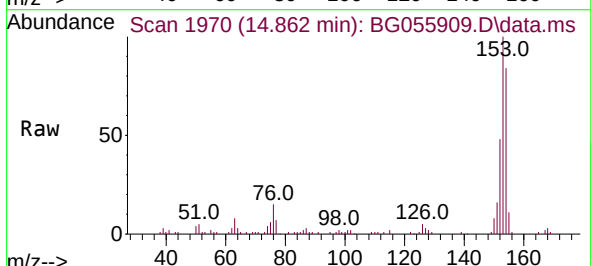
Manual Integrations

APPROVED

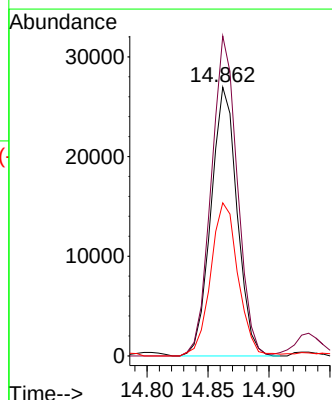
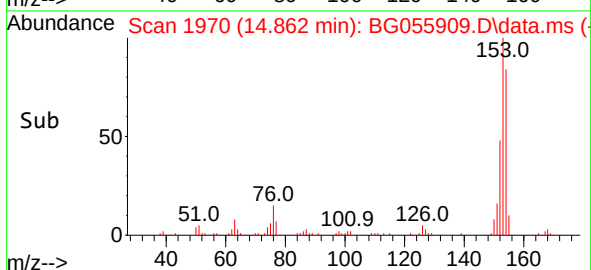
Reviewed By :Christian Giraldo 12/07/2022
Supervised By :Jagrut Upadhyay 12/07/2022

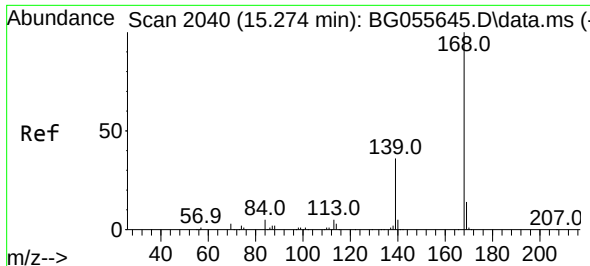


#52
Acenaphthene
Concen: 5.459 ng
RT: 14.862 min Scan# 1970
Delta R.T. -0.004 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46



Tgt Ion:154 Resp: 40176
Ion Ratio Lower Upper
154 100
153 119.1 95.0 142.4
152 57.0 46.1 69.1





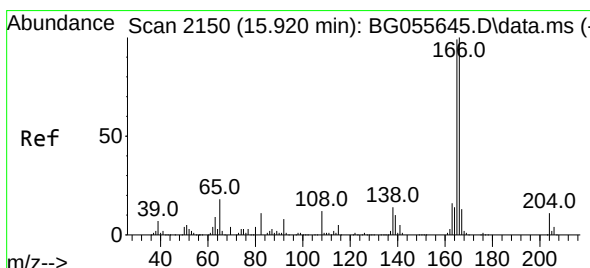
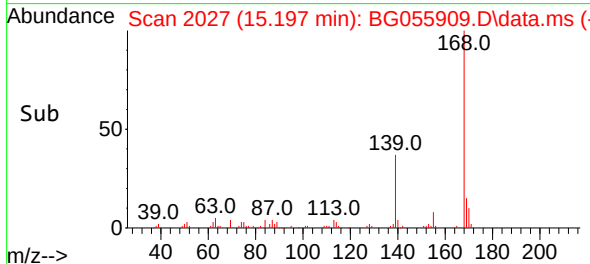
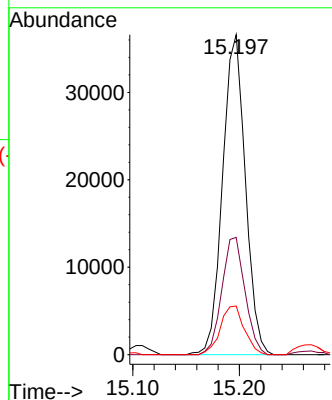
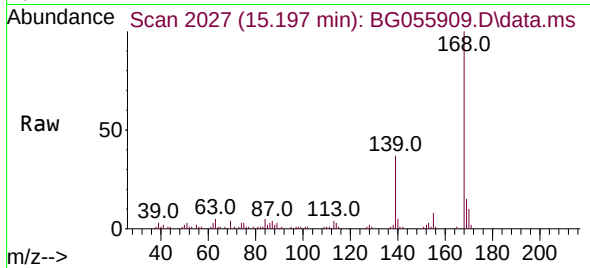
#55
Dibenzenofuran
Concen: 4.785 ng
RT: 15.197 min Scan# 2040
Delta R.T. 0.002 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46

Instrument :
BNA_G
ClientSampleId :
TR-5-120222DL

Tgt Ion:168 Resp: 5432
Ion Ratio Lower Upper
168 100
139 36.6 28.8 43.2
169 15.2 11.0 16.4

