

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG021323\
 Data File : BG056621.D
 Acq On : 13 Feb 2023 16:00
 Operator : CG/JU
 Sample : 01529-05
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-01-5.0-7.0

Quant Time: Feb 14 02:06:28 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 10 22:46:08 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 02/14/2023
 Supervised By : Jagrut Upadhyay 02/14/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.209	152	35229	20.000	ng	0.00
21) Naphthalene-d8	11.041	136	127268	20.000	ng	0.00
39) Acenaphthene-d10	14.836	164	97420	20.000	ng	0.00
64) Phenanthrene-d10	17.574	188	230950	20.000	ng	-0.01
76) Chrysene-d12	21.858	240	222560	20.000	ng	0.00
86) Perylene-d12	25.230	264	244799	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.729	112	246468	128.700	ng	0.00
7) Phenol-d6	7.369	99	339095	119.505	ng	0.00
23) Nitrobenzene-d5	9.384	82	186112	83.040	ng	0.00
42) 2,4,6-Tribromophenol	16.323	330	149696	115.583	ng	0.00
45) 2-Fluorobiphenyl	13.462	172	572081	81.415	ng	0.00
79) Terphenyl-d14	20.154	244	961228	75.857	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.088	128	61951	9.223	ng	98
37) 2-Methylnaphthalene	12.680	142	21646	3.909	ng	97
38) 1-Methylnaphthalene	12.898	142	15442m	2.986	ng	
52) Acenaphthene	14.901	154	99000	18.578	ng	97
55) Dibenzofuran	15.230	168	91375	9.562	ng	98
58) Fluorene	15.876	166	122635	16.127	ng	96
71) Phenanthrene	17.621	178	1214467	100.473	ng	99
72) Anthracene	17.710	178	375409	30.255	ng	99
73) Carbazole	17.980	167	150220	14.215	ng	99
75) Fluoranthene	19.619	202	1505326	98.672	ng	99
78) Pyrene	19.977	202	1211235	76.520	ng	98
81) Benzo(a)anthracene	21.834	228	764995	49.166	ng	99
83) Chrysene	21.905	228	633973m	43.370	ng	
87) Indeno(1,2,3-cd)pyrene	29.114	276	332984	18.582	ng	# 94
88) Benzo(b)fluoranthene	24.155	252	762511	50.183	ng	98
89) Benzo(k)fluoranthene	24.214	252	277621m	18.097	ng	
90) Benzo(a)pyrene	25.072	252	554091	37.020	ng	100
91) Dibenzo(a,h)anthracene	29.143	278	101654m	6.758	ng	
92) Benzo(g,h,i)perylene	30.330	276	282386	19.457	ng	99

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

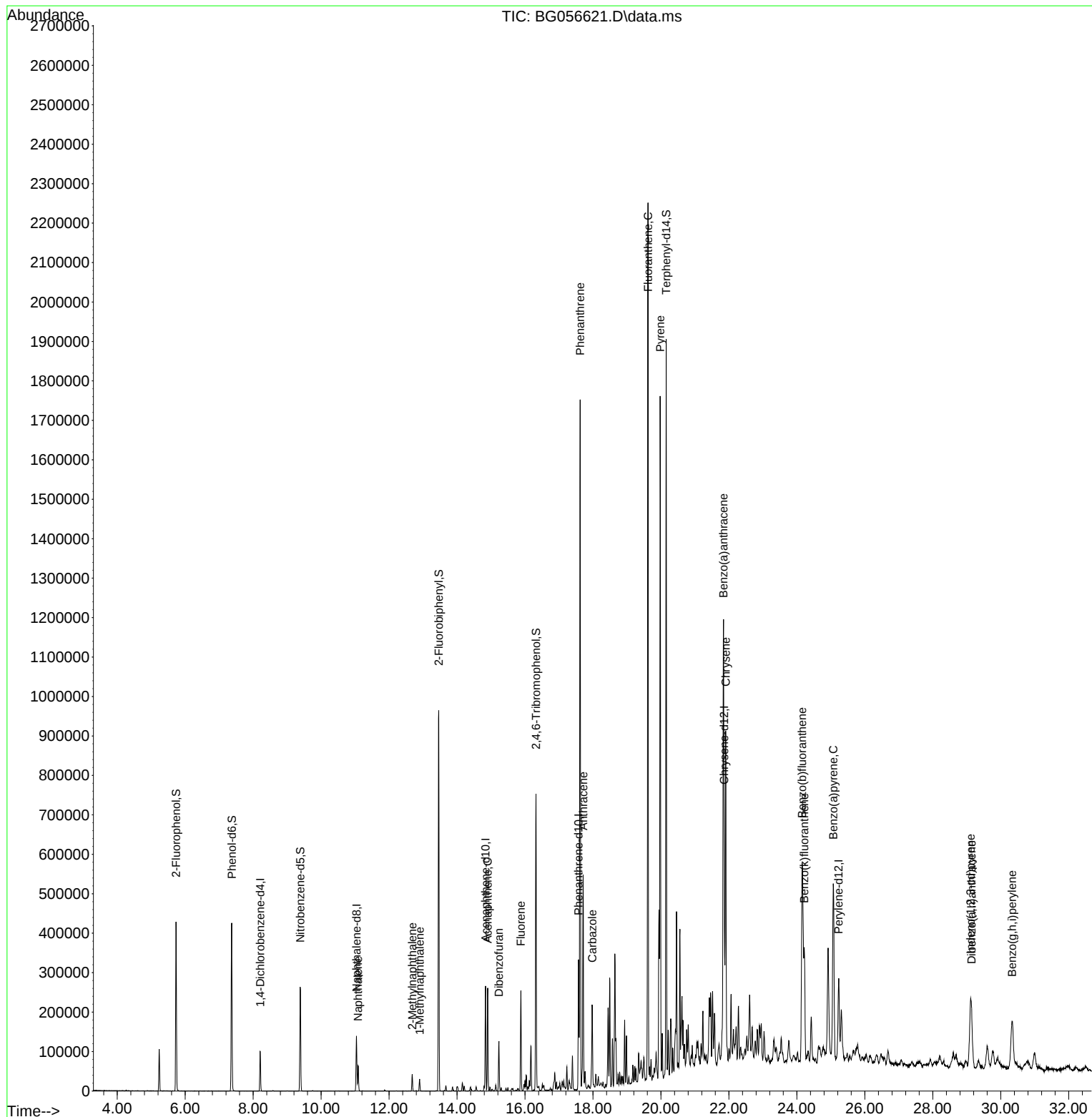
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG021323\
Data File : BG056621.D
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ALS Vial : 4 Sample Multiplier: 1

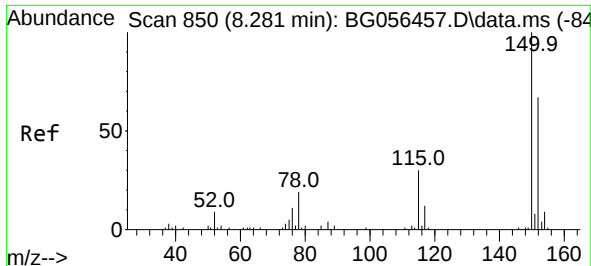
Instrument :
BNA_G
ClientSampleId :
SB-01-5.0-7.0

Quant Time: Feb 14 02:06:28 2023
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QLast Update : Fri Feb 10 22:46:08 2023
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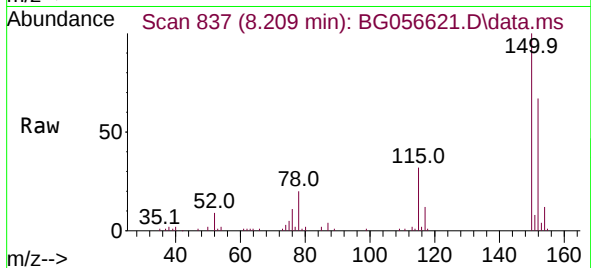
Reviewed By : Christian Giraldo 02/14/2023
Supervised By : Jagrut Upadhyay 02/14/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.209 min Scan# 84
Delta R.T. 0.002 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

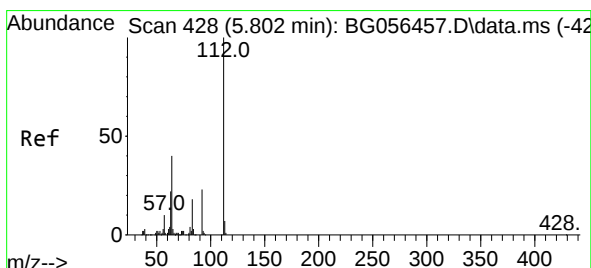
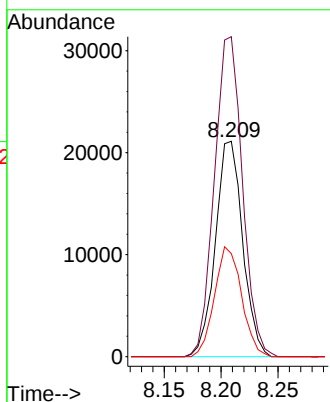
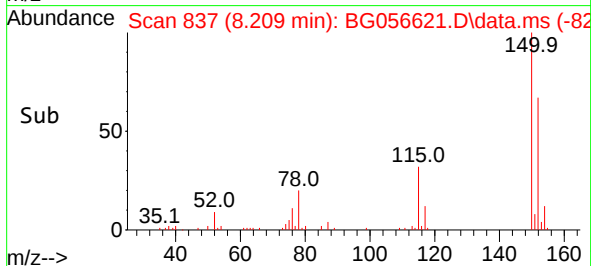
Instrument :
BNA_G
ClientSampleId :
SB-01-5.0-7.0



Tgt Ion:152 Resp: 35229
Ion Ratio Lower Upper
152 100
150 148.6 120.2 180.4
115 47.8 36.3 54.5

