

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072522\
 Data File : BG054378.D
 Acq On : 25 Jul 2022 13:46
 Operator : CG/JU
 Sample : N3814-08DL 5X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 ENV-DE-2(5-10)DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 07/26/2022
 Supervised By : Jagrut Upadhyay 07/26/2022

Quant Time: Jul 26 00:54:36 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG071522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 15 15:54:11 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.987	152	23411	20.000	ng	-0.01
21) Naphthalene-d8	10.796	136	90183	20.000	ng	#-0.01
39) Acenaphthene-d10	14.627	164	73040	20.000	ng	0.00
64) Phenanthrene-d10	17.370	188	189934	20.000	ng	# 0.00
76) Chrysene-d12	21.636	240	215352	20.000	ng	# 0.00
86) Perylene-d12	24.838	264	232849	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.567	112	11561	10.311	ng	0.00
7) Phenol-d6	7.176	99	15878	10.334	ng	0.00
23) Nitrobenzene-d5	9.151	82	10581	6.389	ng	-0.01
42) 2,4,6-Tribromophenol	16.113	330	15239	9.937	ng	-0.01
45) 2-Fluorobiphenyl	13.246	172	32554	6.287	ng	-0.01
79) Terphenyl-d14	19.979	244	73040	6.728	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.849	128	12902	2.850	ng	98
38) 1-Methylnaphthalene	12.670	142	7812	2.306	ng	100
52) Acenaphthene	14.691	154	14742	3.918	ng	97
55) Dibenzofuran	15.020	168	18078	2.700	ng	# 95
58) Fluorene	15.672	166	26115	4.744	ng	89
71) Phenanthrene	17.411	178	374621	39.606	ng	98
72) Anthracene	17.505	178	90917	9.795	ng	98
73) Carbazole	17.770	167	29532	3.865	ng	96
75) Fluoranthene	19.427	202	498522	38.664	ng	95
78) Pyrene	19.785	202	451633	36.550	ng	98
81) Benzo(a)anthracene	21.618	228	276978	20.261	ng	99
83) Chrysene	21.683	228	224655	17.394	ng	96
87) Indeno(1,2,3-cd)pyrene	28.498	276	145988	8.241	ng	# 99
88) Benzo(b)fluoranthene	23.827	252	279322	20.284	ng	# 99
89) Benzo(k)fluoranthene	23.880	252	105171m	7.674	ng	
90) Benzo(a)pyrene	24.685	252	219641m	18.677	ng	
92) Benzo(g,h,i)perylene	29.638	276	138986	9.668	ng	# 92

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

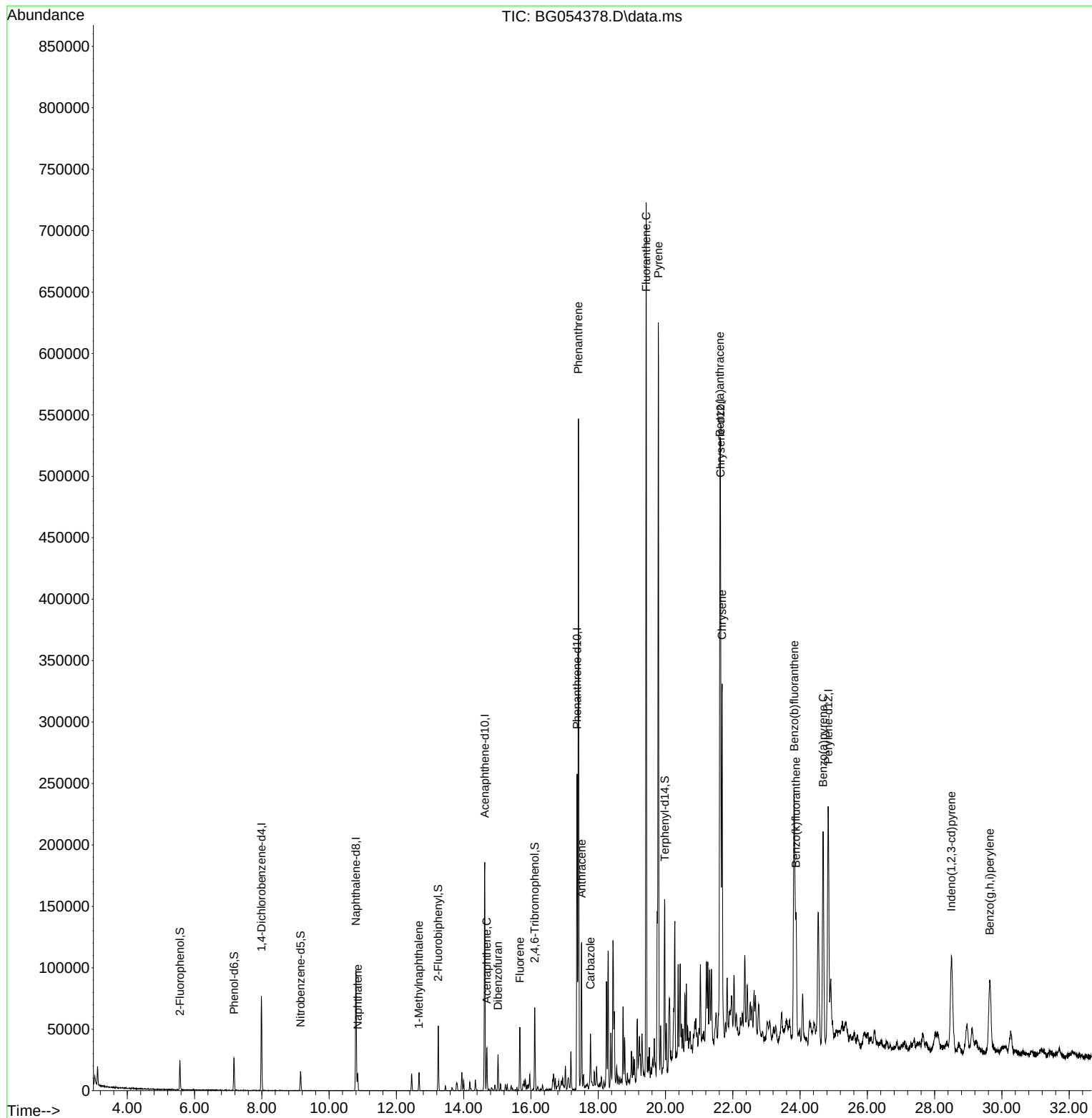
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072522\
Data File : BG054378.D
Acq On : 25 Jul 2022 13:46
Operator : CG/JU
Sample : N3814-08DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

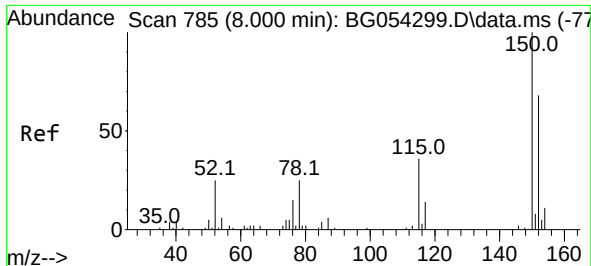
Instrument :
BNA_G
ClientSampleId :
ENV-DE-2(5-10)DL

Quant Time: Jul 26 00:54:36 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG071522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 15 15:54:11 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

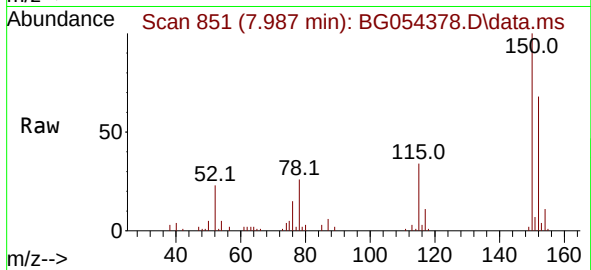
Reviewed By : Christian Giraldo 07/26/2022
Supervised By : Jagrut Upadhyay 07/26/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.987 min Scan# 81
Delta R.T. -0.013 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46

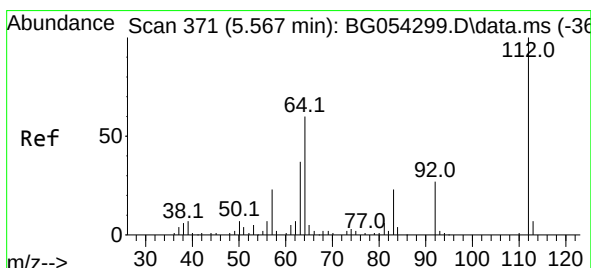
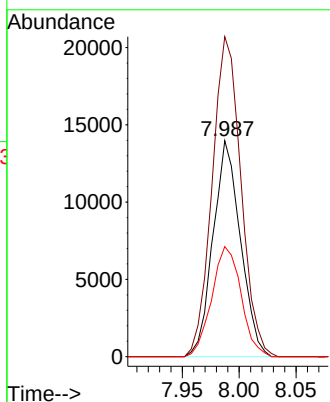
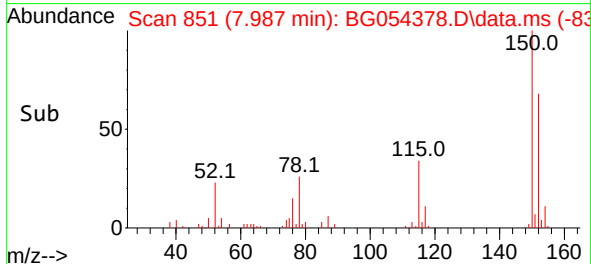
Instrument :
BNA_G
ClientSampleId :
ENV-DE-2(5-10)DL



Tgt Ion:152 Resp: 2341
Ion Ratio Lower Upper
152 100
150 148.1 131.6 197.4
115 50.9 50.9 76.3

