

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042623\
 Data File : BG057195.D
 Acq On : 26 Apr 2023 16:46
 Operator : CG/JU
 Sample : 02270-12DL 100X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-27-10-12-20230411DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/27/2023
 Supervised By : Jagrut Upadhyay 04/27/2023

Quant Time: Apr 27 03:06:50 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042423.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 27 03:02:41 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.379	152	16635	20.000	ng	0.00
21) Naphthalene-d8	11.216	136	66767	20.000	ng	0.00
39) Acenaphthene-d10	14.993	164	50719	20.000	ng	0.00
64) Phenanthrene-d10	17.731	188	131593	20.000	ng	0.00
76) Chrysene-d12	22.043	240	116410	20.000	ng	# 0.00
86) Perylene-d12	25.556	264	121740	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.900	112	471	0.513	ng	0.00
7) Phenol-d6	7.527	99	771	0.581	ng	0.00
23) Nitrobenzene-d5	9.560	82	551	0.408	ng	0.00
42) 2,4,6-Tribromophenol	16.474	330	285	0.426	ng	0.00
45) 2-Fluorobiphenyl	13.613	172	1464	0.388	ng	0.00
79) Terphenyl-d14	20.292	244	3407	0.512	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	11.269	128	11844	3.340	ng	97
52) Acenaphthene	15.052	154	13579	4.588	ng	98
55) Dibenzofuran	15.387	168	9958	2.077	ng	99
58) Fluorene	16.027	166	14245	3.690	ng	99
71) Phenanthrene	17.772	178	181584	27.030	ng	99
72) Anthracene	17.860	178	49655	7.310	ng	99
73) Carbazole	18.125	167	24520	4.276	ng	97
75) Fluoranthene	19.763	202	373551	44.757	ng	99
78) Pyrene	20.122	202	312953	39.596	ng	99
81) Benzo(a)anthracene	22.019	228	214985	26.860	ng	99
83) Chrysene	22.090	228	181278m	23.486	ng	
87) Indeno(1,2,3-cd)pyrene	29.603	276	88574	10.157	ng	# 95
88) Benzo(b)fluoranthene	24.428	252	251109	32.905	ng	# 99
89) Benzo(k)fluoranthene	24.498	252	91101m	11.541	ng	
90) Benzo(a)pyrene	25.385	252	168349m	22.398	ng	
91) Dibenzo(a,h)anthracene	29.644	278	27209m	3.758	ng	
92) Benzo(g,h,i)perylene	30.872	276	82615	11.532	ng	# 96

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

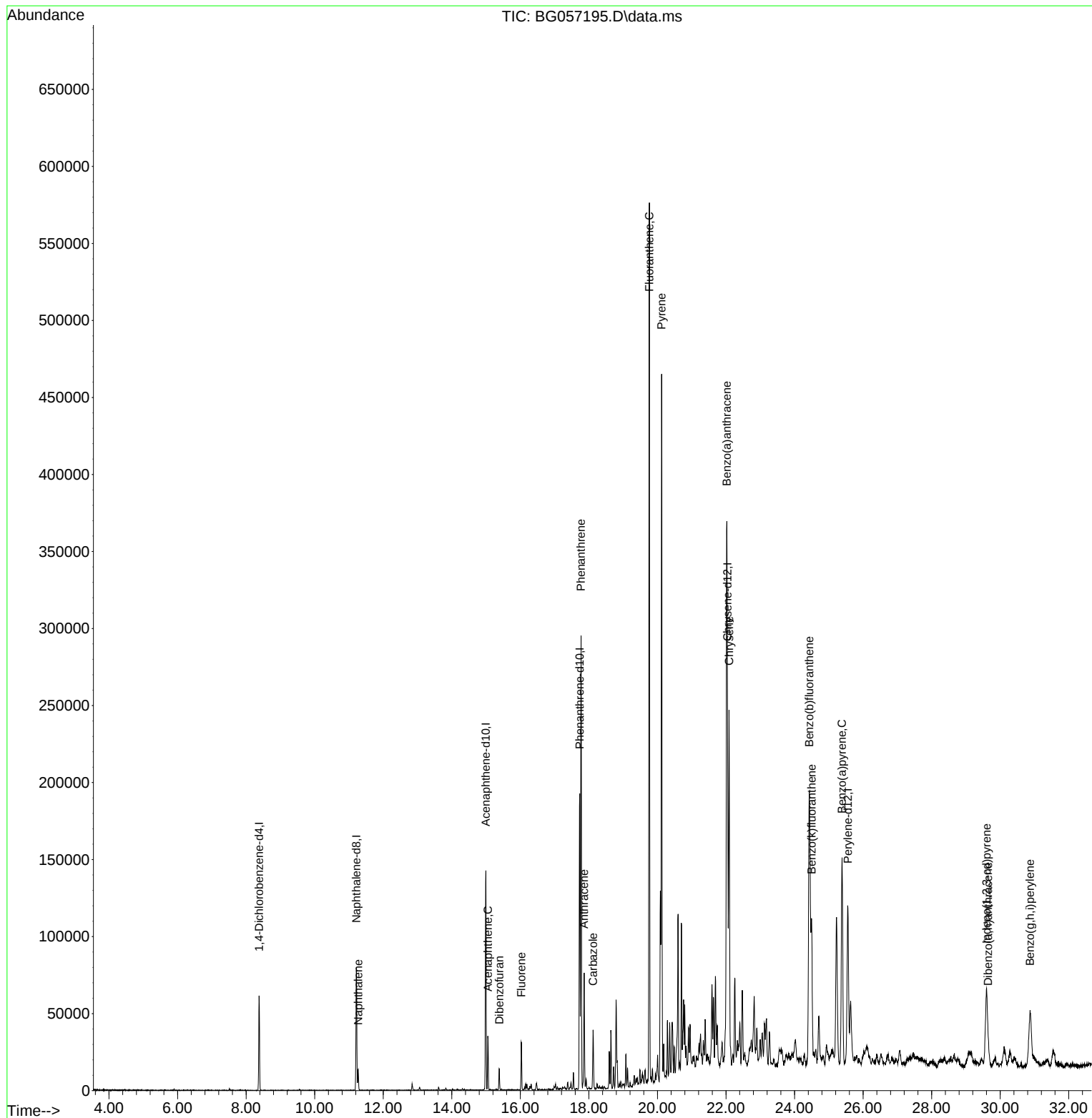
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042623\
Data File : BG057195.D
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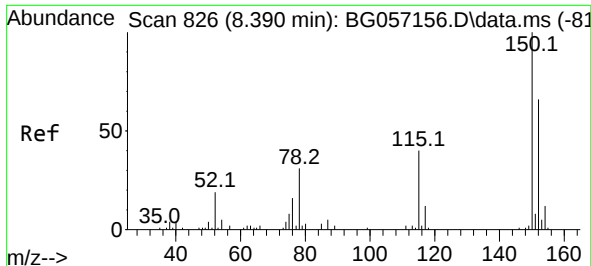
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Quant Time: Apr 27 03:06:50 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 27 03:02:41 2023
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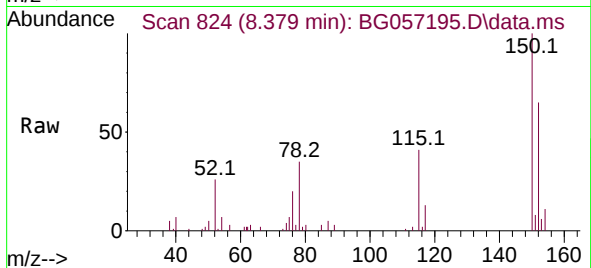
Reviewed By : Christian Giraldo 04/27/2023
Supervised By : Jagrut Upadhyay 04/27/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.379 min Scan# 81
Delta R.T. -0.004 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46

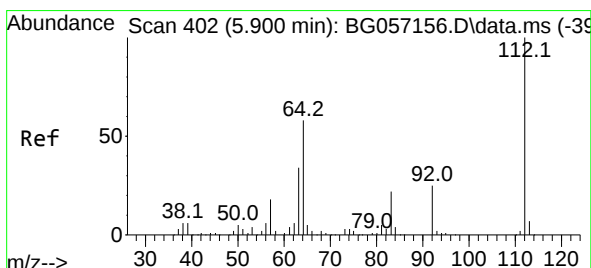
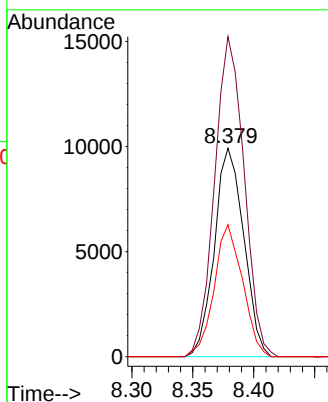
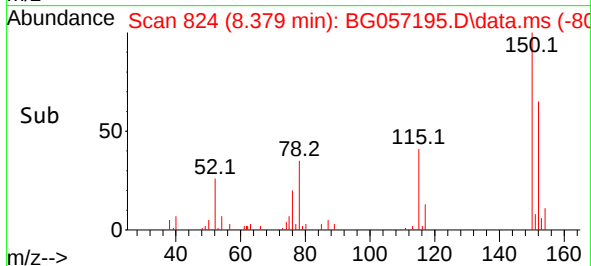
Instrument :
BNA_G
ClientSampleId :
SB-27-10-12-20230411DL



Tgt Ion:152 Resp: 1663
Ion Ratio Lower Upper
152 100
150 153.5 121.4 182.2
115 63.3 48.1 72.1

