

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG112723\
 Data File : BG059911.D
 Acq On : 27 Nov 2023 21:54
 Operator : MA/JU
 Sample : 05503-02
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 358

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/28/2023
 Supervised By :mohammad ahmed 11/28/2023

Quant Time: Nov 27 23:16:05 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 27 13:17:45 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.309	152	40936	20.000	ng	# 0.00
21) Naphthalene-d8	11.159	136	171391	20.000	ng	# 0.00
39) Acenaphthene-d10	14.943	164	99751	20.000	ng	0.00
64) Phenanthrene-d10	17.704	188	192849	20.000	ng	# 0.01
76) Chrysene-d12	22.034	240	175727	20.000	ng	# 0.02
86) Perylene-d12	25.601	264	192708	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.806	112	223792	92.015	ng	0.01
7) Phenol-d6	7.434	99	318604	88.399	ng	0.00
23) Nitrobenzene-d5	9.508	82	284700	63.441	ng	0.00
42) 2,4,6-Tribromophenol	16.435	330	124831	110.294	ng	0.00
45) 2-Fluorobiphenyl	13.562	172	544192	73.434	ng	0.00
79) Terphenyl-d14	20.272	244	752366	63.205	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.212	128	1375972	159.658	ng	# 95
37) 2-Methylnaphthalene	12.798	142	1006248	138.629	ng	84
38) 1-Methylnaphthalene	13.010	142	596725	89.146	ng	84
46) 1,1'-Biphenyl	13.779	154	326109	41.651	ng	90
49) Acenaphthylene	14.672	152	200571	21.865	ng	97
52) Acenaphthene	15.019	154	1699376	308.036	ng	95
55) Dibenzofuran	15.348	168	1967652	216.325	ng	91
58) Fluorene	16.006	166	2903060	384.162	ng	94
71) Phenanthrene	17.775	178	11059133	1127.922	ng	# 28
72) Anthracene	17.851	178	1845965	181.200	ng	# 95
73) Carbazole	18.110	167	378487	42.527	ng	97
75) Fluoranthene	19.766	202	8397503	714.173	ng	64
78) Pyrene	20.125	202	6288840	525.983	ng	# 69
81) Benzo(a)anthracene	22.017	228	2311471	192.243	ng	97
83) Chrysene	22.087	228	1595883	144.790	ng	92
87) Indeno(1,2,3-cd)pyrene	29.749	276	300876	20.634	ng	# 77
88) Benzo(b)fluoranthene	24.467	252	1390050	131.606	ng	100
89) Benzo(k)fluoranthene	24.526	252	674615m	64.605	ng	
90) Benzo(a)pyrene	25.436	252	856845	76.013	ng	# 100
91) Dibenzo(a,h)anthracene	29.784	278	125355m	10.161	ng	
92) Benzo(g,h,i)perylene	31.071	276	221850	18.952	ng	99

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

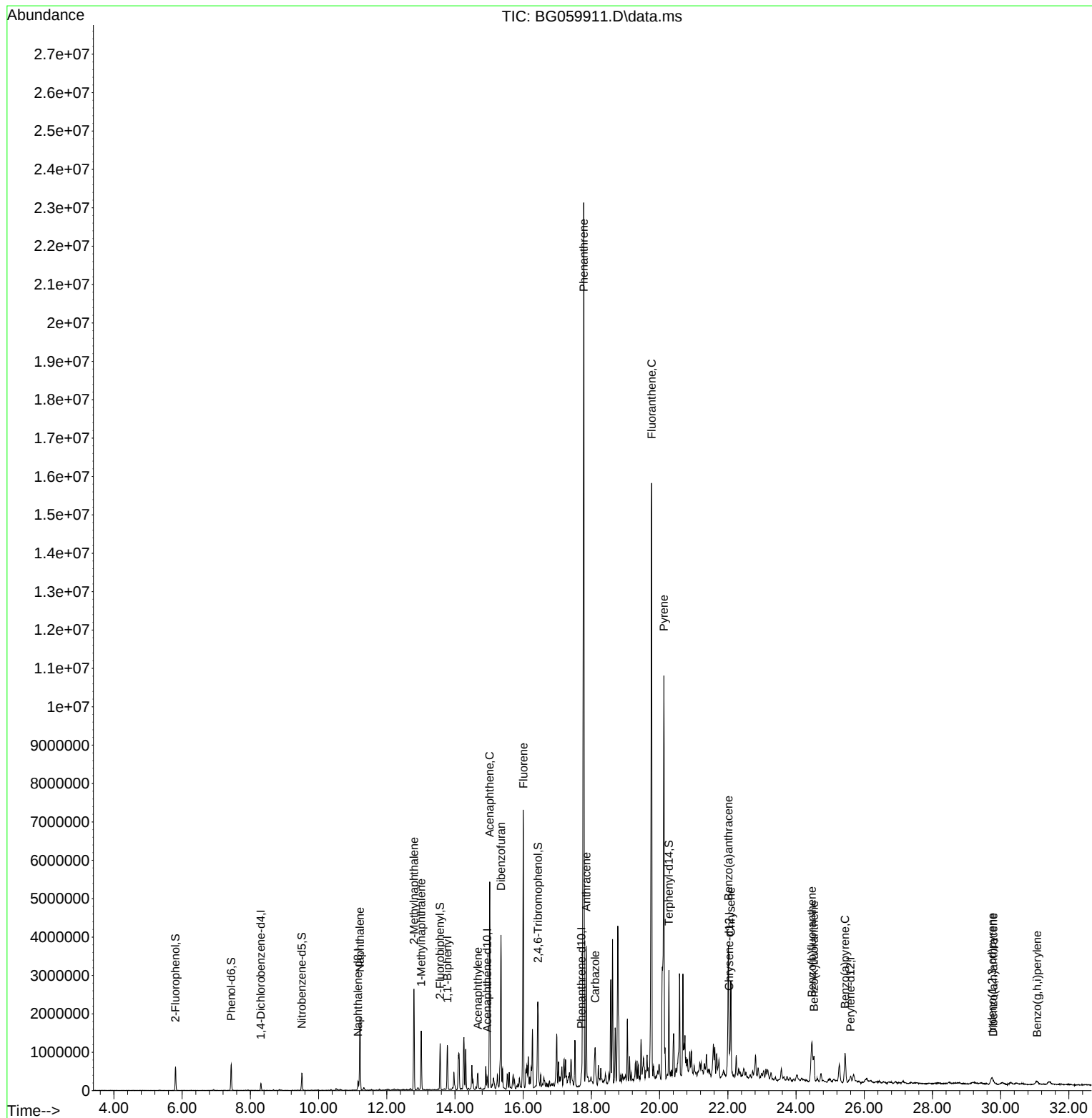
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG112723\
Data File : BG059911.D
Acq On : 27 Nov 2023 21:54
Operator : MA/JU
Sample : 05503-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

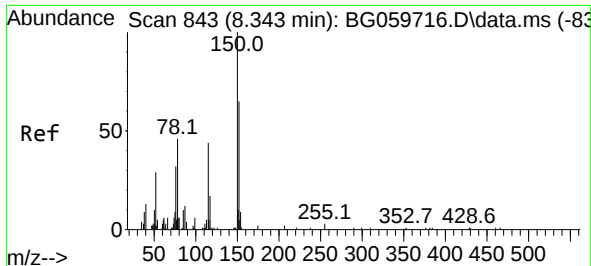
Instrument :
BNA_G
ClientSampleId :
358

Quant Time: Nov 27 23:16:05 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 27 13:17:45 2023
Response via : Initial Calibration

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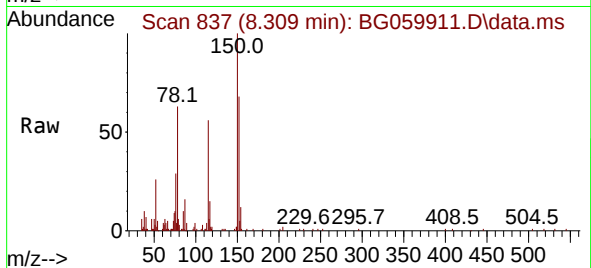
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.309 min Scan# 843
Delta R.T. -0.002 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

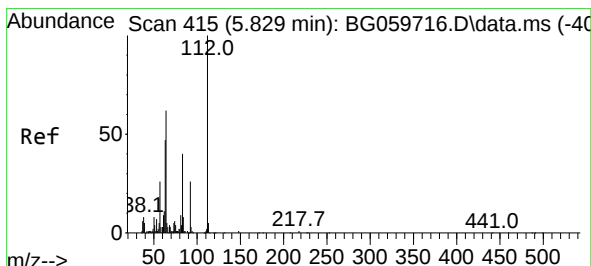
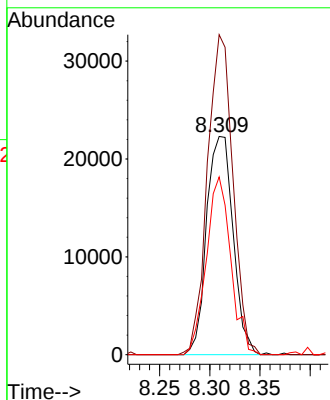
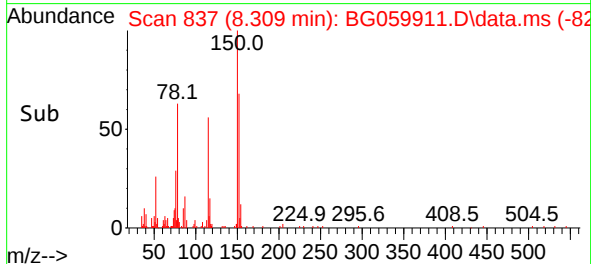
Instrument :
BNA_G
ClientSampleId :
358



Tgt Ion:152 Resp: 40930
Ion Ratio Lower Upper
152 100
150 146.6 122.2 183.4
115 81.5 54.2 81.4