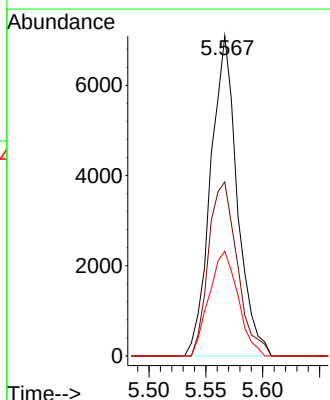
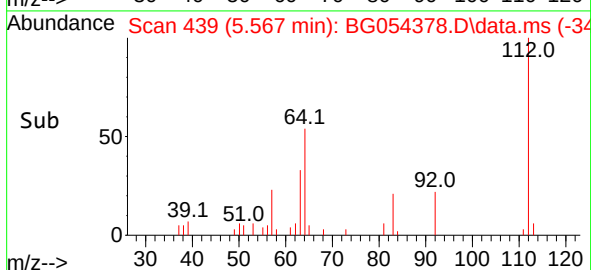
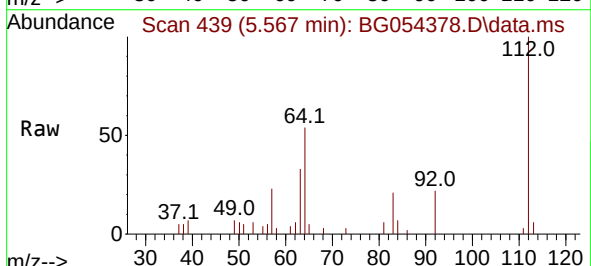
Manual Integrations
APPROVED

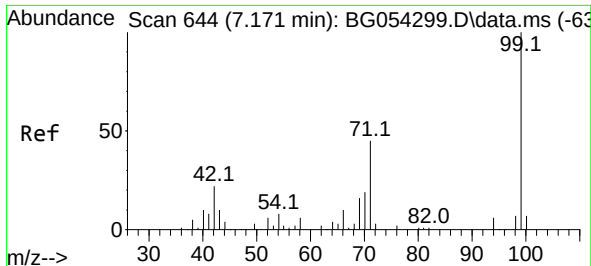
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022



#5
2-Fluorophenol
Concen: 10.311 ng
RT: 5.567 min Scan# 439
Delta R.T. -0.001 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46

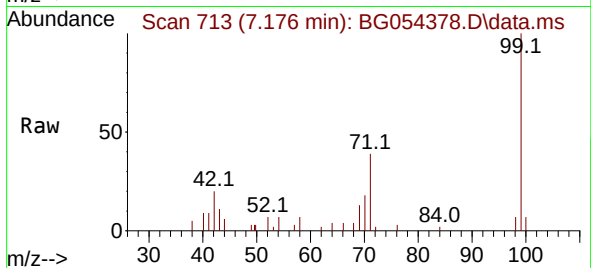
Tgt Ion:112 Resp: 11561
Ion Ratio Lower Upper
112 100
64 54.4 55.1 82.7#
63 32.7 30.4 45.6





#7
Phenol-d6
Concen: 10.334 ng
RT: 7.176 min Scan# 71
Delta R.T. 0.005 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46

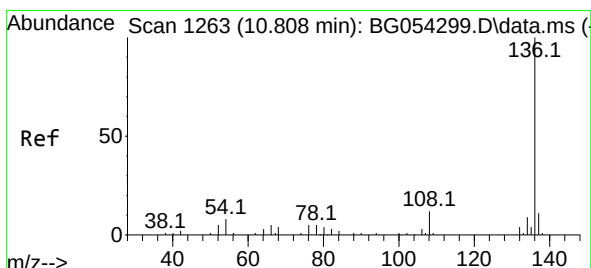
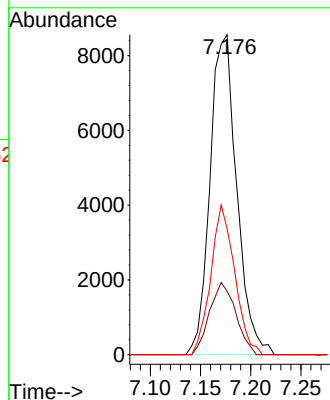
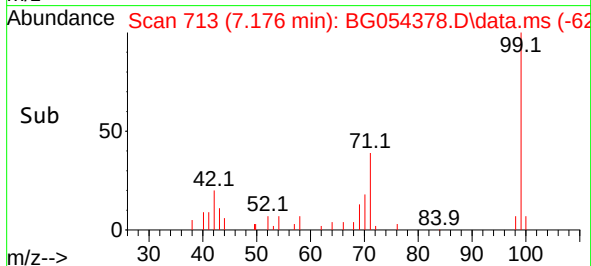
Instrument :
BNA_G
ClientSampleId :
ENV-DE-2(5-10)DL



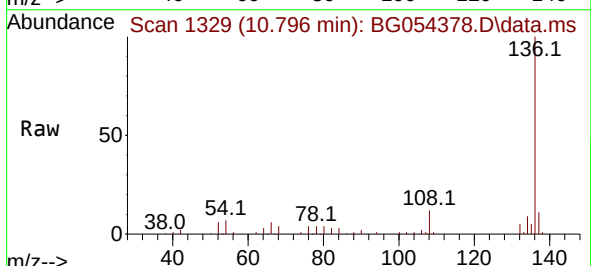
Tgt Ion: 99 Resp: 15878
Ion Ratio Lower Upper
99 100
42 19.8 17.0 25.6
71 39.5 33.8 50.8

Manual Integrations
APPROVED

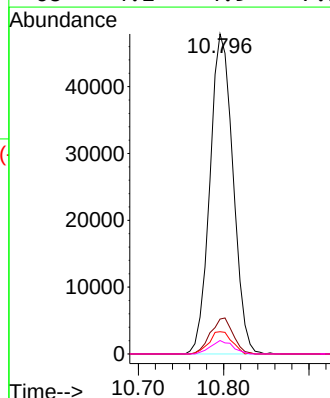
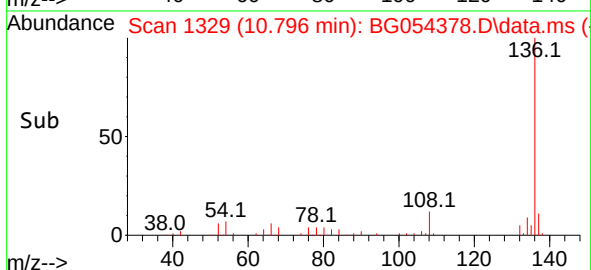
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022

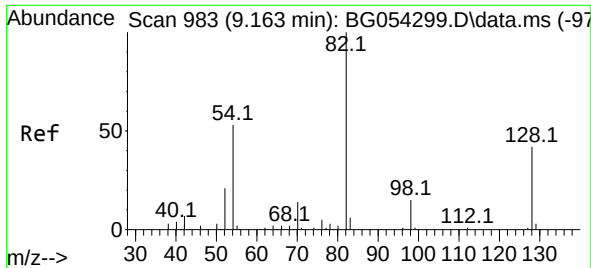


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.796 min Scan# 1329
Delta R.T. -0.012 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46



Tgt Ion:136 Resp: 90183
Ion Ratio Lower Upper
136 100
137 10.9 8.5 12.7
54 7.0 7.4 11.2#
68 4.2 4.9 7.3#





#23
Nitrobenzene-d5
Concen: 6.389 ng
RT: 9.151 min Scan# 1049
Delta R.T. -0.013 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46

Instrument :

BNA_G

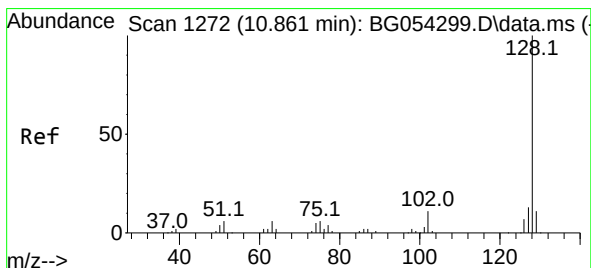
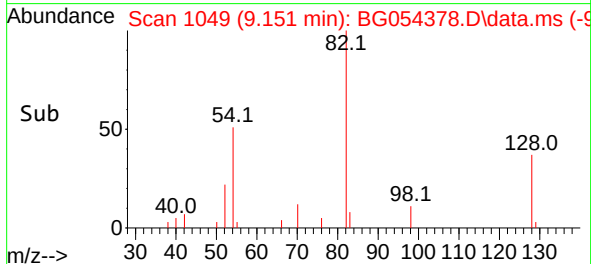
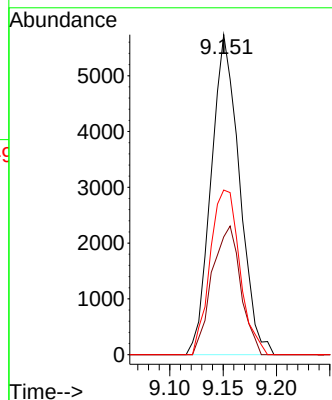
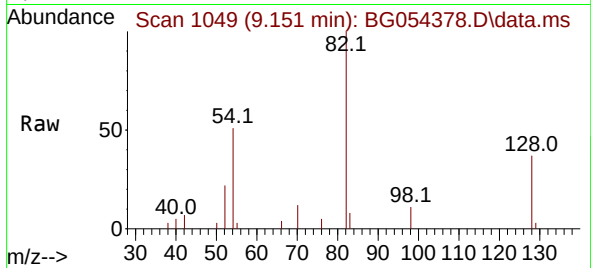
ClientSampleId :

ENV-DE-2(5-10)DL

Tgt Ion: 82 Resp: 1058
Ion Ratio Lower Upper
82 100
128 36.8 27.9 41.9
54 51.4 41.2 61.8