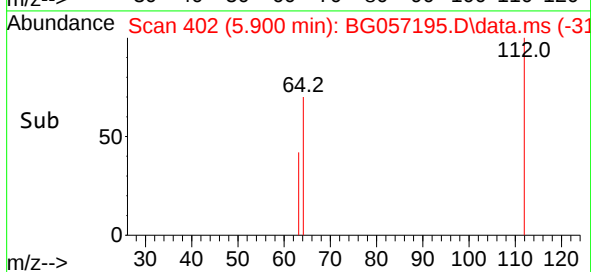
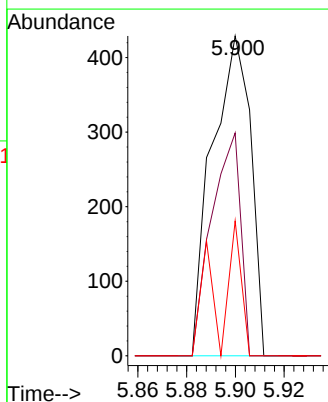
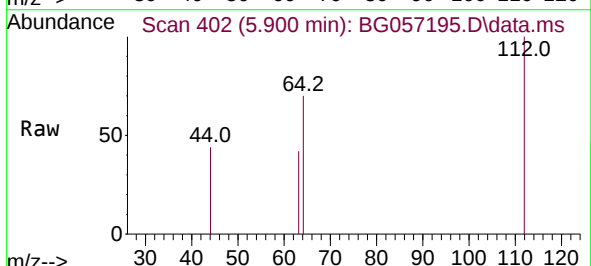
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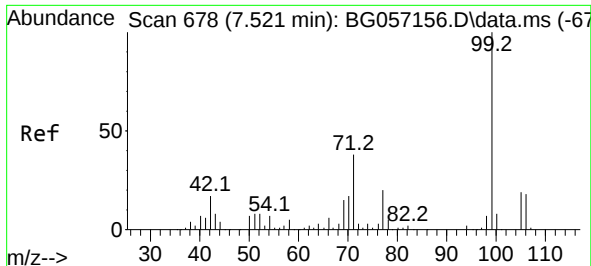
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023



#5
2-Fluorophenol
Concen: 0.513 ng
RT: 5.900 min Scan# 402
Delta R.T. 0.007 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46

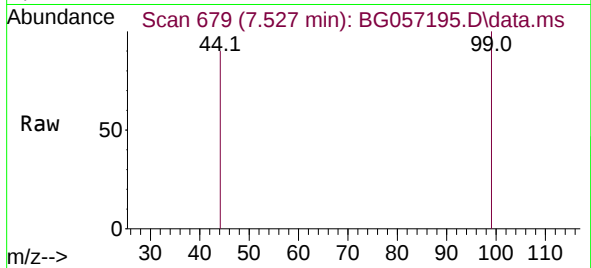
Tgt Ion:112 Resp: 471
Ion Ratio Lower Upper
112 100
64 69.7 46.7 70.1
63 42.2 26.9 40.3#





#7
Phenol-d6
Concen: 0.581 ng
RT: 7.527 min Scan# 61
Delta R.T. 0.007 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46

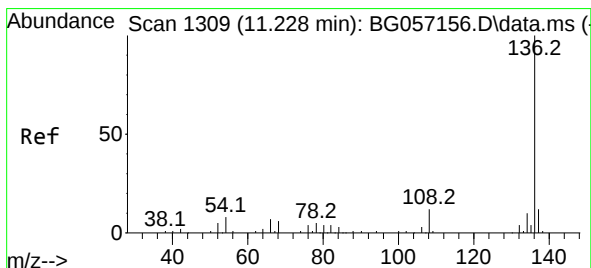
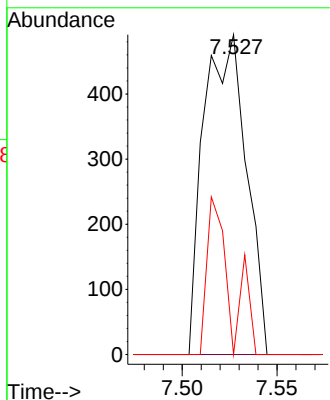
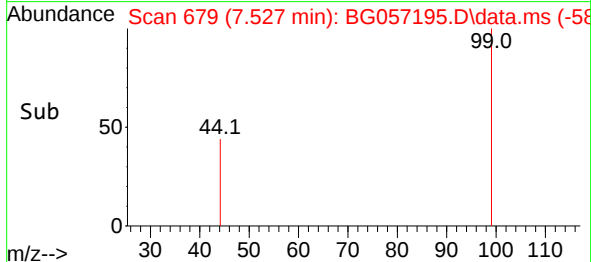
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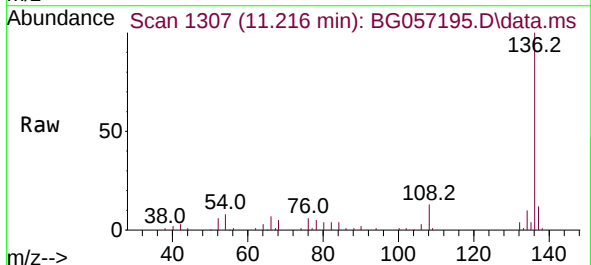
Tgt Ion: 99 Resp: 77
Ion Ratio Lower Upper
99 100
42 0.0 13.4 20.0
71 0.0 30.2 45.2

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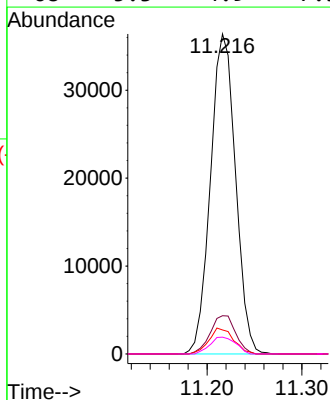
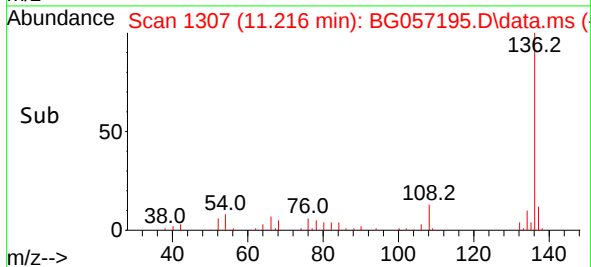
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023

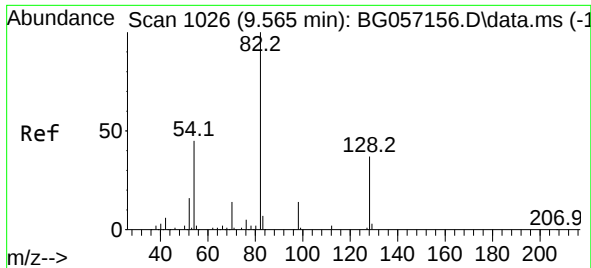


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.216 min Scan# 1307
Delta R.T. -0.004 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46



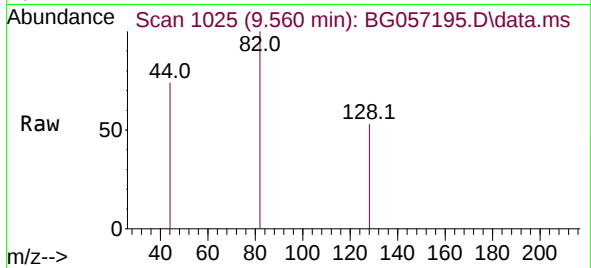
Tgt Ion:136 Resp: 66767
Ion Ratio Lower Upper
136 100
137 11.9 9.5 14.3
54 7.5 6.4 9.6
68 5.3 4.9 7.3





#23
Nitrobenzene-d5
Concen: 0.408 ng
RT: 9.560 min Scan# 1025
Delta R.T. 0.002 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46

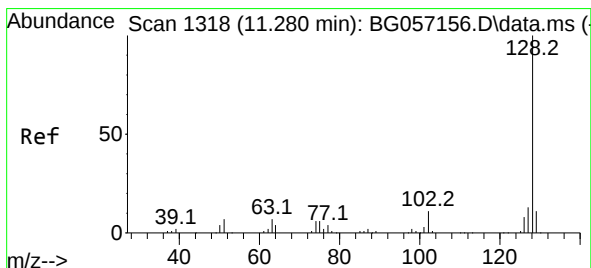
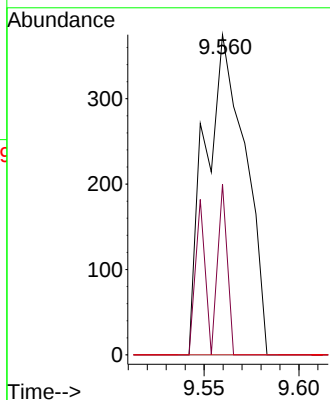
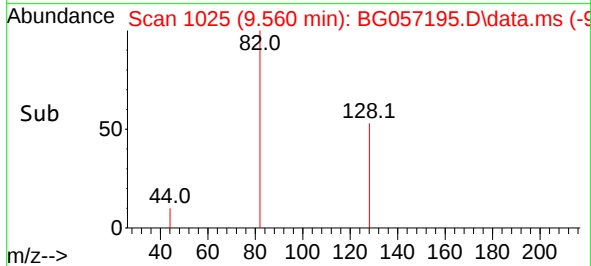
Instrument :
BNA_G
ClientSampleId :
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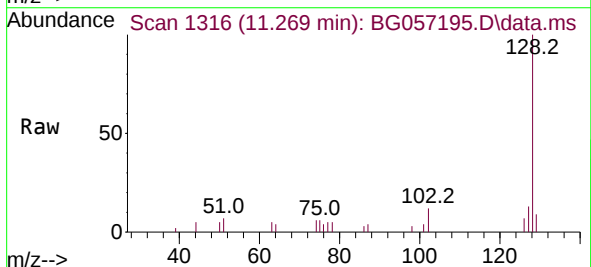
Tgt Ion: 82 Resp: 55
Ion Ratio Lower Upper
82 100
128 53.3 29.4 44.2
54 0.0 36.2 54.2