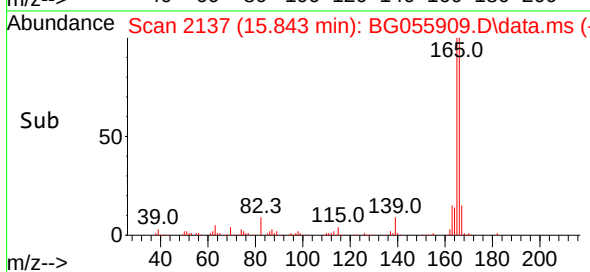
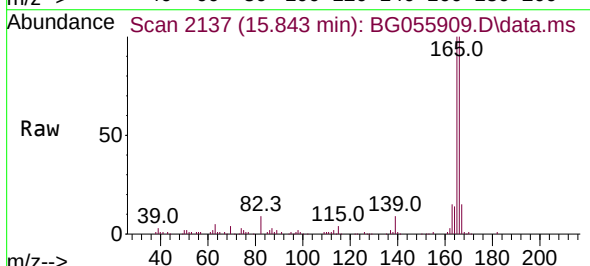
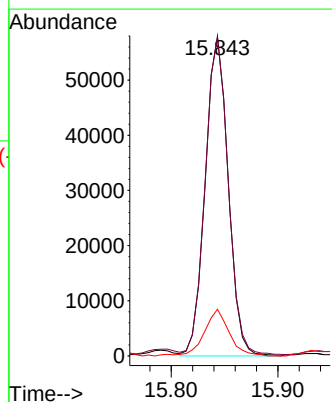
Manual Integrations
APPROVED

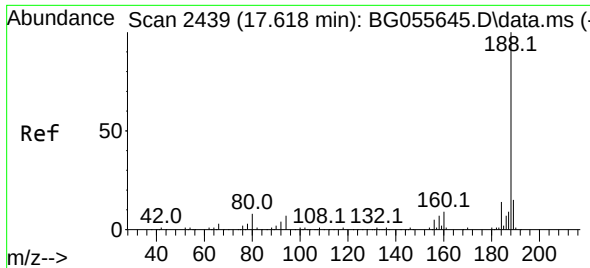
Reviewed By :Christian Giraldo 12/07/2022
Supervised By :Jagrut Upadhyay 12/07/2022



#58
Fluorene
Concen: 9.563 ng
RT: 15.843 min Scan# 2137
Delta R.T. -0.004 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46

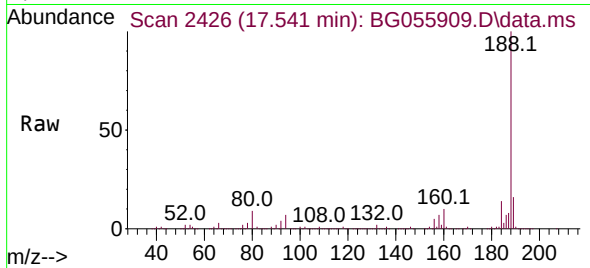
Tgt Ion:166 Resp: 86718
Ion Ratio Lower Upper
166 100
165 99.5 79.3 118.9
167 14.6 10.6 15.8





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.541 min Scan# 2439
Delta R.T. -0.004 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46

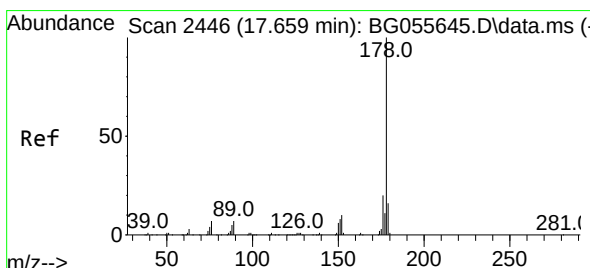
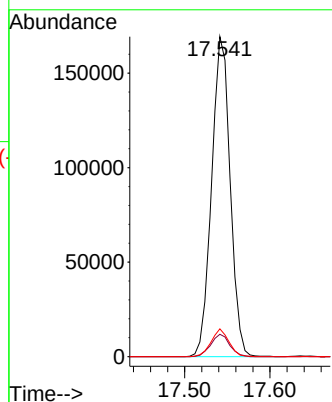
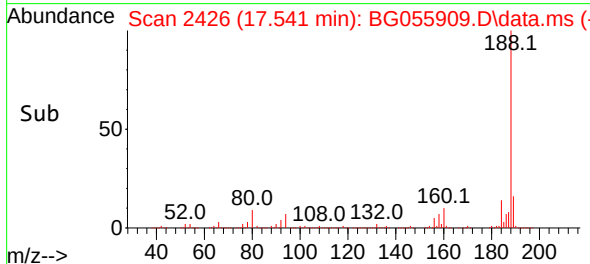
Instrument :
BNA_G
ClientSampleId :
TR-5-120222DL



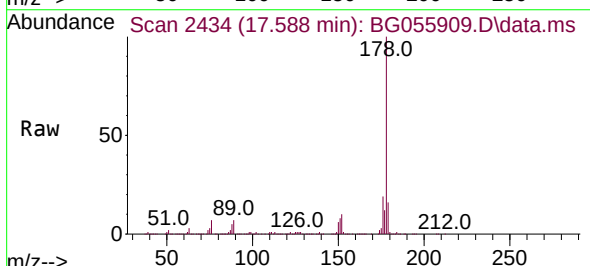
Tgt Ion:188 Resp: 255405
Ion Ratio Lower Upper
188 100
94 7.0 5.4 8.2
80 8.7 6.6 10.0

Manual Integrations
APPROVED

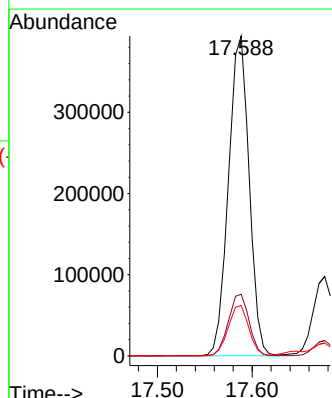
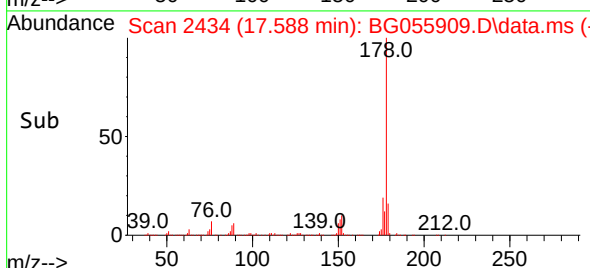
Reviewed By :Christian Giraldo 12/07/2022
Supervised By :Jagrut Upadhyay 12/07/2022