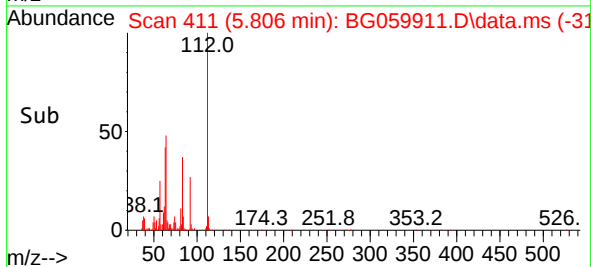
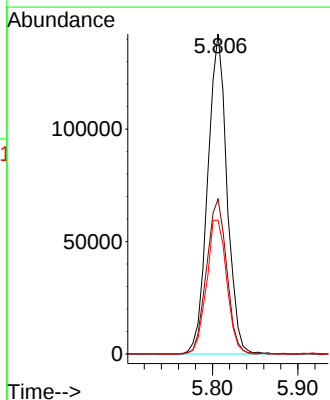
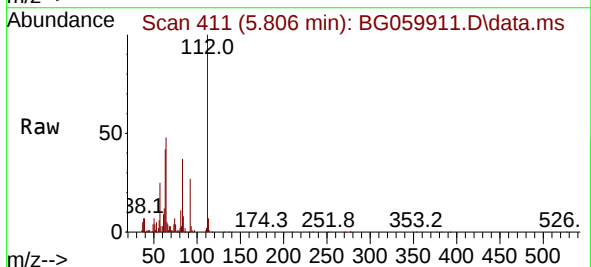
Manual Integrations
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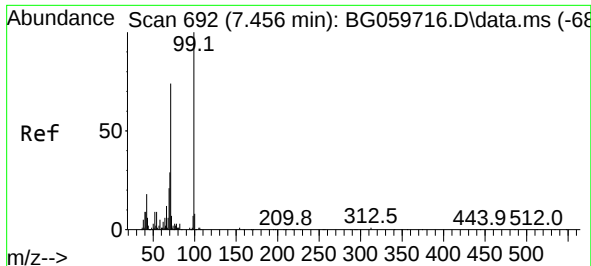
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#5
2-Fluorophenol
Concen: 92.015 ng
RT: 5.806 min Scan# 411
Delta R.T. 0.010 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

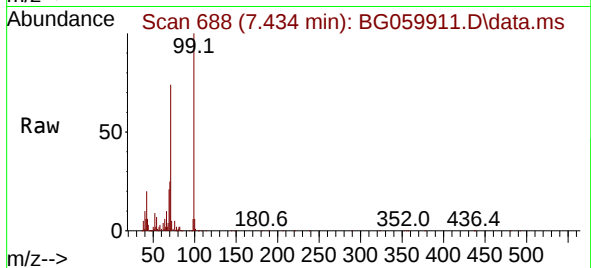
Tgt Ion:112 Resp: 223792
Ion Ratio Lower Upper
112 100
64 48.4 49.5 74.3#
63 41.8 37.4 56.2





#7
Phenol-d6
Concen: 88.399 ng
RT: 7.434 min Scan# 61
Delta R.T. 0.004 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

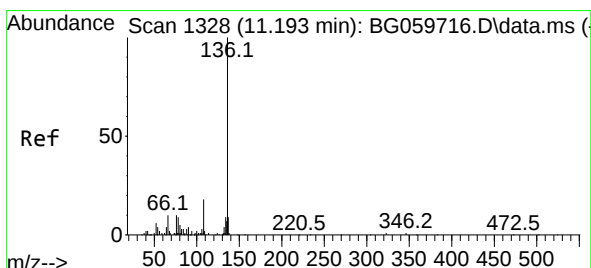
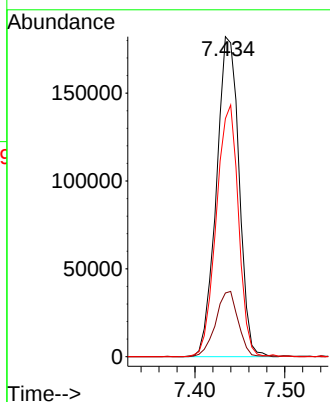
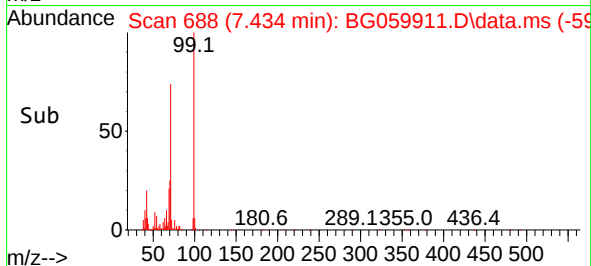
Instrument :
BNA_G
ClientSampleId :
358



Tgt Ion: 99 Resp: 318604
Ion Ratio Lower Upper
99 100
42 19.9 14.3 21.5
71 74.4 59.3 88.9

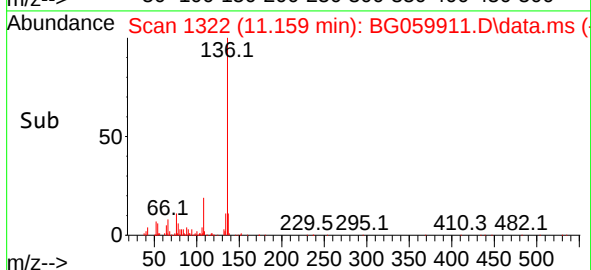
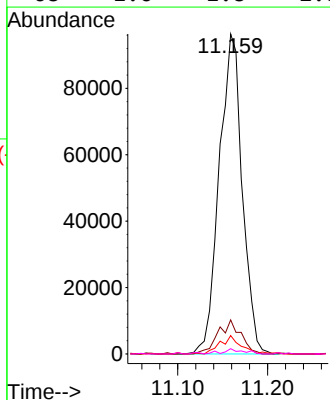
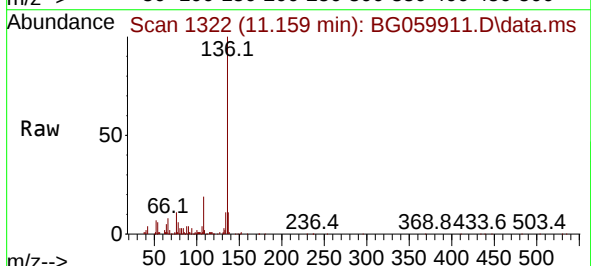
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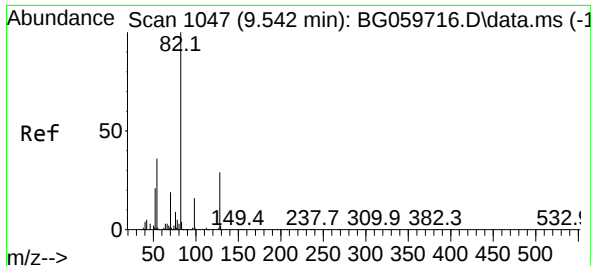
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.159 min Scan# 1322
Delta R.T. 0.004 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

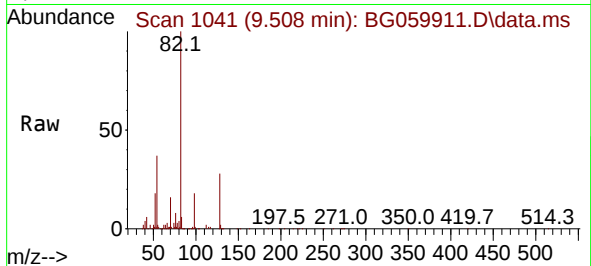
Tgt Ion:136 Resp: 171391
Ion Ratio Lower Upper
136 100
137 10.7 7.4 11.0
54 5.8 3.1 4.7#
68 1.6 1.8 2.8#





#23
Nitrobenzene-d5
Concen: 63.441 ng
RT: 9.508 min Scan# 1041
Delta R.T. -0.002 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

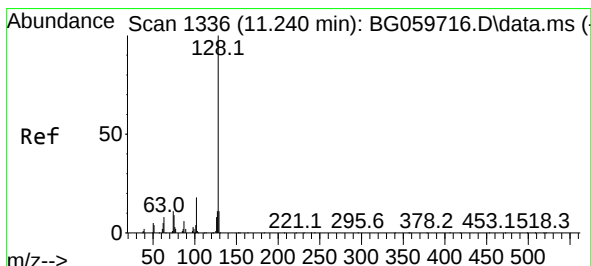
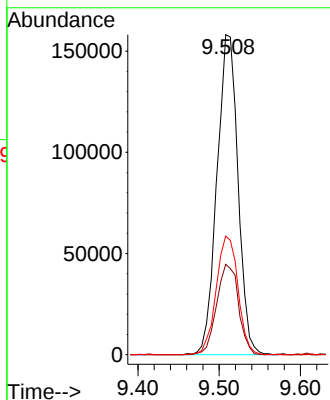
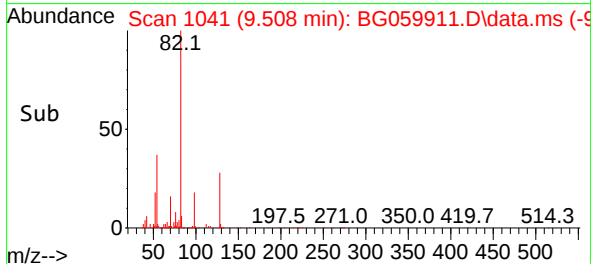
Instrument :
BNA_G
ClientSampleId :
358



Tgt Ion: 82 Resp: 284700
Ion Ratio Lower Upper
82 100
128 28.2 23.0 34.6
54 37.0 28.7 43.1

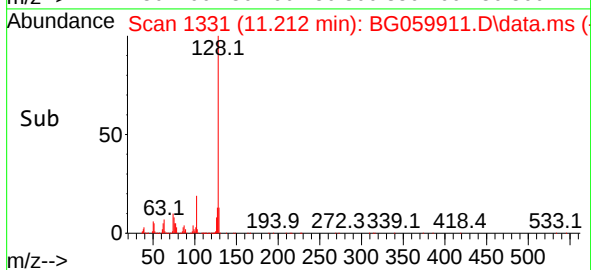
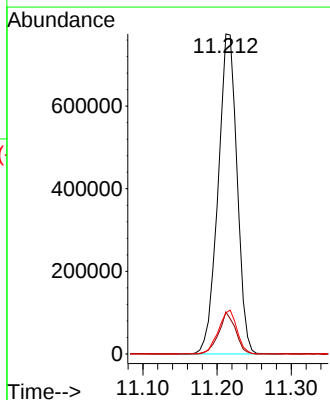
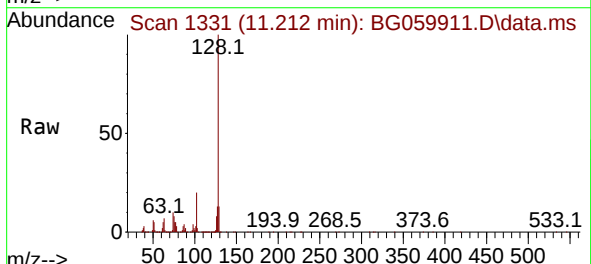
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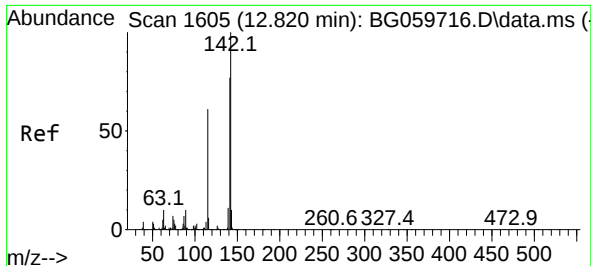
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#31
Naphthalene
Concen: 159.658 ng
RT: 11.212 min Scan# 1331
Delta R.T. 0.004 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