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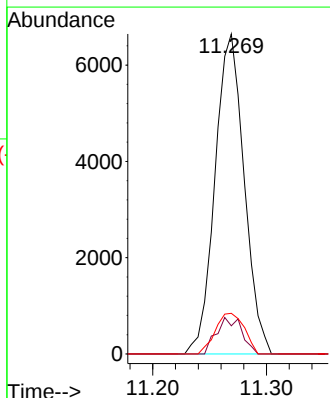
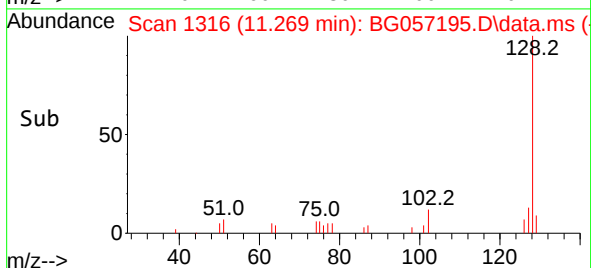
Reviewed By :Christian Giraldo 04/27/2023
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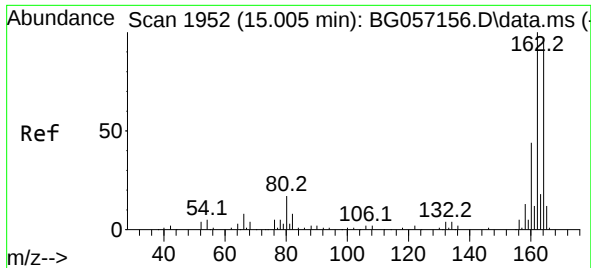


#31
Naphthalene
Concen: 3.340 ng
RT: 11.269 min Scan# 1316
Delta R.T. -0.004 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46



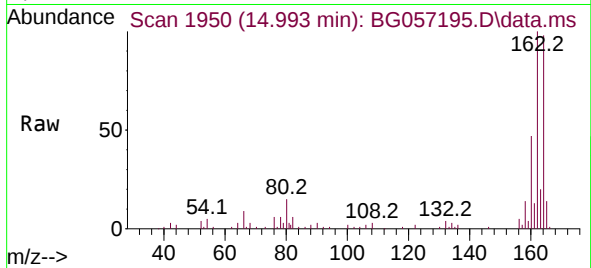
Tgt Ion:128 Resp: 11844
Ion Ratio Lower Upper
128 100
129 8.8 8.8 13.2
127 12.7 10.6 16.0





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.993 min Scan# 1950
Delta R.T. 0.002 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46

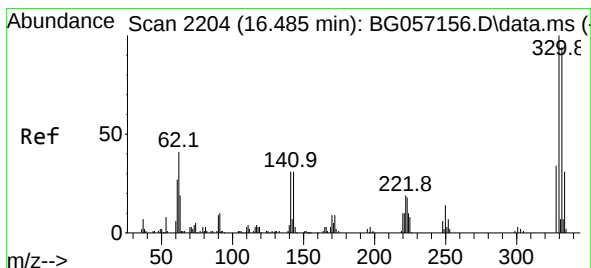
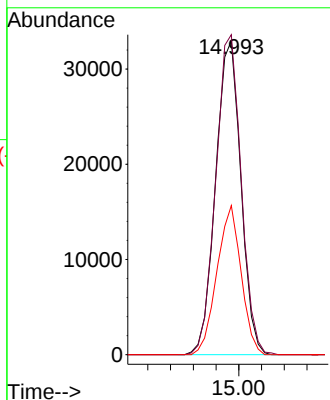
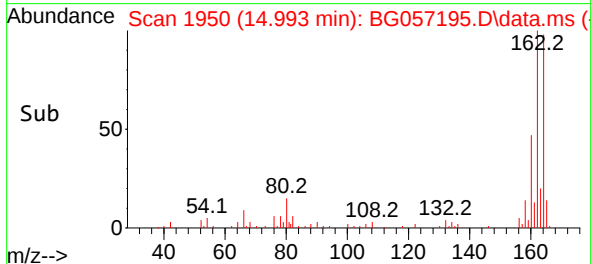
Instrument :
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ClientSampleId :
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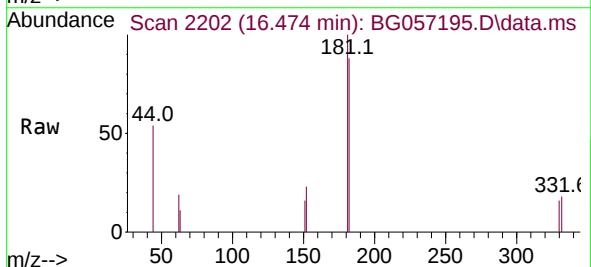
Tgt Ion:164 Resp: 50719
Ion Ratio Lower Upper
164 100
162 101.9 82.4 123.6
160 47.5 36.2 54.2

Manual Integrations
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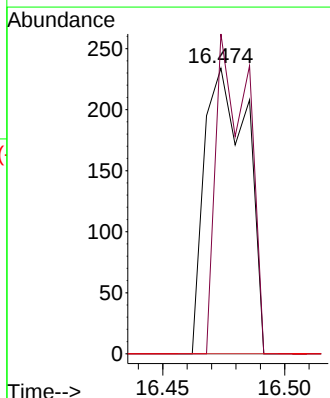
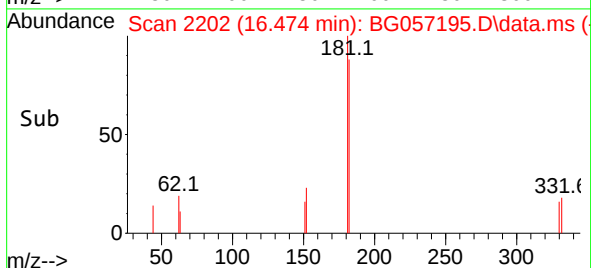
Reviewed By :Christian Giraldo 04/27/2023
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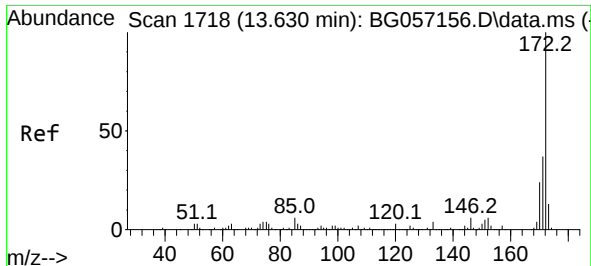


#42
2,4,6-Tribromophenol
Concen: 0.426 ng
RT: 16.474 min Scan# 2202
Delta R.T. -0.004 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46



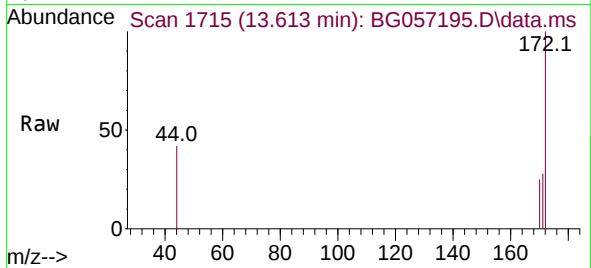
Tgt Ion:330 Resp: 285
Ion Ratio Lower Upper
330 100
332 83.5 77.6 116.4
141 0.0 26.0 39.0#





#45
2-Fluorobiphenyl
Concen: 0.388 ng
RT: 13.613 min Scan# 1715
Delta R.T. -0.004 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46

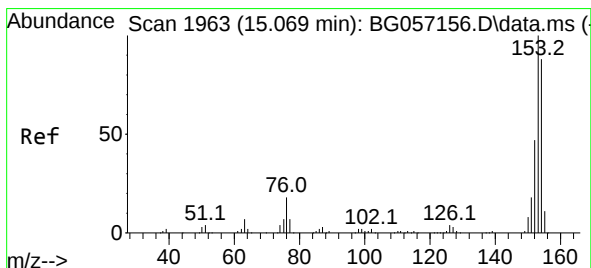
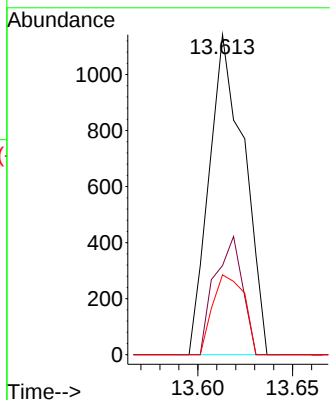
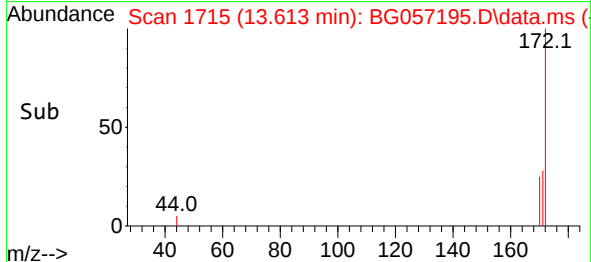
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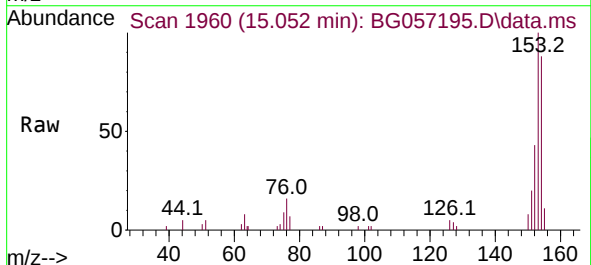
Tgt Ion:172 Resp: 1464
Ion Ratio Lower Upper
172 100
171 27.8 29.2 43.8
170 25.0 19.4 29.2