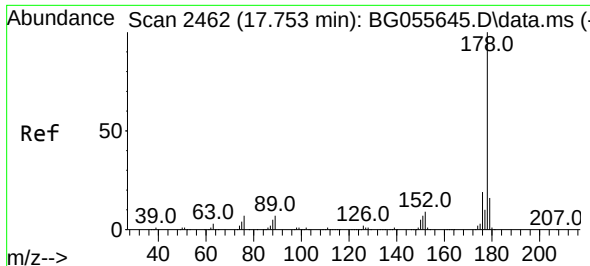


#71
Phenanthrene
Concen: 43.287 ng
RT: 17.588 min Scan# 2434
Delta R.T. 0.002 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46



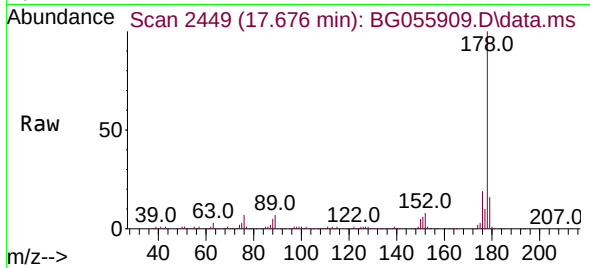
Tgt Ion:178 Resp: 596615
Ion Ratio Lower Upper
178 100
176 19.3 16.0 24.0
179 15.8 12.7 19.1





#72
 Anthracene
 Concen: 10.531 ng
 RT: 17.676 min Scan# 2462
 Delta R.T. 0.002 min
 Lab File: BG055909.D
 Acq: 6 Dec 2022 18:46

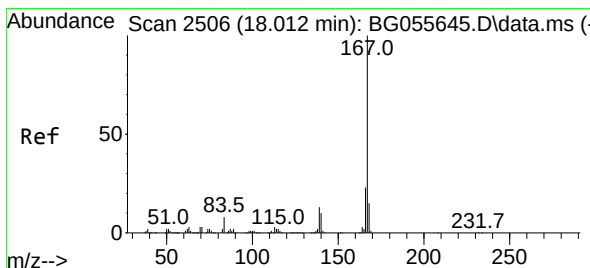
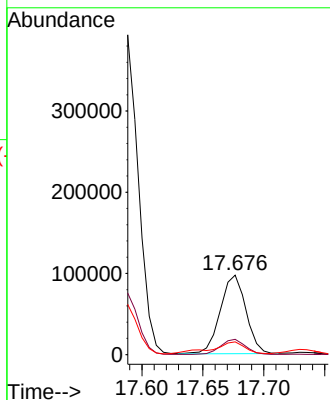
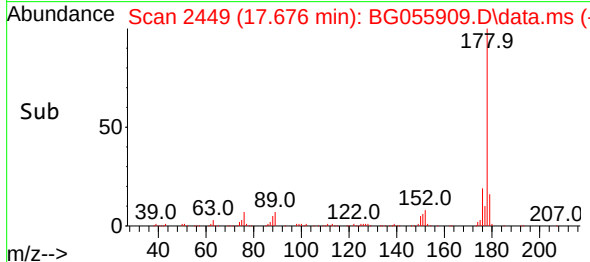
Instrument :
 BNA_G
 ClientSampleId :
 TR-5-120222DL



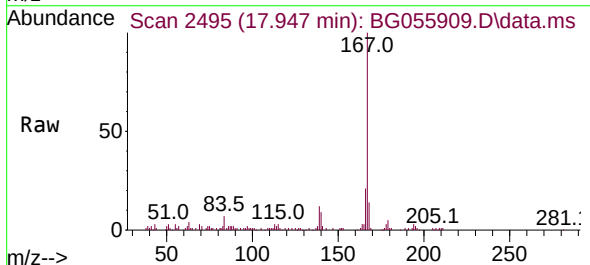
Tgt Ion:178 Resp: 141033
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.5 23.3
 179 16.0 12.5 18.7

Manual Integrations
 APPROVED

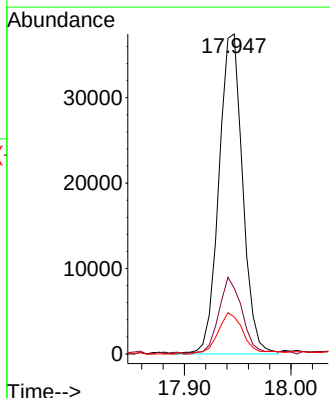
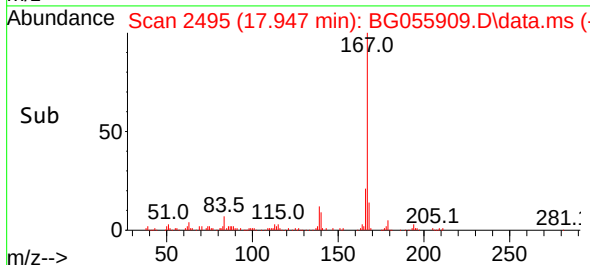
Reviewed By :Christian Giraldo 12/07/2022
 Supervised By :Jagrut Upadhyay 12/07/2022

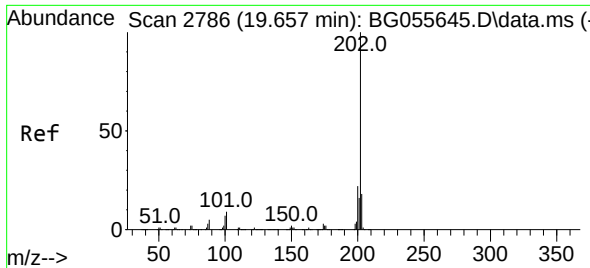


#73
 Carbazole
 Concen: 4.818 ng
 RT: 17.947 min Scan# 2495
 Delta R.T. 0.002 min
 Lab File: BG055909.D
 Acq: 6 Dec 2022 18:46