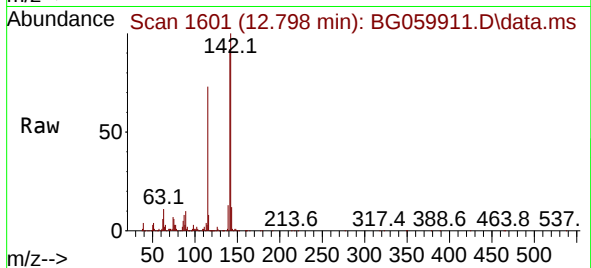
Tgt Ion:128 Resp: 1375972
Ion Ratio Lower Upper
128 100
129 13.1 8.7 13.1#
127 12.8 9.2 13.8





#37
2-Methylnaphthalene
Concen: 138.629 ng
RT: 12.798 min Scan# 1601
Delta R.T. 0.010 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

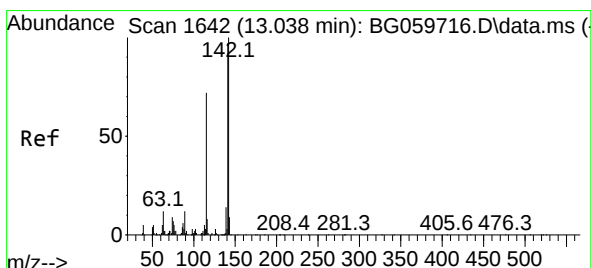
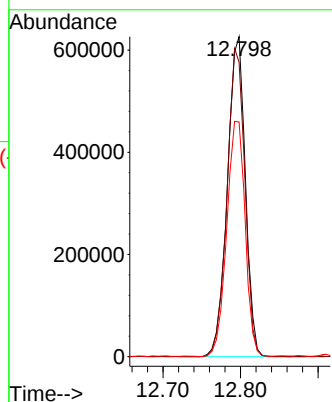
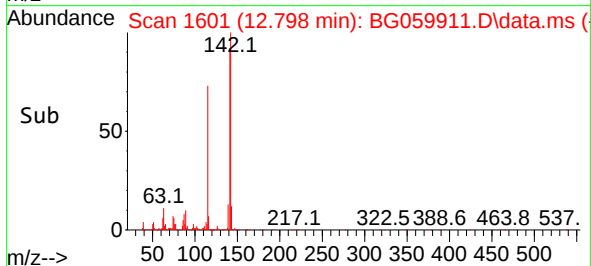
Instrument :
BNA_G
ClientSampleId :
358



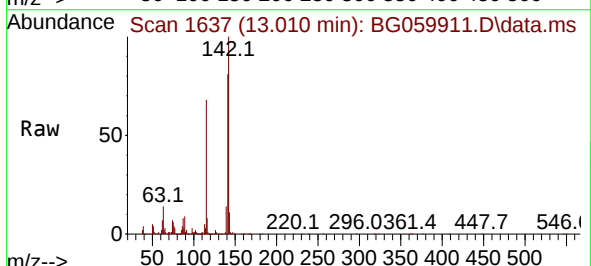
Tgt Ion:142 Resp: 100624
Ion Ratio Lower Upper
142 100
141 92.1 61.9 92.9
115 73.4 49.0 73.4

Manual Integrations
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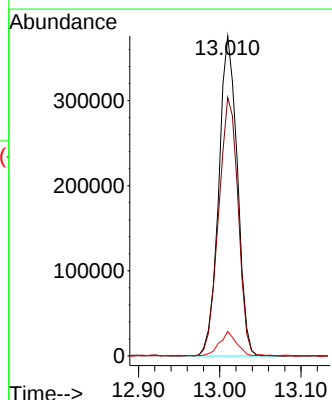
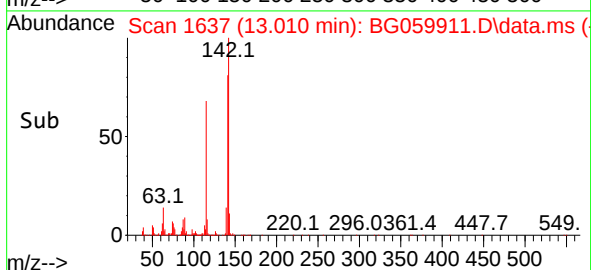
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023

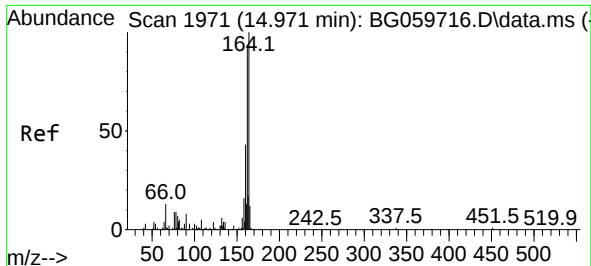


#38
1-Methylnaphthalene
Concen: 89.146 ng
RT: 13.010 min Scan# 1637
Delta R.T. 0.004 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54



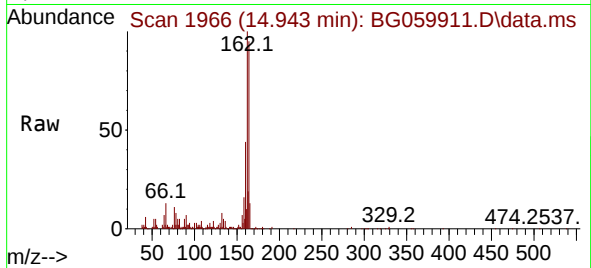
Tgt Ion:142 Resp: 596725
Ion Ratio Lower Upper
142 100
141 80.8 77.8 116.8
116 7.7 6.2 9.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.943 min Scan# 1971
Delta R.T. -0.002 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

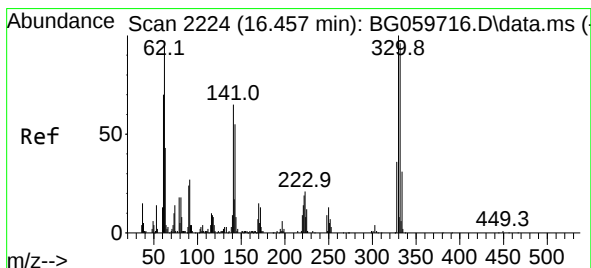
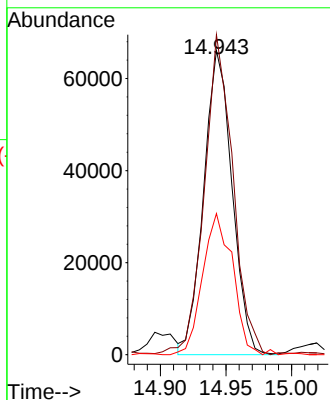
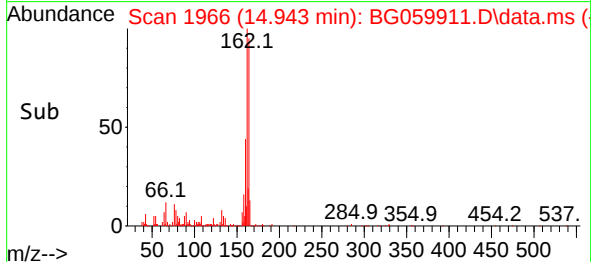
Instrument :
BNA_G
ClientSampleId :
358



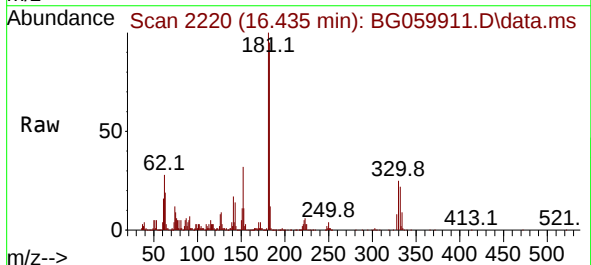
Tgt Ion:164 Resp: 9975
Ion Ratio Lower Upper
164 100
162 105.2 73.3 109.9
160 46.4 34.1 51.1

Manual Integrations
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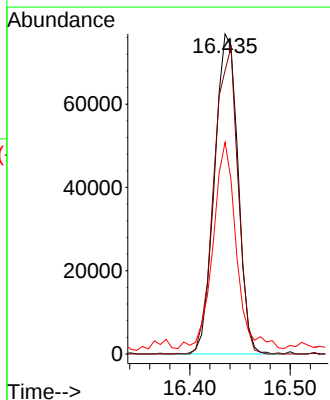
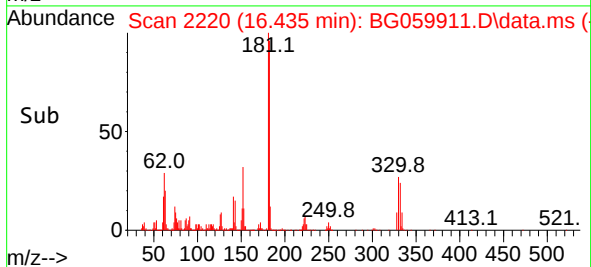
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023

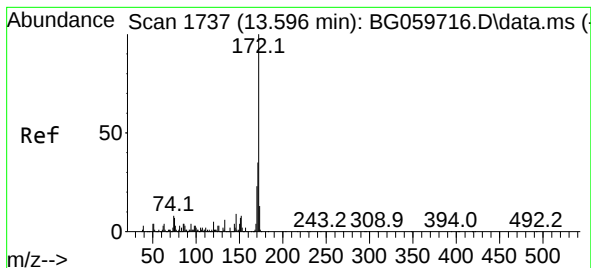


#42
2,4,6-Tribromophenol
Concen: 110.294 ng
RT: 16.435 min Scan# 2220
Delta R.T. 0.004 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54



Tgt Ion:330 Resp: 124831
Ion Ratio Lower Upper
330 100
332 97.2 73.3 109.9
141 65.9 52.1 78.1





