

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG112723\
 Data File : BG059910.D
 Acq On : 27 Nov 2023 21:13
 Operator : MA/JU
 Sample : 05504-02
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 281

Manual Integrations
 APPROVED

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

Quant Time: Nov 27 23:15:36 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	8.310	152	30177	20.000	ng	0.00
21) Naphthalene-d8	11.160	136	150392	20.000	ng	0.00
39) Acenaphthene-d10	14.944	164	95441	20.000	ng	0.00
64) Phenanthrene-d10	17.694	188	175930	20.000	ng	# 0.00
76) Chrysene-d12	22.012	240	131363	20.000	ng	# 0.00
86) Perylene-d12	25.584	264	157987	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.802	112	175809	98.058	ng	0.00
7) Phenol-d6	7.435	99	257123	96.775	ng	0.00
23) Nitrobenzene-d5	9.509	82	203408	51.655	ng	0.00
42) 2,4,6-Tribromophenol	16.430	330	104369	96.380	ng	0.00
45) 2-Fluorobiphenyl	13.563	172	415457	58.594	ng	0.00
79) Terphenyl-d14	20.267	244	456173	51.264	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.213	128	57530	7.607	ng	# 94
37) 2-Methylnaphthalene	12.788	142	49728	7.808	ng	90
38) 1-Methylnaphthalene	12.999	142	27443	4.672	ng	# 81
49) Acenaphthylene	14.674	152	20589	2.346	ng	# 93
52) Acenaphthene	15.009	154	50149	9.501	ng	86
55) Dibenzofuran	15.338	168	81192	9.329	ng	89
58) Fluorene	15.984	166	101834	14.084	ng	# 92
71) Phenanthrene	17.741	178	676006	75.576	ng	99
72) Anthracene	17.829	178	114235	12.292	ng	97
73) Carbazole	18.099	167	44062	5.427	ng	97
75) Fluoranthene	19.732	202	778476	72.573	ng	99
78) Pyrene	20.097	202	594621	66.528	ng	99
81) Benzo(a)anthracene	21.994	228	209242	23.280	ng	97
83) Chrysene	22.065	228	252709	30.671	ng	94
87) Indeno(1,2,3-cd)pyrene	29.715	276	107625	9.003	ng	# 73
88) Benzo(b)fluoranthene	24.427	252	283083	32.692	ng	# 96
89) Benzo(k)fluoranthene	24.497	252	100259m	11.712	ng	
90) Benzo(a)pyrene	25.414	252	159240	17.231	ng	99
91) Dibenzo(a,h)anthracene	29.779	278	34546m	3.416	ng	
92) Benzo(g,h,i)perylene	31.031	276	101268m	10.553	ng	

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

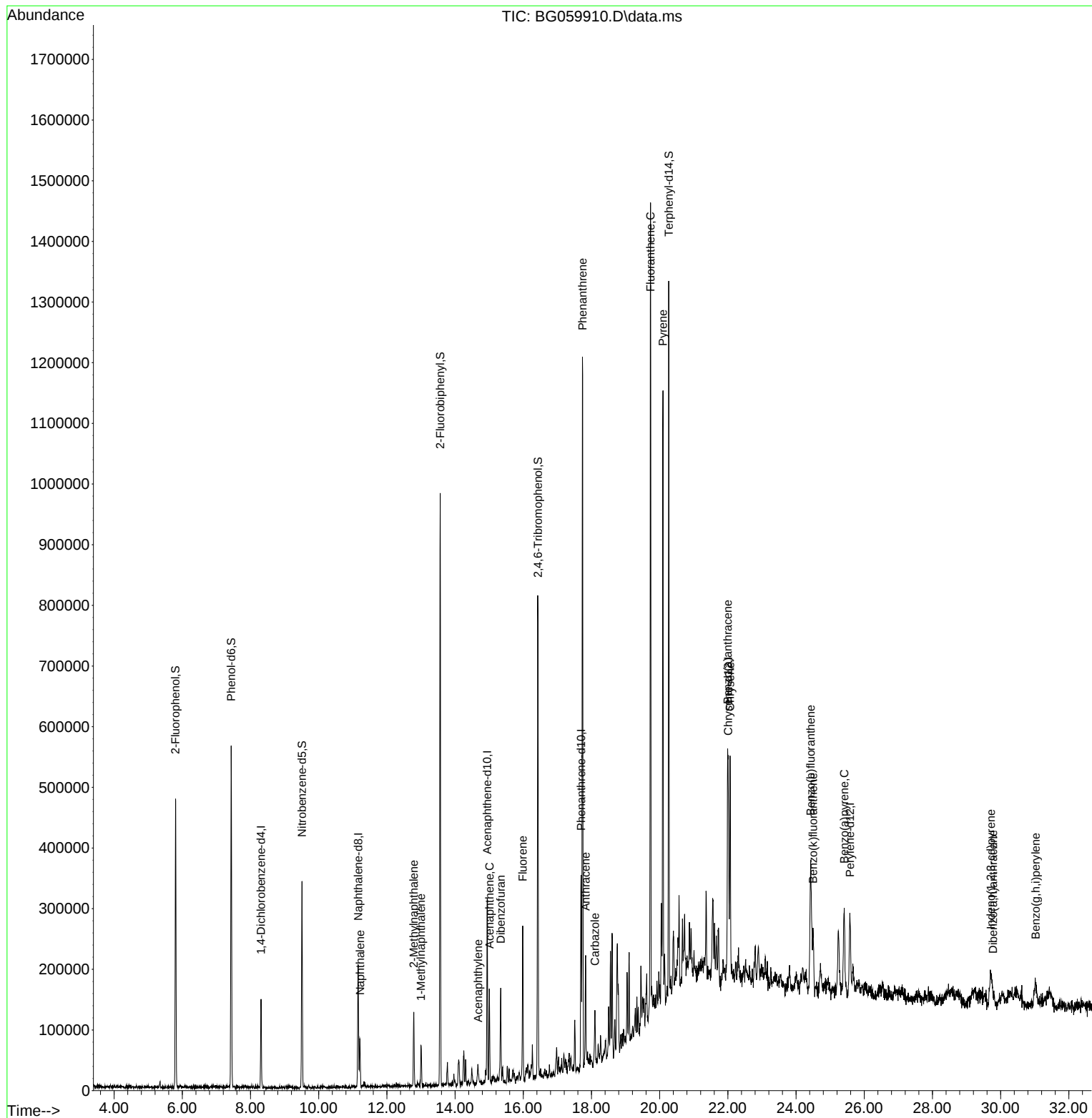
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG112723\
Data File : BG059910.D
Acq On : 27 Nov 2023 21:13
Operator : MA/JU
Sample : 05504-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

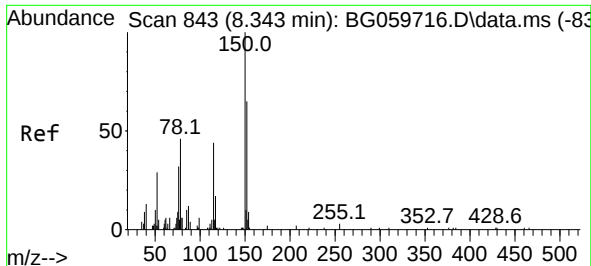
Instrument :
BNA_G
ClientSampleId :
281

Manual Integrations
APPROVED

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

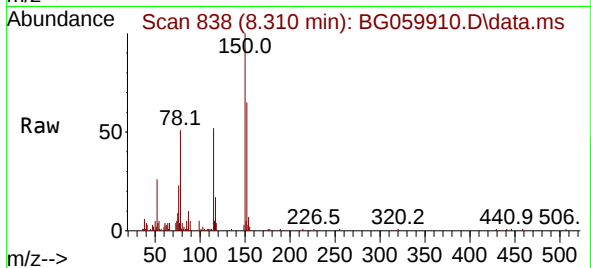
Quant Time: Nov 27 23:15:36 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG11623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 27 13:17:45 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.310 min Scan# 81
Delta R.T. -0.001 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

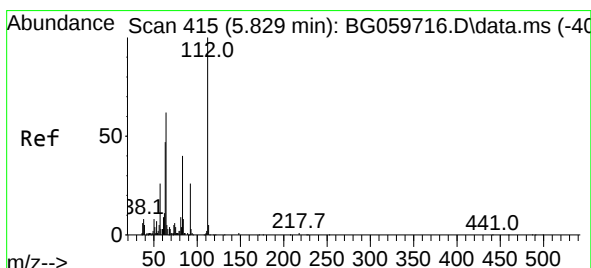
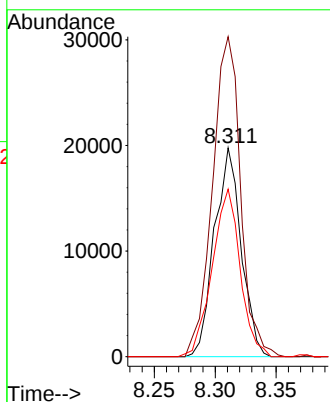
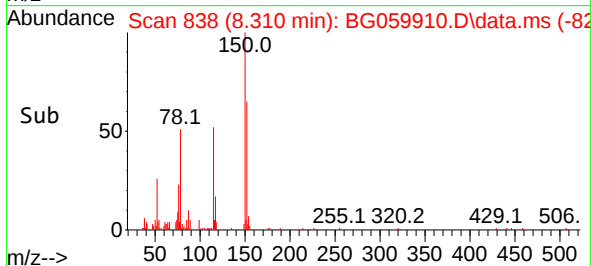
Instrument :
BNA_G
ClientSampleId :
281



Tgt Ion:152 Resp: 3017
Ion Ratio Lower Upper
152 100
150 153.2 122.2 183.4
115 80.2 54.2 81.4