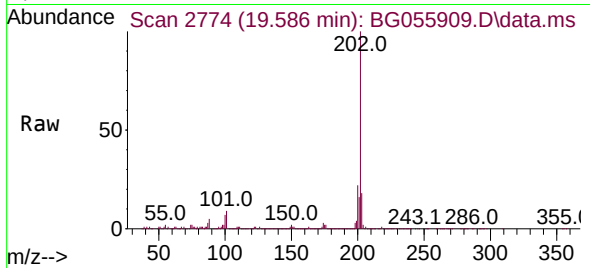
Tgt Ion:167 Resp: 58005
 Ion Ratio Lower Upper
 167 100
 166 20.5 18.2 27.2
 139 11.5 10.2 15.4





#75
Fluoranthene
Concen: 31.781 ng
RT: 19.586 min Scan# 21
Delta R.T. 0.002 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46

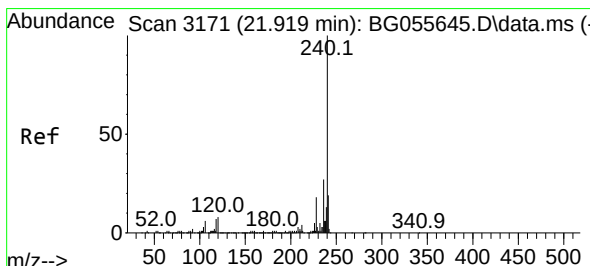
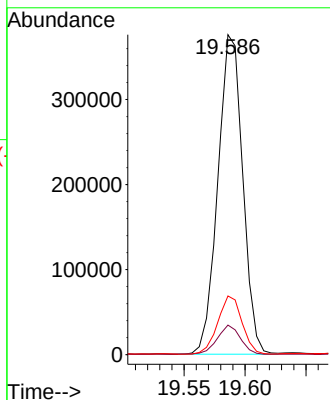
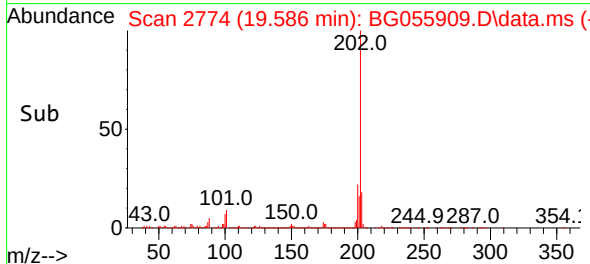
Instrument :
BNA_G
ClientSampleId :
TR-5-120222DL



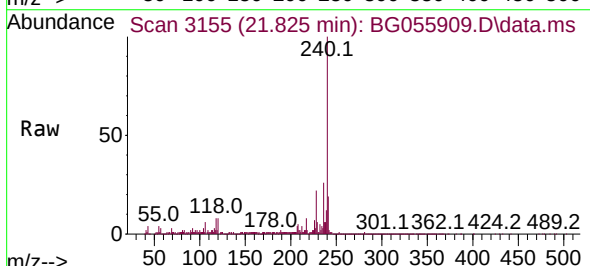
Tgt Ion:202 Resp: 532899
Ion Ratio Lower Upper
202 100
101 9.2 0.0 28.8
203 18.3 0.0 38.1

Manual Integrations
APPROVED

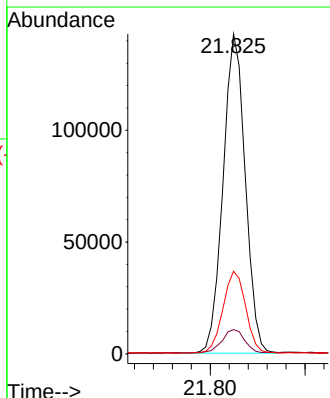
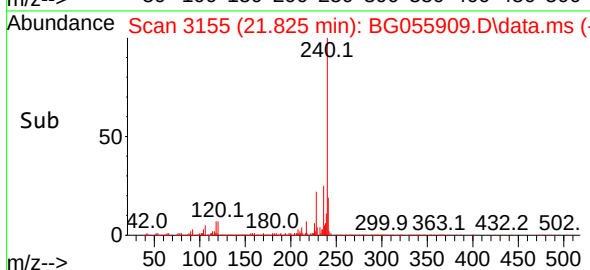
Reviewed By :Christian Giraldo 12/07/2022
Supervised By :Jagrut Upadhyay 12/07/2022

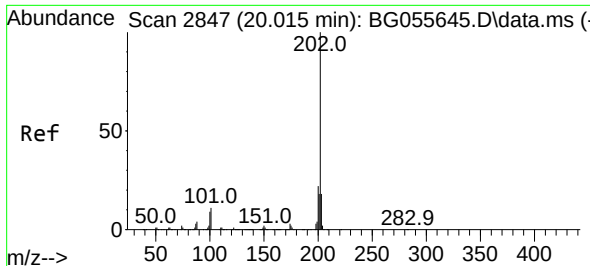


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.825 min Scan# 3155
Delta R.T. -0.004 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46



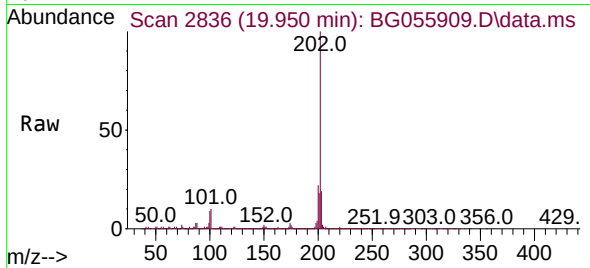
Tgt Ion:240 Resp: 231663
Ion Ratio Lower Upper
240 100
120 7.6 6.3 9.5
236 25.8 21.9 32.9