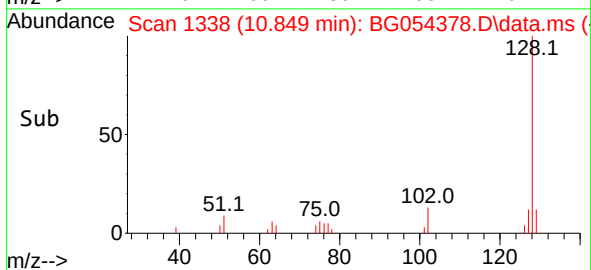
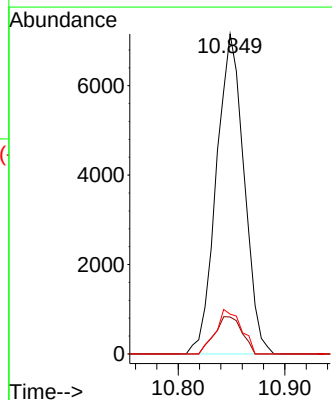
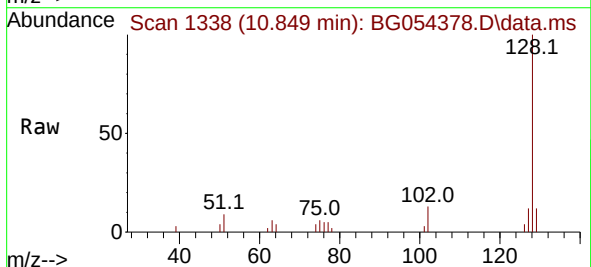
Manual Integrations
APPROVED

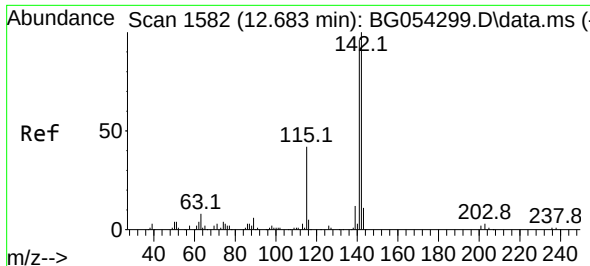
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022



#31
Naphthalene
Concen: 2.850 ng
RT: 10.849 min Scan# 1338
Delta R.T. -0.013 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46

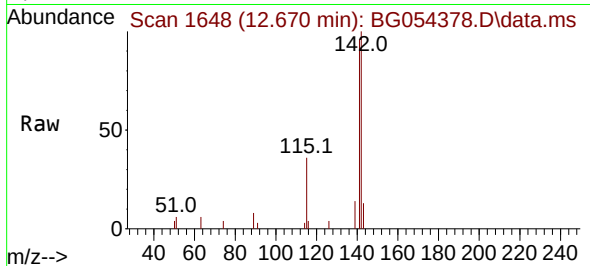
Tgt Ion:128 Resp: 12902
Ion Ratio Lower Upper
128 100
129 11.6 9.0 13.6
127 12.5 11.1 16.7





#38
1-Methylnaphthalene
Concen: 2.306 ng
RT: 12.670 min Scan# 110
Delta R.T. -0.013 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46

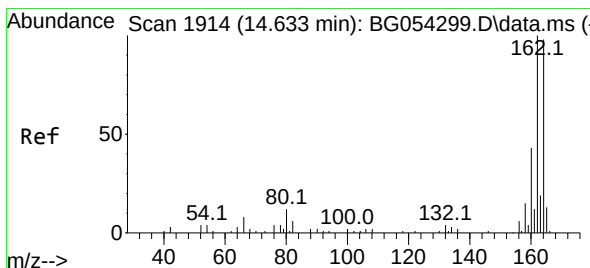
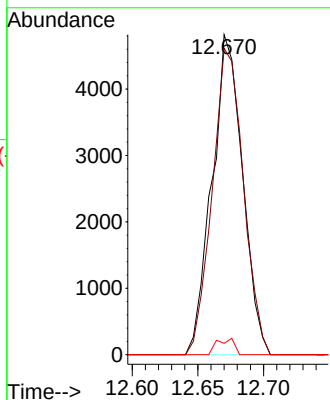
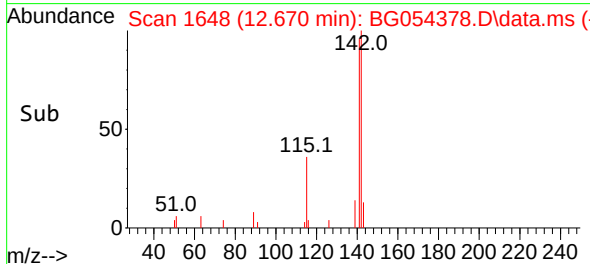
Instrument :
BNA_G
ClientSampleId :
ENV-DE-2(5-10)DL



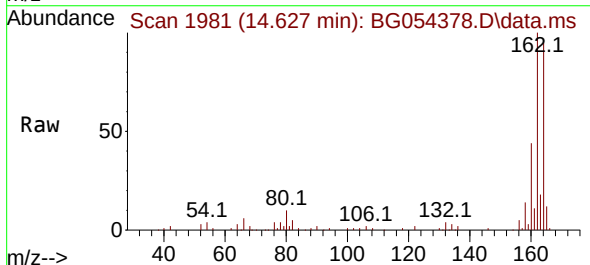
Tgt Ion:142 Resp: 7812
Ion Ratio Lower Upper
142 100
141 95.7 76.4 114.6
116 3.5 3.3 4.9

Manual Integrations
APPROVED

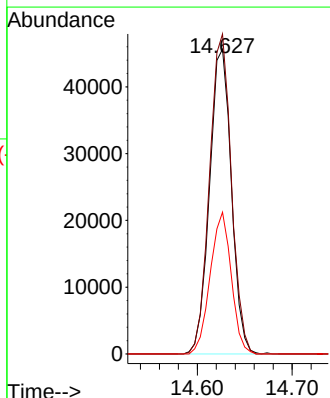
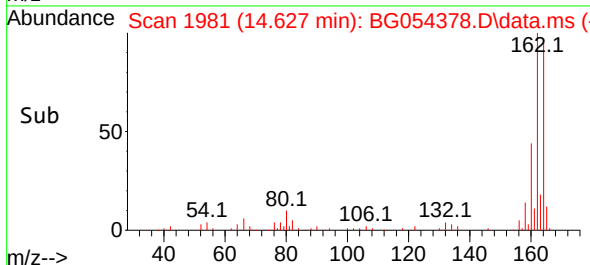
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022

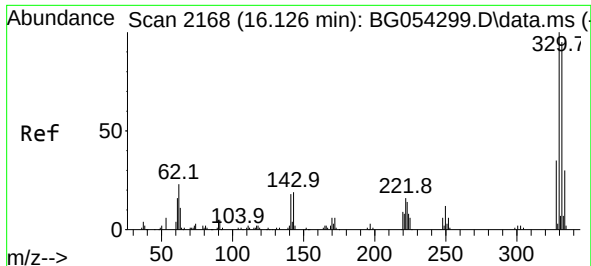


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.627 min Scan# 1981
Delta R.T. -0.006 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46



Tgt Ion:164 Resp: 73040
Ion Ratio Lower Upper
164 100
162 105.0 82.3 123.5
160 46.5 34.2 51.2





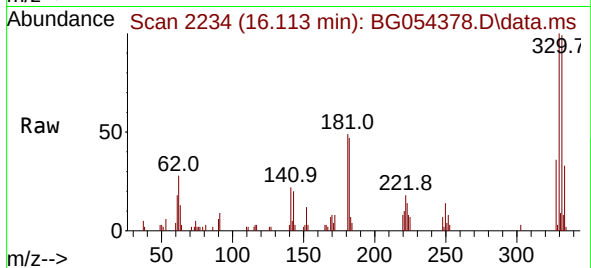
#42
2,4,6-Tribromophenol
Concen: 9.937 ng
RT: 16.113 min Scan# 2168
Delta R.T. -0.013 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46

Instrument :

BNA_G

ClientSampleId :

ENV-DE-2(5-10)DL

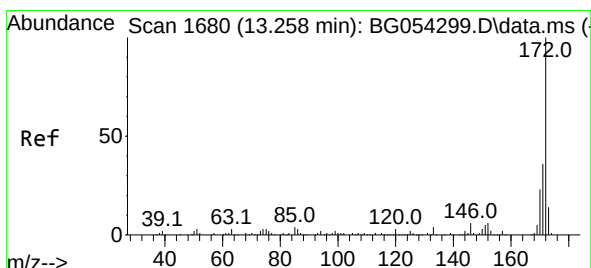
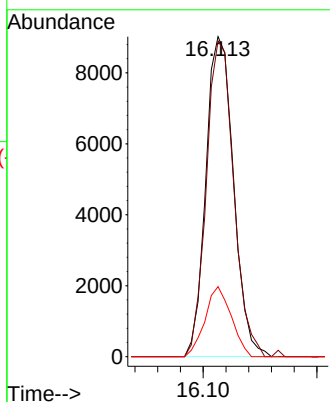
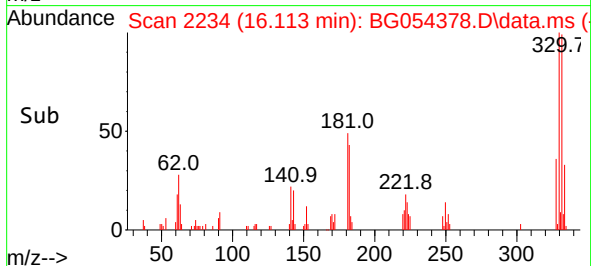


Tgt Ion:330 Resp: 15239
Ion Ratio Lower Upper
330 100
332 97.5 76.0 114.0
141 20.7 27.1 40.7