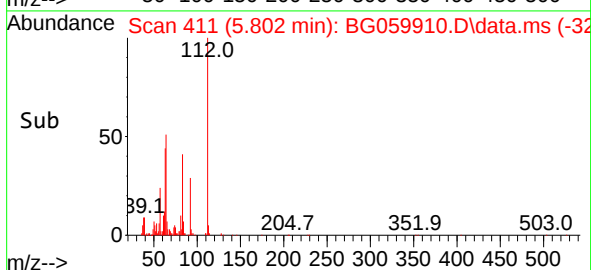
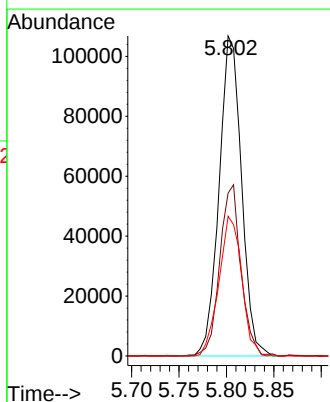
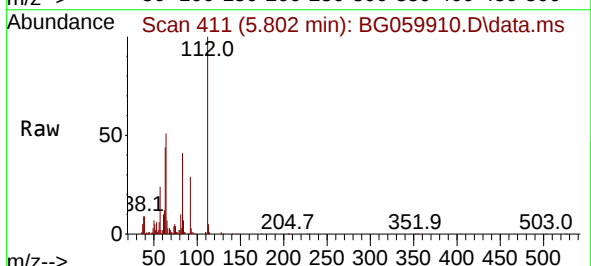
Manual Integrations
APPROVED

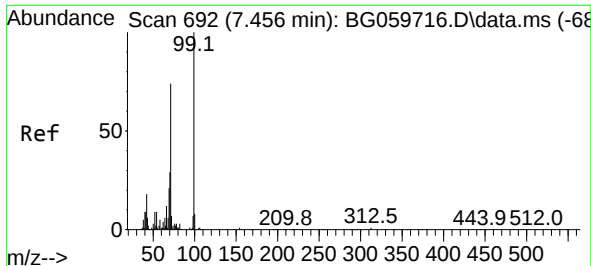
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#5
2-Fluorophenol
Concen: 98.058 ng
RT: 5.802 min Scan# 411
Delta R.T. 0.005 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

Tgt Ion:112 Resp: 175809
Ion Ratio Lower Upper
112 100
64 50.9 49.5 74.3
63 43.6 37.4 56.2





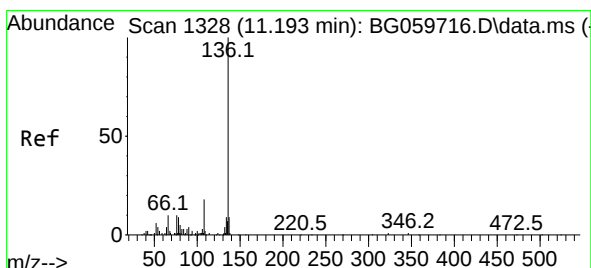
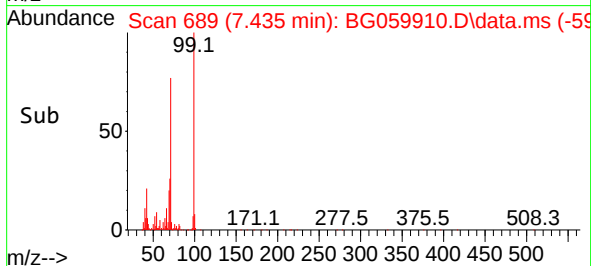
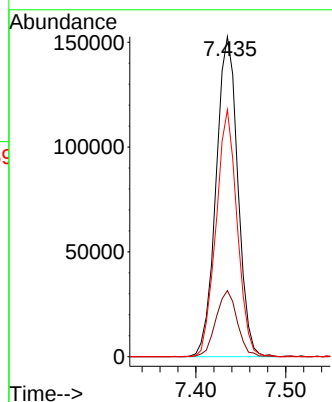
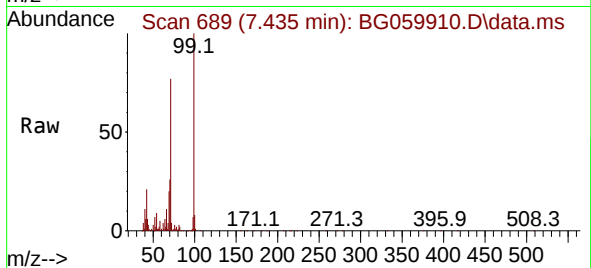
#7
Phenol-d6
Concen: 96.775 ng
RT: 7.435 min Scan# 60
Delta R.T. 0.005 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

Instrument :
BNA_G
ClientSampleId :
281

Tgt Ion: 99 Resp: 25712
Ion Ratio Lower Upper
99 100
42 20.6 14.3 21.5
71 77.1 59.3 88.9

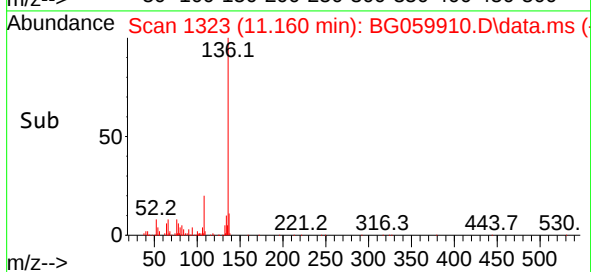
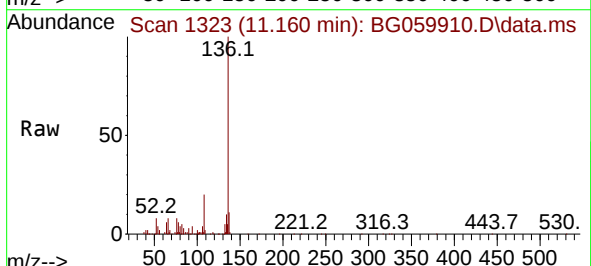
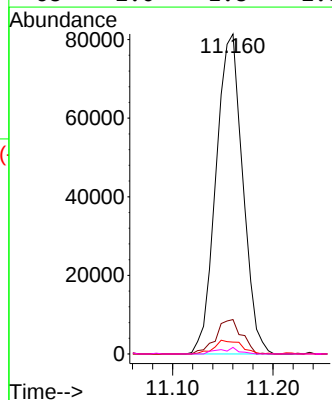
Manual Integrations
APPROVED

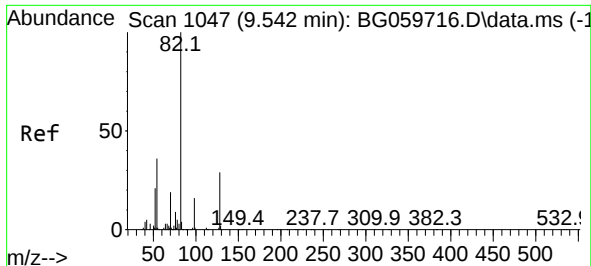
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.160 min Scan# 1323
Delta R.T. 0.005 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

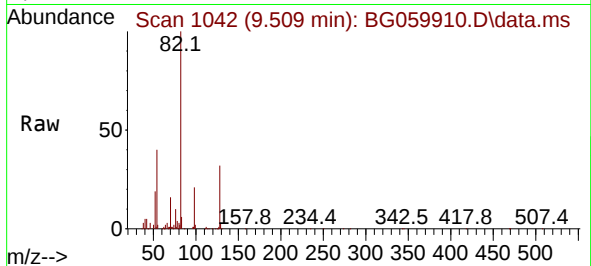
Tgt Ion:136 Resp: 150392
Ion Ratio Lower Upper
136 100
137 10.8 7.4 11.0
54 3.7 3.1 4.7
68 2.0 1.8 2.8





#23
Nitrobenzene-d5
Concen: 51.655 ng
RT: 9.509 min Scan# 1042
Delta R.T. -0.001 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

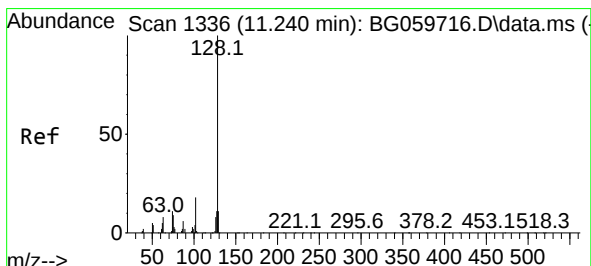
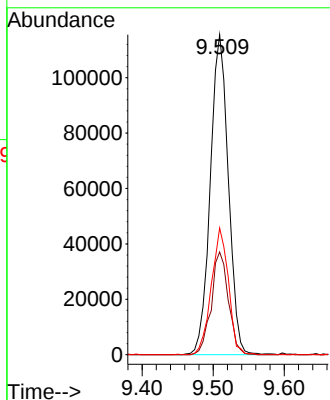
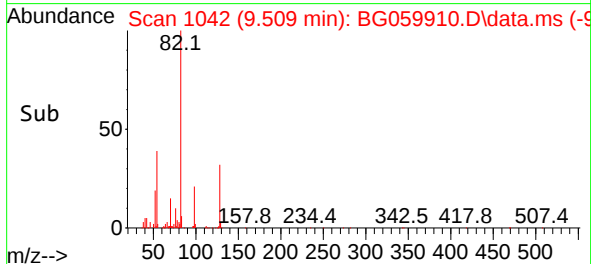
Instrument :
BNA_G
ClientSampleId :
281



Tgt Ion: 82 Resp: 203408
Ion Ratio Lower Upper
82 100
128 32.1 23.0 34.6
54 39.6 28.7 43.1

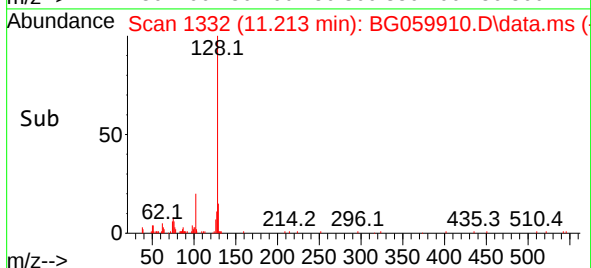
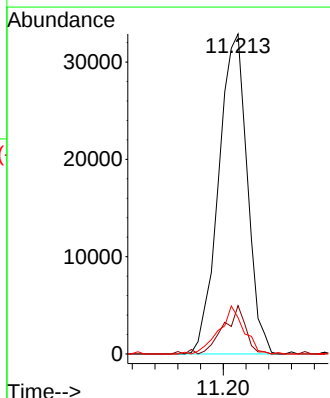
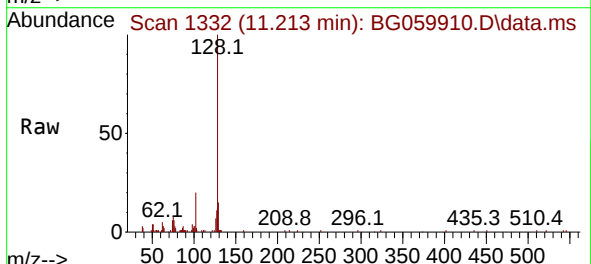
Manual Integrations
APPROVED