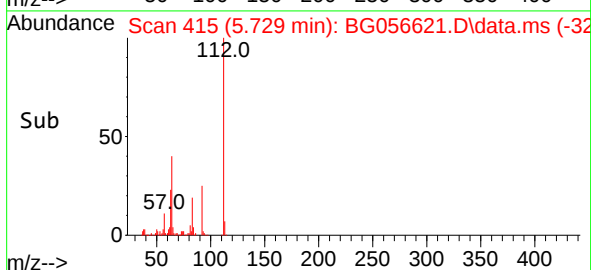
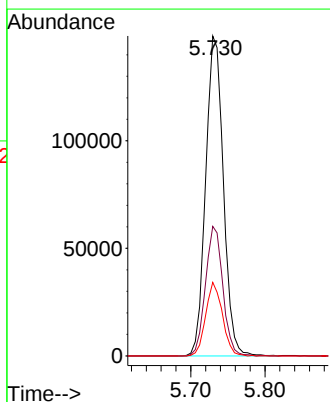
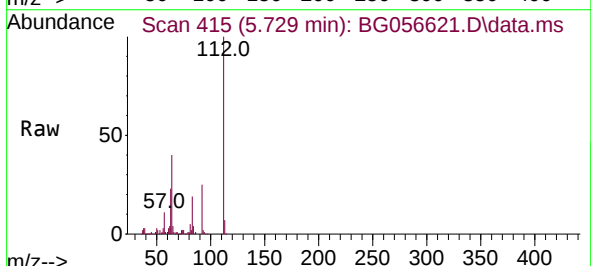
Manual Integrations
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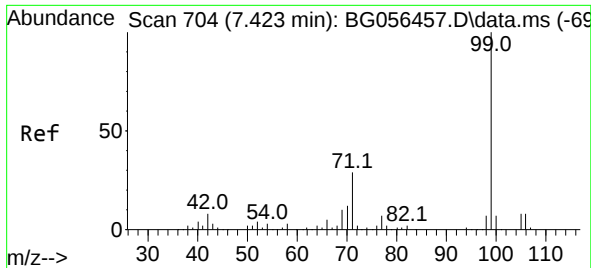
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#5
2-Fluorophenol
Concen: 128.700 ng
RT: 5.729 min Scan# 415
Delta R.T. 0.002 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

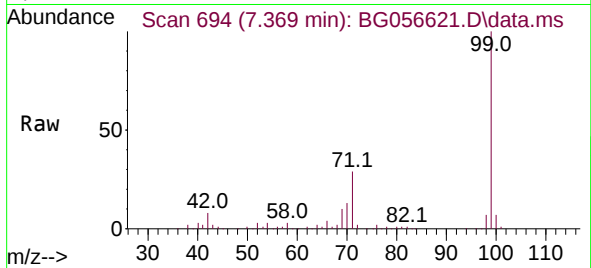
Tgt Ion:112 Resp: 246468
Ion Ratio Lower Upper
112 100
64 40.5 31.9 47.9
63 23.0 17.4 26.0





#7
Phenol-d6
Concen: 119.505 ng
RT: 7.369 min Scan# 694
Delta R.T. 0.002 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

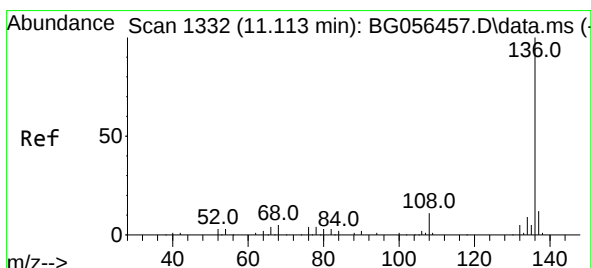
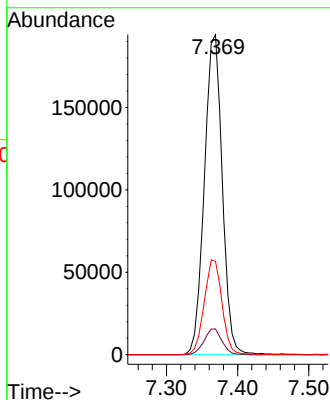
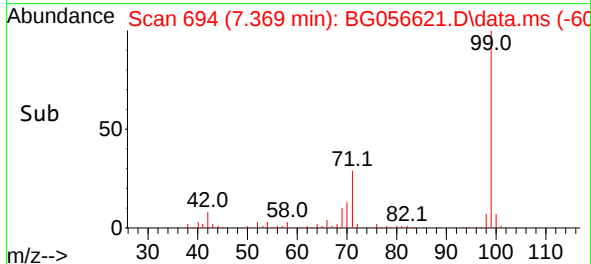
Instrument :
BNA_G
ClientSampleId :
SB-01-5.0-7.0



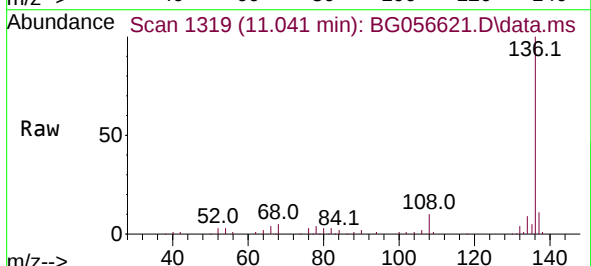
Tgt Ion: 99 Resp: 339095
Ion Ratio Lower Upper
99 100
42 8.0 6.6 10.0
71 29.1 23.4 35.0

Manual Integrations
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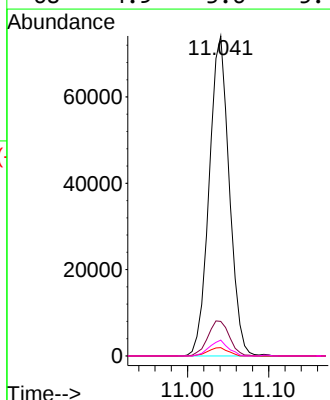
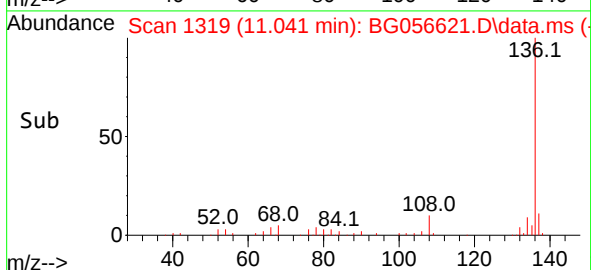
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023

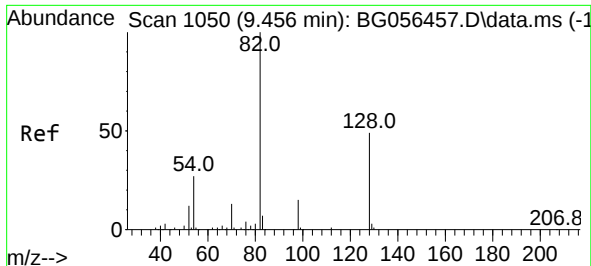


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.041 min Scan# 1319
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00



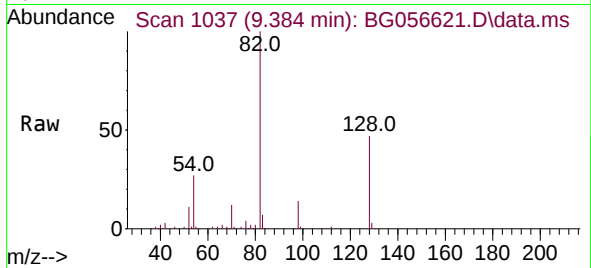
Tgt Ion:136 Resp: 127268
Ion Ratio Lower Upper
136 100
137 10.8 9.4 14.0
54 2.6 2.2 3.4
68 4.9 3.6 5.4





#23
Nitrobenzene-d5
Concen: 83.040 ng
RT: 9.384 min Scan# 1050
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

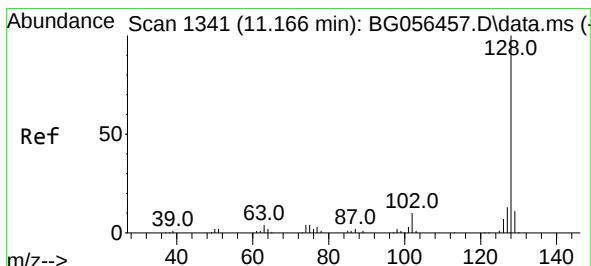
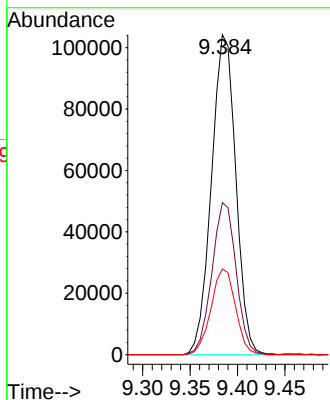
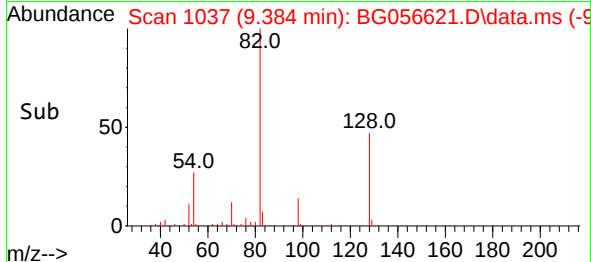
Instrument :
BNA_G
ClientSampleId :
SB-01-5.0-7.0



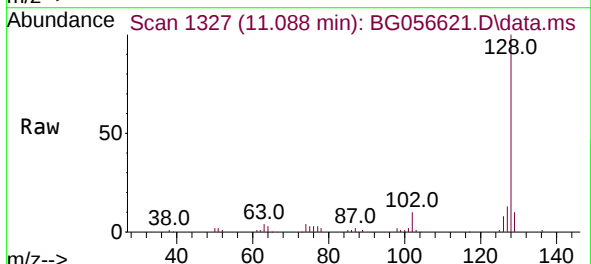
Tgt Ion: 82 Resp: 186112
Ion Ratio Lower Upper
82 100
128 47.5 39.4 59.2
54 26.8 21.4 32.2