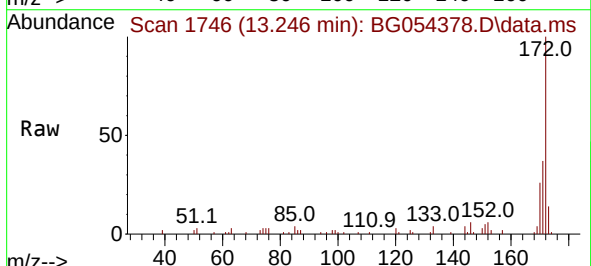
Manual Integrations

APPROVED

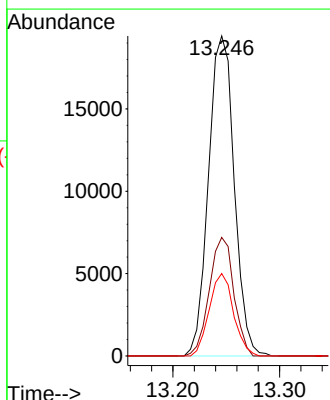
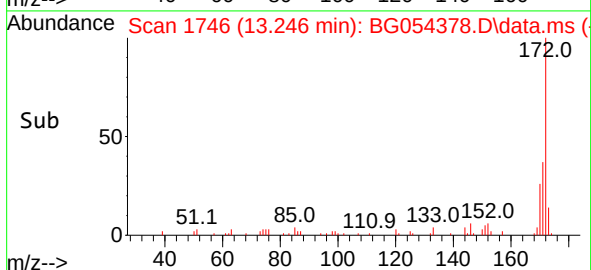
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022

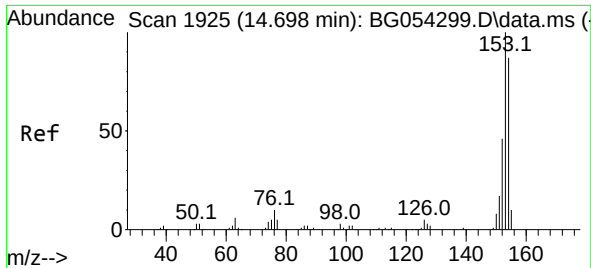


#45
2-Fluorobiphenyl
Concen: 6.287 ng
RT: 13.246 min Scan# 1746
Delta R.T. -0.013 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46



Tgt Ion:172 Resp: 32554
Ion Ratio Lower Upper
172 100
171 37.0 28.5 42.7
170 25.8 18.9 28.3





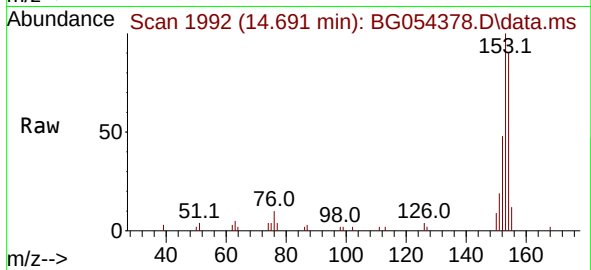
#52
Acenaphthene
Concen: 3.918 ng
RT: 14.691 min Scan# 1925
Delta R.T. -0.007 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46

Instrument :

BNA_G

ClientSampleId :

ENV-DE-2(5-10)DL

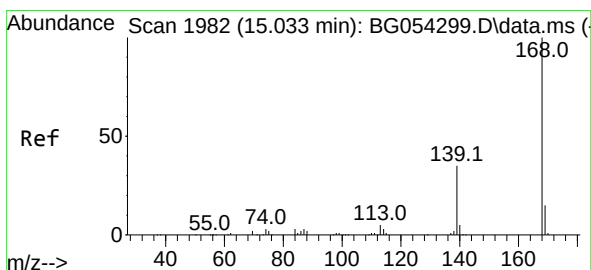
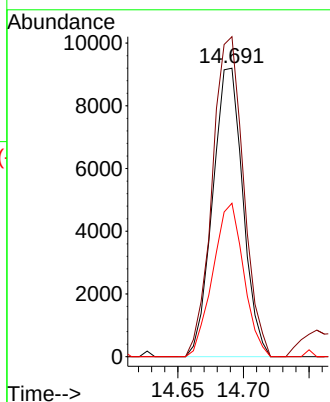
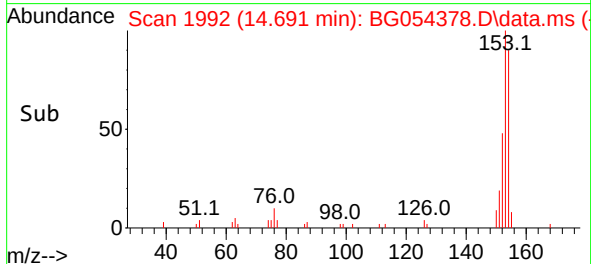


Tgt Ion:154 Resp: 1474
Ion Ratio Lower Upper
154 100
153 110.9 92.7 139.1
152 53.2 42.6 64.0

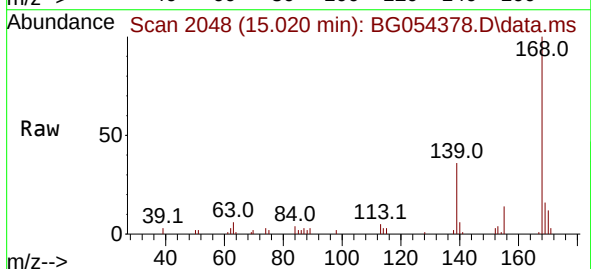
Manual Integrations

APPROVED

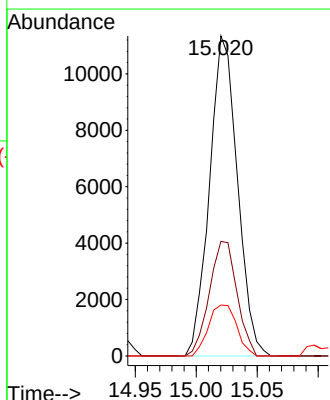
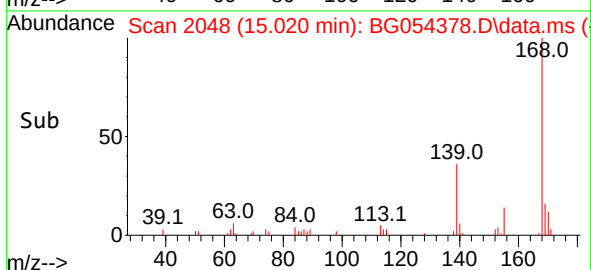
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022

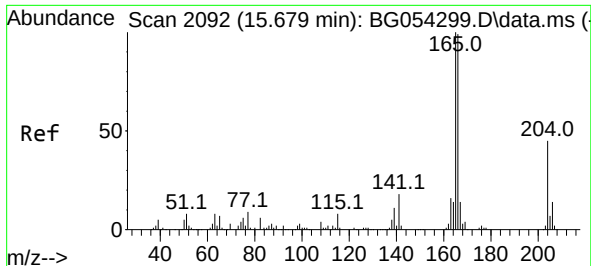


#55
Dibenzofuran
Concen: 2.700 ng
RT: 15.020 min Scan# 2048
Delta R.T. -0.013 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46



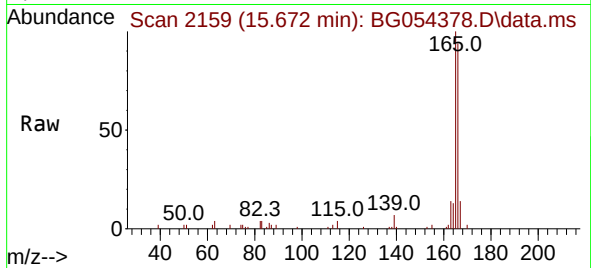
Tgt Ion:168 Resp: 18078
Ion Ratio Lower Upper
168 100
139 35.8 30.5 45.7
169 15.9 10.3 15.5#





#58
Fluorene
Concen: 4.744 ng
RT: 15.672 min Scan# 2159
Delta R.T. -0.007 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46

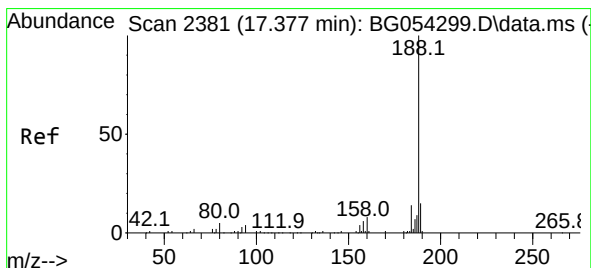
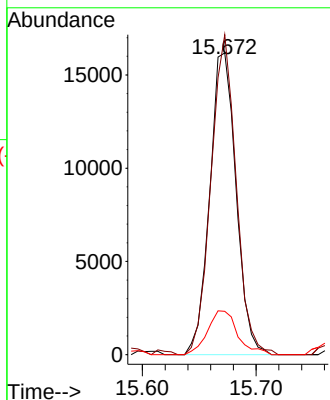
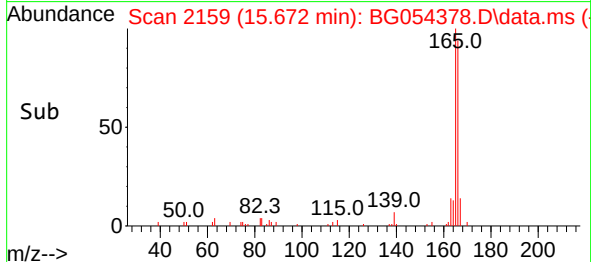
Instrument :
BNA_G
ClientSampleId :
ENV-DE-2(5-10)DL