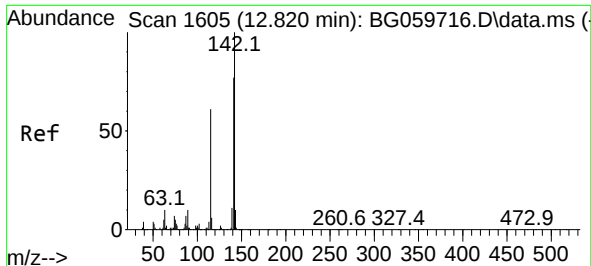
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#31
Naphthalene
Concen: 7.607 ng
RT: 11.213 min Scan# 1332
Delta R.T. 0.005 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

Tgt Ion:128 Resp: 57530
Ion Ratio Lower Upper
128 100
129 15.1 8.7 13.1#
127 11.4 9.2 13.8





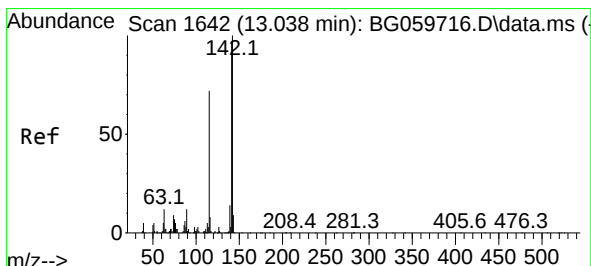
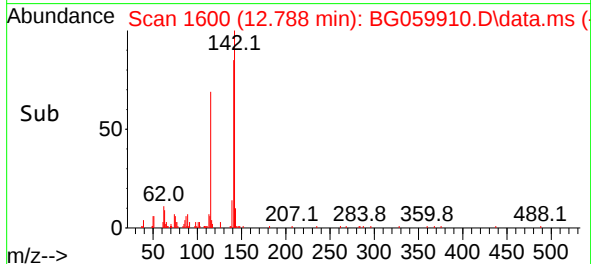
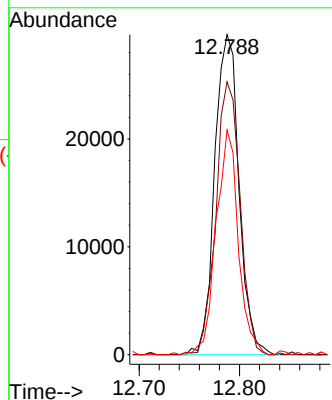
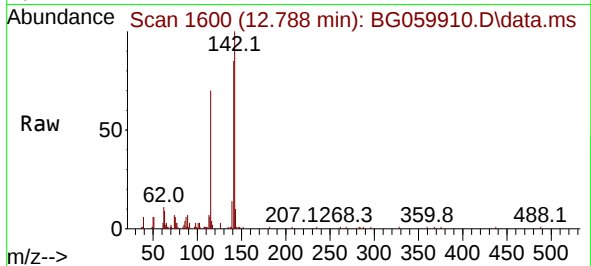
#37
2-Methylnaphthalene
Concen: 7.808 ng
RT: 12.788 min Scan# 1600
Delta R.T. -0.001 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

Instrument :
BNA_G
ClientSampleId :
281

Tgt Ion:142 Resp: 49728
Ion Ratio Lower Upper
142 100
141 85.2 61.9 92.9
115 70.2 49.0 73.4

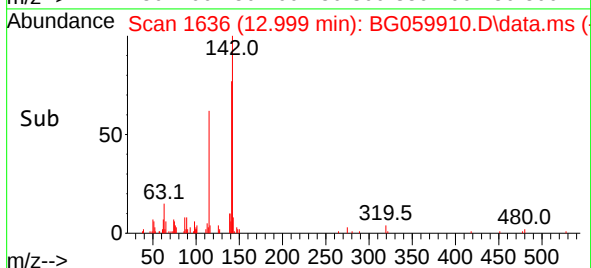
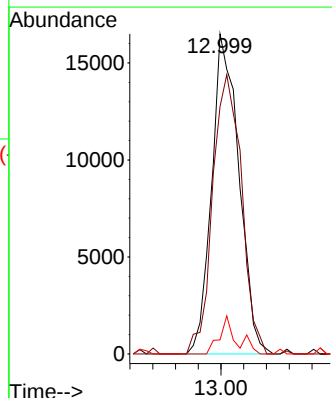
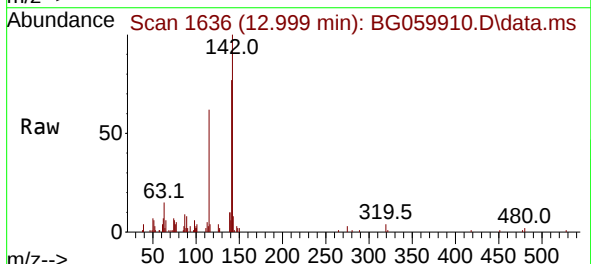
Manual Integrations
APPROVED

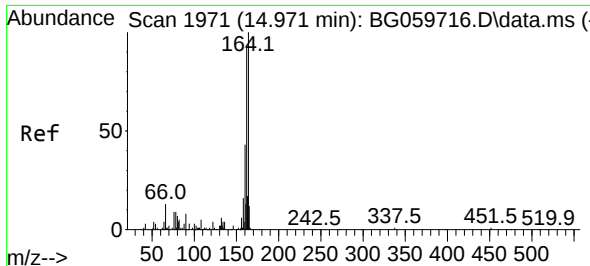
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#38
1-Methylnaphthalene
Concen: 4.672 ng
RT: 12.999 min Scan# 1636
Delta R.T. -0.006 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

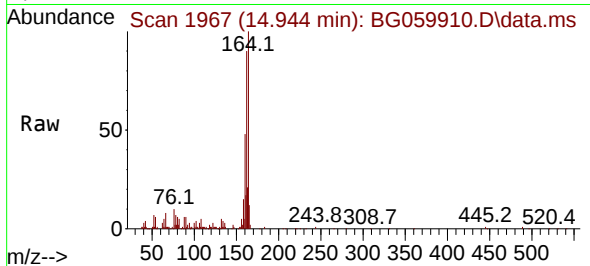
Tgt Ion:142 Resp: 27443
Ion Ratio Lower Upper
142 100
141 77.3 77.8 116.8#
116 4.4 6.2 9.2#





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.944 min Scan# 1971
Delta R.T. -0.001 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

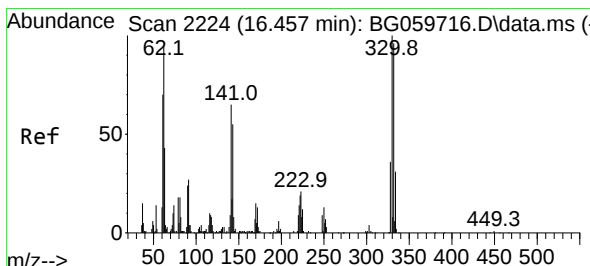
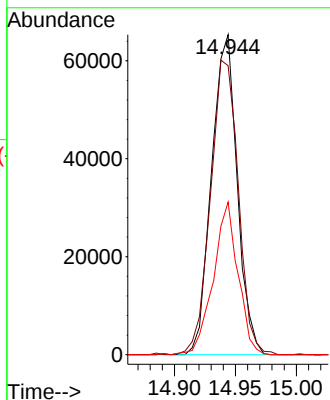
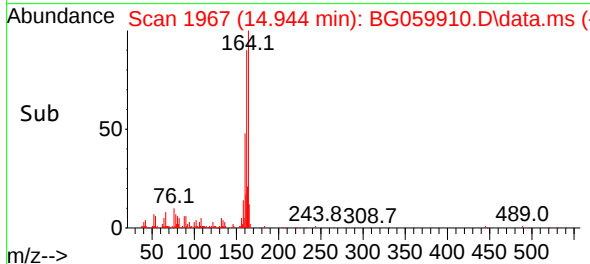
Instrument :
BNA_G
ClientSampleId :
281



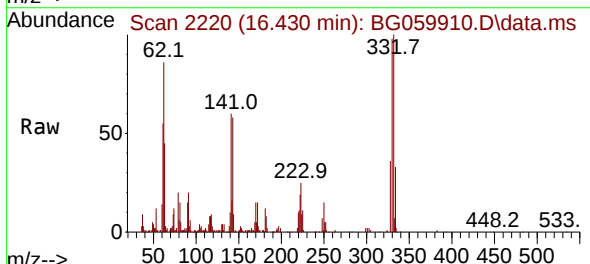
Tgt Ion:164 Resp: 9544
Ion Ratio Lower Upper
164 100
162 90.3 73.3 109.9
160 47.7 34.1 51.1

Manual Integrations
APPROVED

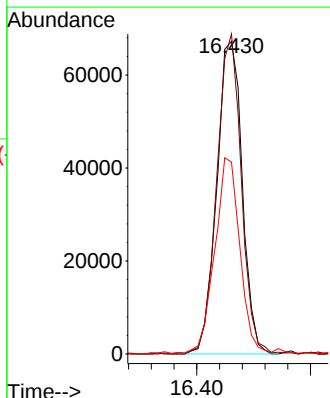
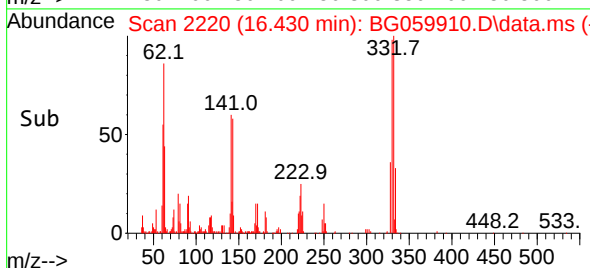
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023

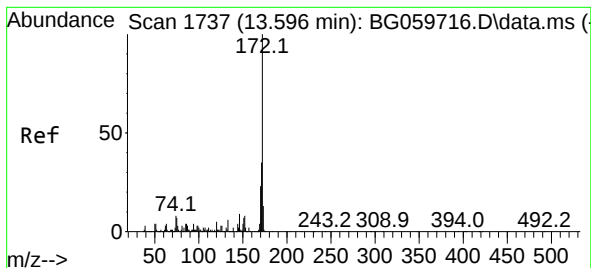


#42
2,4,6-Tribromophenol
Concen: 96.380 ng
RT: 16.430 min Scan# 2220
Delta R.T. -0.001 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13