#78
Pyrene
Concen: 30.482 ng
RT: 19.950 min Scan# 2847
Delta R.T. 0.002 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46

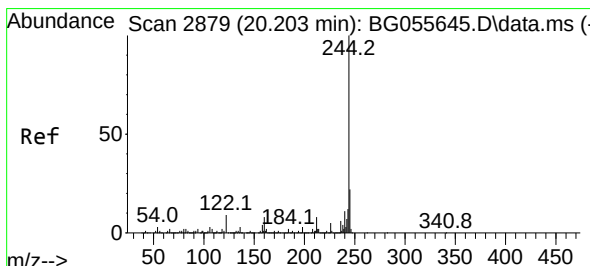
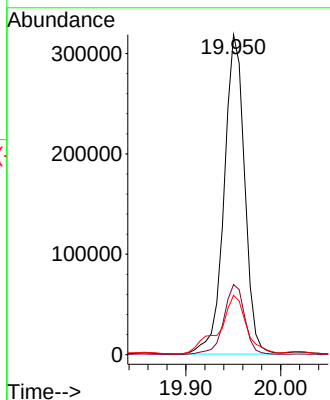
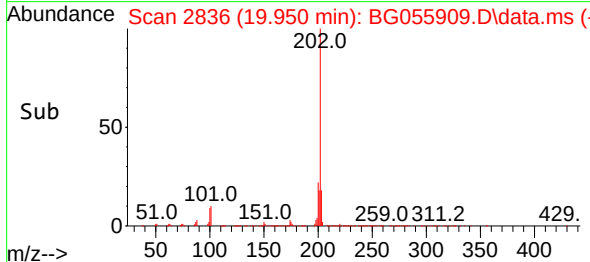
Instrument :
BNA_G
ClientSampleId :
TR-5-120222DL



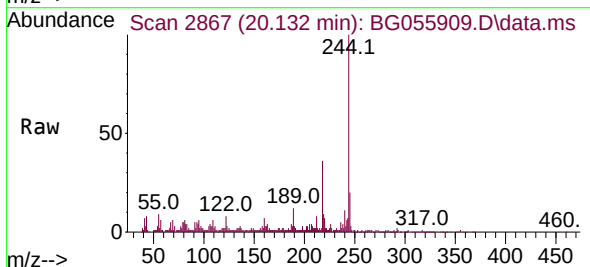
Tgt Ion:202 Resp: 477985
Ion Ratio Lower Upper
202 100
200 21.9 17.8 26.6
203 18.5 14.4 21.6

Manual Integrations
APPROVED

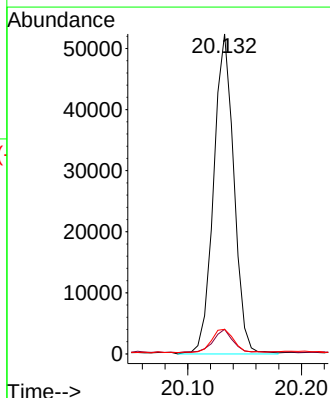
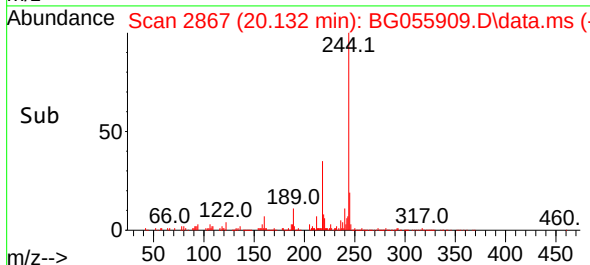
Reviewed By :Christian Giraldo 12/07/2022
Supervised By :Jagrut Upadhyay 12/07/2022

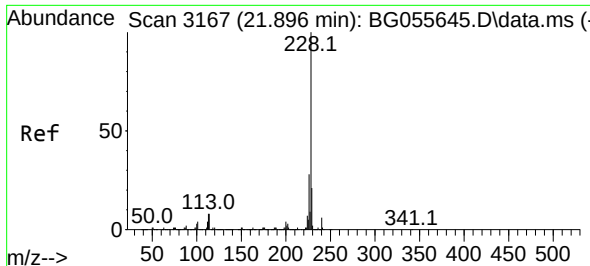


#79
Terphenyl-d14
Concen: 5.596 ng
RT: 20.132 min Scan# 2867
Delta R.T. 0.002 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46



Tgt Ion:244 Resp: 64818
Ion Ratio Lower Upper
244 100
212 7.7 6.3 9.5
122 7.7 6.9 10.3