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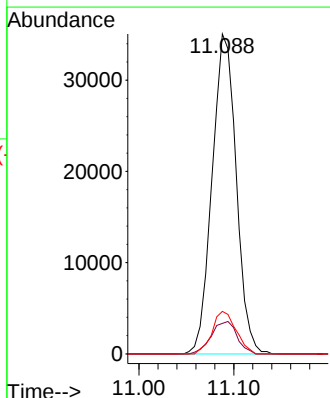
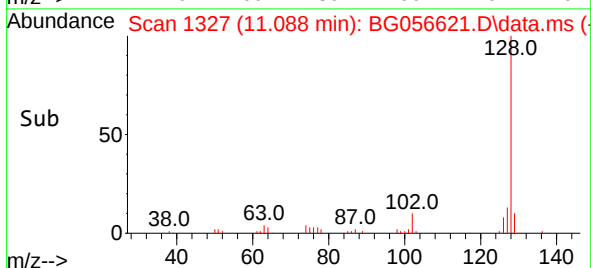
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023

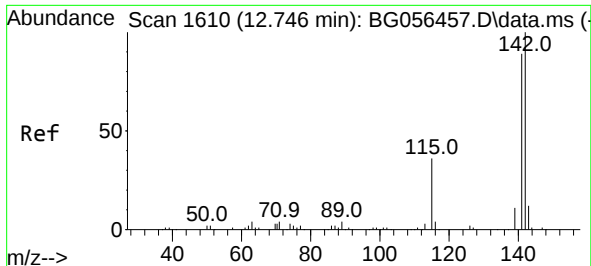


#31
Naphthalene
Concen: 9.223 ng
RT: 11.088 min Scan# 1327
Delta R.T. -0.010 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00



Tgt Ion:128 Resp: 61951
Ion Ratio Lower Upper
128 100
129 9.5 8.7 13.1
127 13.3 10.4 15.6





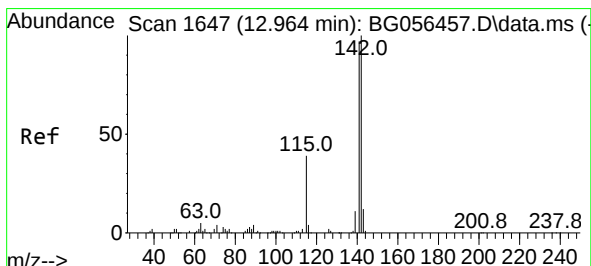
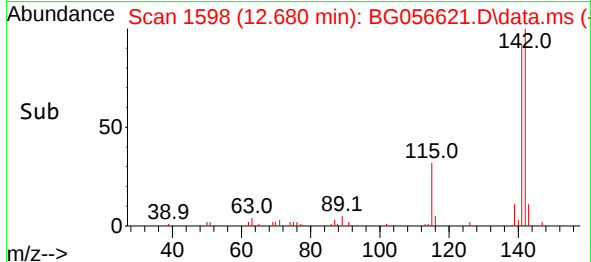
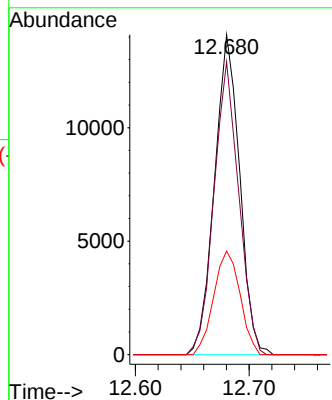
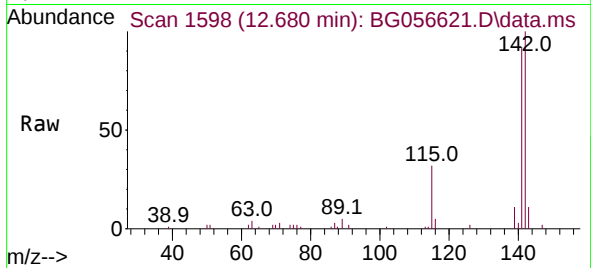
#37
2-Methylnaphthalene
Concen: 3.909 ng
RT: 12.680 min Scan# 11
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

Instrument :
BNA_G
ClientSampleId :
SB-01-5.0-7.0

Tgt Ion:142 Resp: 21646
Ion Ratio Lower Upper
142 100
141 91.5 71.4 107.0
115 32.4 28.4 42.6

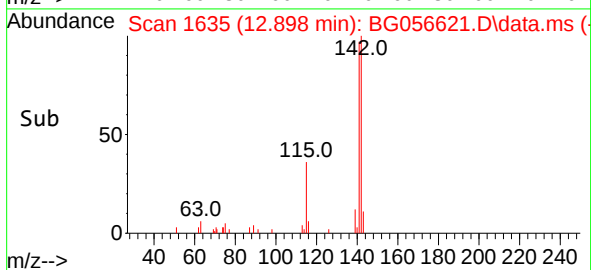
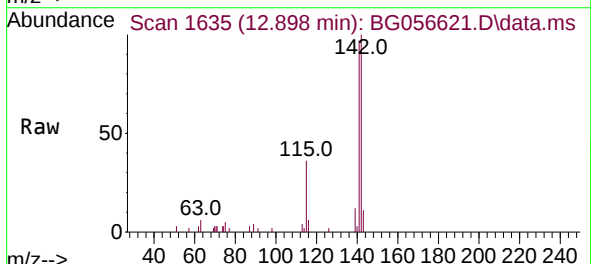
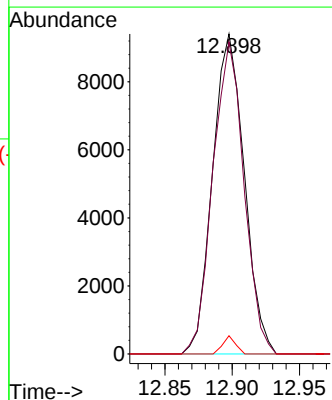
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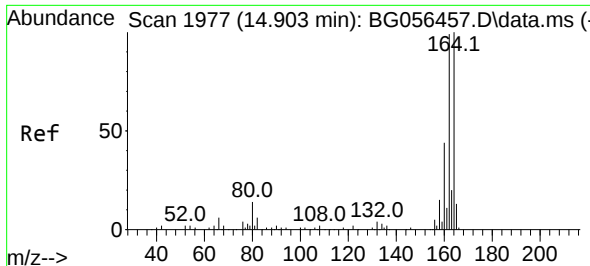
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#38
1-Methylnaphthalene
Concen: 2.986 ng m
RT: 12.898 min Scan# 1635
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

Tgt Ion:142 Resp: 15442
Ion Ratio Lower Upper
142 100
141 97.5 77.7 116.5
116 5.7 3.4 5.2#





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.836 min Scan# 1977
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

Instrument :

BNA_G

ClientSampleId :

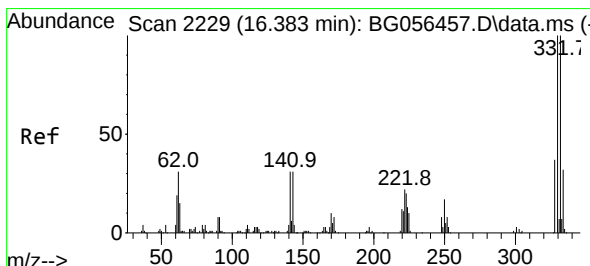
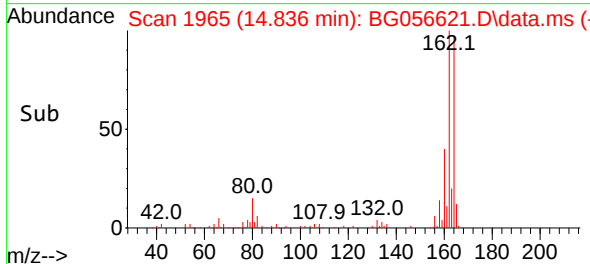
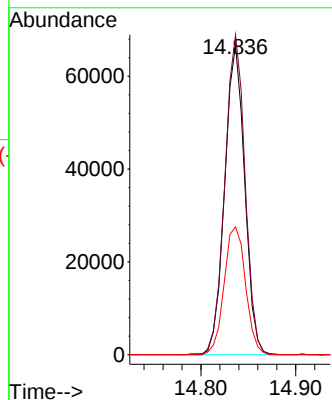
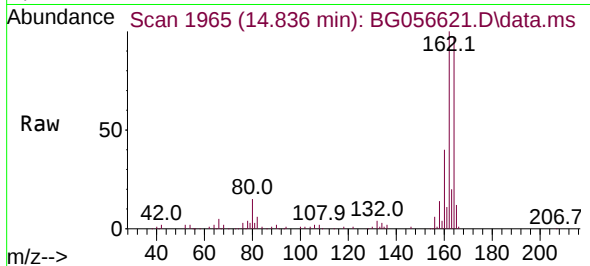
SB-01-5.0-7.0

Tgt Ion:164 Resp: 97420
Ion Ratio Lower Upper
164 100
162 103.4 79.6 119.4
160 41.3 34.9 52.3

Manual Integrations

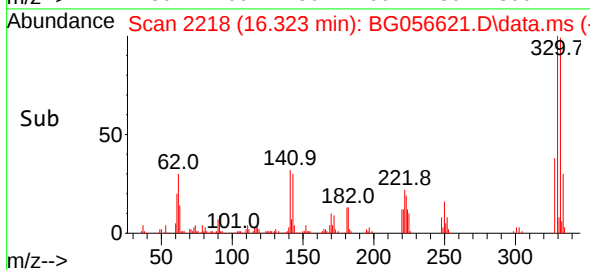
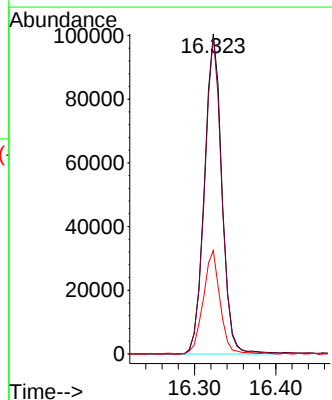
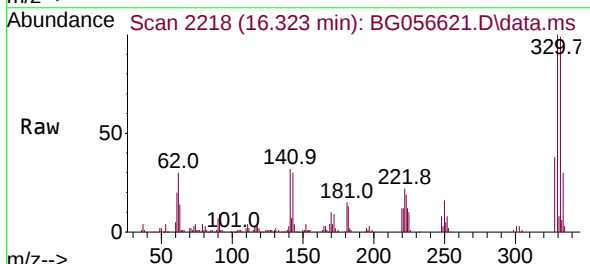
APPROVED