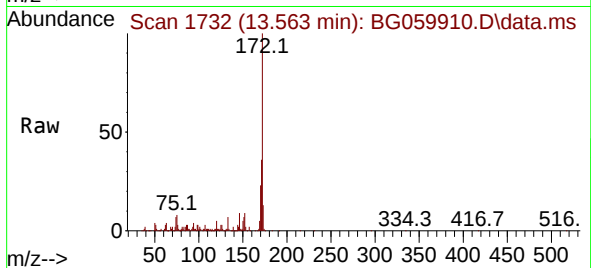
Tgt Ion:330 Resp: 104369
Ion Ratio Lower Upper
330 100
332 98.6 73.3 109.9
141 61.3 52.1 78.1





#45
2-Fluorobiphenyl
Concen: 58.594 ng
RT: 13.563 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

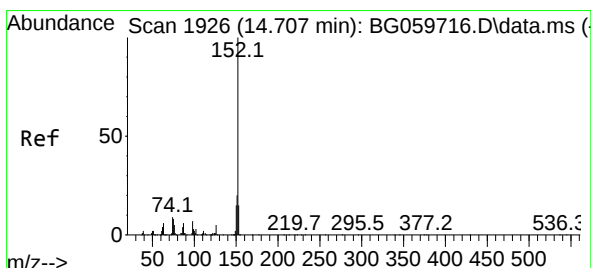
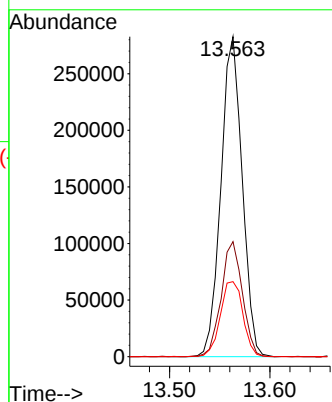
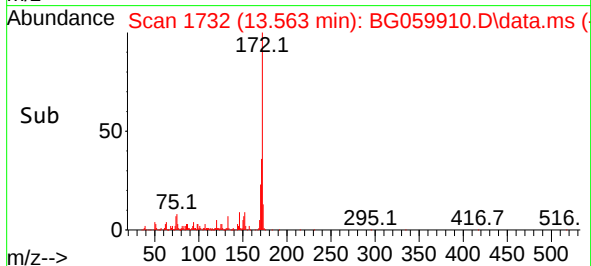
Instrument :
BNA_G
ClientSampleId :
281



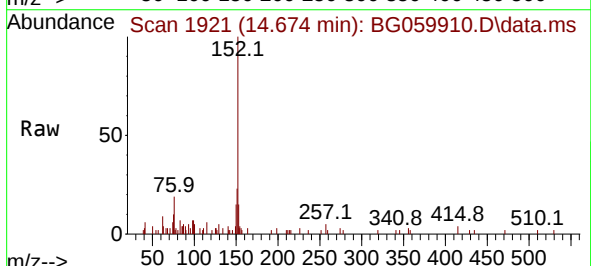
Tgt Ion:172 Resp: 41545
Ion Ratio Lower Upper
172 100
171 35.9 27.7 41.5
170 23.5 18.4 27.6

Manual Integrations
APPROVED

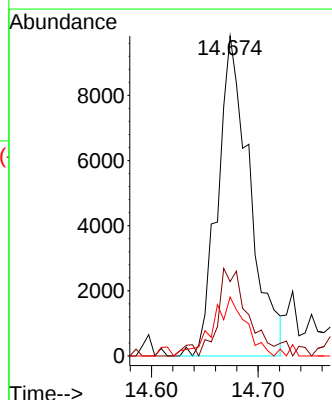
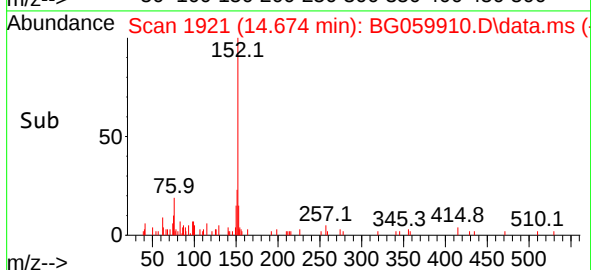
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023

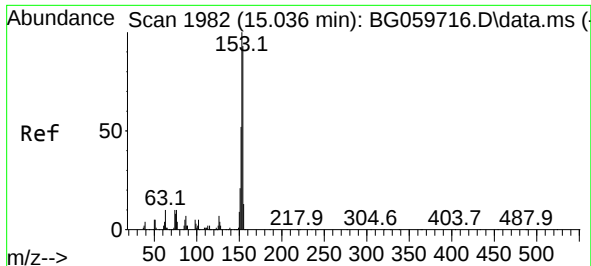


#49
Acenaphthylene
Concen: 2.346 ng
RT: 14.674 min Scan# 1921
Delta R.T. -0.001 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13



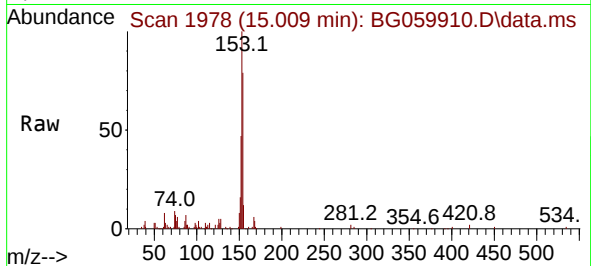
Tgt Ion:152 Resp: 20589
Ion Ratio Lower Upper
152 100
151 23.3 15.8 23.8
153 18.4 12.2 18.4#





#52
Acenaphthene
Concen: 9.501 ng
RT: 15.009 min Scan# 1982
Delta R.T. -0.000 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

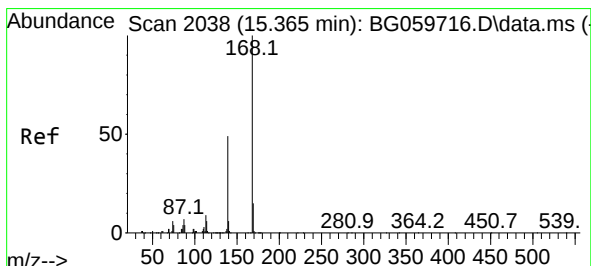
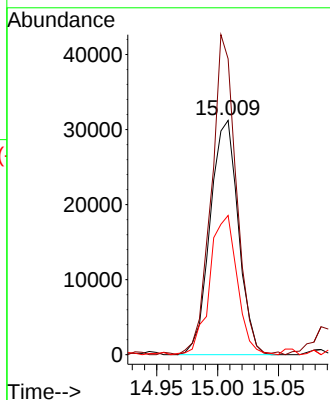
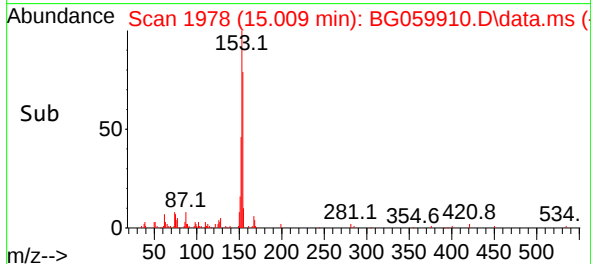
Instrument :
BNA_G
ClientSampleId :
281



Tgt Ion:154 Resp: 50149
Ion Ratio Lower Upper
154 100
153 126.3 85.8 128.8
152 59.4 44.4 66.6

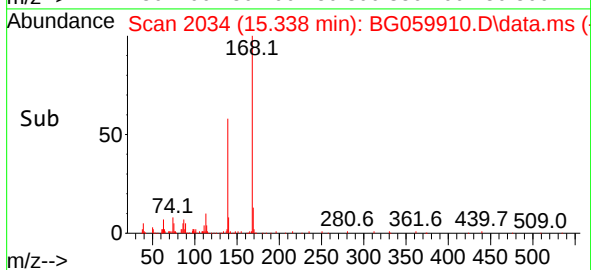
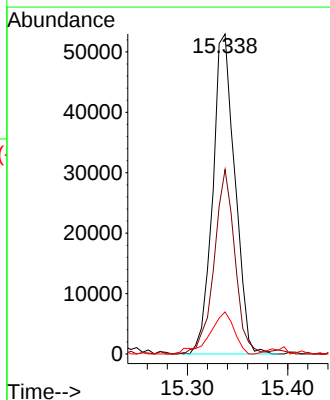
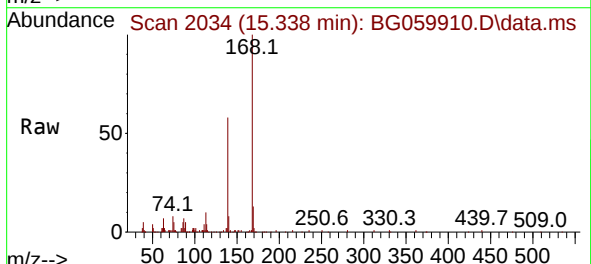
Manual Integrations
APPROVED

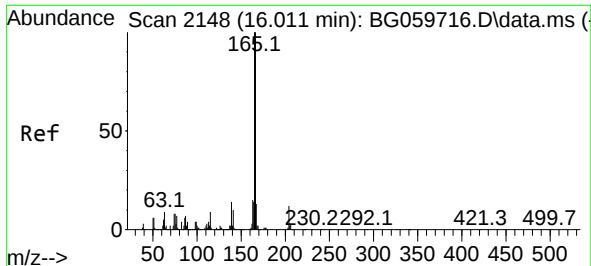
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#55
Dibenzofuran
Concen: 9.329 ng
RT: 15.338 min Scan# 2034
Delta R.T. -0.001 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

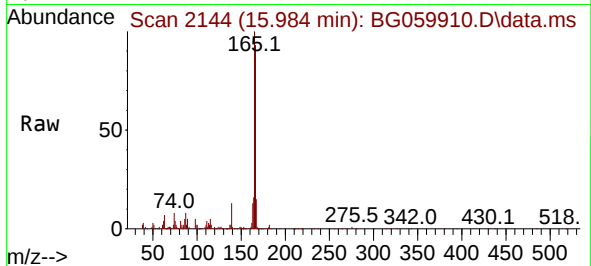
Tgt Ion:168 Resp: 81192
Ion Ratio Lower Upper
168 100
139 57.7 38.9 58.3
169 13.1 11.8 17.8





#58
Fluorene
Concen: 14.084 ng
RT: 15.984 min Scan# 2148
Delta R.T. -0.006 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