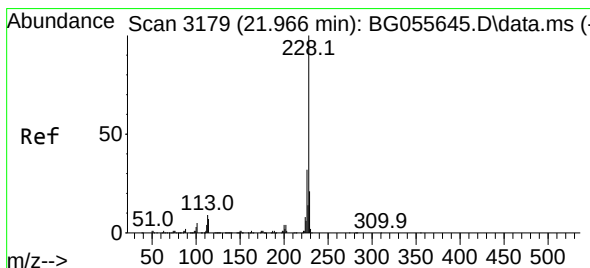
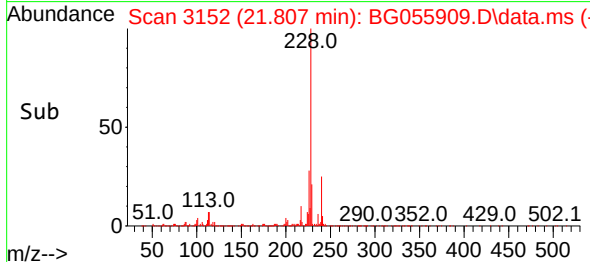
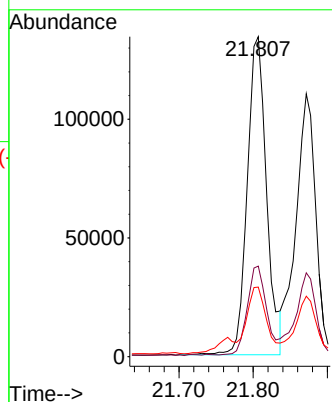
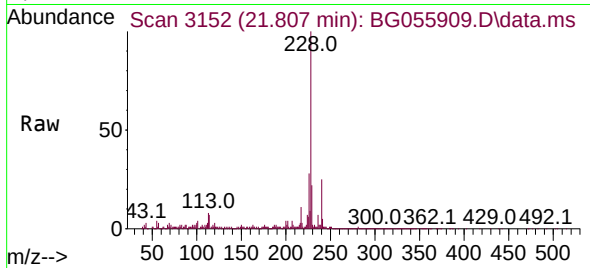
#81
Benzo(a)anthracene
Concen: 15.148 ng
RT: 21.807 min Scan# 3163
Delta R.T. 0.002 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46

Instrument :
BNA_G
ClientSampleId :
TR-5-120222DL

Tgt Ion:228 Resp: 241701
Ion Ratio Lower Upper
228 100
226 28.3 22.7 34.1
229 21.7 16.5 24.7

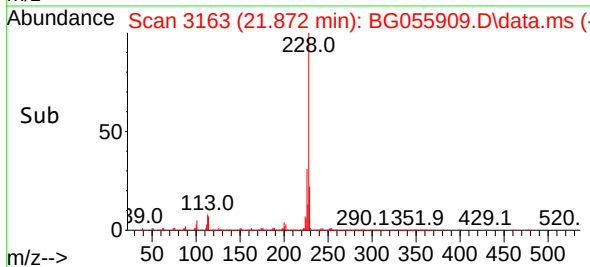
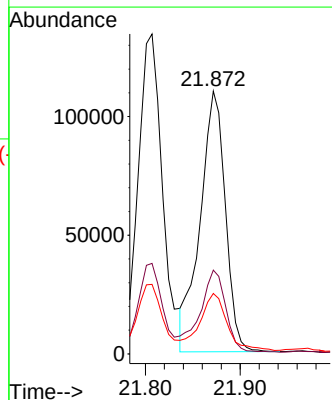
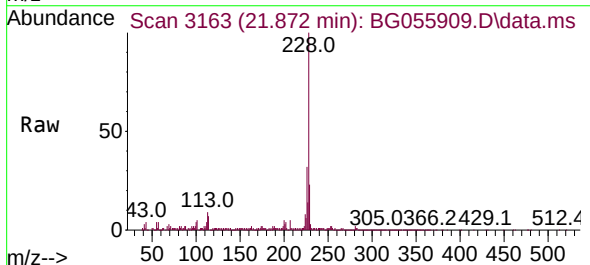
Manual Integrations
APPROVED

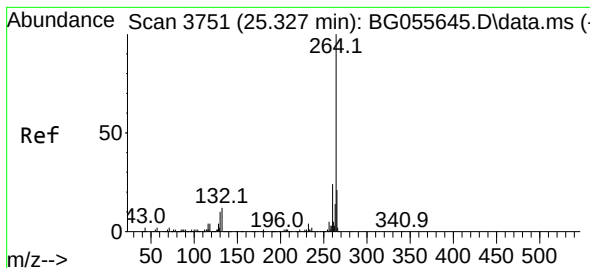
Reviewed By :Christian Giraldo 12/07/2022
Supervised By :Jagrut Upadhyay 12/07/2022



#83
Chrysene
Concen: 13.422 ng
RT: 21.872 min Scan# 3163
Delta R.T. -0.004 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46

Tgt Ion:228 Resp: 203875
Ion Ratio Lower Upper
228 100
226 31.9 25.4 38.2
229 23.0 17.1 25.7





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.179 min Scan# 31

Delta R.T. 0.002 min

Lab File: BG055909.D

Acq: 6 Dec 2022 18:46

Instrument :

BNA_G

ClientSampleId :

TR-5-120222DL

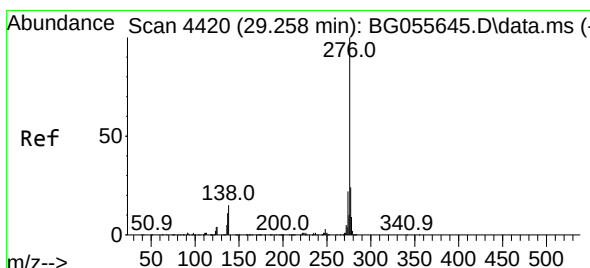
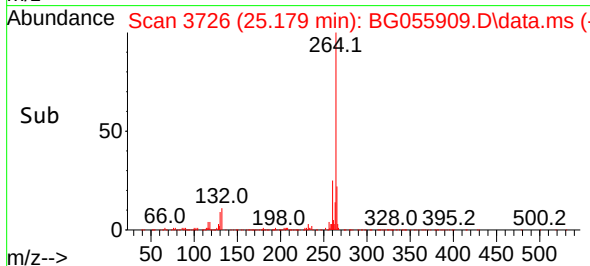
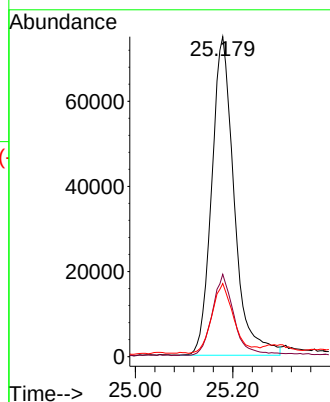
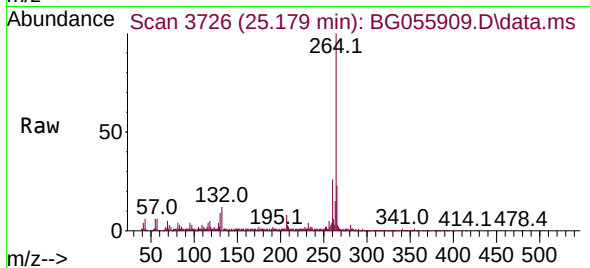
Tgt Ion:264 Resp: 23944