Manual Integrations
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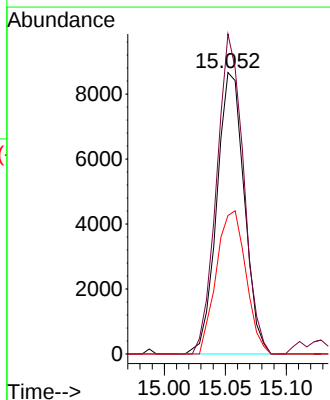
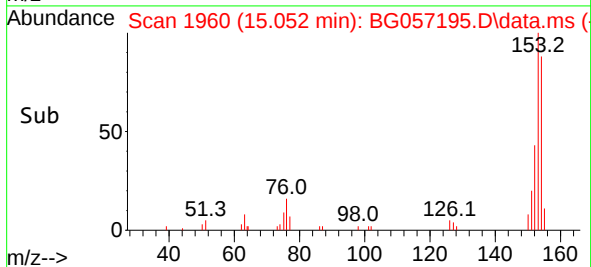
Reviewed By :Christian Giraldo 04/27/2023
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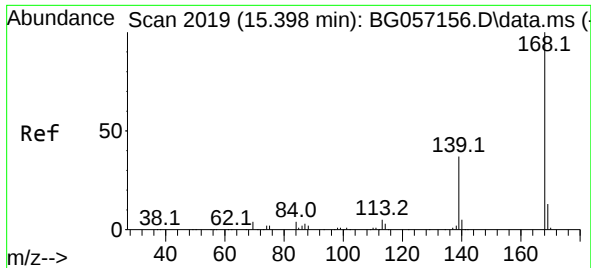


#52
Acenaphthene
Concen: 4.588 ng
RT: 15.052 min Scan# 1960
Delta R.T. -0.004 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46



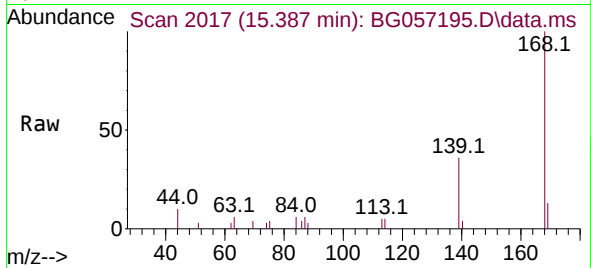
Tgt Ion:154 Resp: 13579
Ion Ratio Lower Upper
154 100
153 113.7 91.0 136.4
152 49.2 43.0 64.6





#55
Dibenzenofuran
Concen: 2.077 ng
RT: 15.387 min Scan# 2019
Delta R.T. -0.004 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46

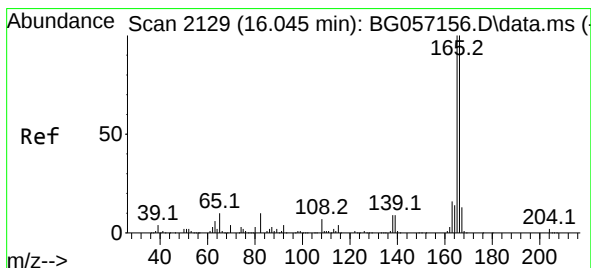
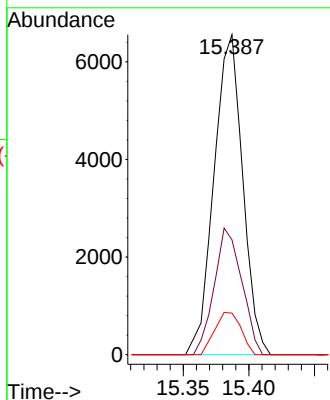
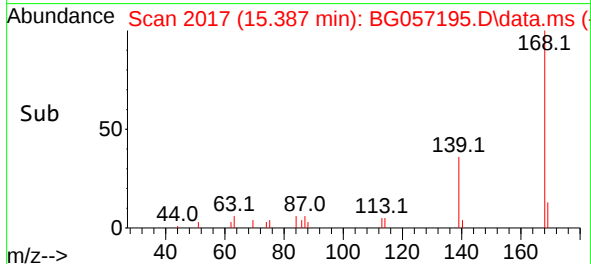
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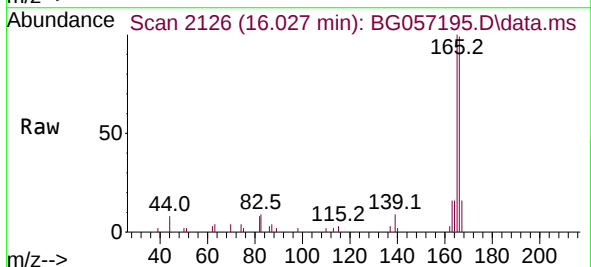
Tgt Ion:168 Resp: 9958
Ion Ratio Lower Upper
168 100
139 35.9 29.2 43.8
169 13.0 10.6 15.8

Manual Integrations
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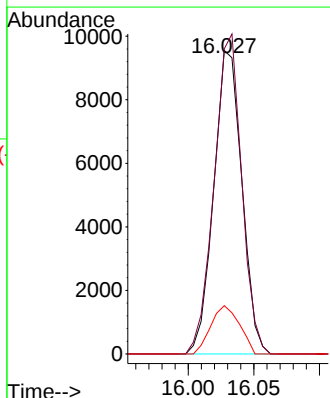
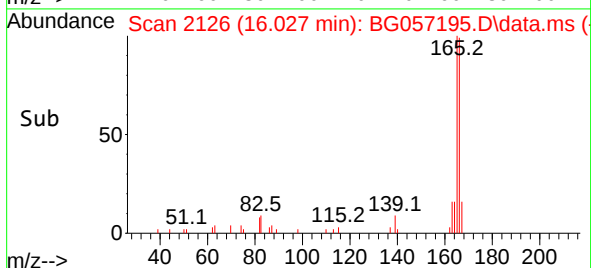
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023

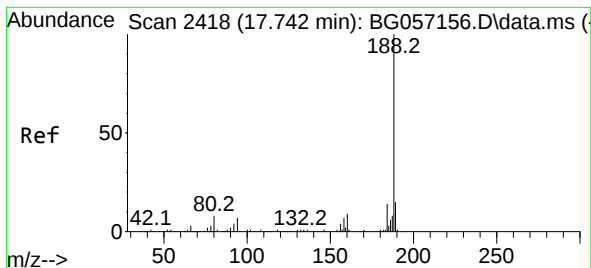


#58
Fluorene
Concen: 3.690 ng
RT: 16.027 min Scan# 2126
Delta R.T. -0.010 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46



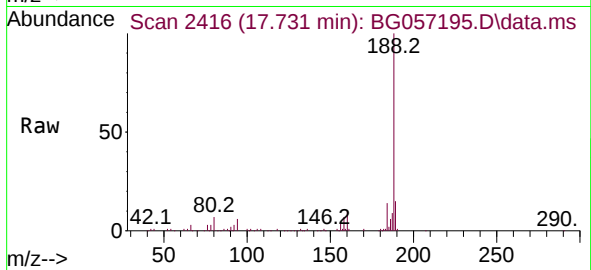
Tgt Ion:166 Resp: 14245
Ion Ratio Lower Upper
166 100
165 100.5 79.8 119.6
167 15.9 10.7 16.1





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.731 min Scan# 2418
Delta R.T. -0.004 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46

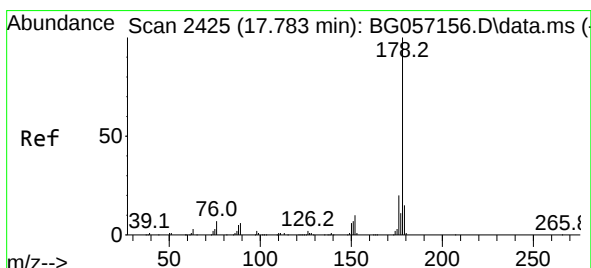
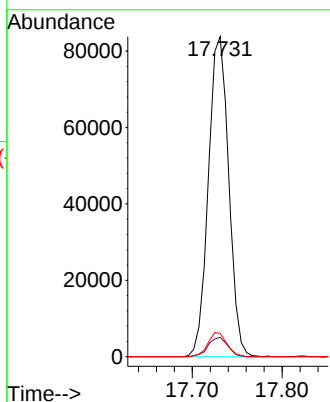
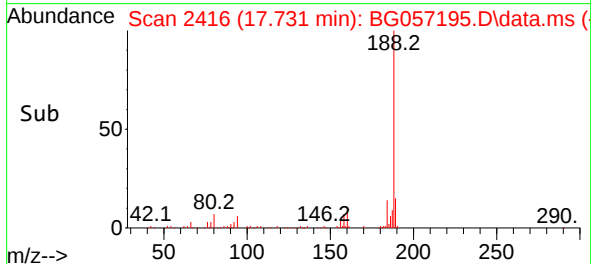
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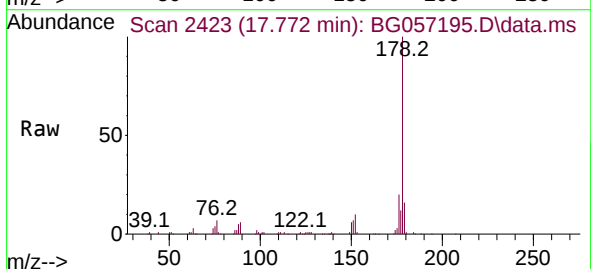
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Ion Ratio Lower Upper
188 100
94 6.1 5.4 8.0
80 7.3 6.2 9.2