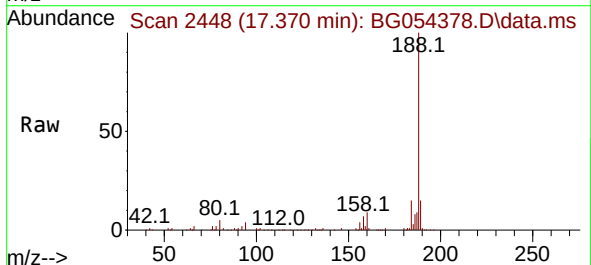
Tgt Ion:166 Resp: 2611
Ion Ratio Lower Upper
166 100
165 106.1 75.0 112.6
167 14.4 10.8 16.2

Manual Integrations
APPROVED

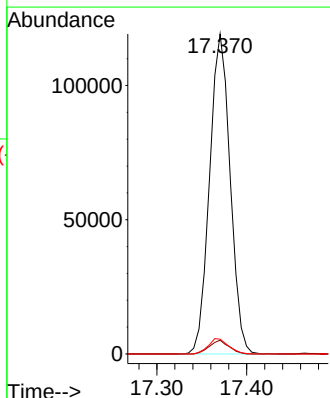
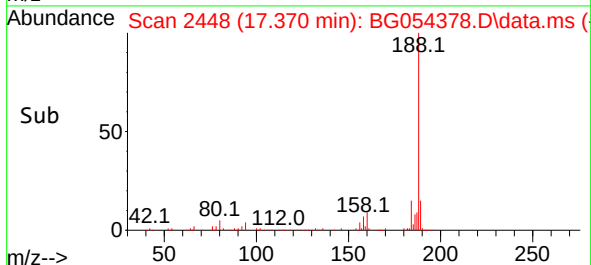
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022

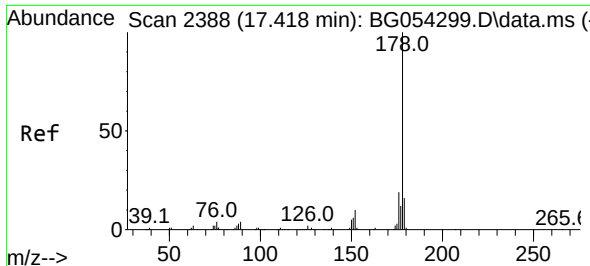


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.370 min Scan# 2448
Delta R.T. -0.007 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46



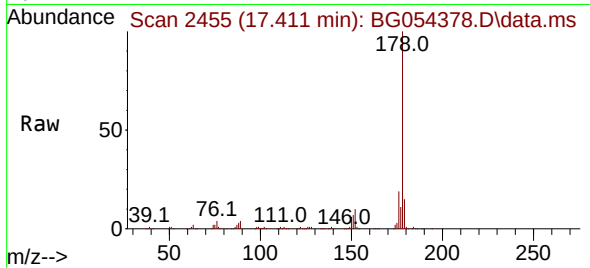
Tgt Ion:188 Resp: 189934
Ion Ratio Lower Upper
188 100
94 4.3 5.4 8.0#
80 4.6 6.8 10.2#





#71
Phenanthrene
Concen: 39.606 ng
RT: 17.411 min Scan# 2411
Delta R.T. -0.007 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46

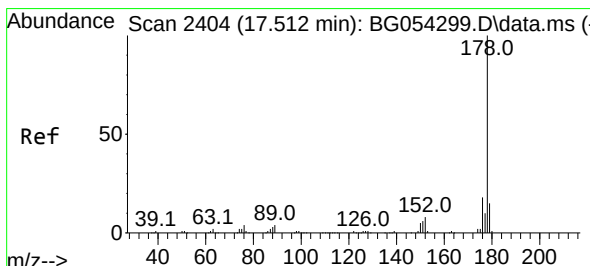
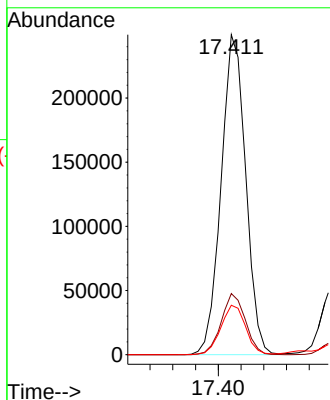
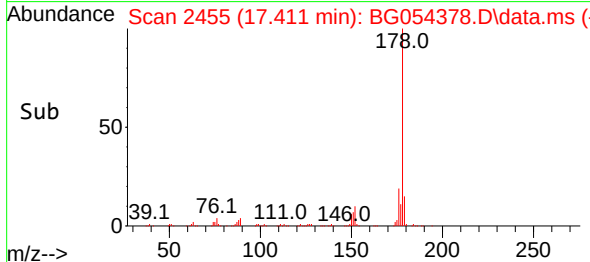
Instrument :
BNA_G
ClientSampleId :
ENV-DE-2(5-10)DL



Tgt Ion:178 Resp: 37462
Ion Ratio Lower Upper
178 100
176 19.1 14.1 21.1
179 15.5 12.1 18.1

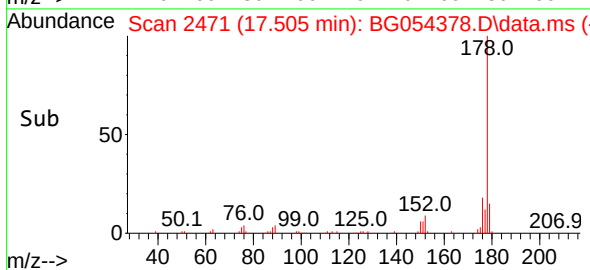
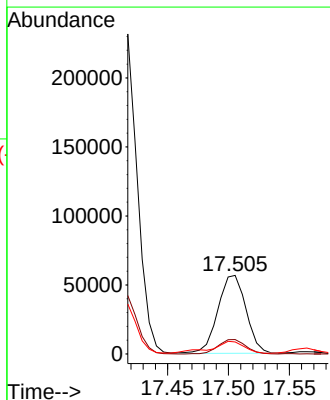
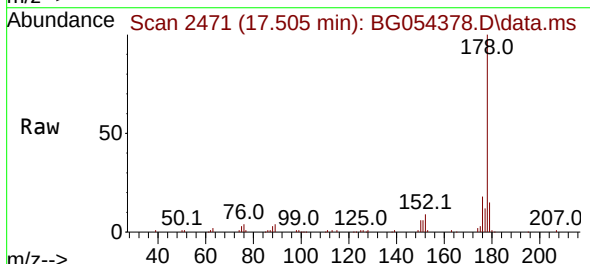
Manual Integrations
APPROVED

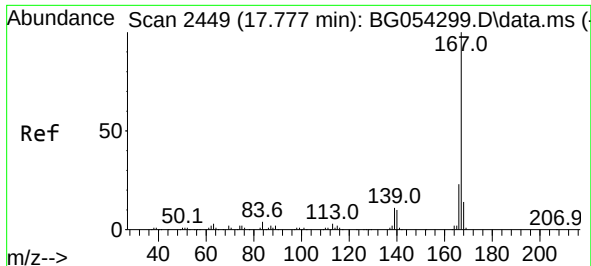
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022



#72
Anthracene
Concen: 9.795 ng
RT: 17.505 min Scan# 2471
Delta R.T. -0.007 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46

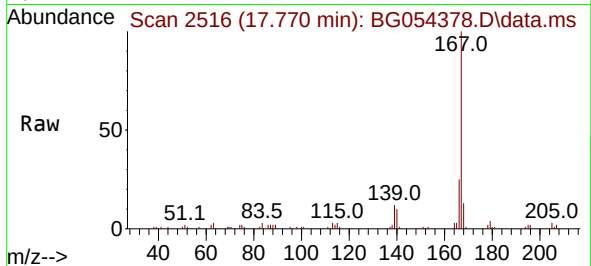
Tgt Ion:178 Resp: 90917
Ion Ratio Lower Upper
178 100
176 18.4 15.2 22.8
179 15.4 13.0 19.4





#73
 Carbazole
 Concen: 3.865 ng
 RT: 17.770 min Scan# 2449
 Delta R.T. -0.007 min
 Lab File: BG054378.D
 Acq: 25 Jul 2022 13:46

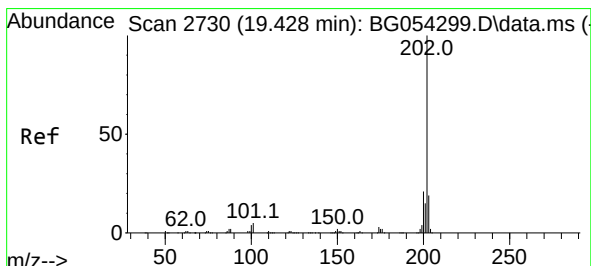
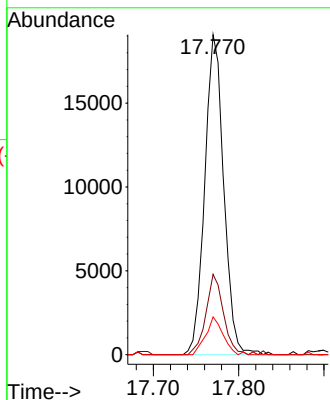
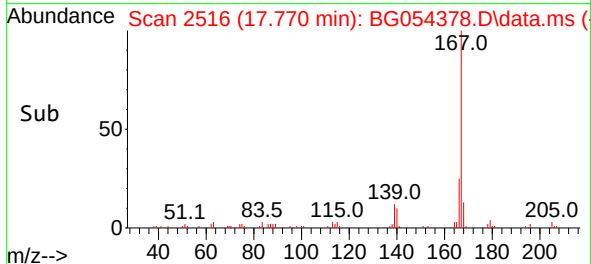
Instrument :
 BNA_G
 ClientSampleId :
 ENV-DE-2(5-10)DL