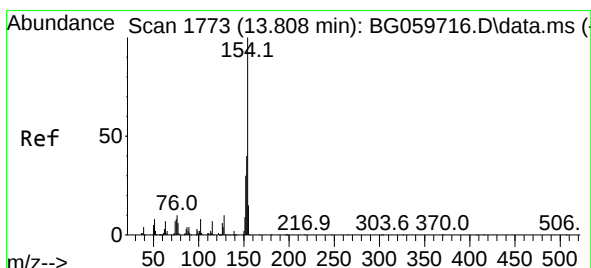
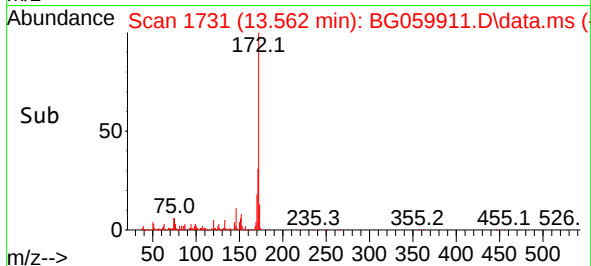
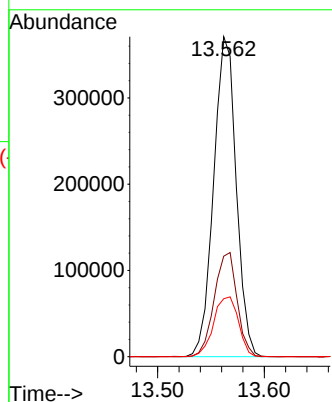
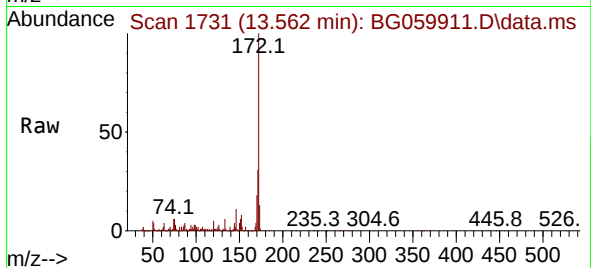
#45
2-Fluorobiphenyl
Concen: 73.434 ng
RT: 13.562 min Scan# 1731
Delta R.T. -0.002 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

Instrument :
BNA_G
ClientSampleId :
358

Tgt Ion:172 Resp: 544192
Ion Ratio Lower Upper
172 100
171 31.4 27.7 41.5
170 18.1 18.4 27.6

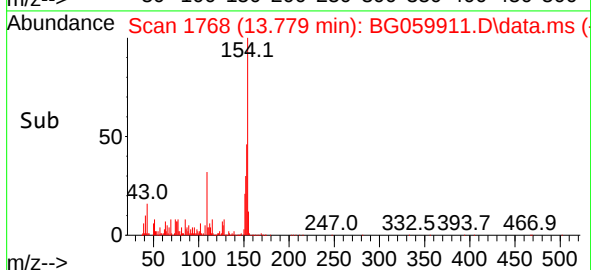
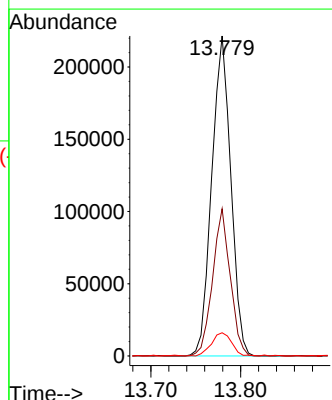
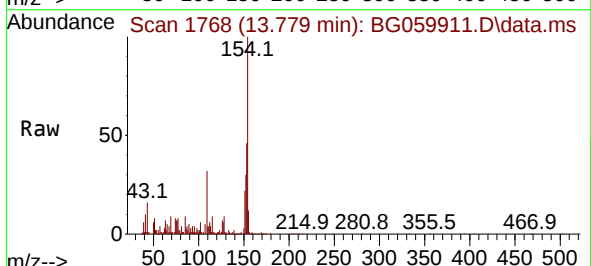
Manual Integrations
APPROVED

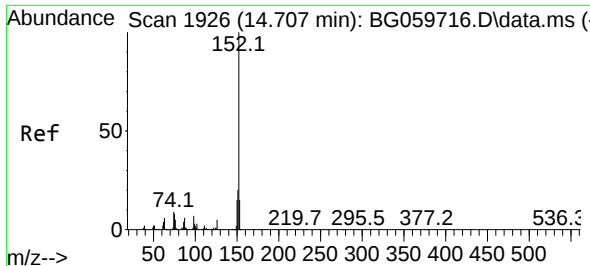
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#46
1,1'-Biphenyl
Concen: 41.651 ng
RT: 13.779 min Scan# 1768
Delta R.T. -0.002 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

Tgt Ion:154 Resp: 326109
Ion Ratio Lower Upper
154 100
153 46.0 19.7 59.7
76 7.3 0.0 30.4





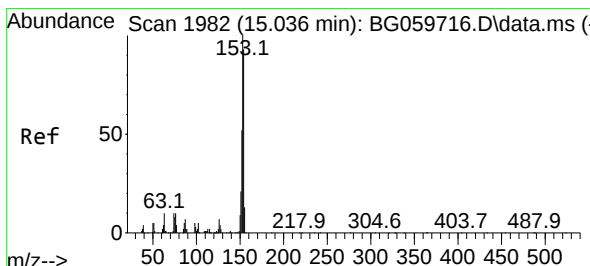
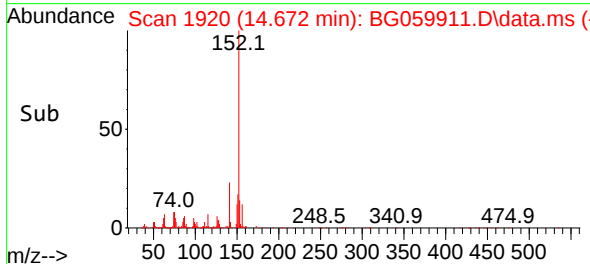
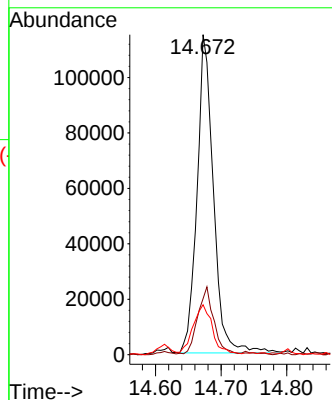
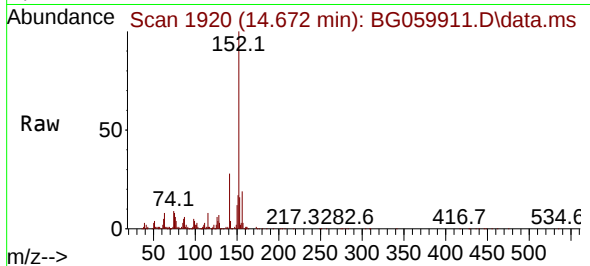
#49
Acenaphthylene
Concen: 21.865 ng
RT: 14.672 min Scan# 1920
Delta R.T. -0.002 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

Instrument :
BNA_G
ClientSampleId :
358

Tgt Ion:152 Resp: 200572
Ion Ratio Lower Upper
152 100
151 17.5 15.8 23.8
153 15.6 12.2 18.4

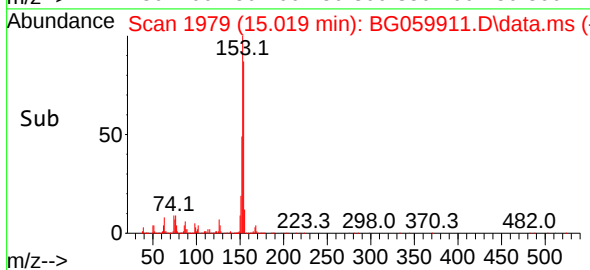
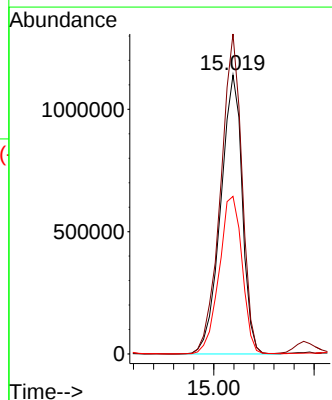
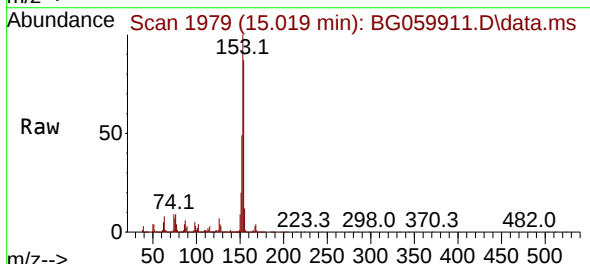
Manual Integrations
APPROVED

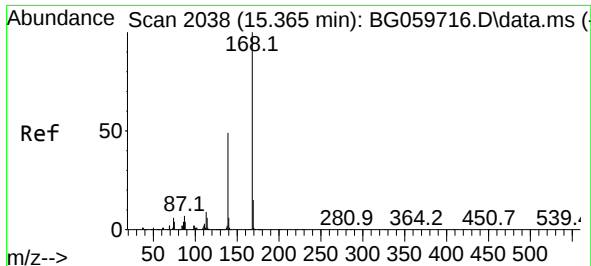
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#52
Acenaphthene
Concen: 308.036 ng
RT: 15.019 min Scan# 1979
Delta R.T. 0.010 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

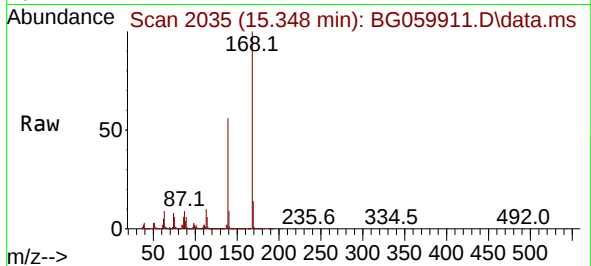
Tgt Ion:154 Resp: 1699376
Ion Ratio Lower Upper
154 100
153 114.7 85.8 128.8
152 56.5 44.4 66.6





#55
Dibenzenofuran
Concen: 216.325 ng
RT: 15.348 min Scan# 2035
Delta R.T. 0.010 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

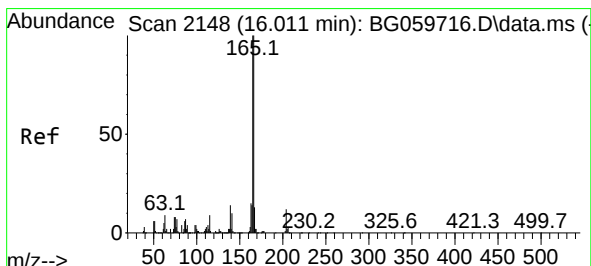
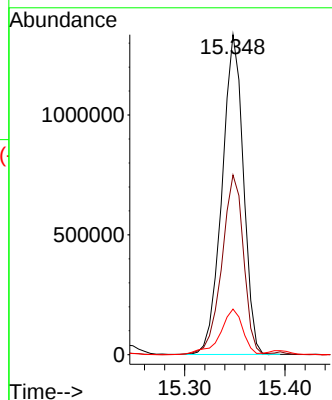
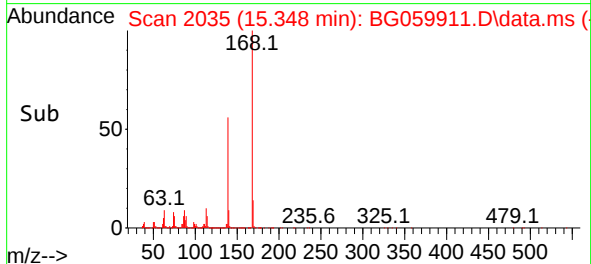
Instrument :
BNA_G
ClientSampleId :
358