Manual Integrations
APPROVED

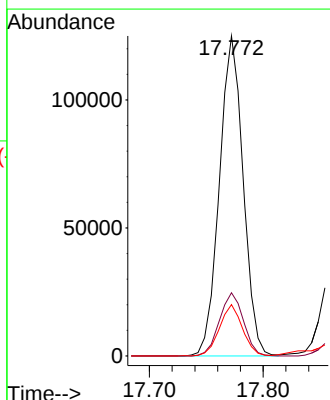
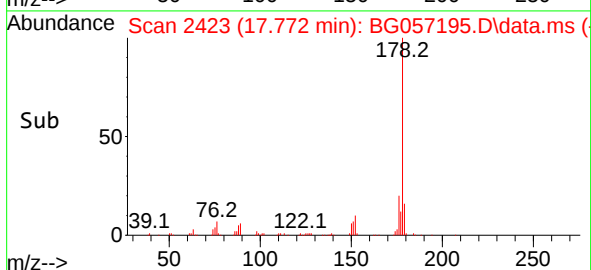
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023

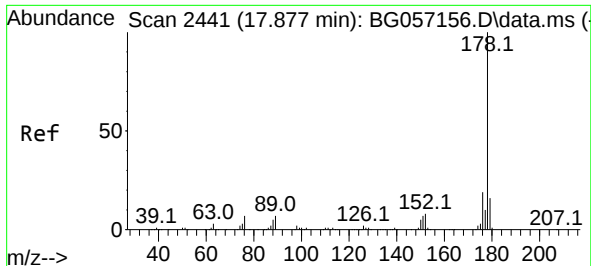


#71
Phenanthrene
Concen: 27.030 ng
RT: 17.772 min Scan# 2423
Delta R.T. -0.004 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46



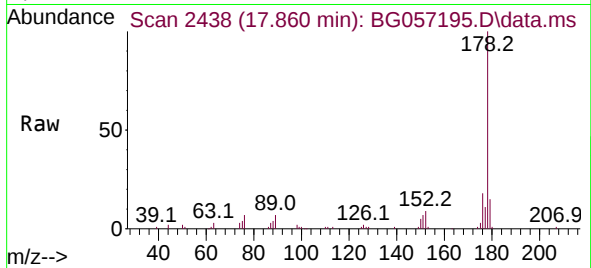
Tgt Ion:178 Resp: 181584
Ion Ratio Lower Upper
178 100
176 19.7 15.6 23.4
179 16.0 12.4 18.6





#72
 Anthracene
 Concen: 7.310 ng
 RT: 17.860 min Scan# 2441
 Delta R.T. -0.004 min
 Lab File: BG057195.D
 Acq: 26 Apr 2023 16:46

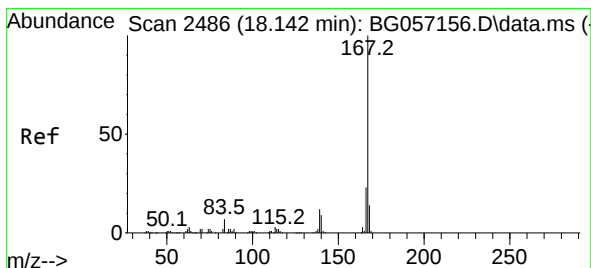
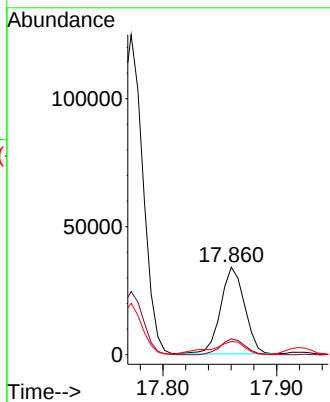
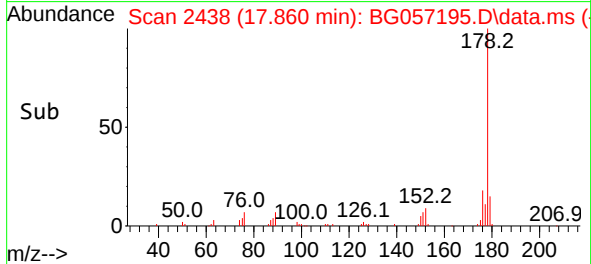
Instrument :
 BNA_G
 ClientSampleId :
 SB-27-10-12-20230411DL



Tgt Ion:178 Resp: 4965
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.9 22.3
 179 15.0 12.5 18.7

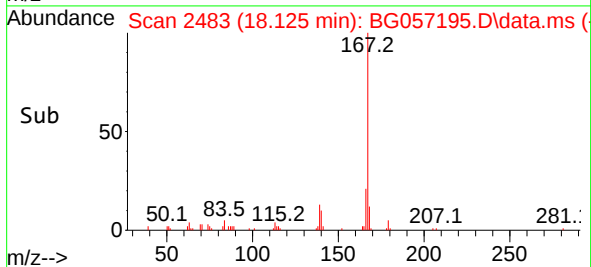
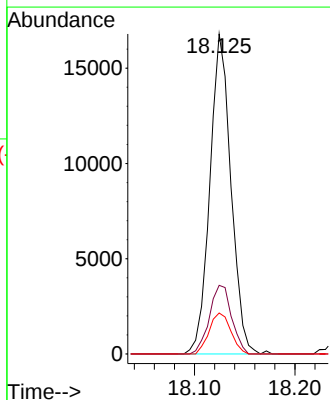
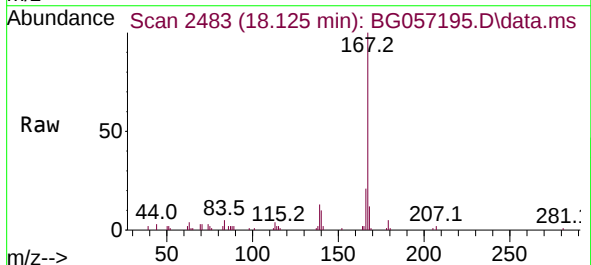
Manual Integrations
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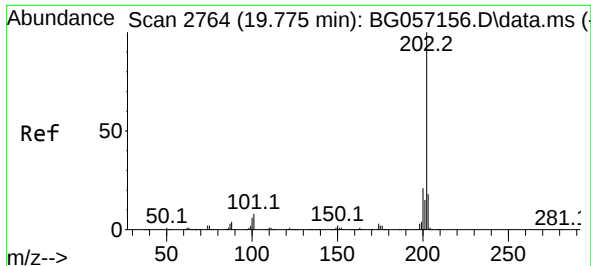
Reviewed By :Christian Giraldo 04/27/2023
 Supervised By :Jagrut Upadhyay 04/27/2023



#73
 Carbazole
 Concen: 4.276 ng
 RT: 18.125 min Scan# 2483
 Delta R.T. -0.010 min
 Lab File: BG057195.D
 Acq: 26 Apr 2023 16:46

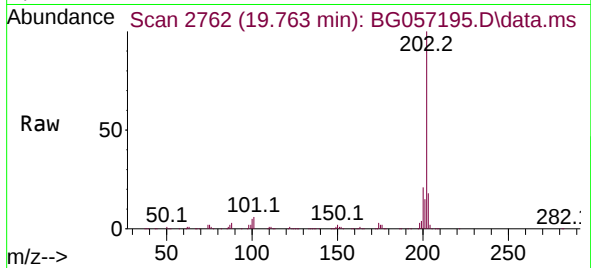
Tgt Ion:167 Resp: 24520
 Ion Ratio Lower Upper
 167 100
 166 21.4 18.3 27.5
 139 12.8 9.6 14.4





#75
Fluoranthene
Concen: 44.757 ng
RT: 19.763 min Scan# 21
Delta R.T. -0.004 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46

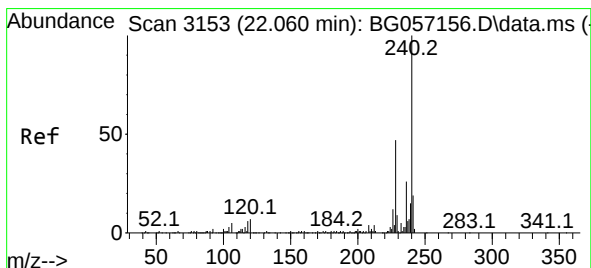
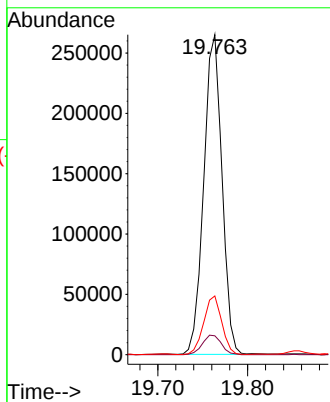
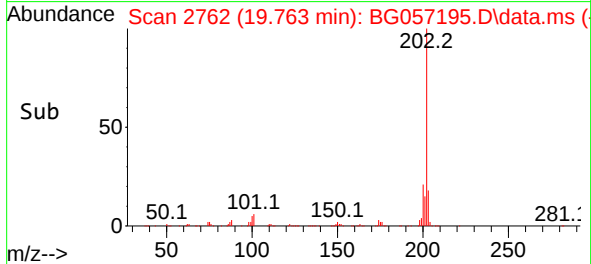
Instrument :
BNA_G
ClientSampleId :
SB-27-10-12-20230411DL