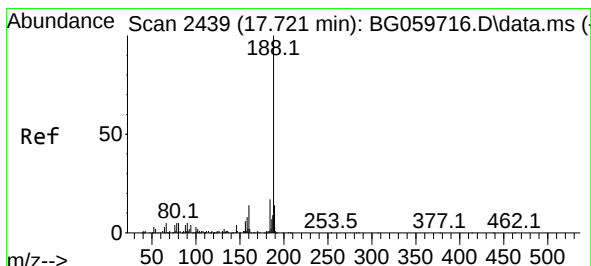
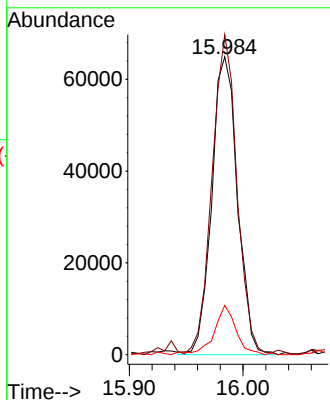
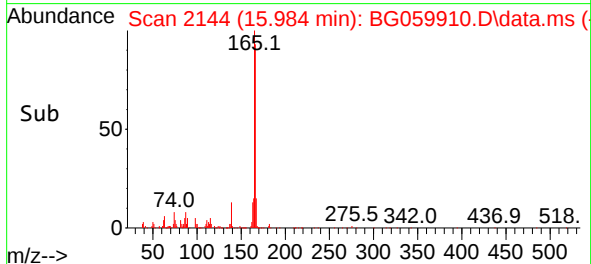
Instrument :
BNA_G
ClientSampleId :
281



Tgt Ion:166 Resp: 101834
Ion Ratio Lower Upper
166 100
165 107.4 79.9 119.9
167 16.6 10.1 15.1

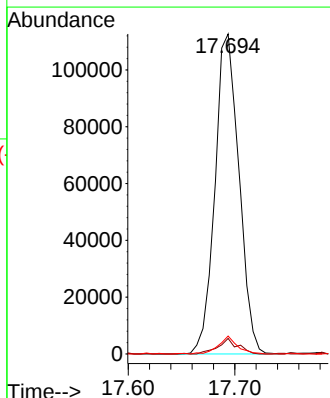
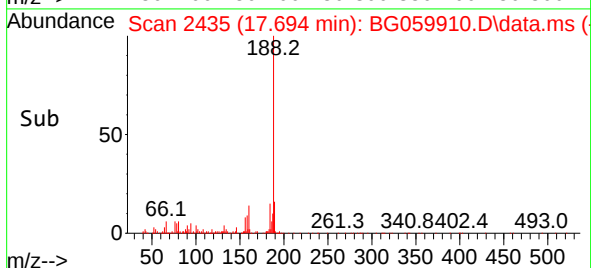
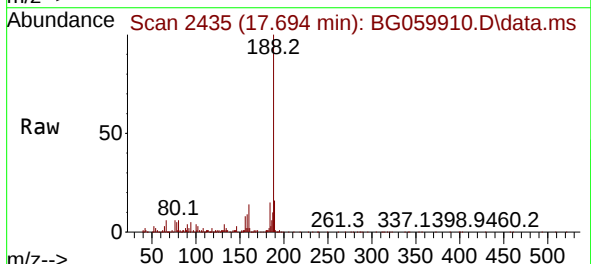
Manual Integrations
APPROVED

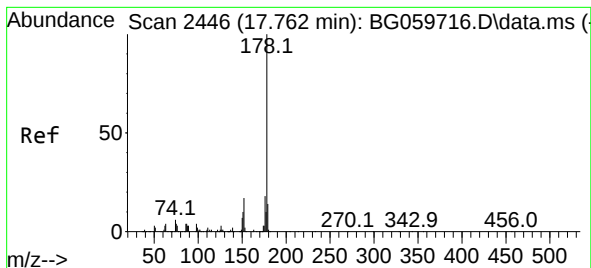
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.694 min Scan# 2435
Delta R.T. -0.000 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

Tgt Ion:188 Resp: 175930
Ion Ratio Lower Upper
188 100
94 4.9 3.0 4.4#
80 5.6 4.2 6.4





#71

Phenanthrene

Concen: 75.576 ng

RT: 17.741 min Scan# 24

Delta R.T. 0.005 min

Lab File: BG059910.D

Acq: 27 Nov 2023 21:13

Instrument :

BNA_G

ClientSampleId :

281

Tgt Ion:178 Resp: 676000

Ion Ratio Lower Upper

178 100

176 18.5 14.5 21.7

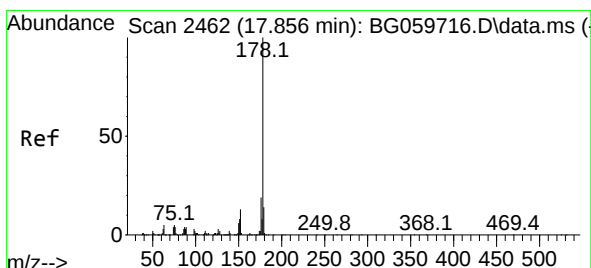
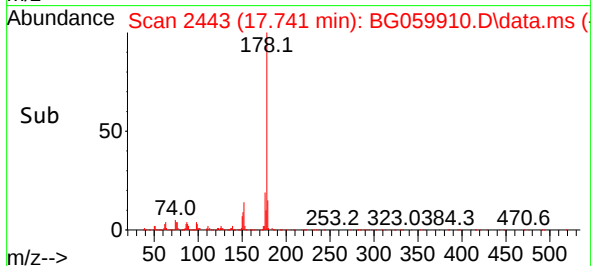
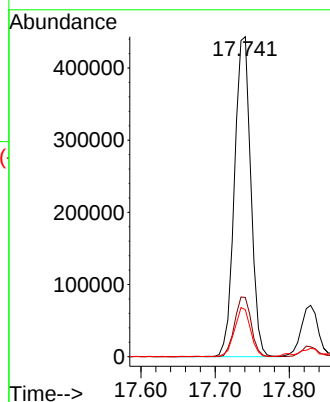
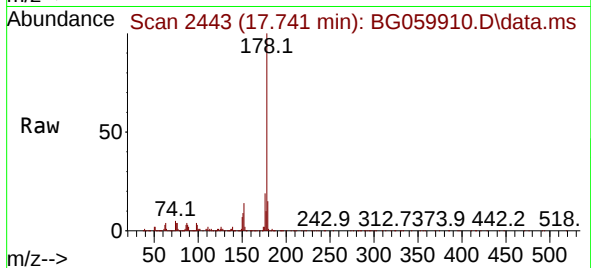
179 14.7 11.2 16.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/28/2023

Supervised By :mohammad ahmed 11/28/2023



#72

Anthracene

Concen: 12.292 ng

RT: 17.829 min Scan# 2458

Delta R.T. -0.001 min

Lab File: BG059910.D

Acq: 27 Nov 2023 21:13

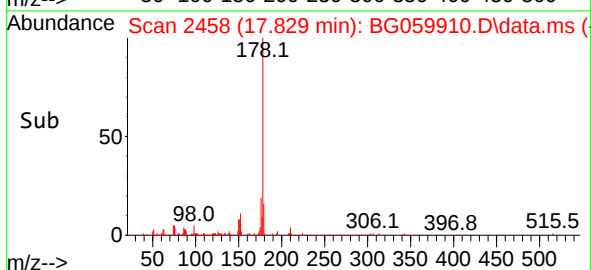
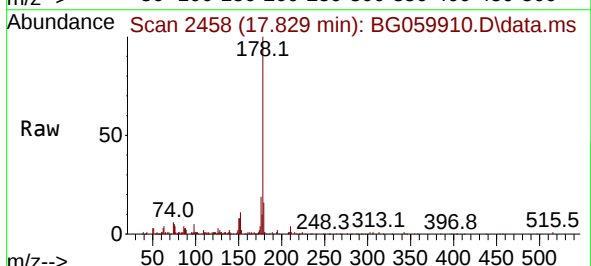
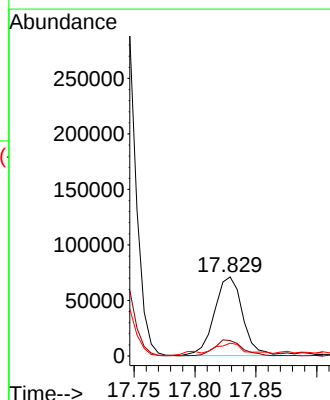
Tgt Ion:178 Resp: 114235

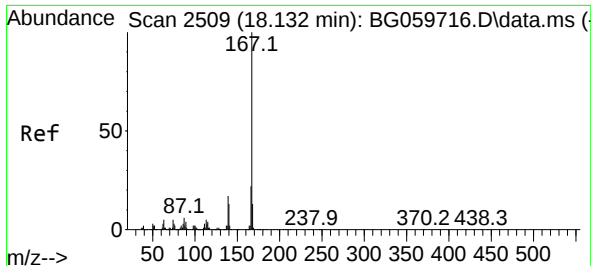
Ion Ratio Lower Upper

178 100

176 19.3 15.0 22.4

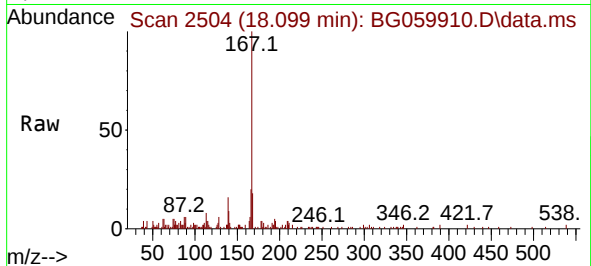
179 16.2 11.5 17.3





#73
 Carbazole
 Concen: 5.427 ng
 RT: 18.099 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BG059910.D
 Acq: 27 Nov 2023 21:13