Tgt Ion:168 Resp: 1967652
Ion Ratio Lower Upper
168 100
139 56.1 38.9 58.3
169 14.2 11.8 17.8

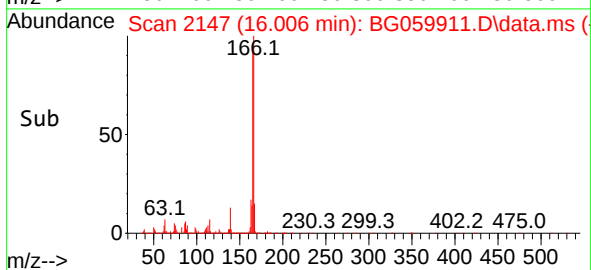
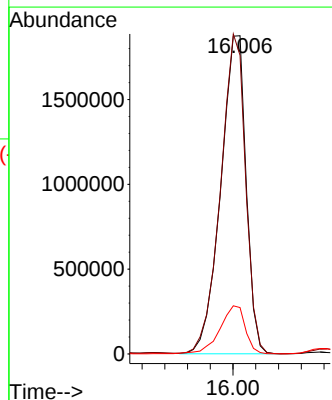
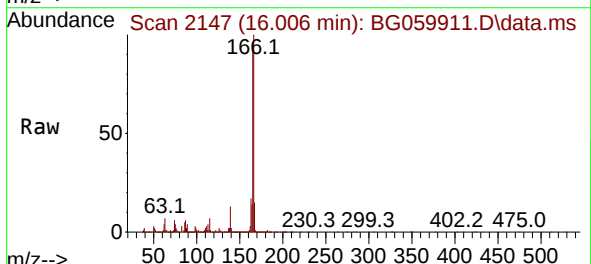
Manual Integrations
APPROVED

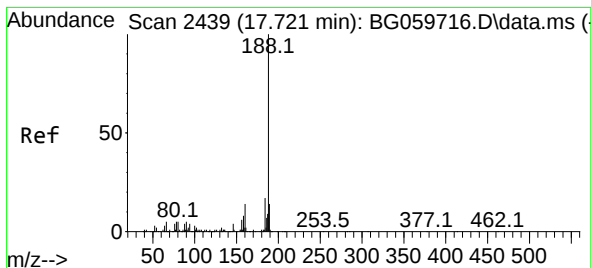
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#58
Fluorene
Concen: 384.162 ng
RT: 16.006 min Scan# 2147
Delta R.T. 0.016 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

Tgt Ion:166 Resp: 2903060
Ion Ratio Lower Upper
166 100
165 93.8 79.9 119.9
167 14.6 10.1 15.1





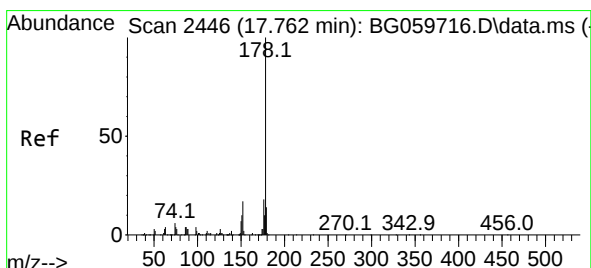
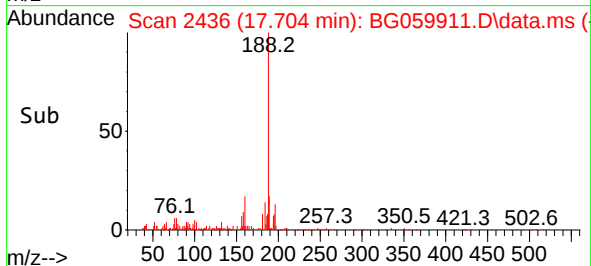
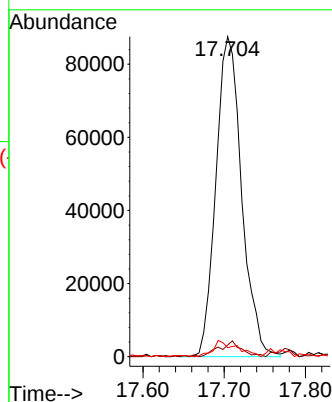
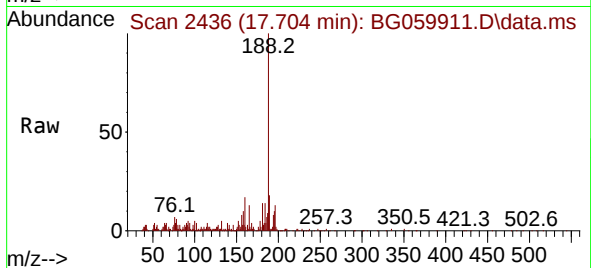
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.704 min Scan# 2439
Delta R.T. 0.010 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

Instrument :
BNA_G
ClientSampleId :
358

Tgt Ion:188 Resp: 192849
Ion Ratio Lower Upper
188 100
94 3.7 3.0 4.4
80 2.8 4.2 6.4

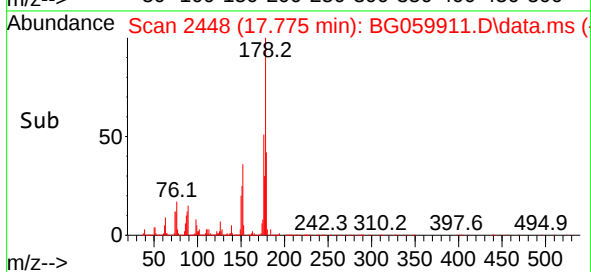
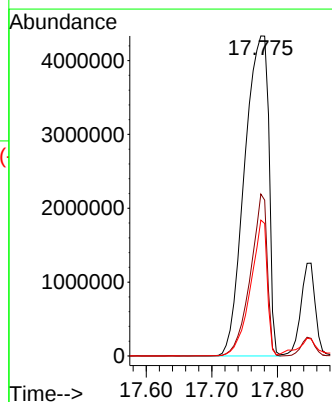
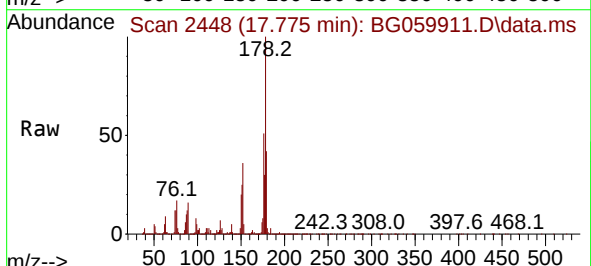
Manual Integrations
APPROVED

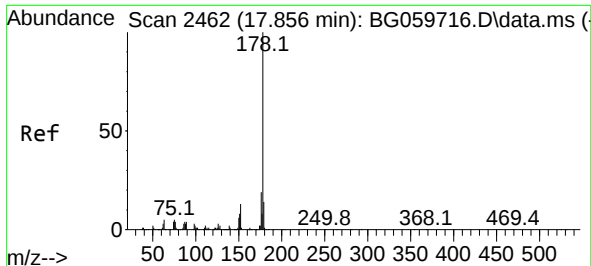
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#71
Phenanthrene
Concen: 1127.922 ng
RT: 17.775 min Scan# 2448
Delta R.T. 0.039 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

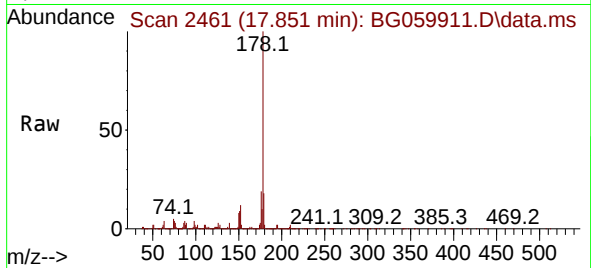
Tgt Ion:178 Resp:11059133
Ion Ratio Lower Upper
178 100
176 50.6 14.5 21.7#
179 42.5 11.2 16.8#





#72
 Anthracene
 Concen: 181.200 ng
 RT: 17.851 min Scan# 2462
 Delta R.T. 0.022 min
 Lab File: BG059911.D
 Acq: 27 Nov 2023 21:54

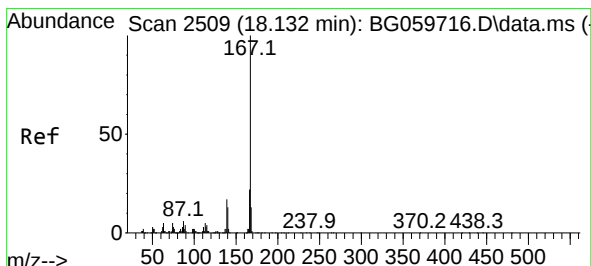
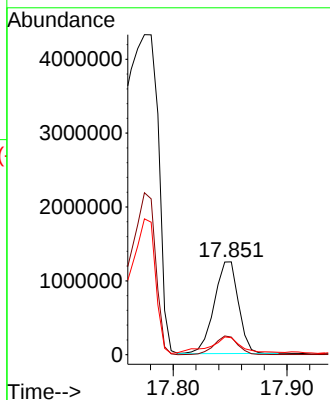
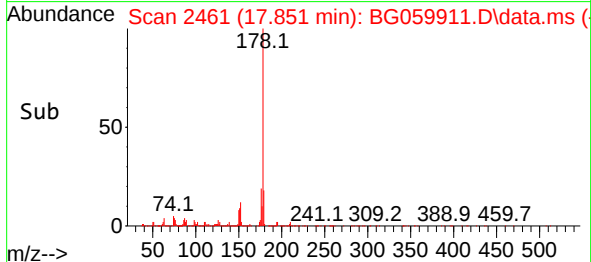
Instrument :
 BNA_G
 ClientSampleId :
 358



Tgt Ion:178 Resp: 184596
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.0 22.4
 179 18.4 11.5 17.3