Tgt Ion:202 Resp: 37355
Ion Ratio Lower Upper
202 100
101 5.9 0.0 27.6
203 18.3 0.0 38.3

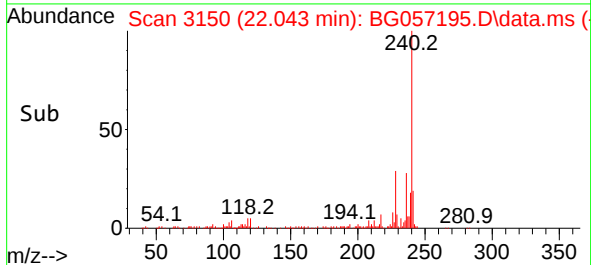
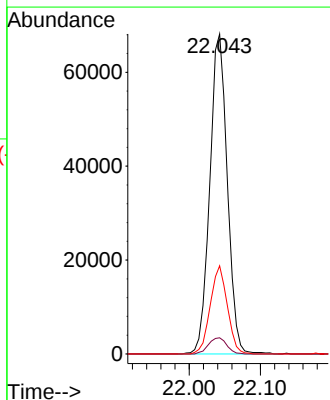
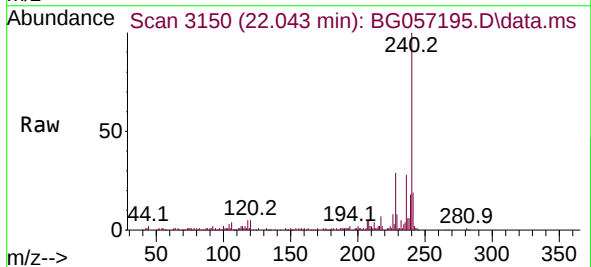
Manual Integrations
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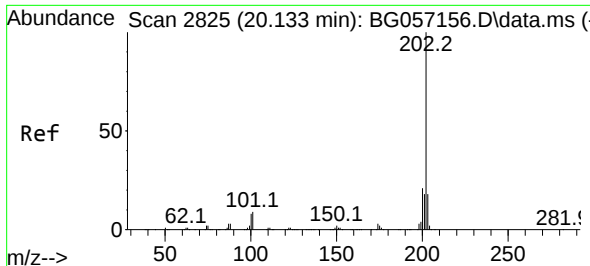
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.043 min Scan# 3150
Delta R.T. -0.004 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46

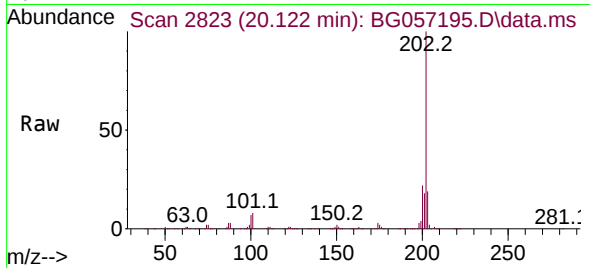
Tgt Ion:240 Resp: 116410
Ion Ratio Lower Upper
240 100
120 5.0 5.5 8.3#
236 27.5 20.8 31.2





#78
Pyrene
Concen: 39.596 ng
RT: 20.122 min Scan# 2823
Delta R.T. -0.004 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46

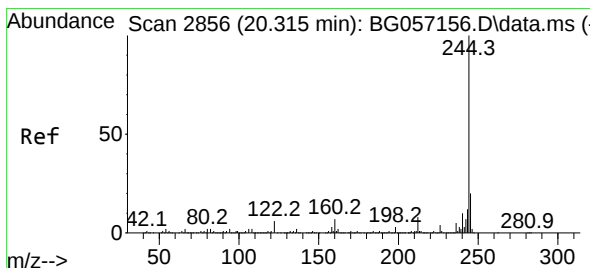
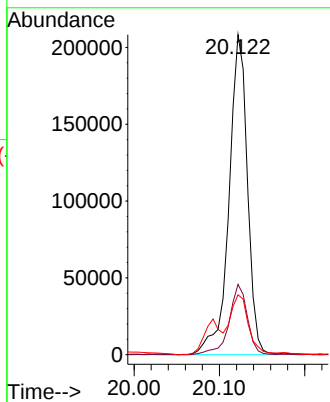
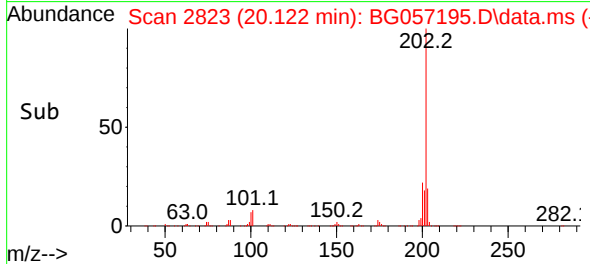
Instrument :
BNA_G
ClientSampleId :
SB-27-10-12-20230411DL



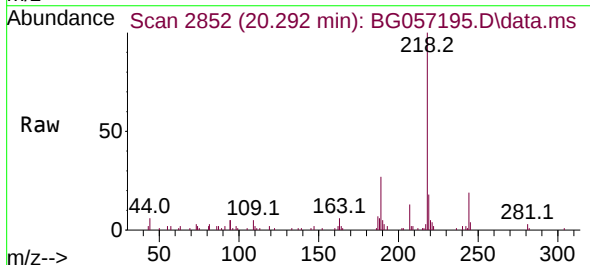
Tgt Ion:202 Resp: 31295
Ion Ratio Lower Upper
202 100
200 22.0 17.0 25.4
203 18.7 14.7 22.1

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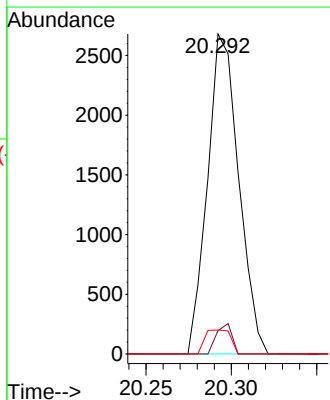
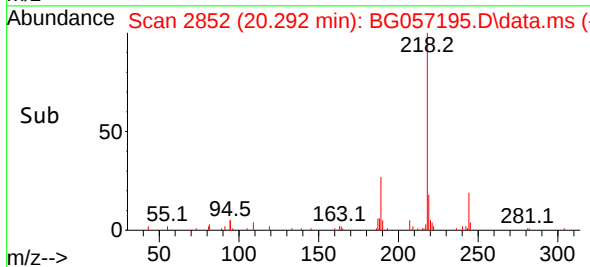
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023

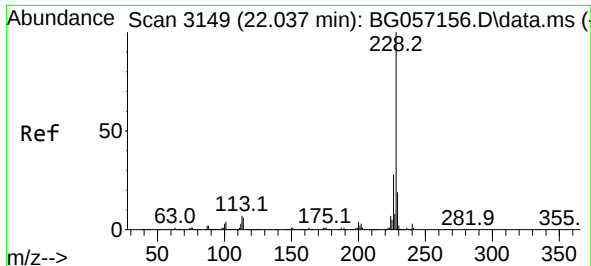


#79
Terphenyl-d14
Concen: 0.512 ng
RT: 20.292 min Scan# 2852
Delta R.T. -0.010 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46



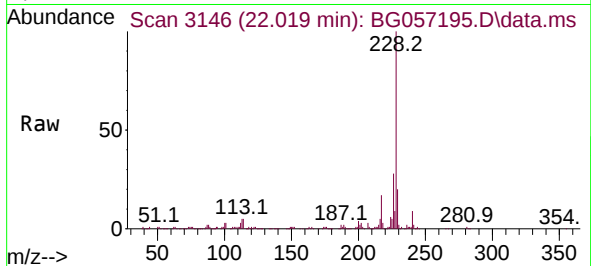
Tgt Ion:244 Resp: 3407
Ion Ratio Lower Upper
244 100
212 7.3 6.0 9.0
122 7.5 5.0 7.4#





#81
Benzo(a)anthracene
Concen: 26.860 ng
RT: 22.019 min Scan# 3149
Delta R.T. -0.004 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46

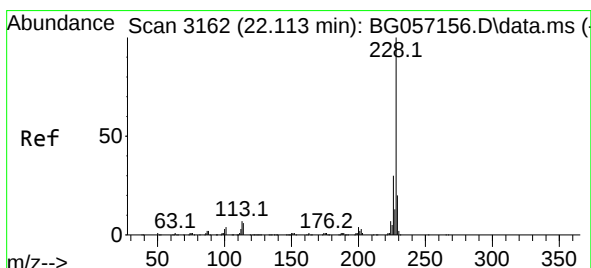
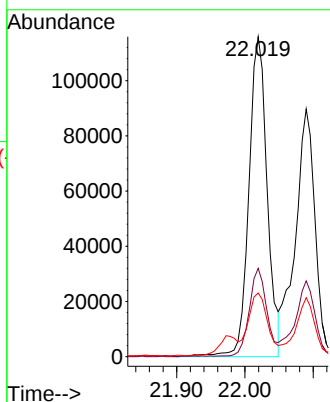
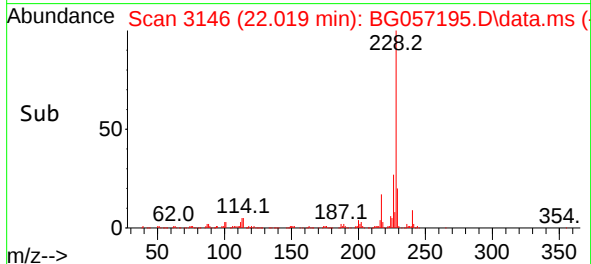
Instrument :
BNA_G
ClientSampleId :
SB-27-10-12-20230411DL