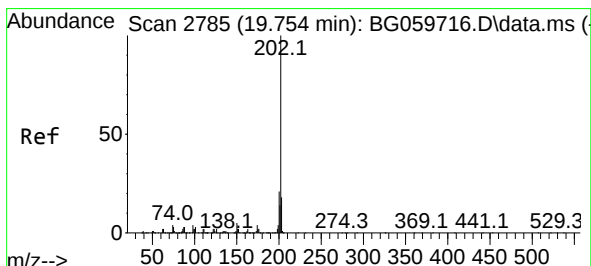
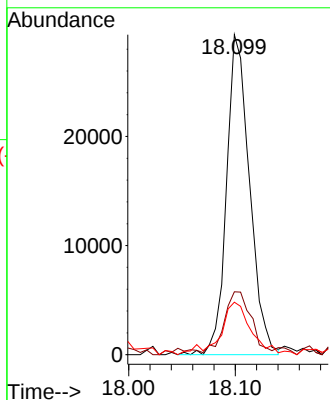
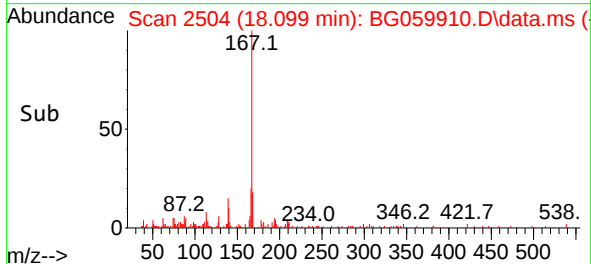
Instrument :
 BNA_G
 ClientSampleId :
 281



Tgt Ion:167 Resp: 44062
 Ion Ratio Lower Upper
 167 100
 166 19.7 17.4 26.0
 139 16.4 13.2 19.8

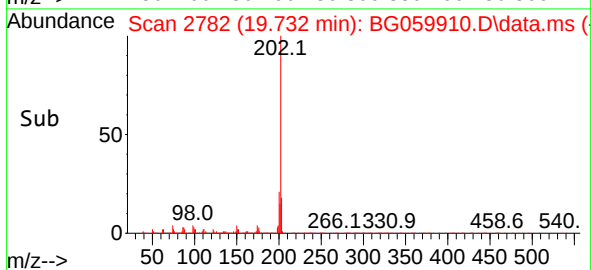
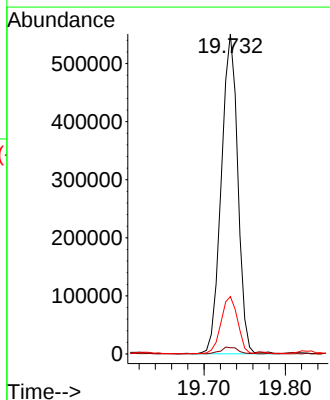
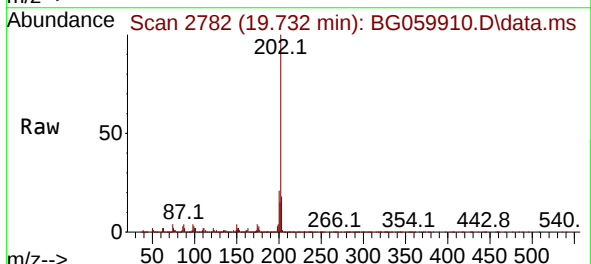
Manual Integrations
 APPROVED

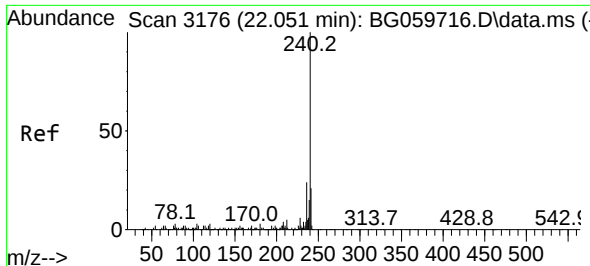
Reviewed By :Yogesh Patel 11/28/2023
 Supervised By :mohammad ahmed 11/28/2023



#75
 Fluoranthene
 Concen: 72.573 ng
 RT: 19.732 min Scan# 2782
 Delta R.T. 0.005 min
 Lab File: BG059910.D
 Acq: 27 Nov 2023 21:13

Tgt Ion:202 Resp: 778476
 Ion Ratio Lower Upper
 202 100
 101 1.9 0.0 22.7
 203 18.0 0.0 38.2





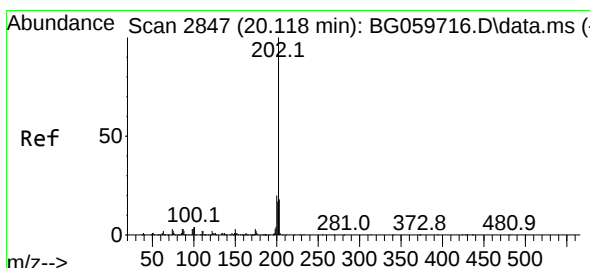
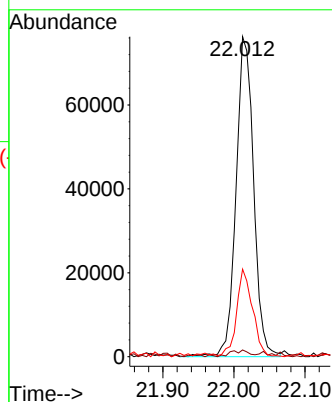
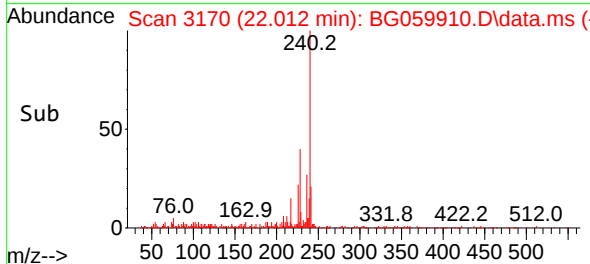
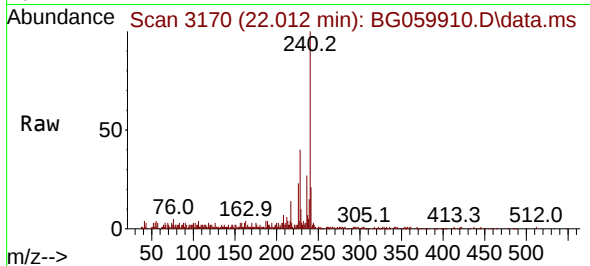
#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.012 min Scan# 3176
Delta R.T. -0.006 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

Instrument :
BNA_G
ClientSampleId :
281

Tgt Ion:240 Resp: 13136
Ion Ratio Lower Upper
240 100
120 2.1 2.2 3.2
236 27.3 19.4 29.2

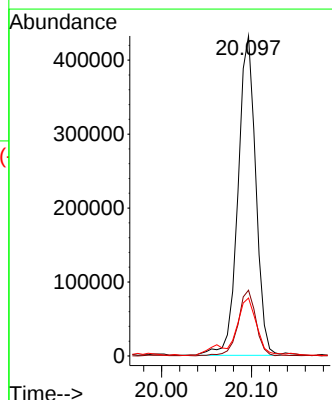
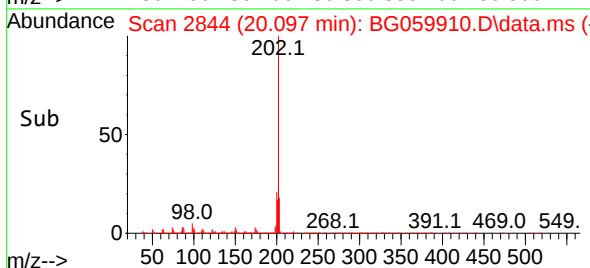
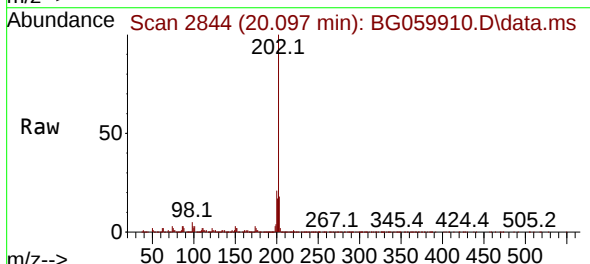
Manual Integrations
APPROVED

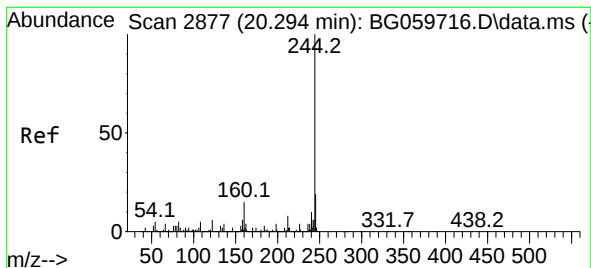
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#78
Pyrene
Concen: 66.528 ng
RT: 20.097 min Scan# 2844
Delta R.T. -0.001 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

Tgt Ion:202 Resp: 594621
Ion Ratio Lower Upper
202 100
200 20.6 16.2 24.4
203 18.1 14.0 21.0





#79

Terphenyl-d14

Concen: 51.264 ng

RT: 20.267 min Scan# 281

Delta R.T. -0.001 min

Lab File: BG059910.D

Acq: 27 Nov 2023 21:13

Instrument :

BNA_G

ClientSampleId :

281

Tgt Ion:244 Resp: 45617

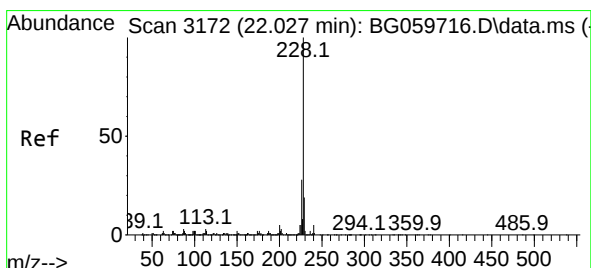
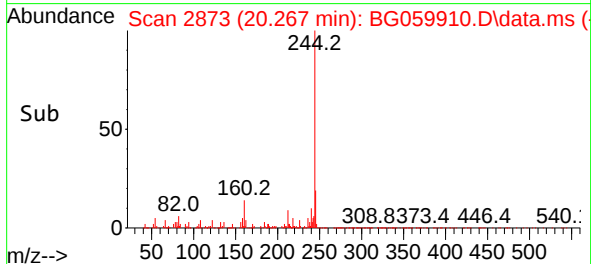
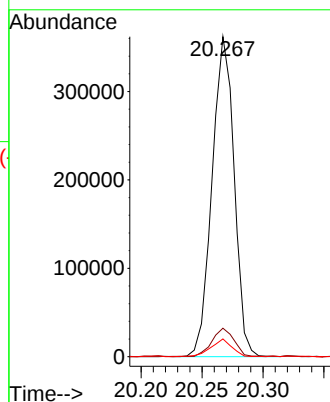
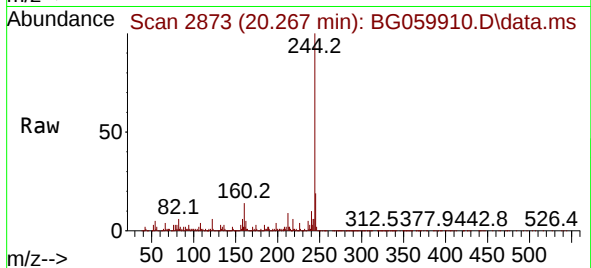
Ion	Ratio	Lower	Upper
244	100		
212	8.9	6.6	10.0
122	5.5	4.4	6.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/28/2023