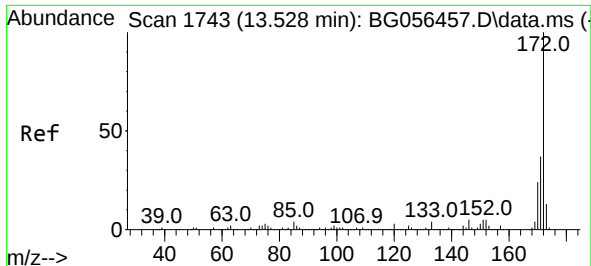
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#42
2,4,6-Tribromophenol
Concen: 115.583 ng
RT: 16.323 min Scan# 2218
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

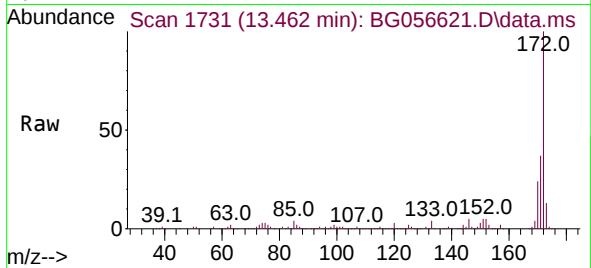
Tgt Ion:330 Resp: 149696
Ion Ratio Lower Upper
330 100
332 97.3 79.0 118.6
141 31.0 24.2 36.4





#45
2-Fluorobiphenyl
Concen: 81.415 ng
RT: 13.462 min Scan# 1743
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

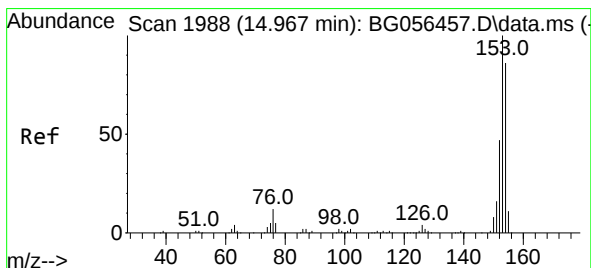
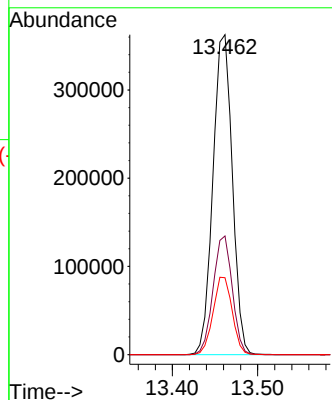
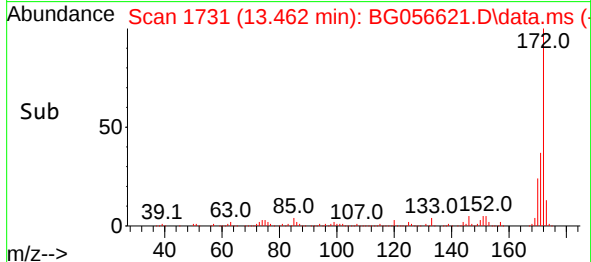
Instrument :
BNA_G
ClientSampleId :
SB-01-5.0-7.0



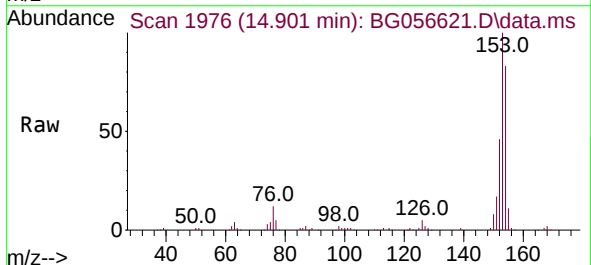
Tgt Ion:172 Resp: 572081
Ion Ratio Lower Upper
172 100
171 37.1 29.5 44.3
170 24.0 19.2 28.8

Manual Integrations
APPROVED

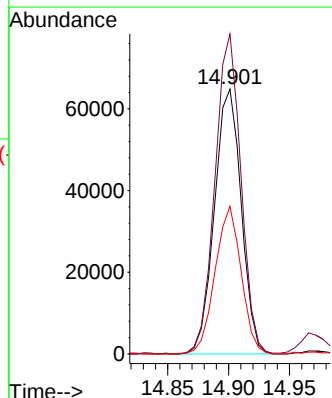
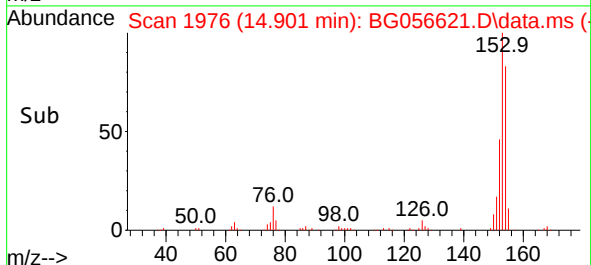
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023

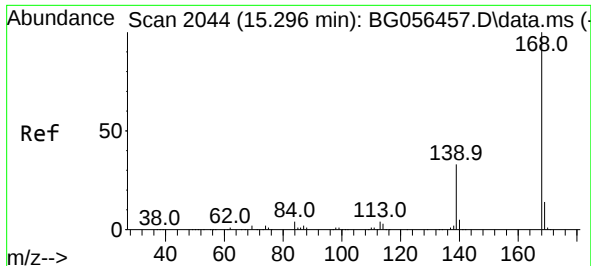


#52
Acenaphthene
Concen: 18.578 ng
RT: 14.901 min Scan# 1976
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00



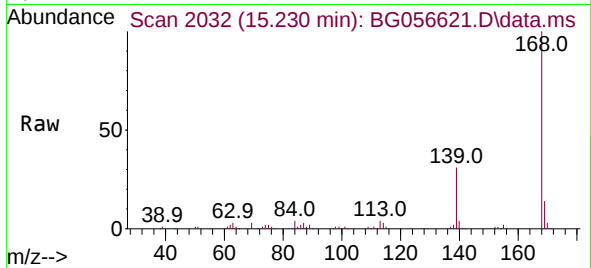
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Ion Ratio Lower Upper
154 100
153 120.8 93.4 140.0
152 55.7 43.4 65.2





#55
Dibenzenofuran
Concen: 9.562 ng
RT: 15.230 min Scan# 2044
Delta R.T. -0.010 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

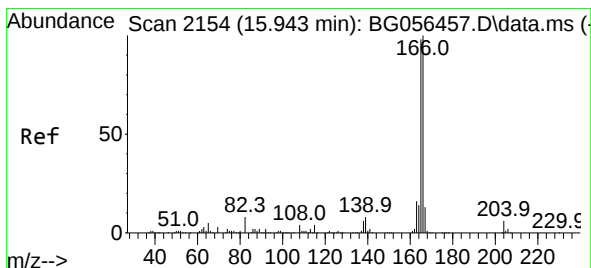
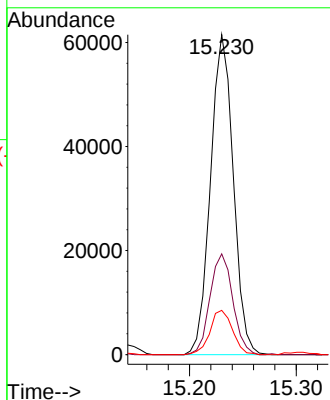
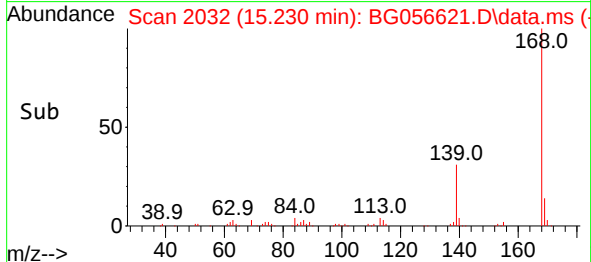
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ClientSampleId :
SB-01-5.0-7.0



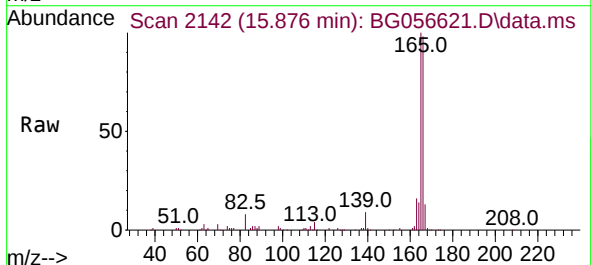
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Ion Ratio Lower Upper
168 100
139 31.5 26.2 39.2
169 13.8 11.0 16.6

Manual Integrations
APPROVED

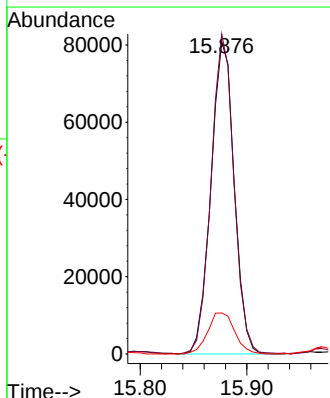
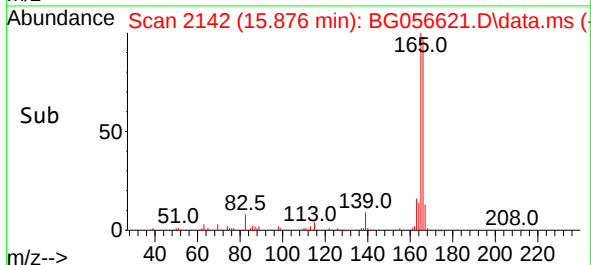
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023

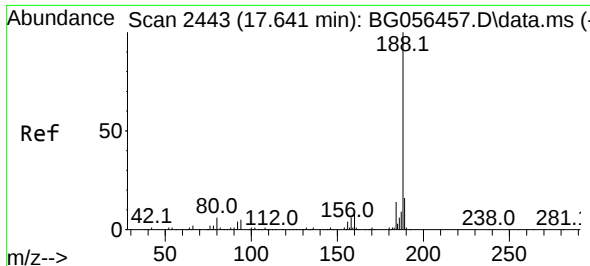


#58
Fluorene
Concen: 16.127 ng
RT: 15.876 min Scan# 2142
Delta R.T. -0.010 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00