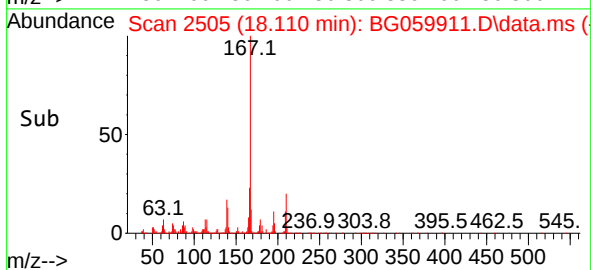
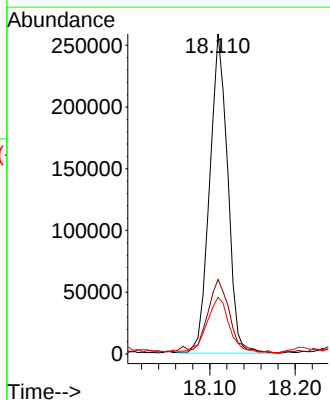
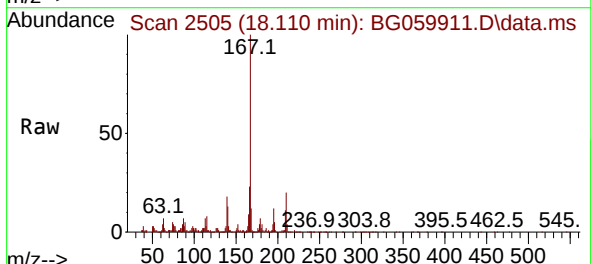
Manual Integrations
 APPROVED

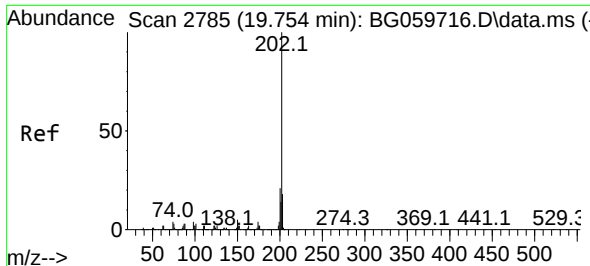
Reviewed By :Yogesh Patel 11/28/2023
 Supervised By :mohammad ahmed 11/28/2023



#73
 Carbazole
 Concen: 42.527 ng
 RT: 18.110 min Scan# 2505
 Delta R.T. 0.004 min
 Lab File: BG059911.D
 Acq: 27 Nov 2023 21:54

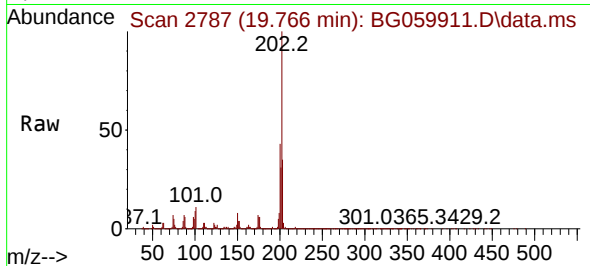
Tgt Ion:167 Resp: 378487
 Ion Ratio Lower Upper
 167 100
 166 23.3 17.4 26.0
 139 17.7 13.2 19.8





#75
Fluoranthene
Concen: 714.173 ng
RT: 19.766 min Scan# 21
Delta R.T. 0.039 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

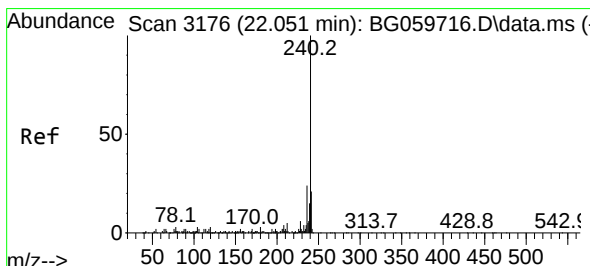
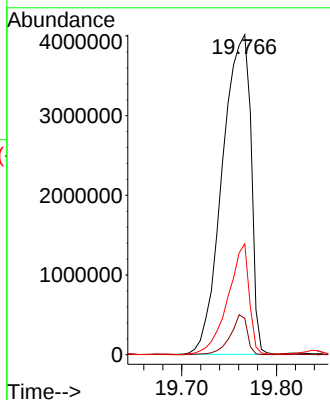
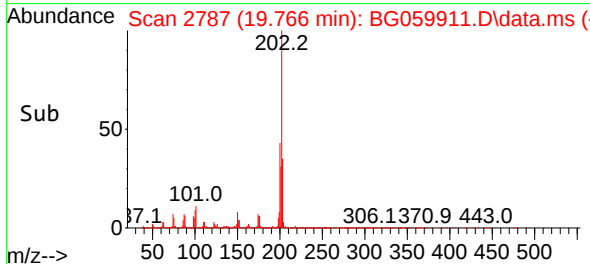
Instrument :
BNA_G
ClientSampleId :
358



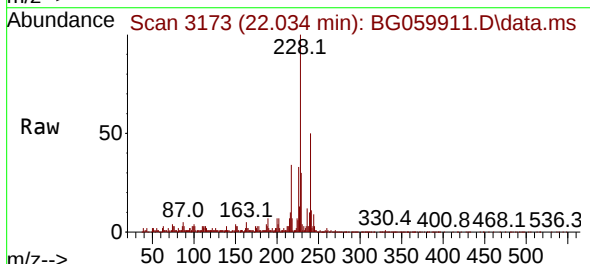
Tgt Ion:202 Resp: 839750
Ion Ratio Lower Upper
202 100
101 11.4 0.0 22.7
203 34.6 0.0 38.2

Manual Integrations
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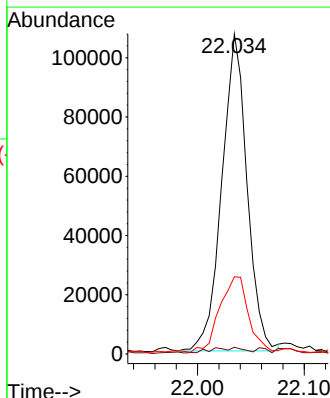
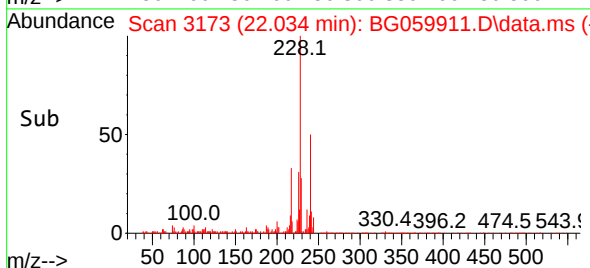
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023

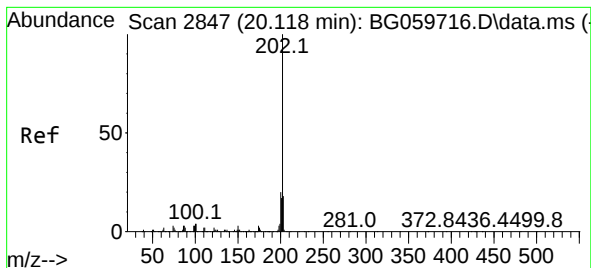


#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.034 min Scan# 3173
Delta R.T. 0.016 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54



Tgt Ion:240 Resp: 175727
Ion Ratio Lower Upper
240 100
120 2.1 2.2 3.2#
236 24.1 19.4 29.2





#78

Pyrene

Concen: 525.983 ng

RT: 20.125 min Scan# 2

Delta R.T. 0.028 min

Lab File: BG059911.D

Acq: 27 Nov 2023 21:54

Instrument :

BNA_G

ClientSampleId :

358

Tgt Ion:202 Resp: 628884

Ion Ratio Lower Upper

202 100

200 33.8 16.2 24.4

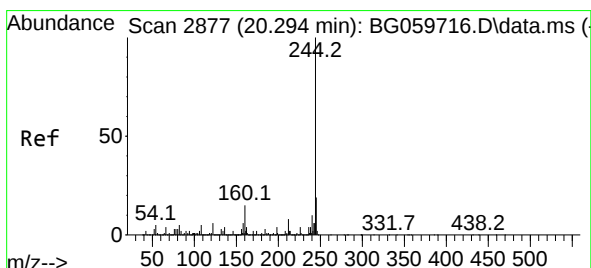
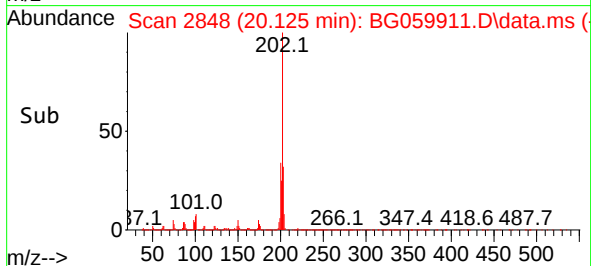
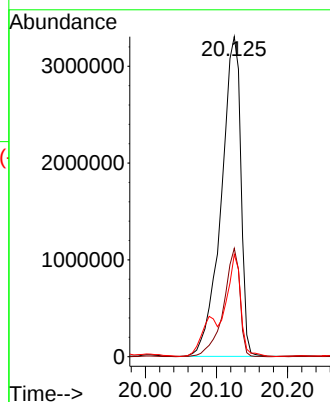
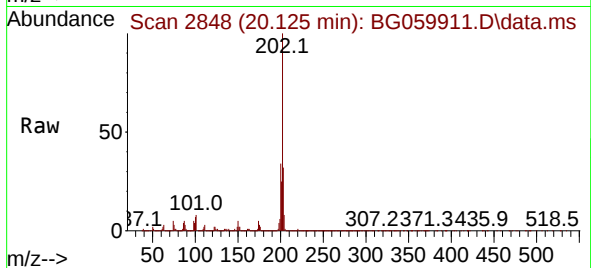
203 32.0 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/28/2023

Supervised By :mohammad ahmed 11/28/2023



#79

Terphenyl-d14

Concen: 63.205 ng

RT: 20.272 min Scan# 2873

Delta R.T. 0.004 min

Lab File: BG059911.D

Acq: 27 Nov 2023 21:54

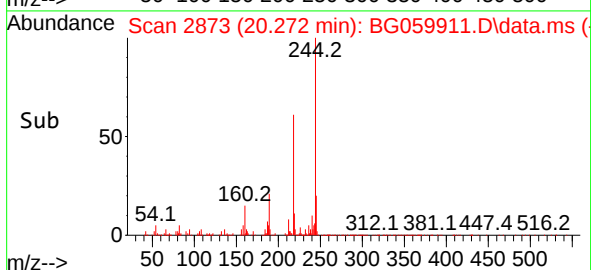
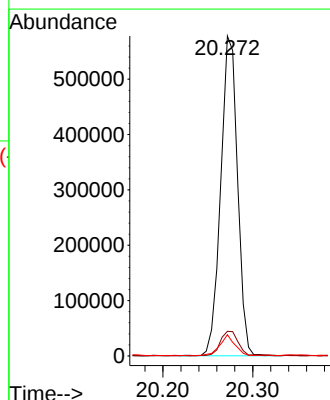
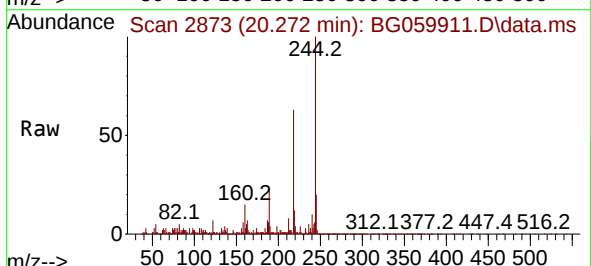
Tgt Ion:244 Resp: 752366