Supervised By :mohammad ahmed 11/28/2023



#81

Benzo(a)anthracene

Concen: 23.280 ng

RT: 21.994 min Scan# 3167

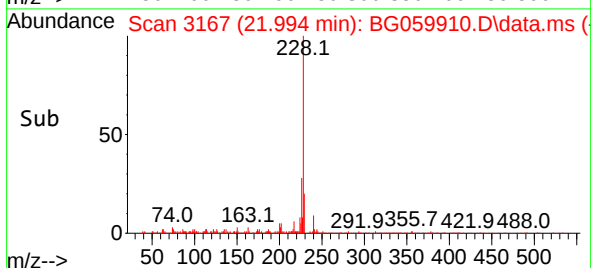
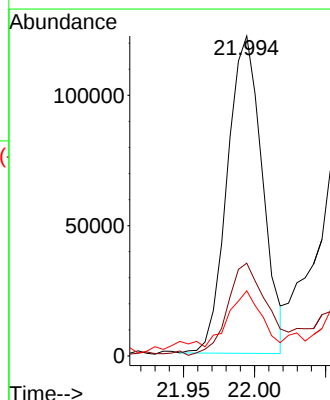
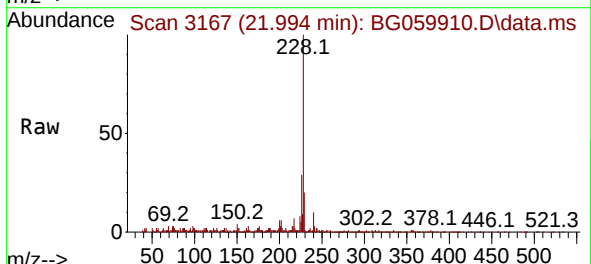
Delta R.T. -0.000 min

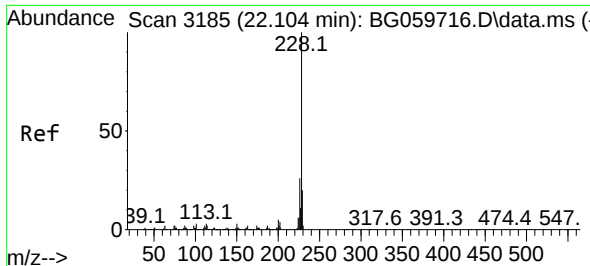
Lab File: BG059910.D

Acq: 27 Nov 2023 21:13

Tgt Ion:228 Resp: 209242

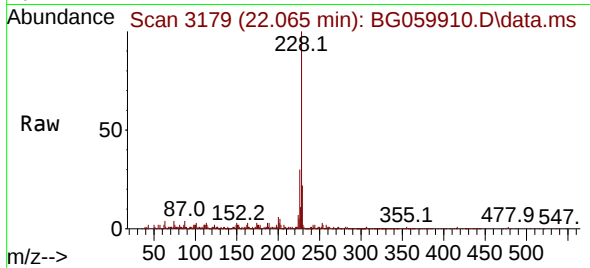
Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.1	33.1
229	20.4	14.9	22.3





#83
Chrysene
Concen: 30.671 ng
RT: 22.065 min Scan# 3185
Delta R.T. -0.001 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

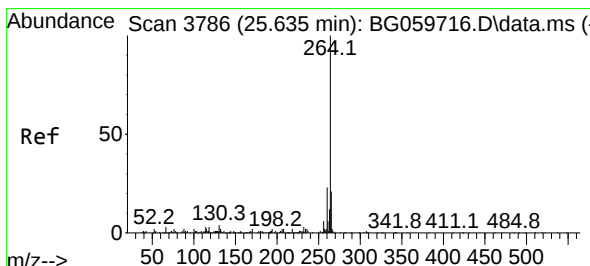
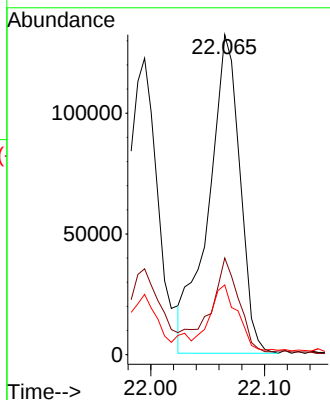
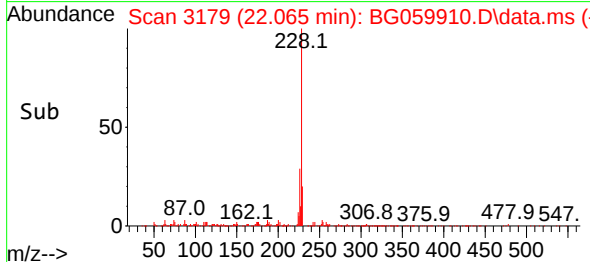
Instrument :
BNA_G
ClientSampleId :
281



Tgt Ion:228 Resp: 252709
Ion Ratio Lower Upper
228 100
226 30.2 21.1 31.7
229 21.8 16.2 24.4

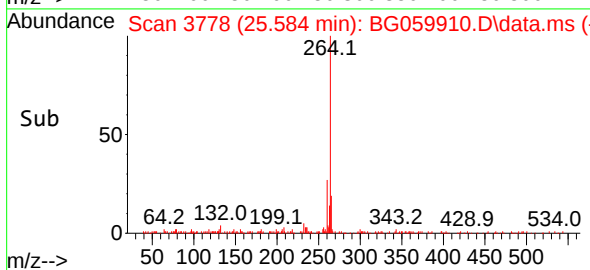
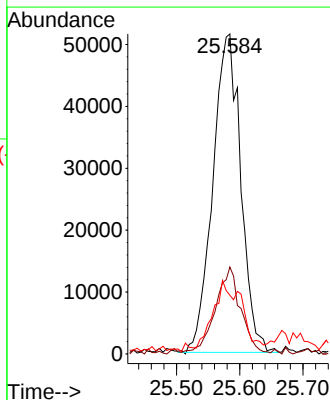
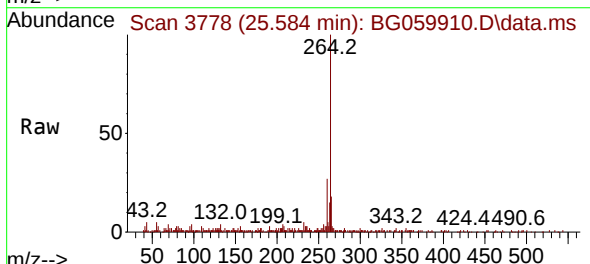
Manual Integrations
APPROVED

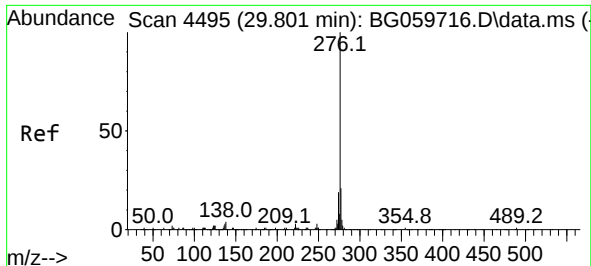
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.584 min Scan# 3778
Delta R.T. 0.005 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

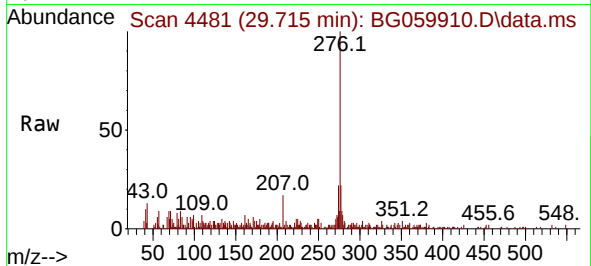
Tgt Ion:264 Resp: 157987
Ion Ratio Lower Upper
264 100
260 27.1 18.5 27.7
265 18.3 17.0 25.6





#87
Indeno(1,2,3-cd)pyrene
Concen: 9.003 ng
RT: 29.715 min Scan# 4495
Delta R.T. -0.001 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

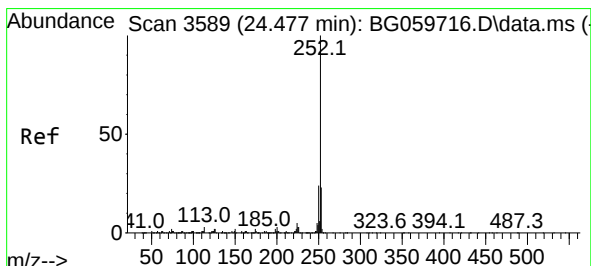
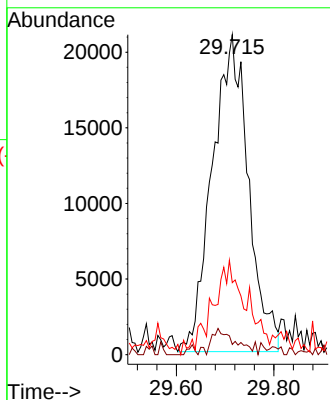
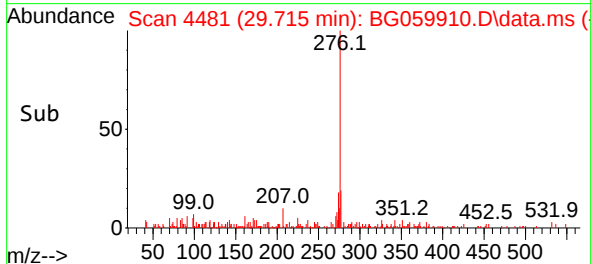
Instrument :
BNA_G
ClientSampleId :
281



Tgt Ion:276 Resp: 107625
Ion Ratio Lower Upper
276 100
138 0.0 1.8 2.6
277 0.0 9.8 14.6