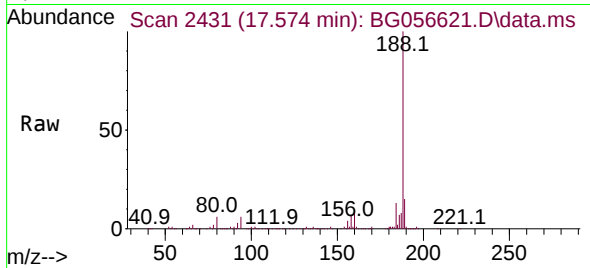
Tgt Ion:166 Resp: 122635
Ion Ratio Lower Upper
166 100
165 102.5 78.8 118.2
167 13.1 10.6 15.8





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.574 min Scan# 2443
Delta R.T. -0.010 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

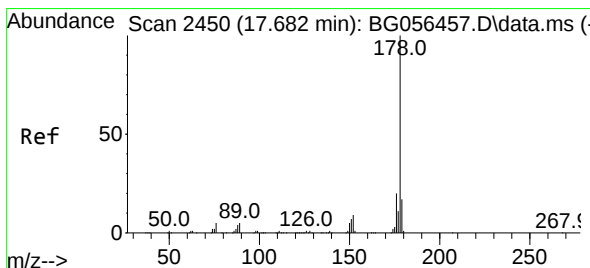
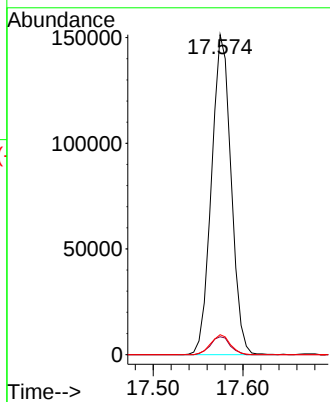
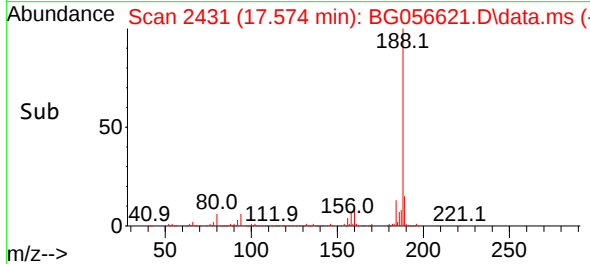
Instrument :
BNA_G
ClientSampleId :
SB-01-5.0-7.0



Tgt Ion:188 Resp: 230950
Ion Ratio Lower Upper
188 100
94 5.6 4.1 6.1
80 6.2 5.0 7.4

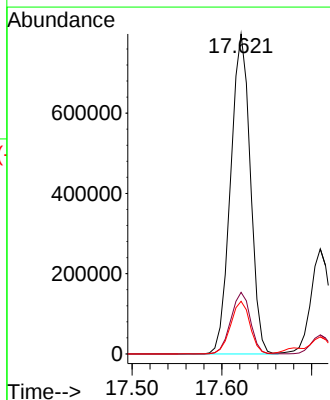
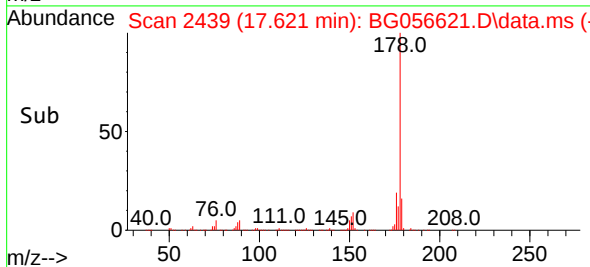
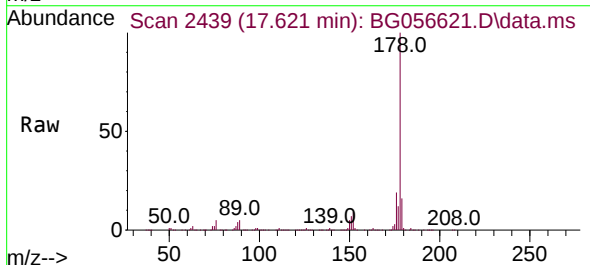
Manual Integrations
APPROVED

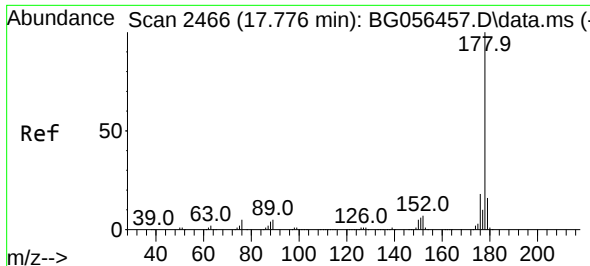
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#71
Phenanthrene
Concen: 100.473 ng
RT: 17.621 min Scan# 2439
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

Tgt Ion:178 Resp: 1214467
Ion Ratio Lower Upper
178 100
176 19.2 15.6 23.4
179 16.4 13.3 19.9





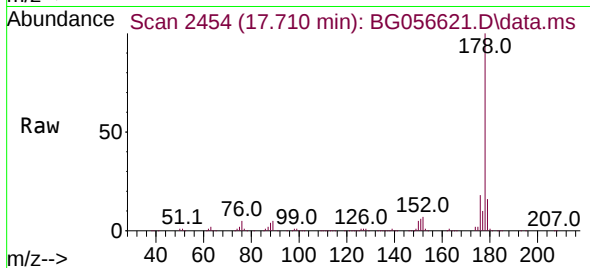
#72
 Anthracene
 Concen: 30.255 ng
 RT: 17.710 min Scan# 2466
 Delta R.T. -0.004 min
 Lab File: BG056621.D
 Acq: 13 Feb 2023 16:00

Instrument :

BNA_G

ClientSampleId :

SB-01-5.0-7.0

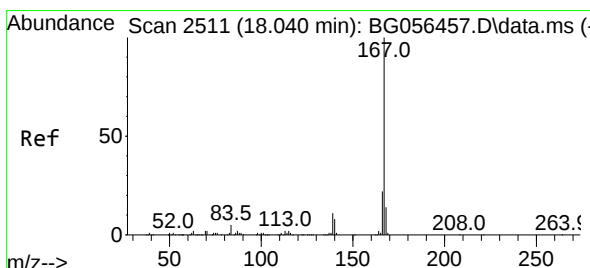
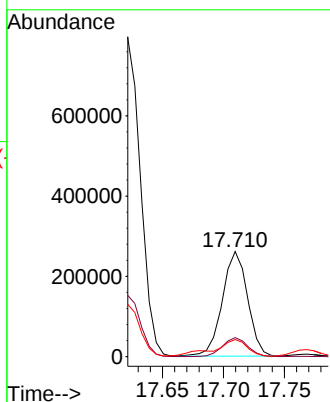
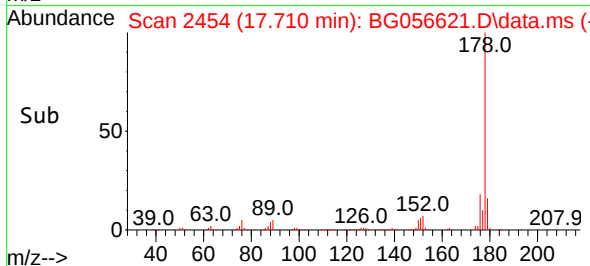


Tgt Ion:178 Resp: 375409
 Ion Ratio Lower Upper
 178 100
 176 18.1 14.5 21.7
 179 16.2 12.5 18.7

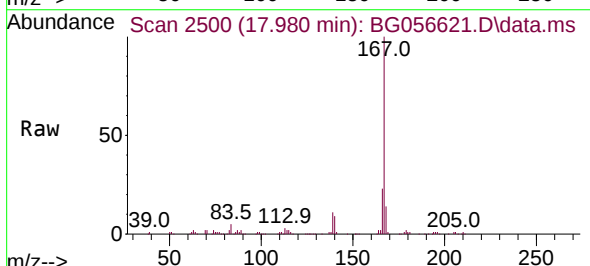
Manual Integrations

APPROVED

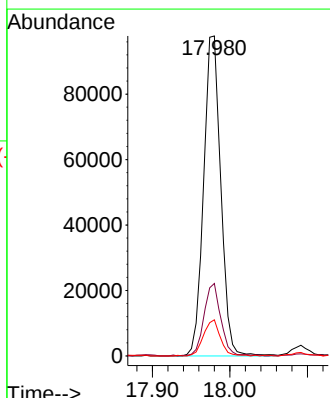
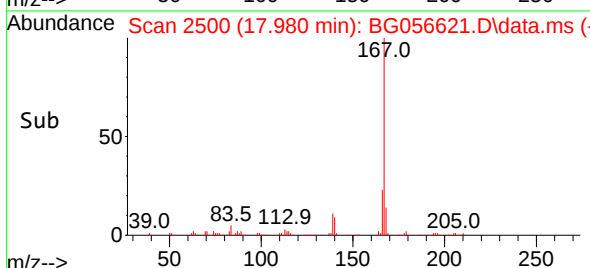
Reviewed By :Christian Giraldo 02/14/2023
 Supervised By :Jagrut Upadhyay 02/14/2023

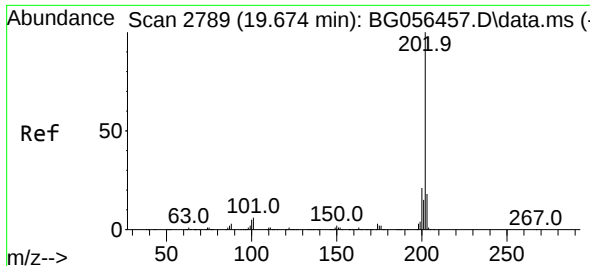


#73
 Carbazole
 Concen: 14.215 ng
 RT: 17.980 min Scan# 2500
 Delta R.T. -0.004 min
 Lab File: BG056621.D
 Acq: 13 Feb 2023 16:00