Ion	Ratio	Lower	Upper
264	100		
260	25.7	19.5	29.3
265	22.8	17.1	25.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 12/07/2022
Supervised By :Jagrut Upadhyay 12/07/2022



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.600 ng

RT: 29.040 min Scan# 4383

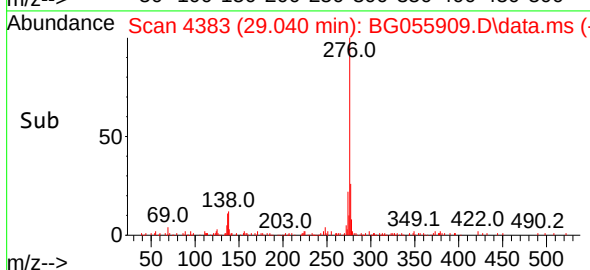
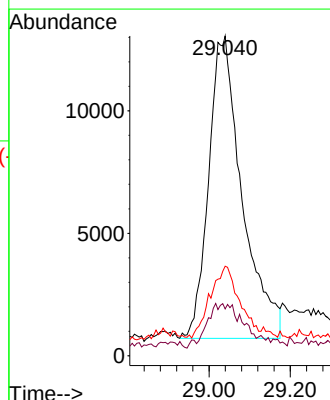
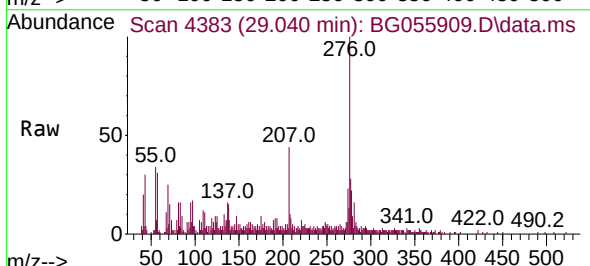
Delta R.T. -0.004 min

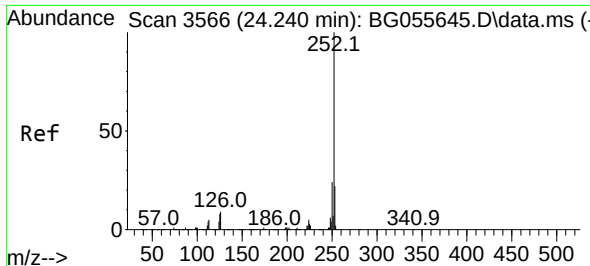
Lab File: BG055909.D

Acq: 6 Dec 2022 18:46

Tgt Ion:276 Resp: 70610

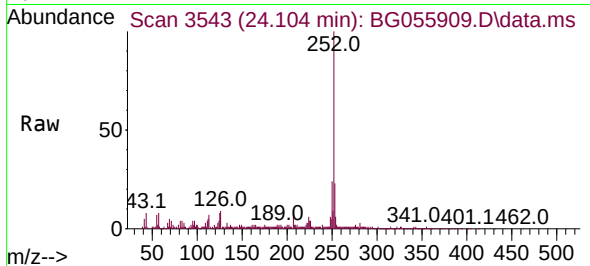
Ion	Ratio	Lower	Upper
276	100		
138	0.0	10.4	15.6#
277	20.7	20.2	30.4





#88
Benzo(b)fluoranthene
Concen: 14.170 ng
RT: 24.104 min Scan# 3543
Delta R.T. -0.004 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46

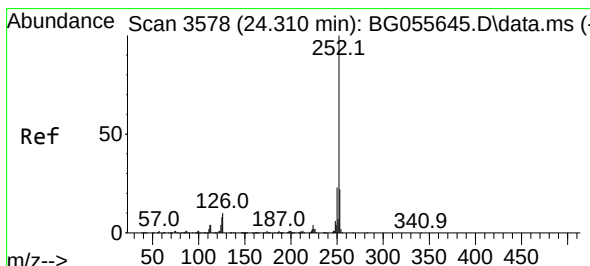
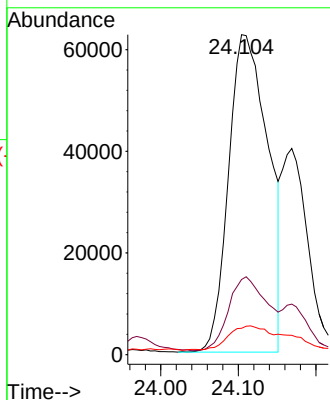
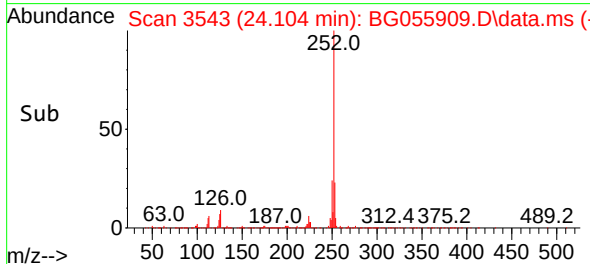
Instrument :
BNA_G
ClientSampleId :
TR-5-120222DL