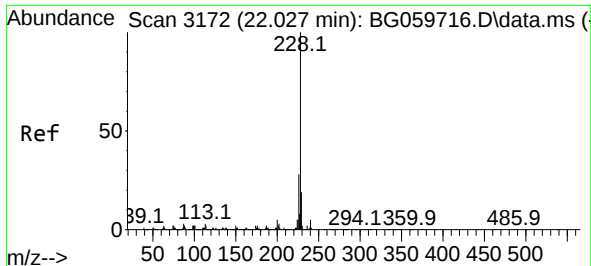
Ion Ratio Lower Upper

244 100

212 7.7 6.6 10.0

122 6.6 4.4 6.6





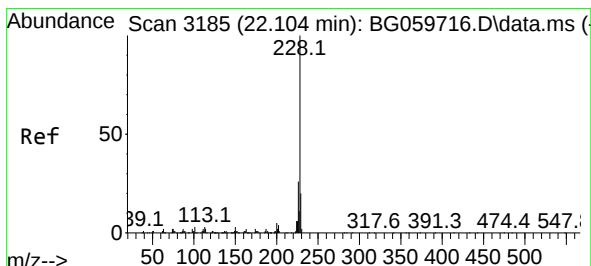
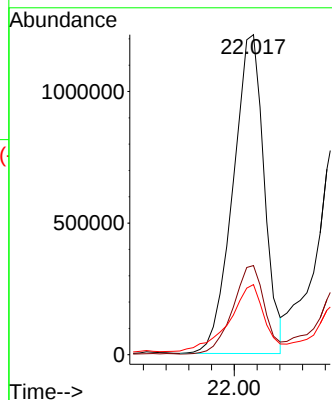
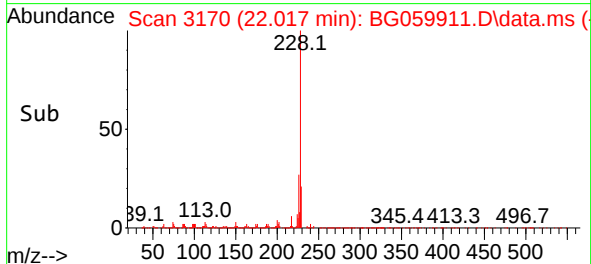
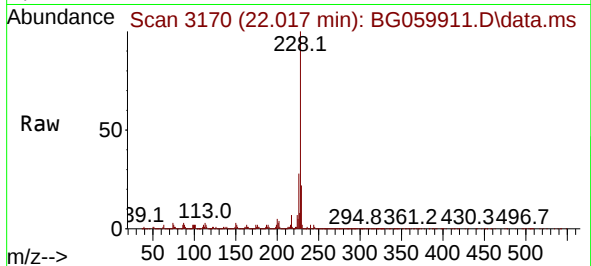
#81
Benzo(a)anthracene
Concen: 192.243 ng
RT: 22.017 min Scan# 3170
Delta R.T. 0.022 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

Instrument :
BNA_G
ClientSampleId :
358

Tgt Ion:228 Resp: 231147
Ion Ratio Lower Upper
228 100
226 27.9 22.1 33.1
229 21.9 14.9 22.3

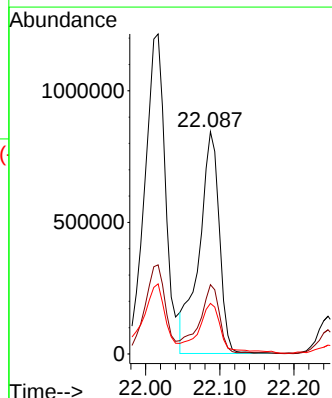
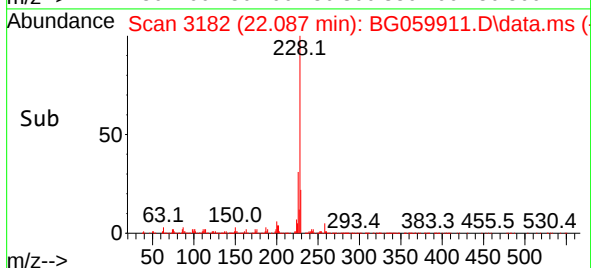
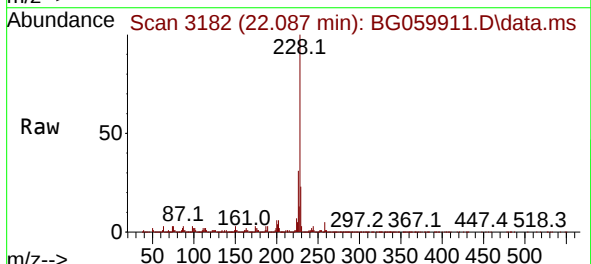
Manual Integrations
APPROVED

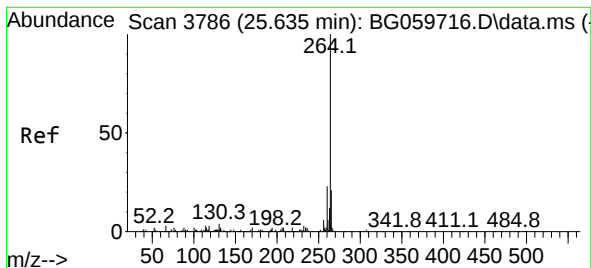
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#83
Chrysene
Concen: 144.790 ng
RT: 22.087 min Scan# 3182
Delta R.T. 0.022 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

Tgt Ion:228 Resp: 1595883
Ion Ratio Lower Upper
228 100
226 31.2 21.1 31.7
229 22.8 16.2 24.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.601 min Scan# 31

Delta R.T. 0.022 min

Lab File: BG059911.D

Acq: 27 Nov 2023 21:54

Instrument :

BNA_G

ClientSampleId :

358

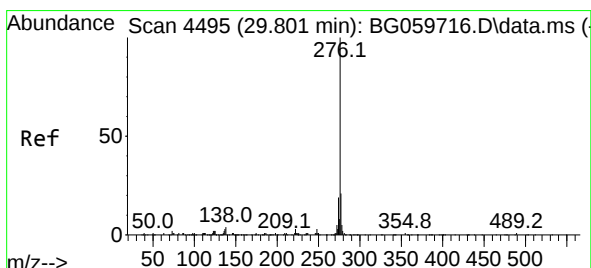
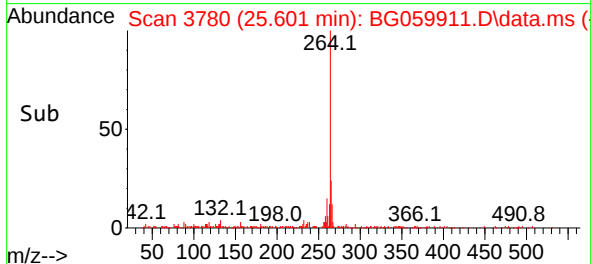
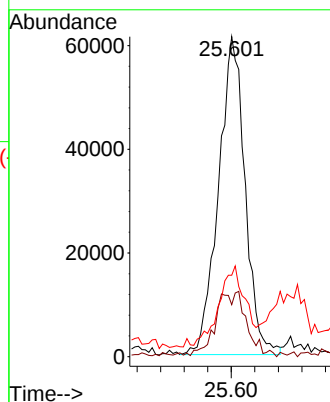
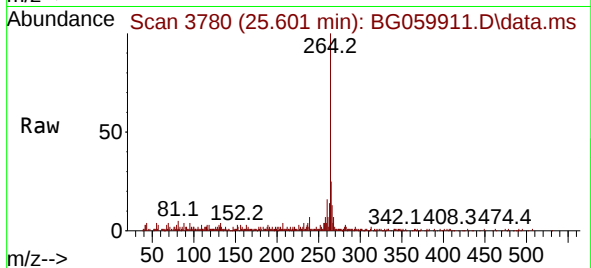
Tgt Ion:	264	Resp:	192708
Ion Ratio	Lower	Upper	
264	100		
260	16.3	18.5	27.7
265	25.5	17.0	25.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/28/2023

Supervised By :mohammad ahmed 11/28/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 20.634 ng

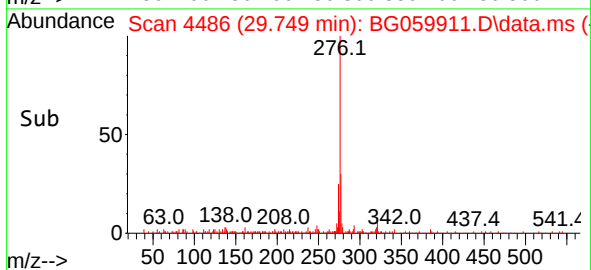
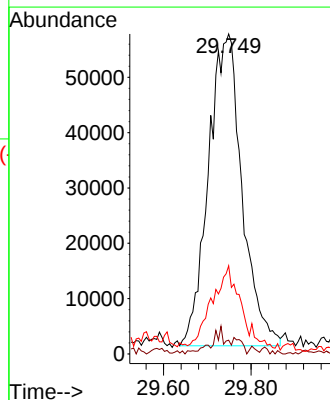
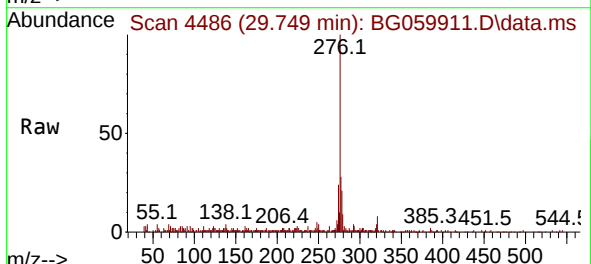
RT: 29.749 min Scan# 4486

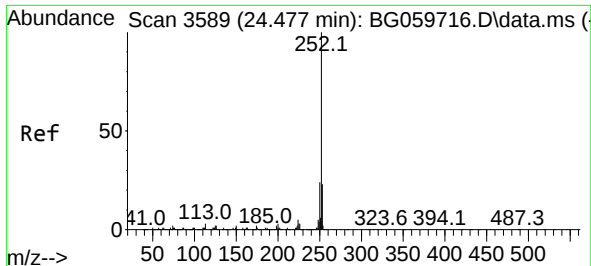
Delta R.T. 0.034 min

Lab File: BG059911.D

Acq: 27 Nov 2023 21:54

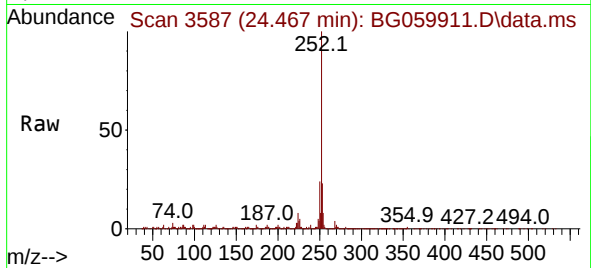
Tgt Ion:	276	Resp:	300876
Ion Ratio	Lower	Upper	
276	100		
138	1.4	1.8	2.6
277	22.6	9.8	14.6