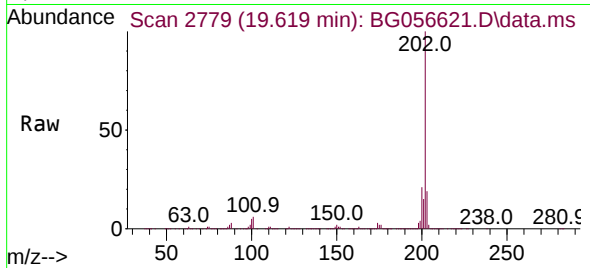
Tgt Ion:167 Resp: 150220
 Ion Ratio Lower Upper
 167 100
 166 22.6 17.8 26.6
 139 11.3 8.9 13.3





#75
Fluoranthene
Concen: 98.672 ng
RT: 19.619 min Scan# 21
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

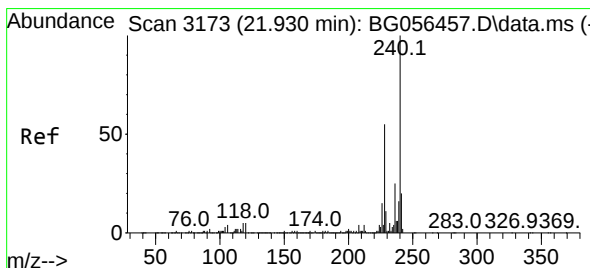
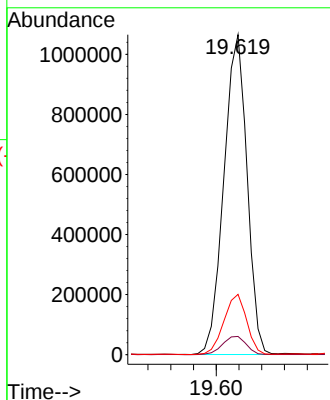
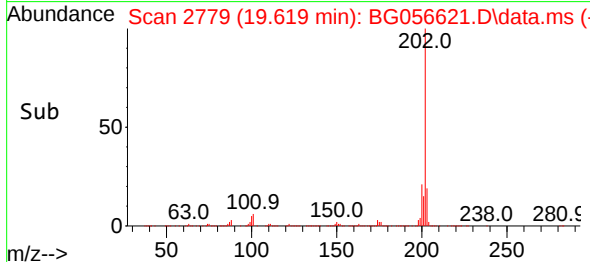
Instrument :
BNA_G
ClientSampleId :
SB-01-5.0-7.0



Tgt Ion:202 Resp: 1505326
Ion Ratio Lower Upper
202 100
101 5.7 0.0 25.6
203 18.8 0.0 38.1

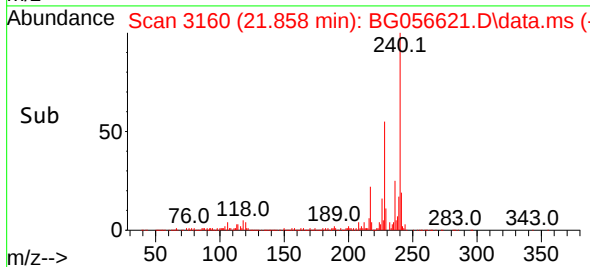
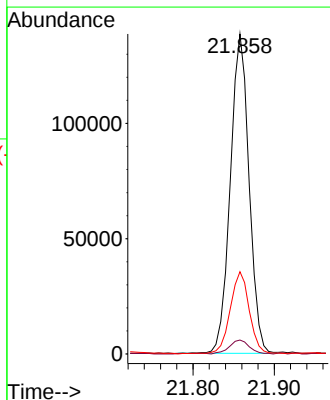
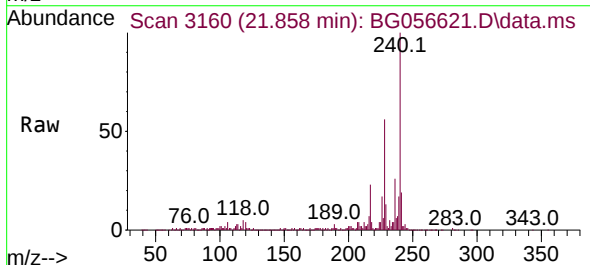
Manual Integrations
APPROVED

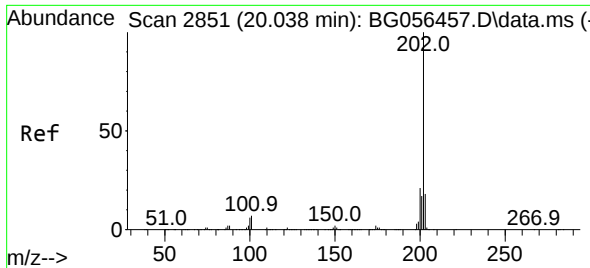
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.858 min Scan# 3160
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

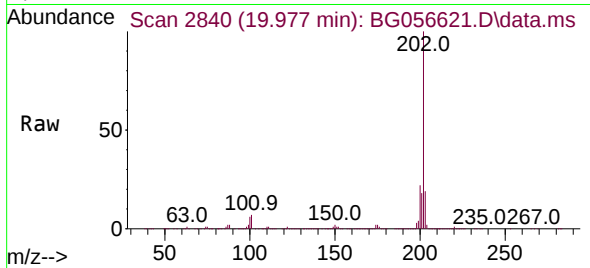
Tgt Ion:240 Resp: 222560
Ion Ratio Lower Upper
240 100
120 4.4 3.8 5.8
236 25.7 20.2 30.2





#78
Pyrene
Concen: 76.520 ng
RT: 19.977 min Scan# 2851
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

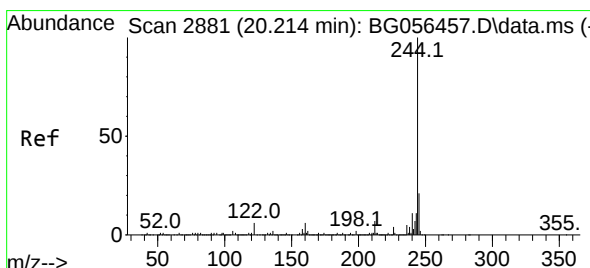
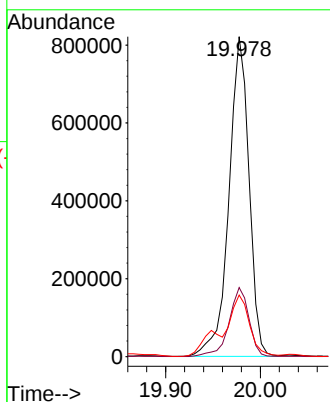
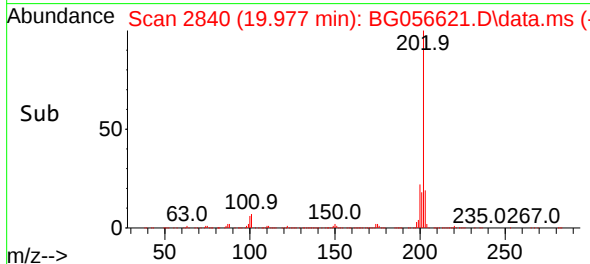
Instrument :
BNA_G
ClientSampleId :
SB-01-5.0-7.0



Tgt Ion:202 Resp: 1211235
Ion Ratio Lower Upper
202 100
200 21.6 16.7 25.1
203 19.2 14.4 21.6

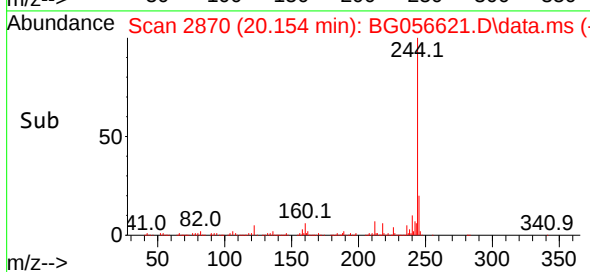
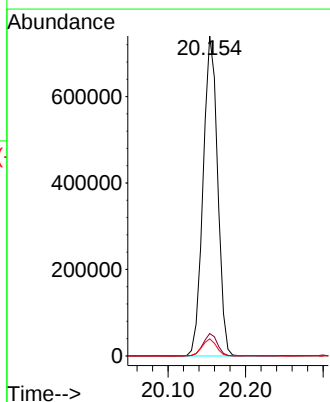
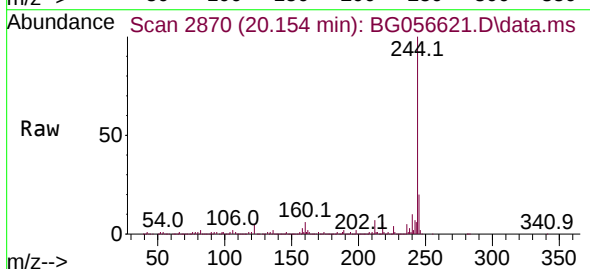
Manual Integrations
APPROVED

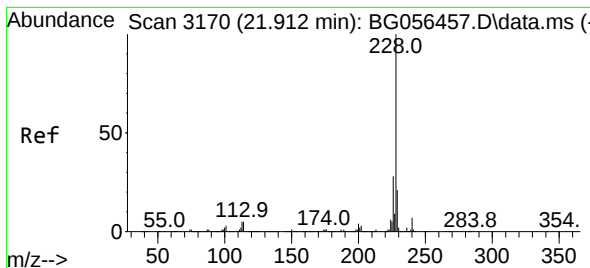
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#79
Terphenyl-d14
Concen: 75.857 ng
RT: 20.154 min Scan# 2870
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

Tgt Ion:244 Resp: 961228
Ion Ratio Lower Upper
244 100
212 7.0 5.5 8.3
122 5.3 4.4 6.6





#81

Benzo(a)anthracene

Concen: 49.166 ng

RT: 21.834 min Scan# 31156

Delta R.T. -0.004 min

Lab File: BG056621.D

Acq: 13 Feb 2023 16:00

Instrument :

BNA_G

ClientSampleId :