Tgt Ion:228 Resp: 214985
Ion Ratio Lower Upper
228 100
226 27.6 22.2 33.4
229 19.9 15.6 23.4

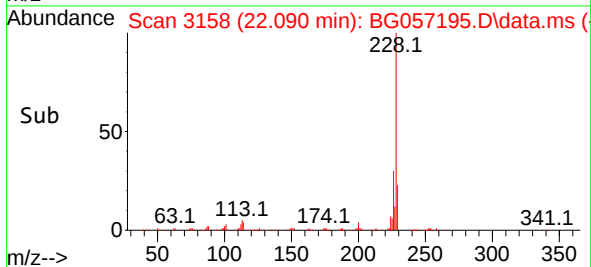
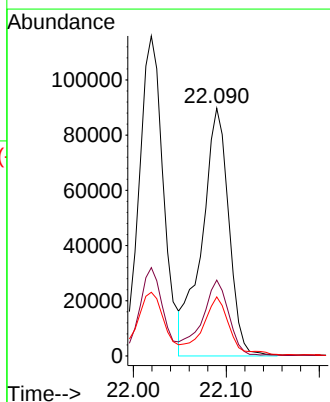
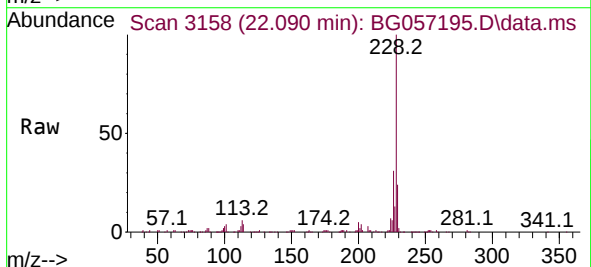
Manual Integrations
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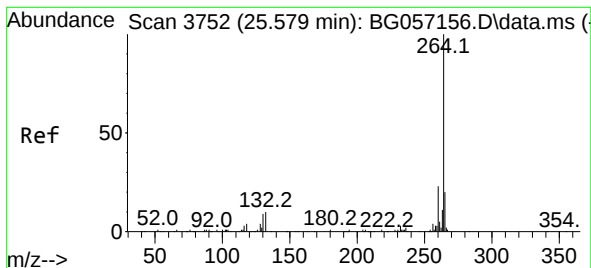
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023



#83
Chrysene
Concen: 23.486 ng m
RT: 22.090 min Scan# 3158
Delta R.T. -0.010 min
Lab File: BG057195.D
Acq: 26 Apr 2023 16:46

Tgt Ion:228 Resp: 181278
Ion Ratio Lower Upper
228 100
226 30.6 24.0 36.0
229 23.8 15.8 23.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.556 min Scan# 31

Delta R.T. -0.004 min

Lab File: BG057195.D

Acq: 26 Apr 2023 16:46

Instrument :

BNA_G

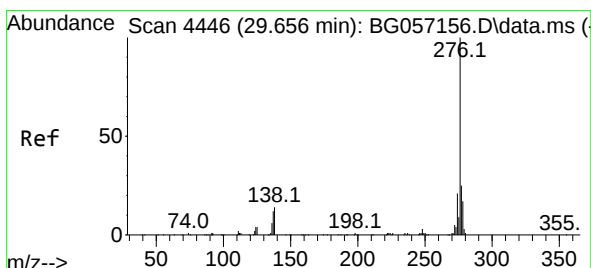
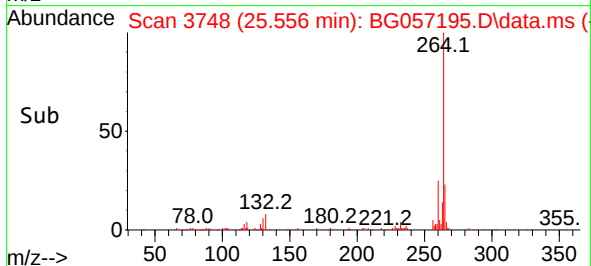
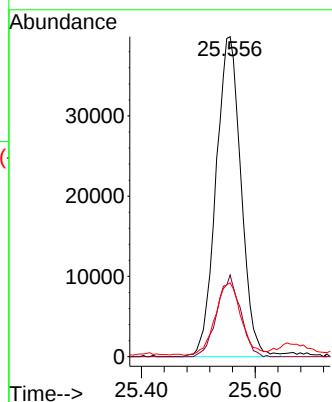
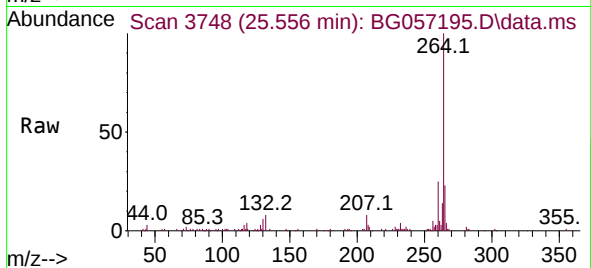
ClientSampleId :

SB-27-10-12-20230411DL

Tgt Ion:264 Resp: 121740
 Ion Ratio Lower Upper
 264 100
 260 25.5 18.8 28.2
 265 23.0 16.4 24.6

Manual Integrations
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 Supervised By :Jagrut Upadhyay 04/27/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 10.157 ng

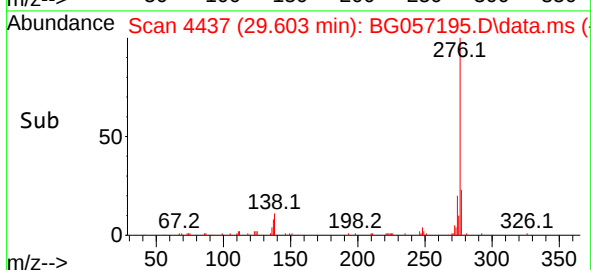
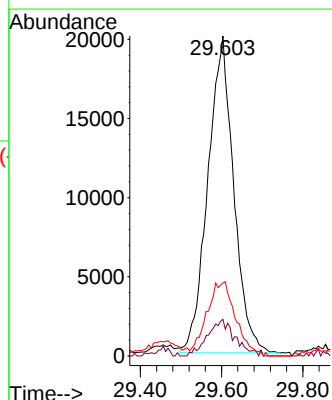
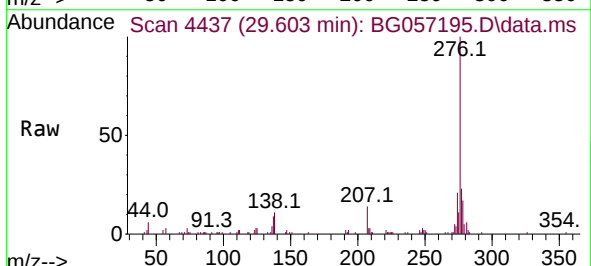
RT: 29.603 min Scan# 4437

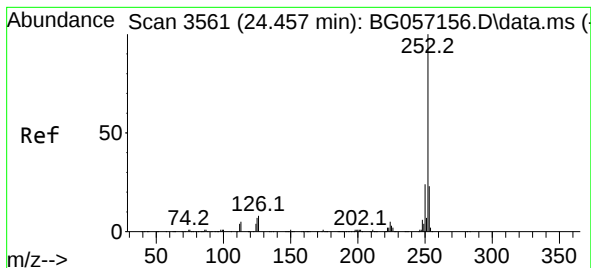
Delta R.T. -0.022 min

Lab File: BG057195.D

Acq: 26 Apr 2023 16:46

Tgt Ion:276 Resp: 88574
 Ion Ratio Lower Upper
 276 100
 138 12.1 13.8 20.6#
 277 26.1 20.4 30.6





#88

Benzo(b)fluoranthene

Concen: 32.905 ng

RT: 24.428 min Scan# 3556

Delta R.T. -0.010 min

Lab File: BG057195.D

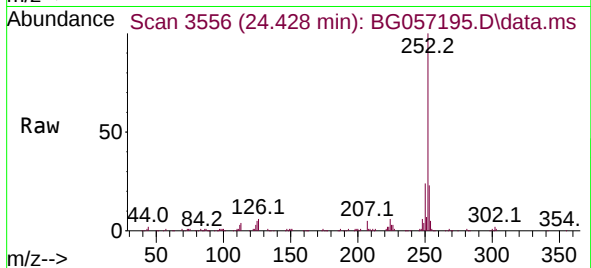
Acq: 26 Apr 2023 16:46

Instrument :

BNA_G

ClientSampleId :

SB-27-10-12-20230411DL



Tgt Ion:252 Resp: 251109

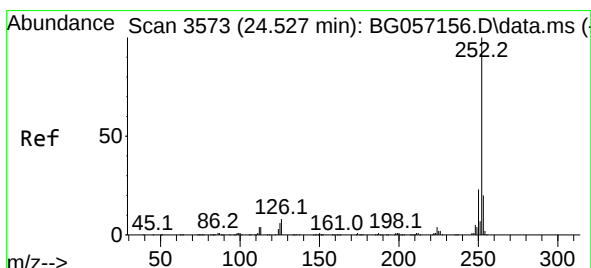
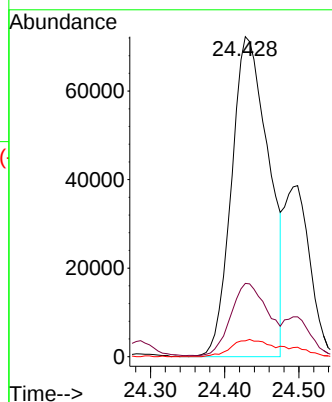
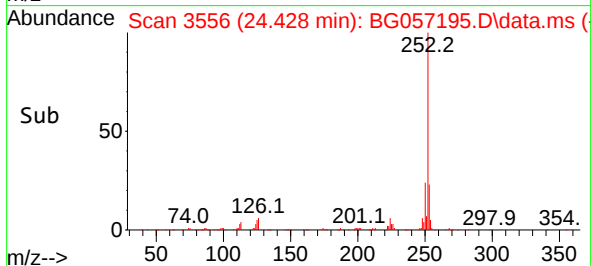
Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.2	27.2
125	4.9	5.3	7.9