Tgt Ion:252 Resp: 220958
Ion Ratio Lower Upper
252 100
253 23.5 18.0 27.0
125 8.2 6.2 9.2

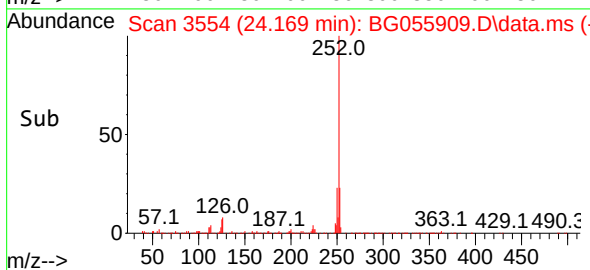
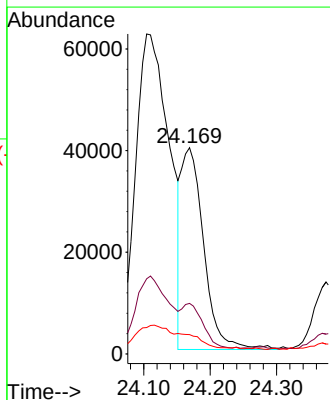
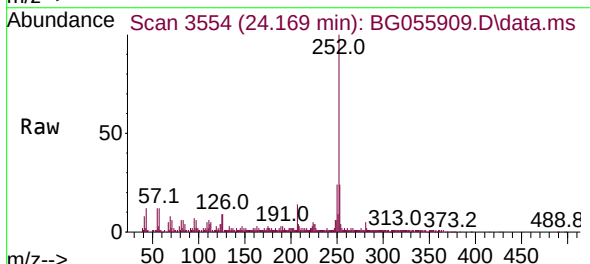
Manual Integrations
APPROVED

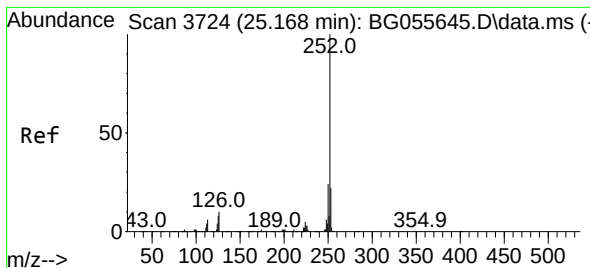
Reviewed By :Christian Giraldo 12/07/2022
Supervised By :Jagrut Upadhyay 12/07/2022



#89
Benzo(k)fluoranthene
Concen: 6.034 ng m
RT: 24.169 min Scan# 3554
Delta R.T. -0.010 min
Lab File: BG055909.D
Acq: 6 Dec 2022 18:46

Tgt Ion:252 Resp: 93786
Ion Ratio Lower Upper
252 100
253 24.5 17.8 26.6
125 9.4 6.1 9.1#





#90

Benzo(a)pyrene

Concen: 13.124 ng

RT: 25.021 min Scan# 30

Delta R.T. 0.002 min

Lab File: BG055909.D

Acq: 6 Dec 2022 18:46

Instrument :

BNA_G

ClientSampleId :

TR-5-120222DL

Tgt Ion:252 Resp: 175619

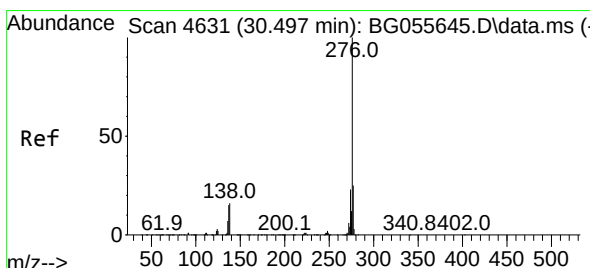
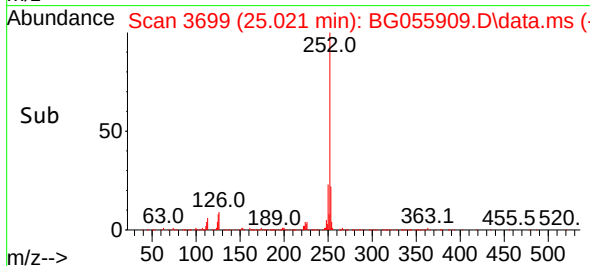
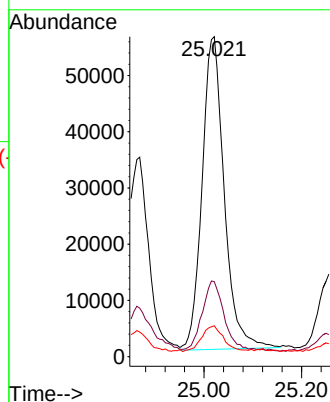
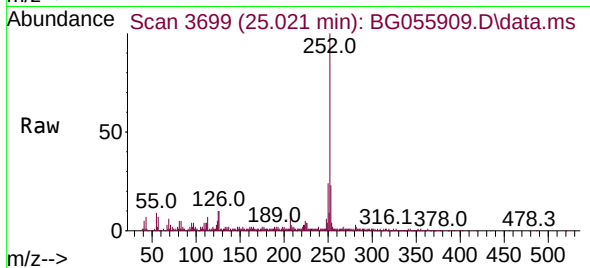
Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.8	26.6
125	9.6	6.4	9.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 12/07/2022

Supervised By :Jagrut Upadhyay 12/07/2022



#92

Benzo(g,h,i)perylene

Concen: 3.707 ng

RT: 30.256 min Scan# 4590

Delta R.T. 0.002 min

Lab File: BG055909.D

Acq: 6 Dec 2022 18:46

Tgt Ion:276 Resp: 59898

Ion	Ratio	Lower	Upper
276	100		
277	28.2	19.8	29.6
138	18.6	13.1	19.7