SB-01-5.0-7.0

Tgt Ion:228 Resp: 764995

Ion Ratio Lower Upper

228 100

226 27.8 22.4 33.6

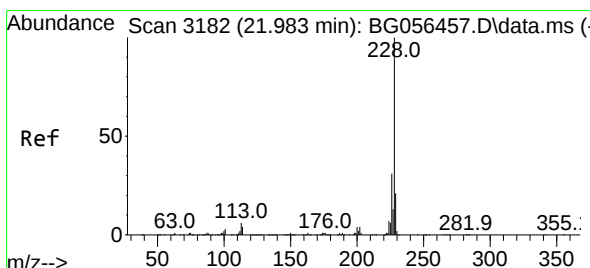
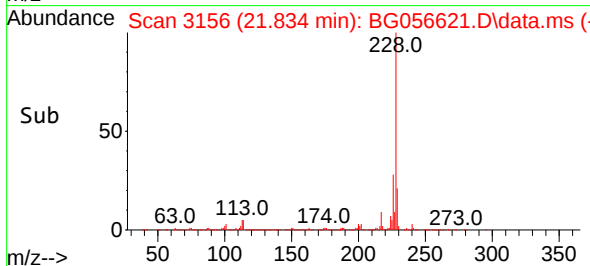
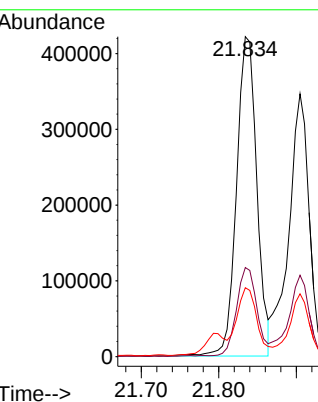
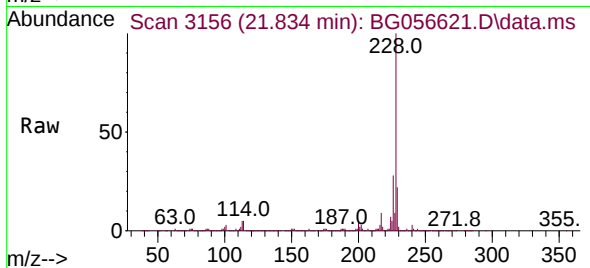
229 21.5 16.5 24.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/14/2023

Supervised By :Jagrut Upadhyay 02/14/2023



#83

Chrysene

Concen: 43.370 ng m

RT: 21.905 min Scan# 3168

Delta R.T. -0.004 min

Lab File: BG056621.D

Acq: 13 Feb 2023 16:00

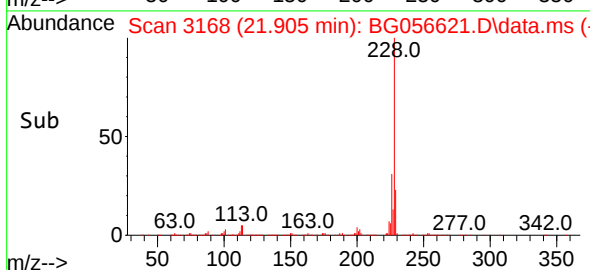
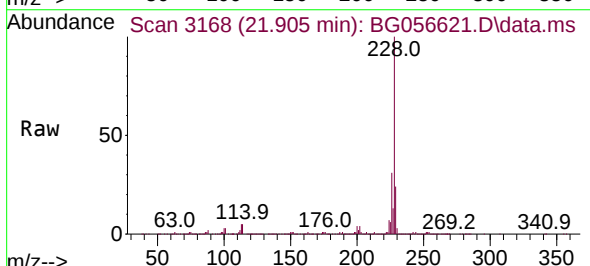
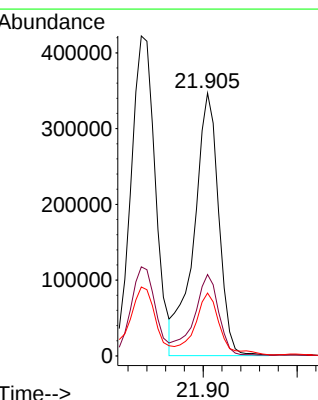
Tgt Ion:228 Resp: 633973

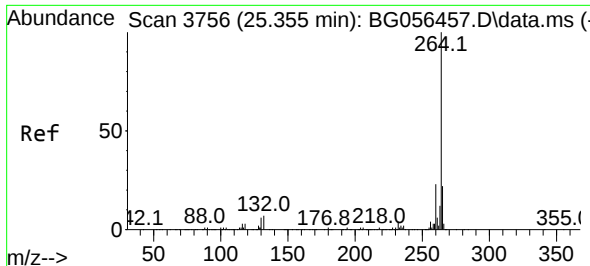
Ion Ratio Lower Upper

228 100

226 30.9 25.0 37.4

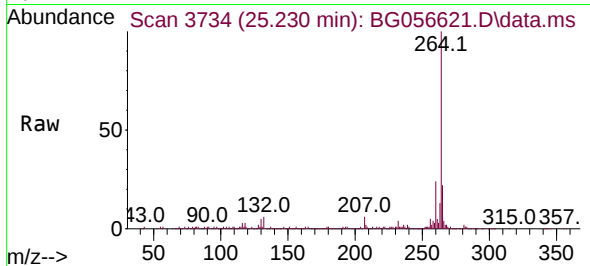
229 23.9 16.4 24.6





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.230 min Scan# 31
 Delta R.T. -0.004 min
 Lab File: BG056621.D
 Acq: 13 Feb 2023 16:00

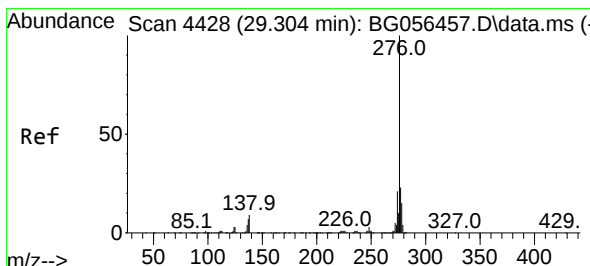
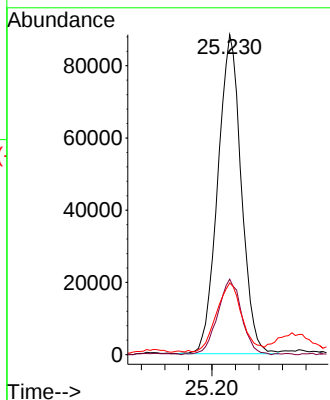
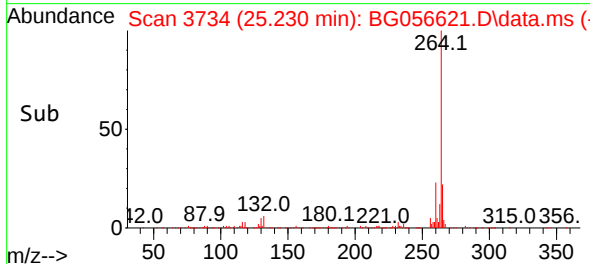
Instrument :
 BNA_G
 ClientSampleId :
 SB-01-5.0-7.0



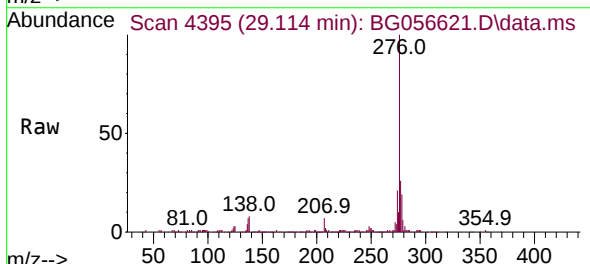
Tgt Ion:264 Resp: 244799
 Ion Ratio Lower Upper
 264 100
 260 23.6 18.2 27.4
 265 22.4 18.1 27.1

Manual Integrations
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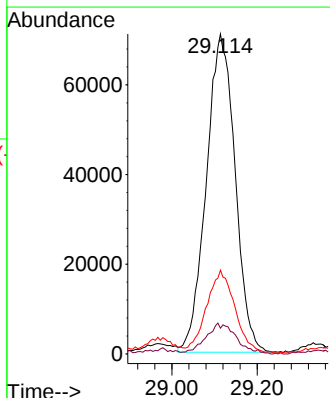
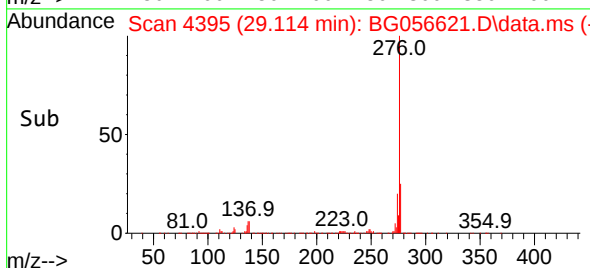
Reviewed By :Christian Giraldo 02/14/2023
 Supervised By :Jagrut Upadhyay 02/14/2023

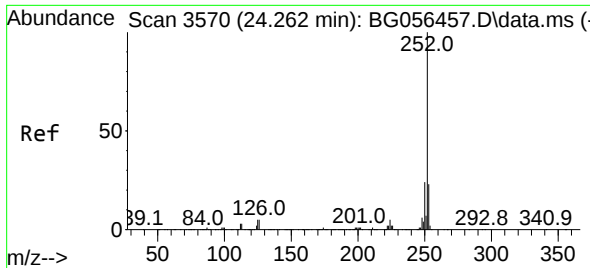


#87
 Indeno(1,2,3-cd)pyrene
 Concen: 18.582 ng
 RT: 29.114 min Scan# 4395
 Delta R.T. -0.016 min
 Lab File: BG056621.D
 Acq: 13 Feb 2023 16:00



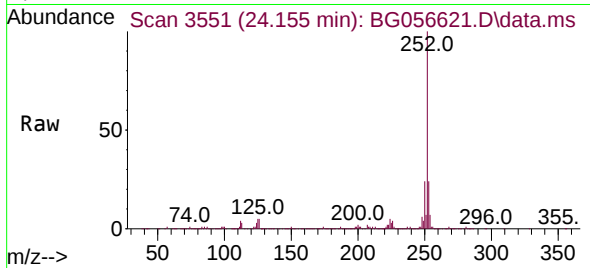
Tgt Ion:276 Resp: 332984
 Ion Ratio Lower Upper
 276 100
 138 4.5 9.4 14.2#
 277 25.5 20.3 30.5