Tgt Ion:167 Resp: 29532
 Ion Ratio Lower Upper
 167 100
 166 25.1 18.2 27.2
 139 11.8 10.1 15.1

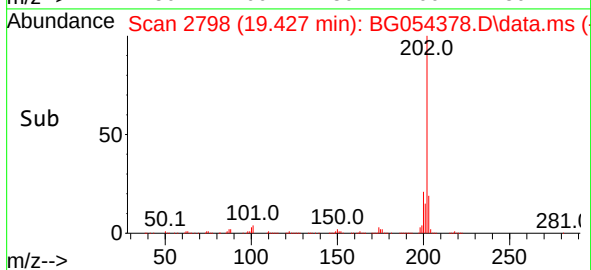
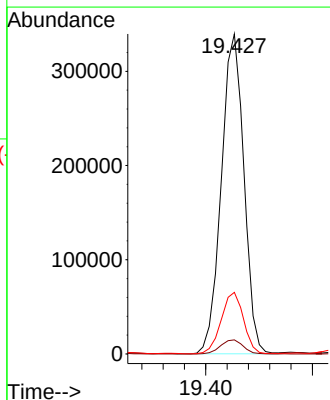
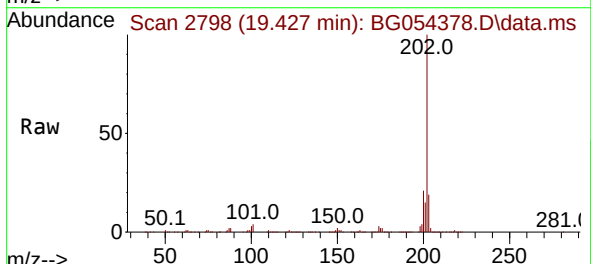
Manual Integrations
 APPROVED

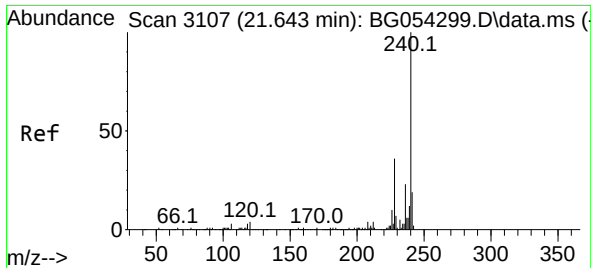
Reviewed By :Christian Giraldo 07/26/2022
 Supervised By :Jagrut Upadhyay 07/26/2022



#75
 Fluoranthene
 Concen: 38.664 ng
 RT: 19.427 min Scan# 2798
 Delta R.T. -0.001 min
 Lab File: BG054378.D
 Acq: 25 Jul 2022 13:46

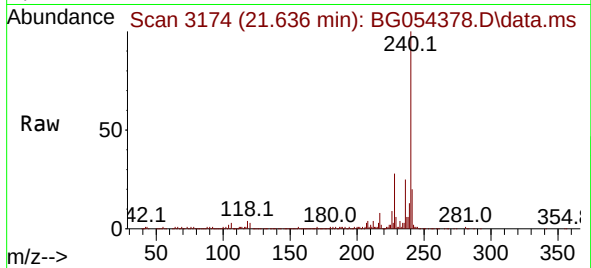
Tgt Ion:202 Resp: 498522
 Ion Ratio Lower Upper
 202 100
 101 4.4 0.0 26.9
 203 19.2 0.0 37.2





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.636 min Scan# 3107
Delta R.T. -0.007 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46

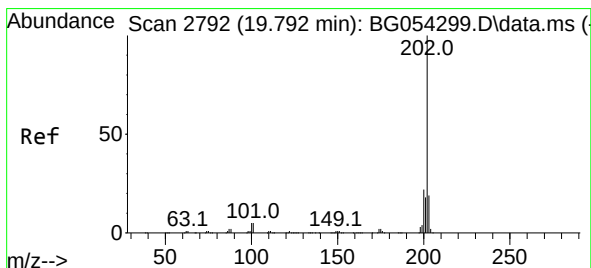
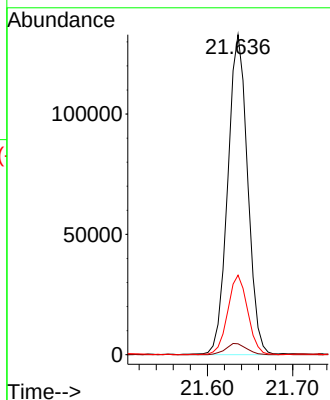
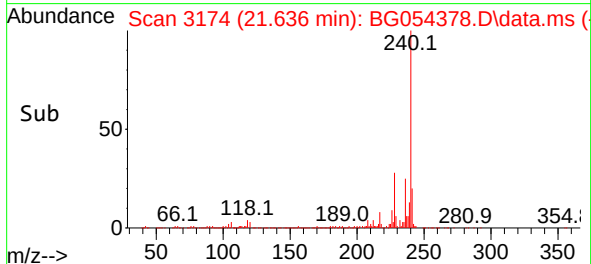
Instrument :
BNA_G
ClientSampleId :
ENV-DE-2(5-10)DL



Tgt Ion:240 Resp: 215352
Ion Ratio Lower Upper
240 100
120 3.4 4.6 7.0
236 24.9 20.2 30.4

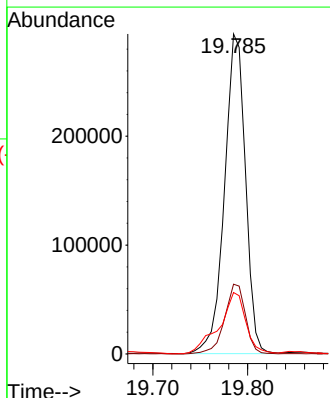
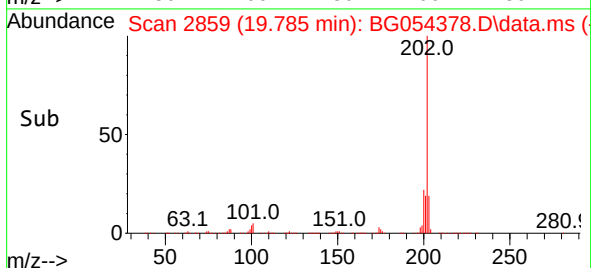
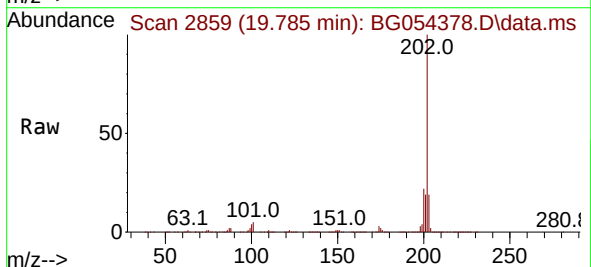
Manual Integrations
APPROVED

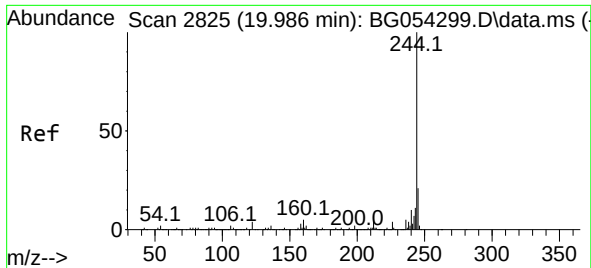
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022



#78
Pyrene
Concen: 36.550 ng
RT: 19.785 min Scan# 2859
Delta R.T. -0.007 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46

Tgt Ion:202 Resp: 451633
Ion Ratio Lower Upper
202 100
200 21.8 16.6 24.8
203 19.2 14.6 21.8





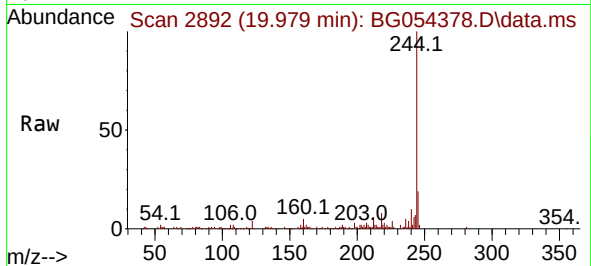
#79
 Terphenyl-d14
 Concen: 6.728 ng
 RT: 19.979 min Scan# 2892
 Delta R.T. -0.007 min
 Lab File: BG054378.D
 Acq: 25 Jul 2022 13:46

Instrument :

BNA_G

ClientSampleId :

ENV-DE-2(5-10)DL

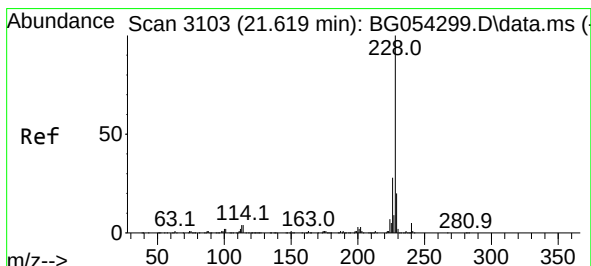
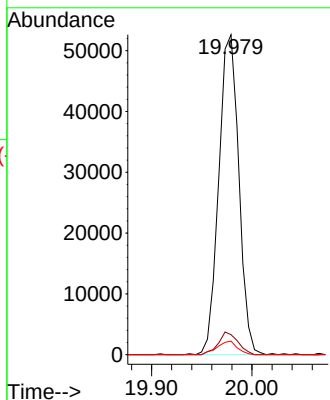
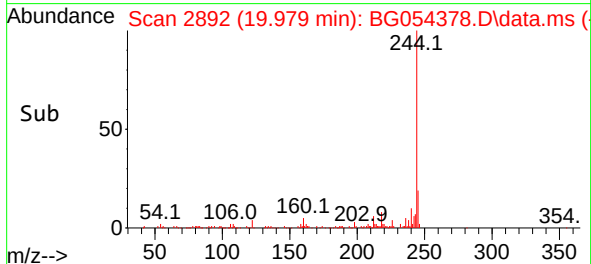