Manual Integrations

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Supervised By :Jagrut Upadhyay 04/27/2023



#89

Benzo(k)fluoranthene

Concen: 11.541 ng m

RT: 24.498 min Scan# 3568

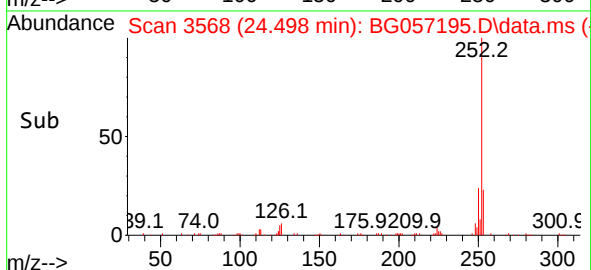
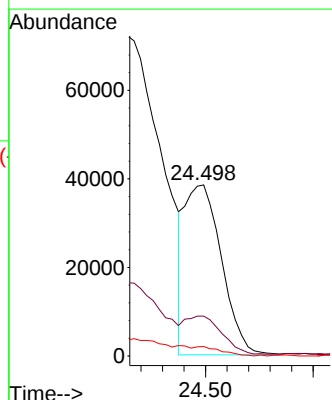
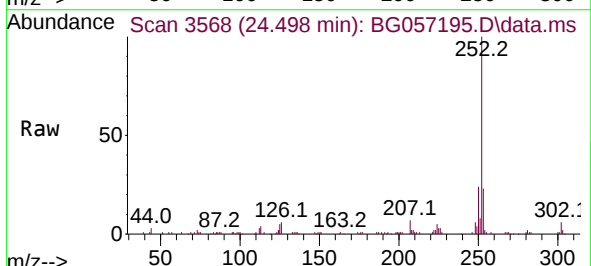
Delta R.T. -0.010 min

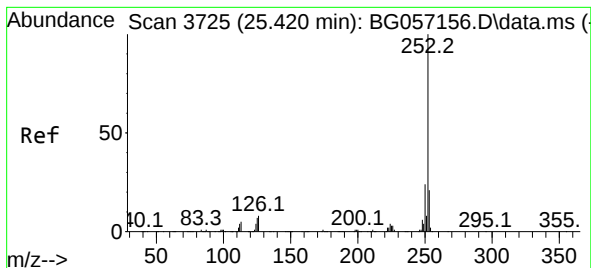
Lab File: BG057195.D

Acq: 26 Apr 2023 16:46

Tgt Ion:252 Resp: 91101

Ion	Ratio	Lower	Upper
252	100		
253	23.3	16.7	25.1
125	5.5	5.0	7.6





#90

Benzo(a)pyrene

Concen: 22.398 ng m

RT: 25.385 min Scan# 31

Delta R.T. -0.010 min

Lab File: BG057195.D

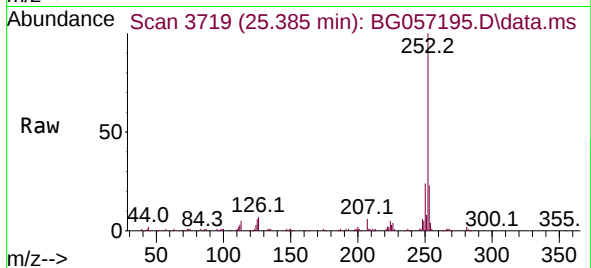
Acq: 26 Apr 2023 16:46

Instrument :

BNA_G

ClientSampleId :

SB-27-10-12-20230411DL



Tgt Ion:252 Resp: 168349

Ion Ratio Lower Upper

252 100

253 22.6 17.0 25.6

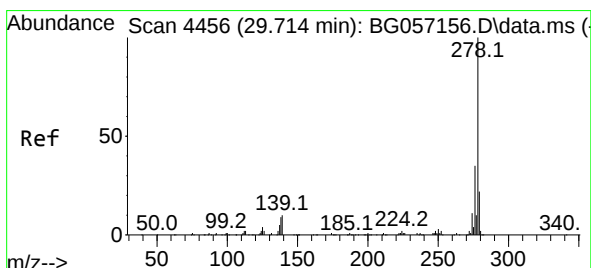
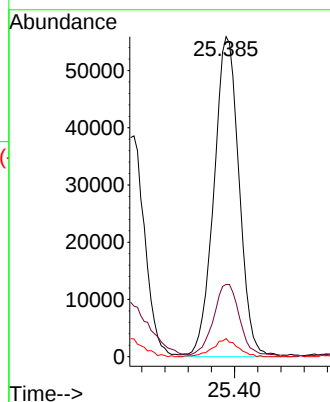
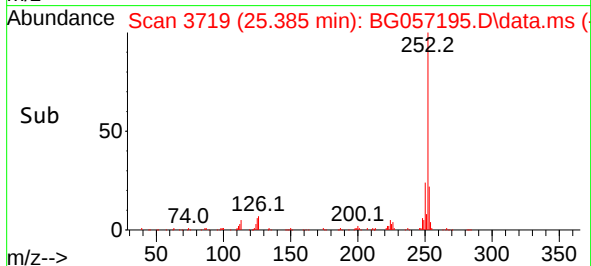
125 5.6 5.8 8.8

Manual Integrations

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Reviewed By :Christian Giraldo 04/27/2023

Supervised By :Jagrut Upadhyay 04/27/2023



#91

Dibenzo(a,h)anthracene

Concen: 3.758 ng m

RT: 29.644 min Scan# 4444

Delta R.T. -0.045 min

Lab File: BG057195.D

Acq: 26 Apr 2023 16:46

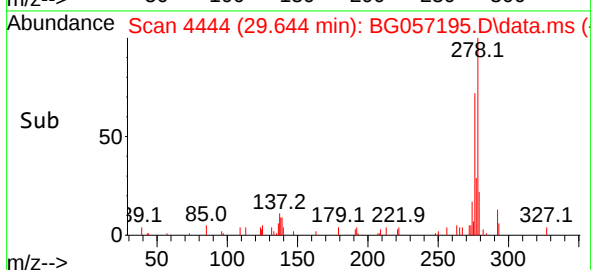
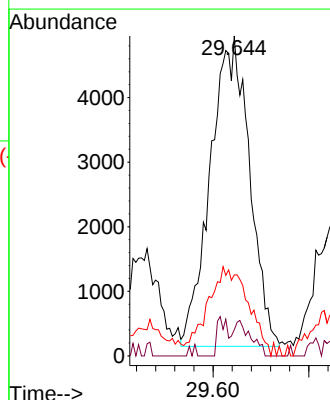
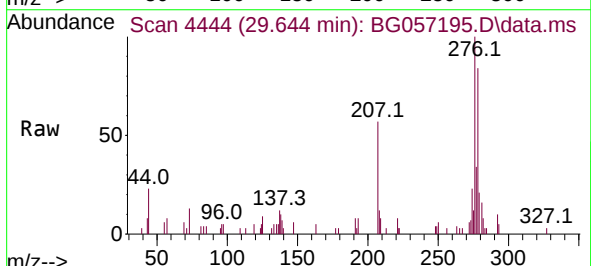
Tgt Ion:278 Resp: 27209

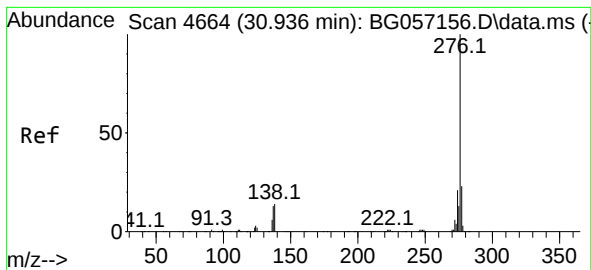
Ion Ratio Lower Upper

278 100

139 8.2 7.9 11.9

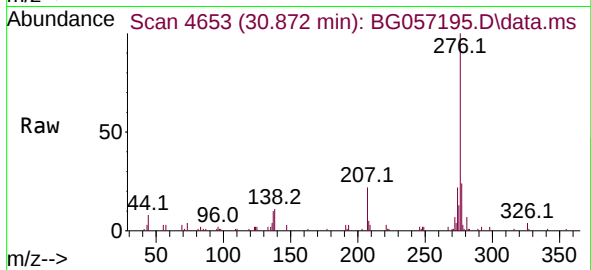
279 25.4 17.7 26.5





#92
 Benzo(g,h,i)perylene
 Concen: 11.532 ng
 RT: 30.872 min Scan# 4653
 Delta R.T. -0.028 min
 Lab File: BG057195.D
 Acq: 26 Apr 2023 16:46

Instrument :
 BNA_G
 ClientSampleId :
 SB-27-10-12-20230411DL



Tgt Ion:276 Resp: 82615
 Ion Ratio Lower Upper
 276 100
 277 24.2 18.5 27.7
 138 11.2 11.5 17.3

Manual Integrations
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 Supervised By :Jagrut Upadhyay 04/27/2023