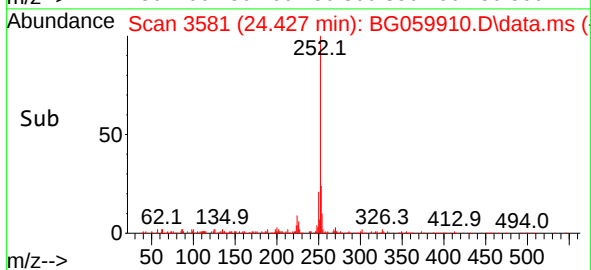
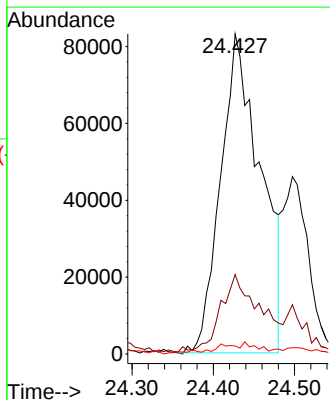
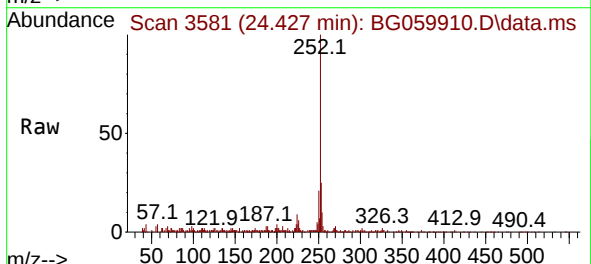
Manual Integrations
APPROVED

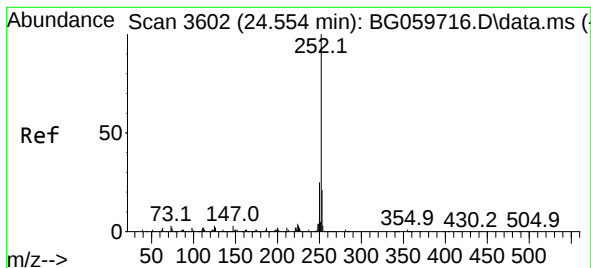
Reviewed By :Yogesh Patel 11/28/2023
Supervised By :mohammad ahmed 11/28/2023



#88
Benzo(b)fluoranthene
Concen: 32.692 ng
RT: 24.427 min Scan# 3581
Delta R.T. 0.005 min
Lab File: BG059910.D
Acq: 27 Nov 2023 21:13

Tgt Ion:252 Resp: 283083
Ion Ratio Lower Upper
252 100
253 24.8 18.3 27.5
125 2.5 1.4 2.0





#89

Benzo(k)fluoranthene

Concen: 11.712 ng m

RT: 24.497 min Scan# 3

Delta R.T. -0.006 min

Lab File: BG059910.D

Acq: 27 Nov 2023 21:13

Instrument :

BNA_G

ClientSampleId :

281

Tgt Ion:252 Resp: 10025

Ion Ratio Lower Upper

252 100

253 27.8 17.1 25.7

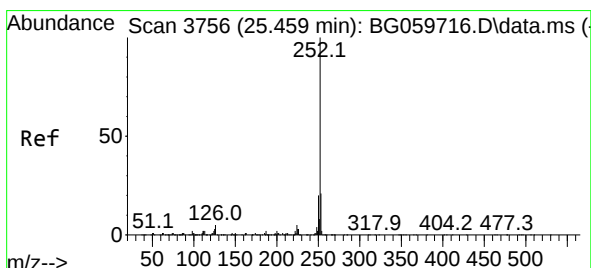
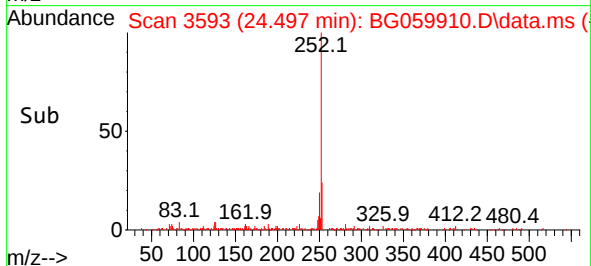
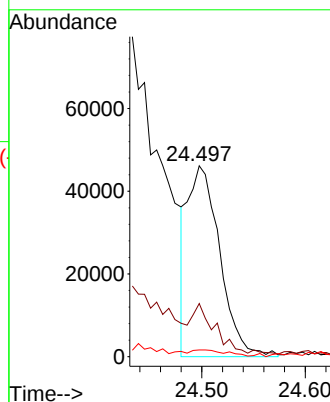
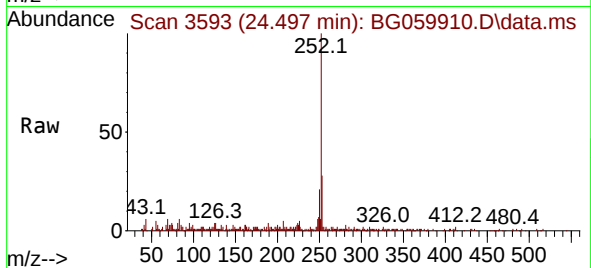
125 3.5 2.2 3.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/28/2023

Supervised By :mohammad ahmed 11/28/2023



#90

Benzo(a)pyrene

Concen: 17.231 ng

RT: 25.414 min Scan# 3749

Delta R.T. -0.000 min

Lab File: BG059910.D

Acq: 27 Nov 2023 21:13

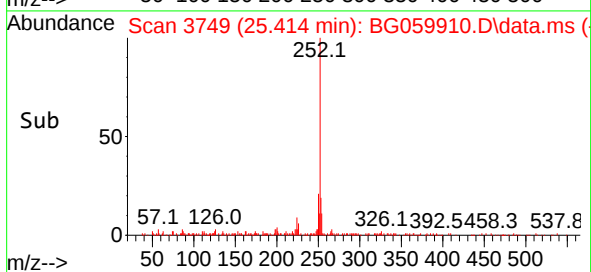
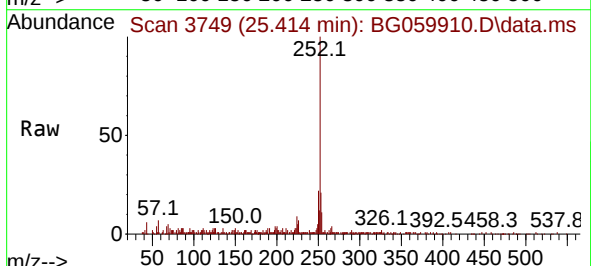
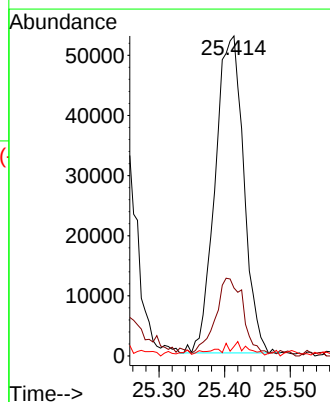
Tgt Ion:252 Resp: 159240

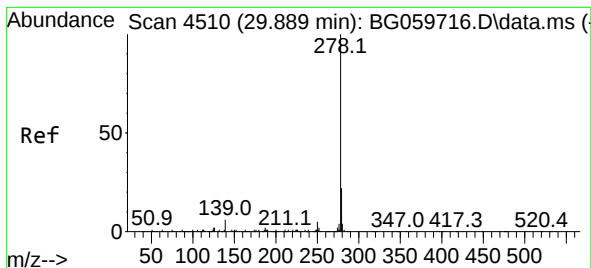
Ion Ratio Lower Upper

252 100

253 21.3 16.8 25.2

125 2.9 2.0 3.0





#91

Dibenzo(a,h)anthracene

Concen: 3.416 ng m

RT: 29.779 min Scan# 44

Delta R.T. -0.024 min

Lab File: BG059910.D

Acq: 27 Nov 2023 21:13

Instrument :

BNA_G

ClientSampleId :

281

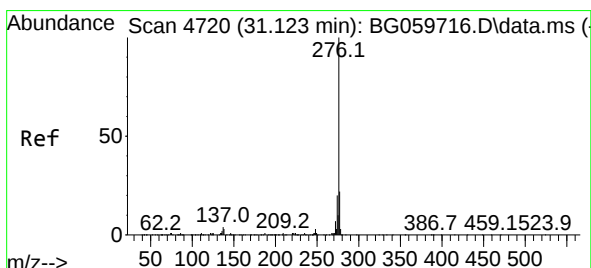
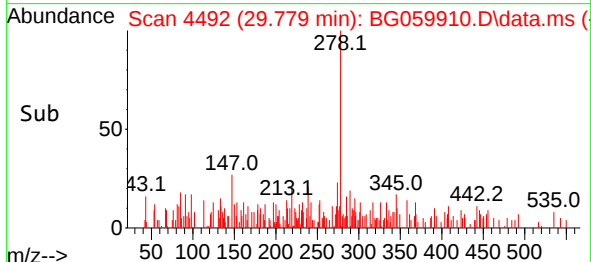
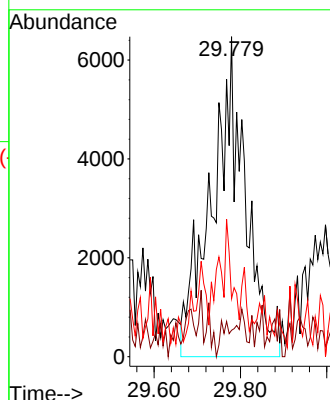
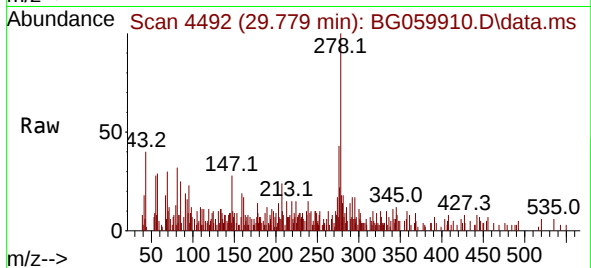
Tgt Ion:278	Resp:	3454
Ion Ratio	Lower	Upper
278	100	
139	8.3	4.6 7.0#
279	18.1	17.4 26.0#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/28/2023

Supervised By :mohammad ahmed 11/28/2023



#92

Benzo(g,h,i)perylene

Concen: 10.553 ng m

RT: 31.031 min Scan# 4705

Delta R.T. -0.006 min

Lab File: BG059910.D

Acq: 27 Nov 2023 21:13

Tgt Ion:276	Resp:	101268
Ion Ratio	Lower	Upper
276	100	
277	13.6	17.3 25.9#
138	2.0	2.6 4.0#