Tgt Ion:244 Resp: 73040
 Ion Ratio Lower Upper
 244 100
 212 6.3 6.5 9.7
 122 4.3 5.0 7.4

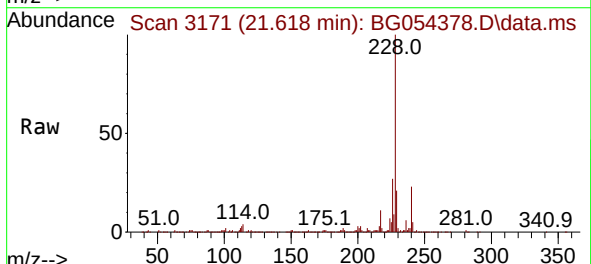
Manual Integrations

APPROVED

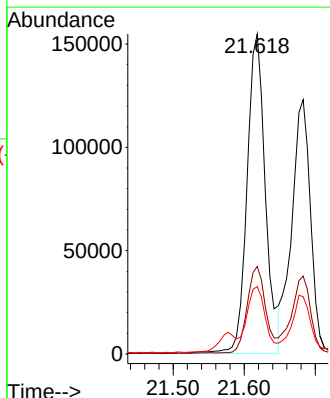
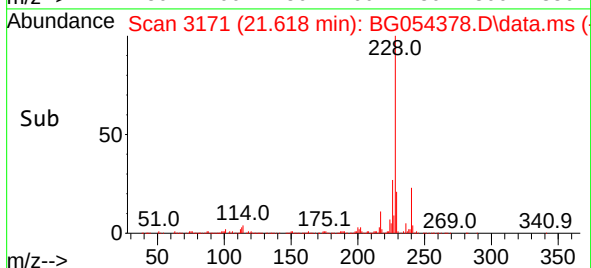
Reviewed By :Christian Giraldo 07/26/2022
 Supervised By :Jagrut Upadhyay 07/26/2022

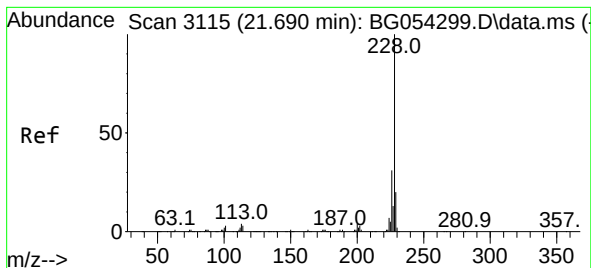


#81
 Benzo(a)anthracene
 Concen: 20.261 ng
 RT: 21.618 min Scan# 3171
 Delta R.T. -0.001 min
 Lab File: BG054378.D
 Acq: 25 Jul 2022 13:46



Tgt Ion:228 Resp: 276978
 Ion Ratio Lower Upper
 228 100
 226 27.4 21.6 32.4
 229 21.1 16.2 24.2





#83

Chrysene

Concen: 17.394 ng

RT: 21.683 min Scan# 3115

Delta R.T. -0.007 min

Lab File: BG054378.D

Acq: 25 Jul 2022 13:46

Instrument :

BNA_G

ClientSampleId :

ENV-DE-2(5-10)DL

Tgt Ion:228 Resp: 22465

Ion Ratio Lower Upper

228 100

226 30.6 23.4 35.2

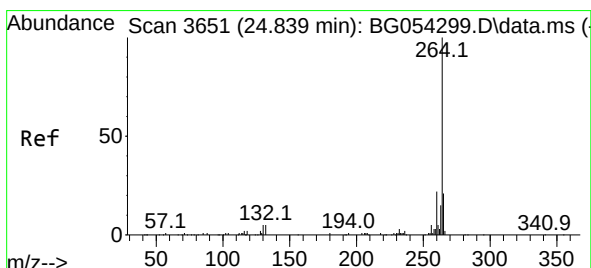
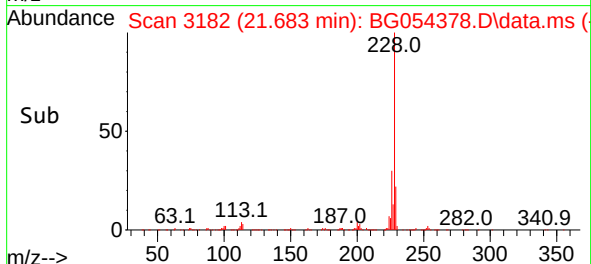
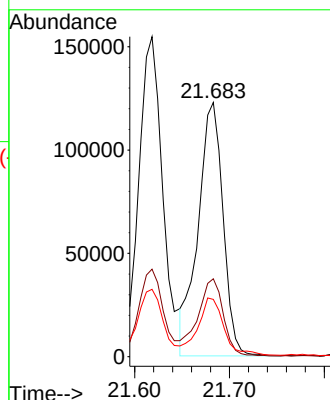
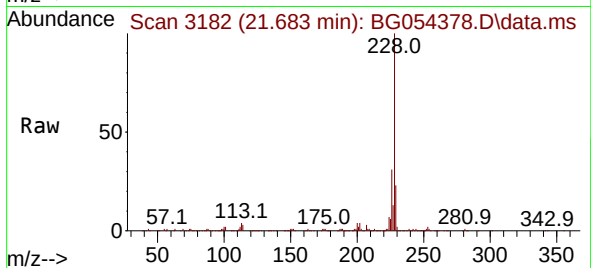
229 22.5 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 07/26/2022

Supervised By :Jagrut Upadhyay 07/26/2022



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.838 min Scan# 3719

Delta R.T. -0.001 min

Lab File: BG054378.D

Acq: 25 Jul 2022 13:46

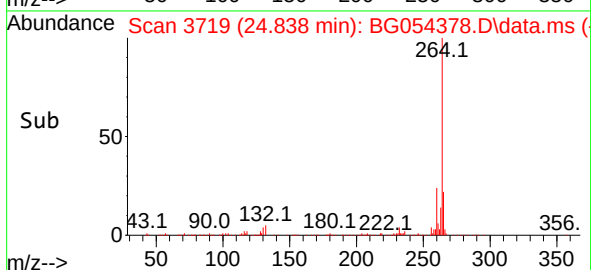
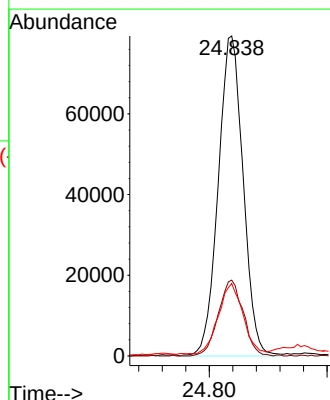
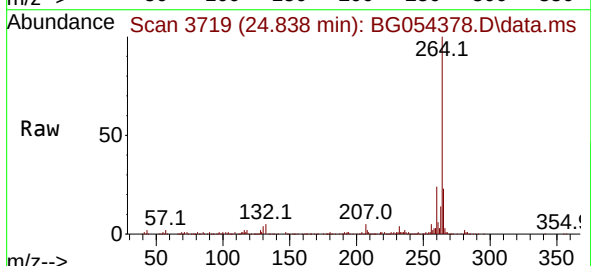
Tgt Ion:264 Resp: 232849

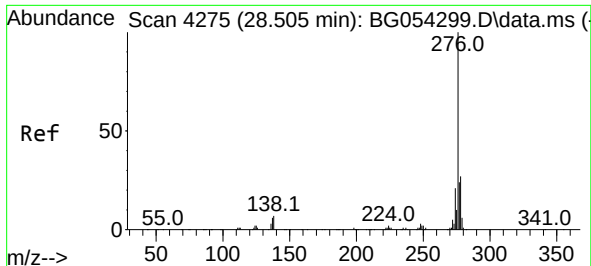
Ion Ratio Lower Upper

264 100

260 23.7 19.0 28.6

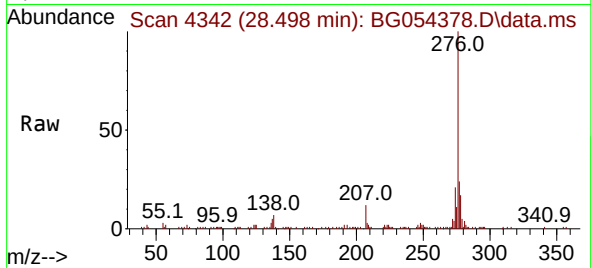
265 22.6 17.4 26.2





#87
 Indeno(1,2,3-cd)pyrene
 Concen: 8.241 ng
 RT: 28.498 min Scan# 41
 Delta R.T. -0.007 min
 Lab File: BG054378.D
 Acq: 25 Jul 2022 13:46

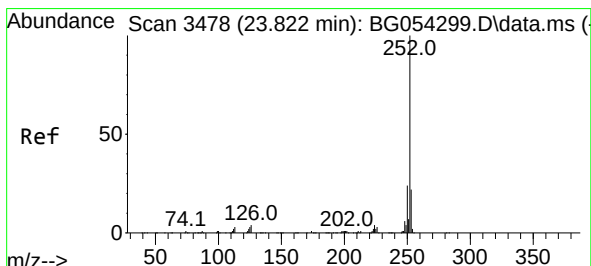
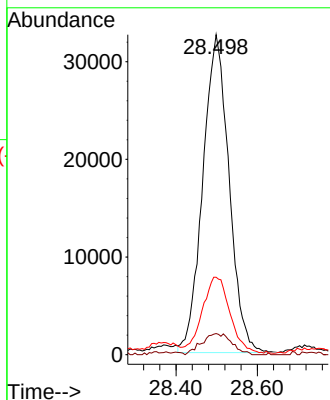
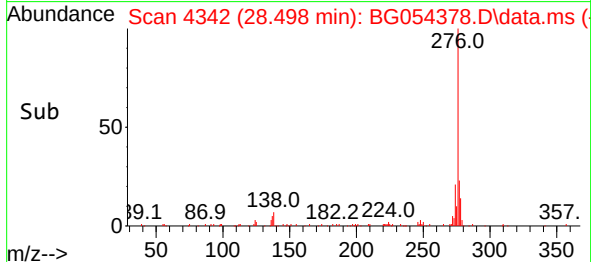
Instrument :
 BNA_G
 ClientSampleId :
 ENV-DE-2(5-10)DL