#88
Benzo(b)fluoranthene
Concen: 50.183 ng
RT: 24.155 min Scan# 3551
Delta R.T. -0.004 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

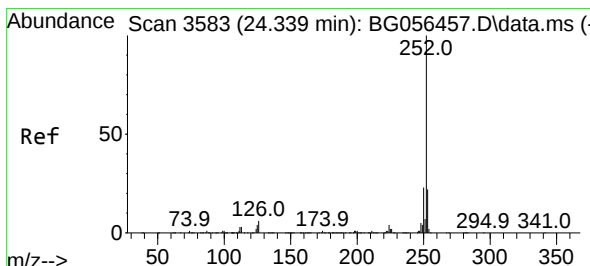
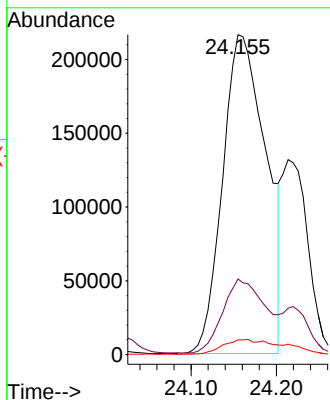
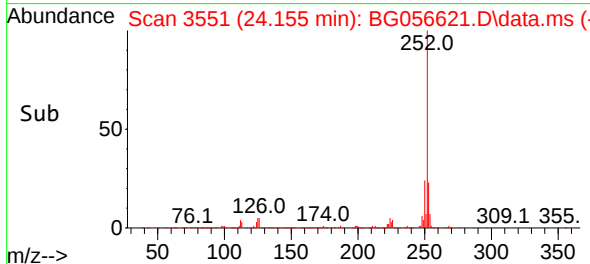
Instrument :
BNA_G
ClientSampleId :
SB-01-5.0-7.0



Tgt Ion:252 Resp: 762511
Ion Ratio Lower Upper
252 100
253 23.6 18.1 27.1
125 4.6 3.9 5.9

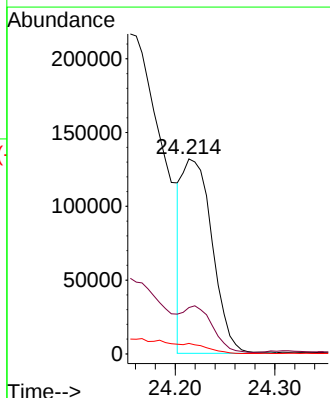
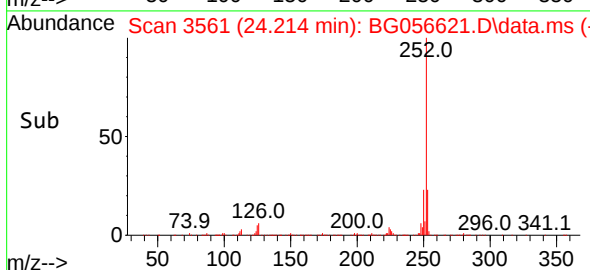
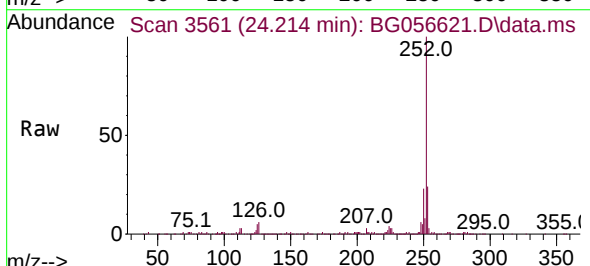
Manual Integrations
APPROVED

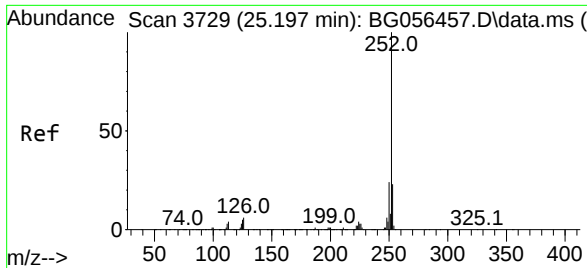
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#89
Benzo(k)fluoranthene
Concen: 18.097 ng m
RT: 24.214 min Scan# 3561
Delta R.T. -0.016 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

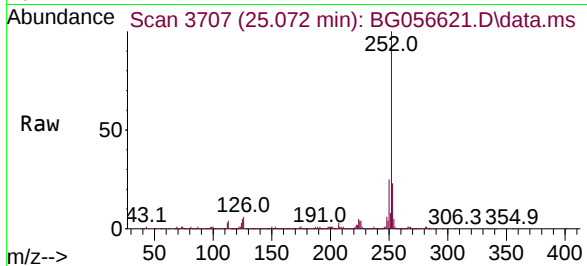
Tgt Ion:252 Resp: 277621
Ion Ratio Lower Upper
252 100
253 23.8 17.5 26.3
125 5.4 3.4 5.0#





#90
Benzo(a)pyrene
Concen: 37.020 ng
RT: 25.072 min Scan# 31
Delta R.T. -0.010 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

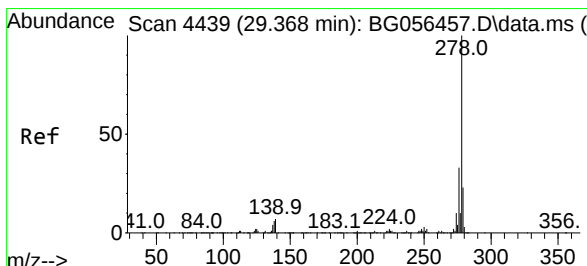
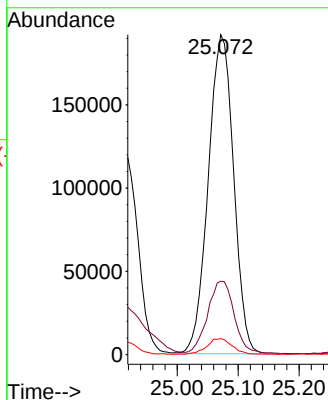
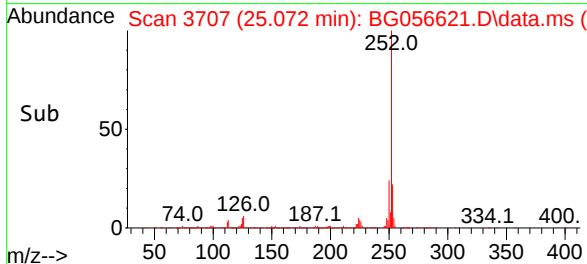
Instrument :
BNA_G
ClientSampleId :
SB-01-5.0-7.0



Tgt Ion:252 Resp: 554091
Ion Ratio Lower Upper
252 100
253 22.9 18.4 27.6
125 5.0 4.1 6.1

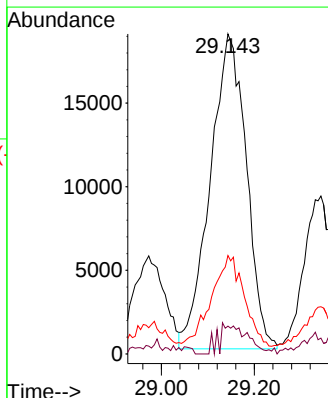
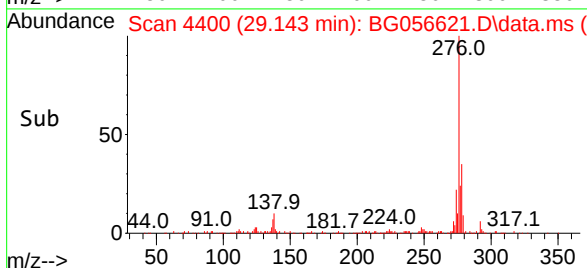
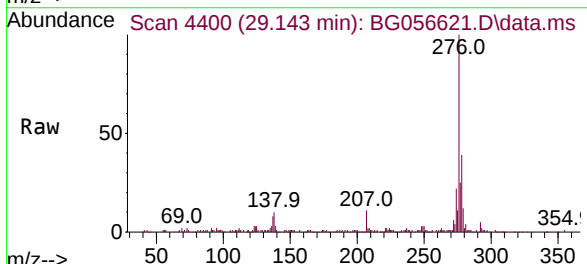
Manual Integrations
APPROVED

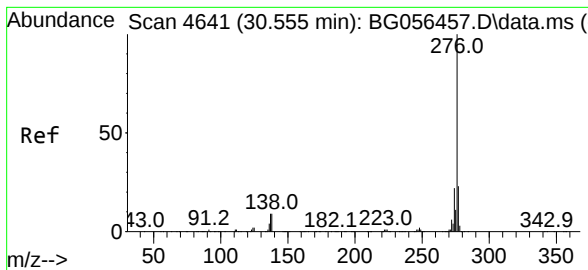
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#91
Dibenzo(a,h)anthracene
Concen: 6.758 ng m
RT: 29.143 min Scan# 4400
Delta R.T. -0.039 min
Lab File: BG056621.D
Acq: 13 Feb 2023 16:00

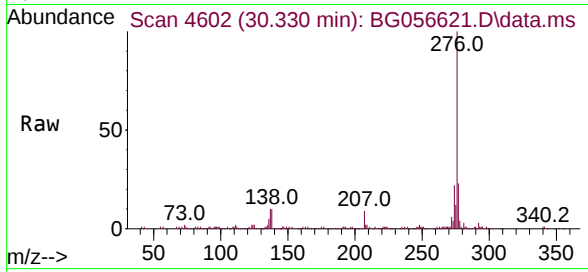
Tgt Ion:278 Resp: 101654
Ion Ratio Lower Upper
278 100
139 8.7 5.5 8.3#
279 30.7 18.8 28.2#





#92
 Benzo(g,h,i)perylene
 Concen: 19.457 ng
 RT: 30.330 min Scan# 4641
 Delta R.T. -0.022 min
 Lab File: BG056621.D
 Acq: 13 Feb 2023 16:00

Instrument :
 BNA_G
 ClientSampleId :
 SB-01-5.0-7.0



Tgt Ion: 276 Resp: 282386

Ion	Ratio	Lower	Upper
276	100		
277	23.4	18.5	27.7
138	9.7	7.4	11.0

Manual Integrations
 APPROVED

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