#88
Benzo(b)fluoranthene
Concen: 131.606 ng
RT: 24.467 min Scan# 3589
Delta R.T. 0.045 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

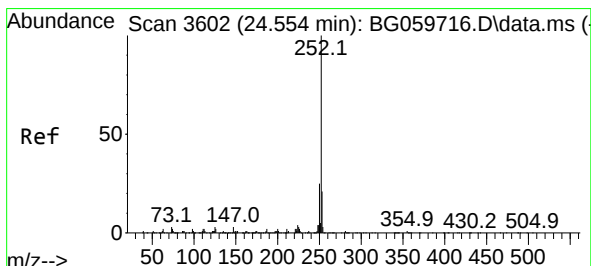
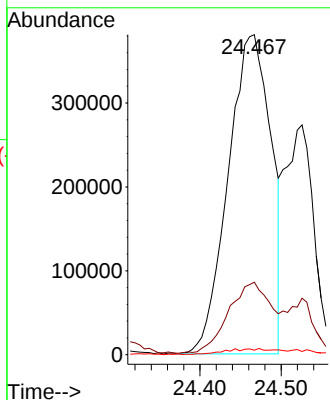
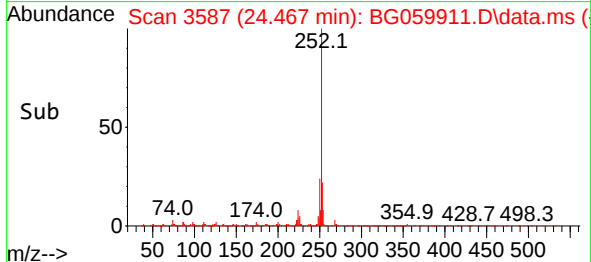
Instrument :
BNA_G
ClientSampleId :
358



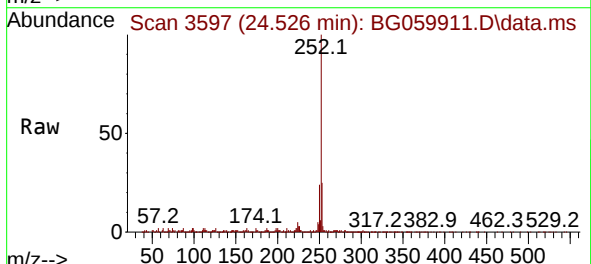
Tgt Ion:252 Resp: 1390050
Ion Ratio Lower Upper
252 100
253 22.7 18.3 27.5
125 1.4 1.4 2.0

Manual Integrations
APPROVED

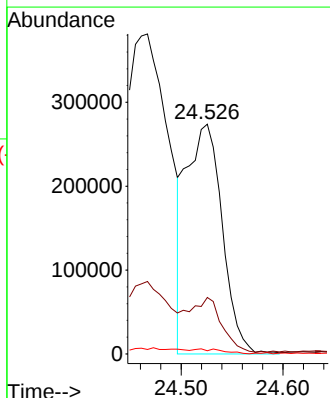
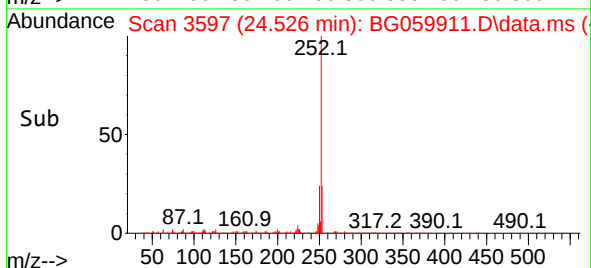
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023

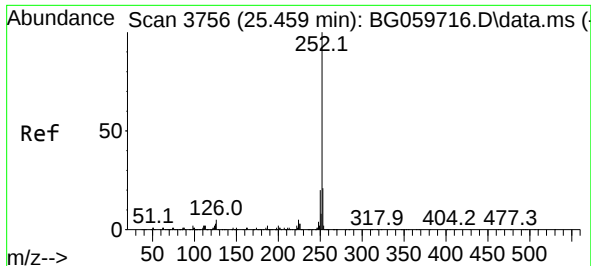


#89
Benzo(k)fluoranthene
Concen: 64.605 ng m
RT: 24.526 min Scan# 3597
Delta R.T. 0.022 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54



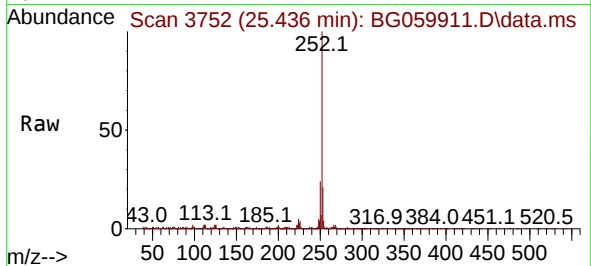
Tgt Ion:252 Resp: 674615
Ion Ratio Lower Upper
252 100
253 24.6 17.1 25.7
125 1.4 2.2 3.2#





#90
Benzo(a)pyrene
Concen: 76.013 ng
RT: 25.436 min Scan# 31
Delta R.T. 0.022 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

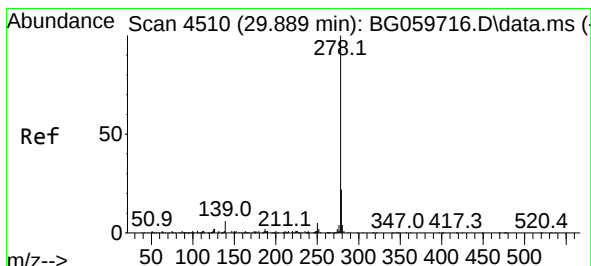
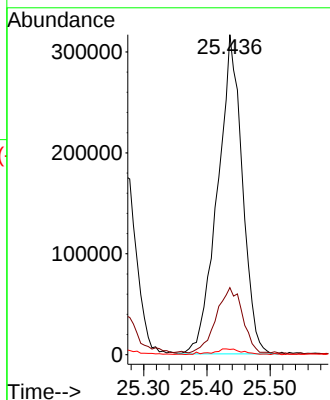
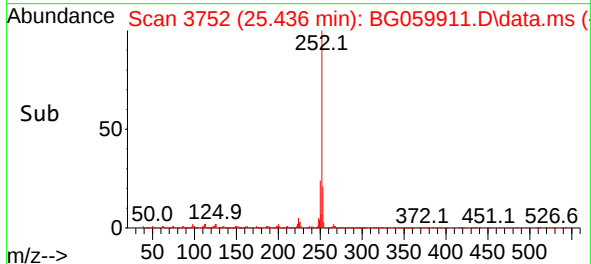
Instrument :
BNA_G
ClientSampleId :
358



Tgt Ion:252 Resp: 85684
Ion Ratio Lower Upper
252 100
253 20.9 16.8 25.2
125 1.7 2.0 3.0

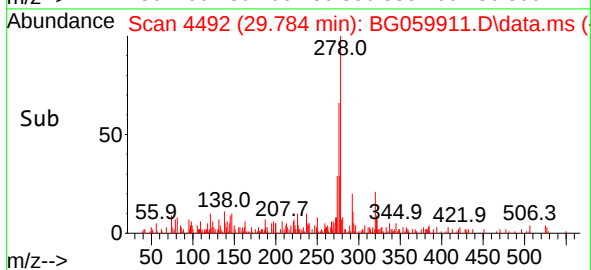
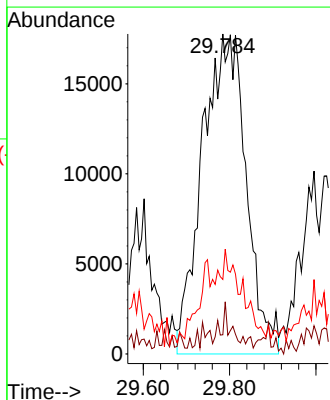
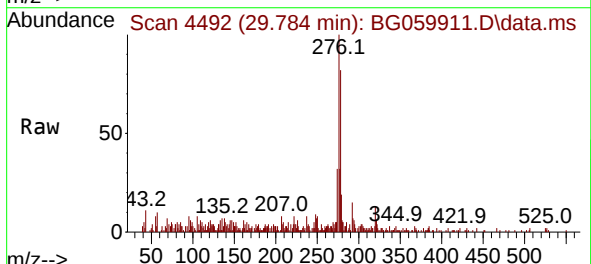
Manual Integrations
APPROVED

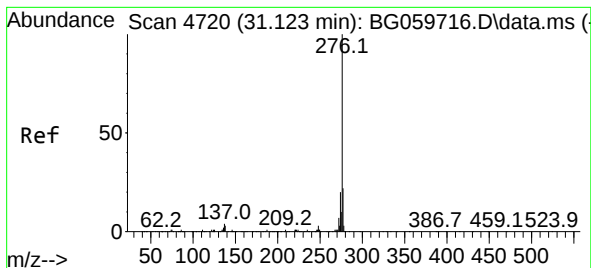
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#91
Dibenzo(a,h)anthracene
Concen: 10.161 ng m
RT: 29.784 min Scan# 4492
Delta R.T. -0.019 min
Lab File: BG059911.D
Acq: 27 Nov 2023 21:54

Tgt Ion:278 Resp: 125355
Ion Ratio Lower Upper
278 100
139 6.0 4.6 7.0
279 23.3 17.4 26.0





#92

Benzo(g,h,i)perylene

Concen: 18.952 ng

RT: 31.071 min Scan# 41

Delta R.T. 0.034 min

Lab File: BG059911.D

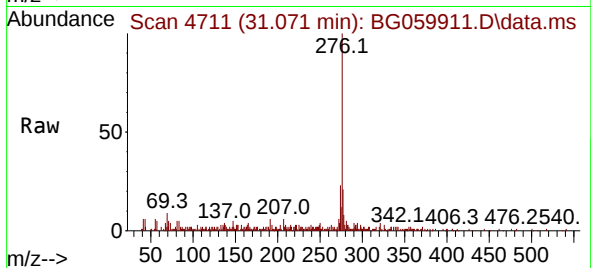
Acq: 27 Nov 2023 21:54

Instrument :

BNA_G

ClientSampleId :

358



Tgt Ion:276 Resp: 221850

Ion Ratio Lower Upper

276 100

277 21.3 17.3 25.9

138 2.8 2.6 4.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/28/2023

Supervised By :mohammad ahmed 11/28/2023