Tgt Ion:276 Resp: 14598
 Ion Ratio Lower Upper
 276 100
 138 7.6 5.0 7.4
 277 25.2 20.3 30.5

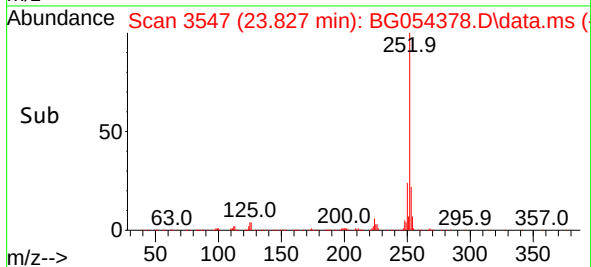
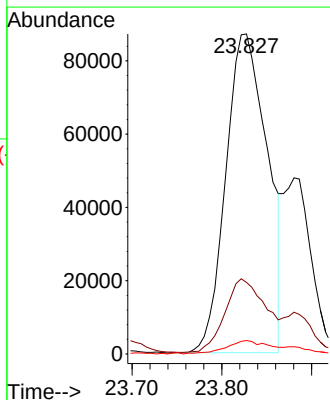
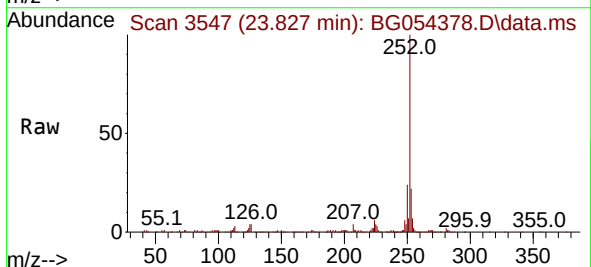
Manual Integrations
 APPROVED

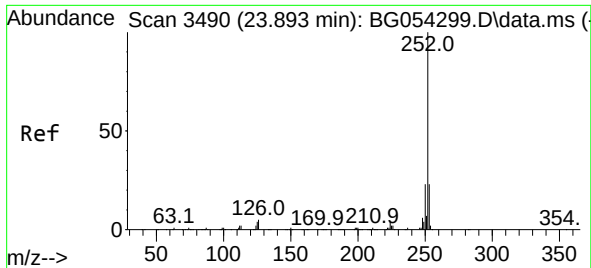
Reviewed By :Christian Giraldo 07/26/2022
 Supervised By :Jagrut Upadhyay 07/26/2022



#88
 Benzo(b)fluoranthene
 Concen: 20.284 ng
 RT: 23.827 min Scan# 3547
 Delta R.T. 0.005 min
 Lab File: BG054378.D
 Acq: 25 Jul 2022 13:46

Tgt Ion:252 Resp: 279322
 Ion Ratio Lower Upper
 252 100
 253 22.3 18.0 27.0
 125 4.2 4.6 6.8





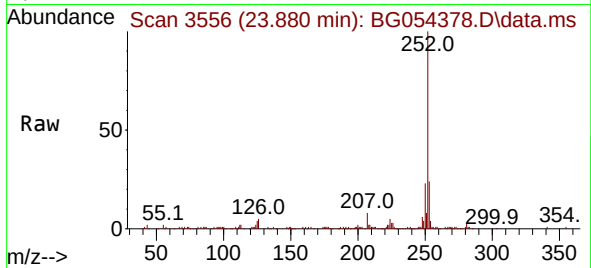
#89
Benzo(k)fluoranthene
Concen: 7.674 ng m
RT: 23.880 min Scan# 3
Delta R.T. -0.013 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46

Instrument :

BNA_G

ClientSampleId :

ENV-DE-2(5-10)DL

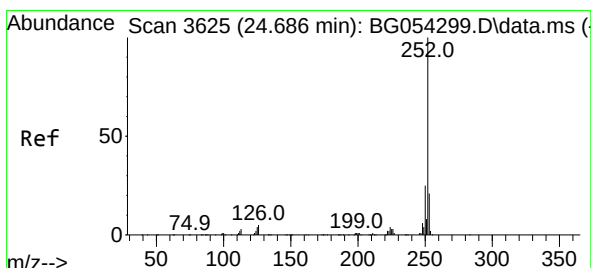
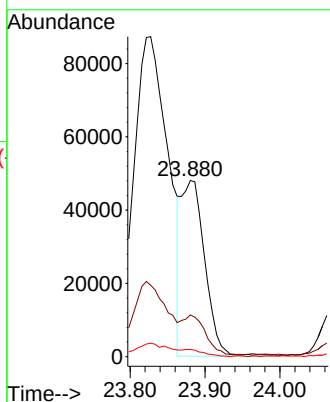
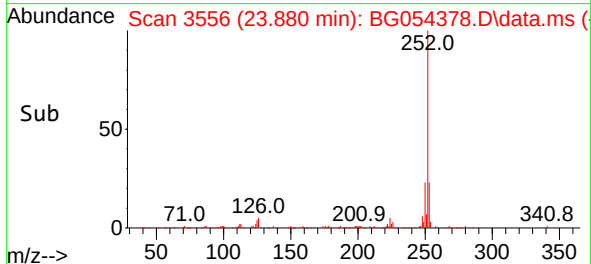


Tgt Ion:252 Resp: 10517
Ion Ratio Lower Upper
252 100
253 23.8 18.4 27.6
125 4.1 4.8 7.2

Manual Integrations

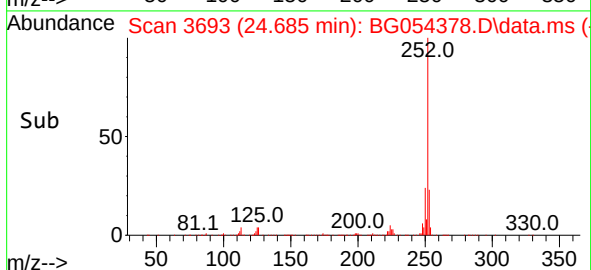
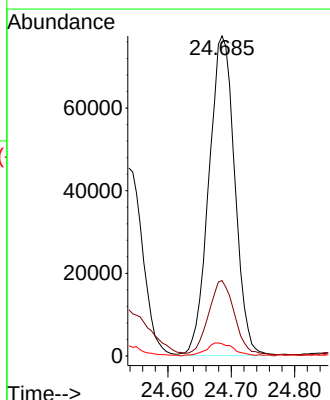
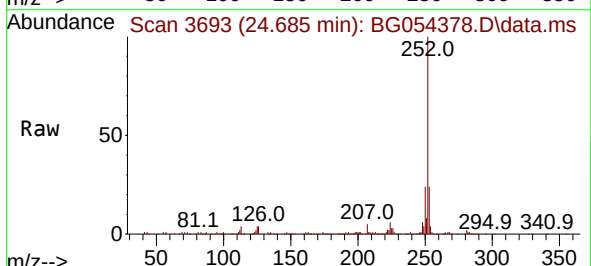
APPROVED

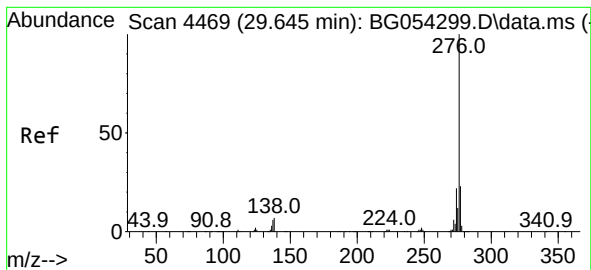
Reviewed By :Christian Giraldo 07/26/2022
Supervised By :Jagrut Upadhyay 07/26/2022



#90
Benzo(a)pyrene
Concen: 18.677 ng m
RT: 24.685 min Scan# 3693
Delta R.T. -0.001 min
Lab File: BG054378.D
Acq: 25 Jul 2022 13:46

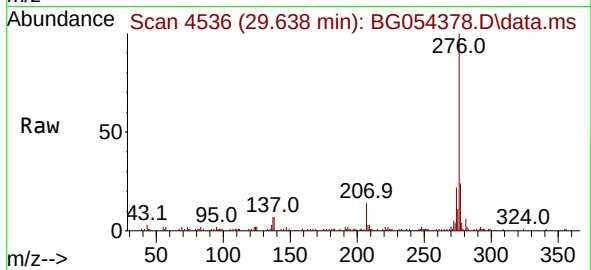
Tgt Ion:252 Resp: 219641
Ion Ratio Lower Upper
252 100
253 23.5 17.8 26.8
125 3.8 4.3 6.5





#92
 Benzo(g,h,i)perylene
 Concen: 9.668 ng
 RT: 29.638 min Scan# 4
 Delta R.T. -0.007 min
 Lab File: BG054378.D
 Acq: 25 Jul 2022 13:46

Instrument :
 BNA_G
 ClientSampleId :
 ENV-DE-2(5-10)DL



Tgt Ion:276 Resp: 138980
 Ion Ratio Lower Upper
 276 100
 277 23.8 17.3 25.9
 138 6.7 9.6 14.4

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 07/26/2022
 Supervised By :Jagrut Upadhyay 07/26/2022

