

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG041924\
 Data File : BG060958.D
 Acq On : 19 Apr 2024 14:11
 Operator : MA/JU
 Sample : P2124-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 B-131-SB01

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/22/2024
 Supervised By :mohammad ahmed 04/22/2024

Quant Time: Apr 19 14:45:42 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG041724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 18 02:02:19 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.942	152	29072	20.000	ng	0.00
21) Naphthalene-d8	10.732	136	111712	20.000	ng	# 0.00
39) Acenaphthene-d10	14.569	164	93685	20.000	ng	0.00
64) Phenanthrene-d10	17.325	188	199617	20.000	ng	# 0.00
76) Chrysene-d12	21.578	240	197186	20.000	ng	0.00
86) Perylene-d12	24.692	264	247589	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.527	112	120967	72.275	ng	0.00
7) Phenol-d6	7.107	99	175182	72.656	ng	0.00
23) Nitrobenzene-d5	9.093	82	125905	51.165	ng	0.00
42) 2,4,6-Tribromophenol	16.061	330	130064	84.037	ng	0.00
45) 2-Fluorobiphenyl	13.194	172	331893	51.987	ng	0.00
79) Terphenyl-d14	19.939	244	579538	51.293	ng	0.00
Target Compounds						Qvalue
37) 2-Methylnaphthalene	12.395	142	276675	60.535	ng	96
38) 1-Methylnaphthalene	12.613	142	306076m	70.936	ng	
46) 1,1'-Biphenyl	13.406	154	113246	17.778	ng	96
49) Acenaphthylene	14.293	152	51560	6.254	ng	# 77
52) Acenaphthene	14.645	154	945418	189.087	ng	96
55) Dibenzofuran	14.974	168	1168992	138.406	ng	# 90
58) Fluorene	15.633	166	1299384	185.470	ng	98
71) Phenanthrene	17.383	178	3632657m	359.527	ng	
72) Anthracene	17.460	178	1424654	137.267	ng	99
73) Carbazole	17.718	167	117077	12.947	ng	96
75) Fluoranthene	19.381	202	2093989	162.820	ng	95
78) Pyrene	19.739	202	1486675	109.907	ng	99
81) Benzo(a)anthracene	21.561	228	373115	26.796	ng	99
83) Chrysene	21.620	228	319275	24.015	ng	98
87) Indeno(1,2,3-cd)pyrene	28.235	276	70923	4.142	ng	# 92
88) Benzo(b)fluoranthene	23.711	252	212223	15.150	ng	# 97
89) Benzo(k)fluoranthene	23.764	252	66269m	4.624	ng	
90) Benzo(a)pyrene	24.551	252	150164m	10.873	ng	
92) Benzo(g,h,i)perylene	29.334	276	63050	4.576	ng	# 89

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

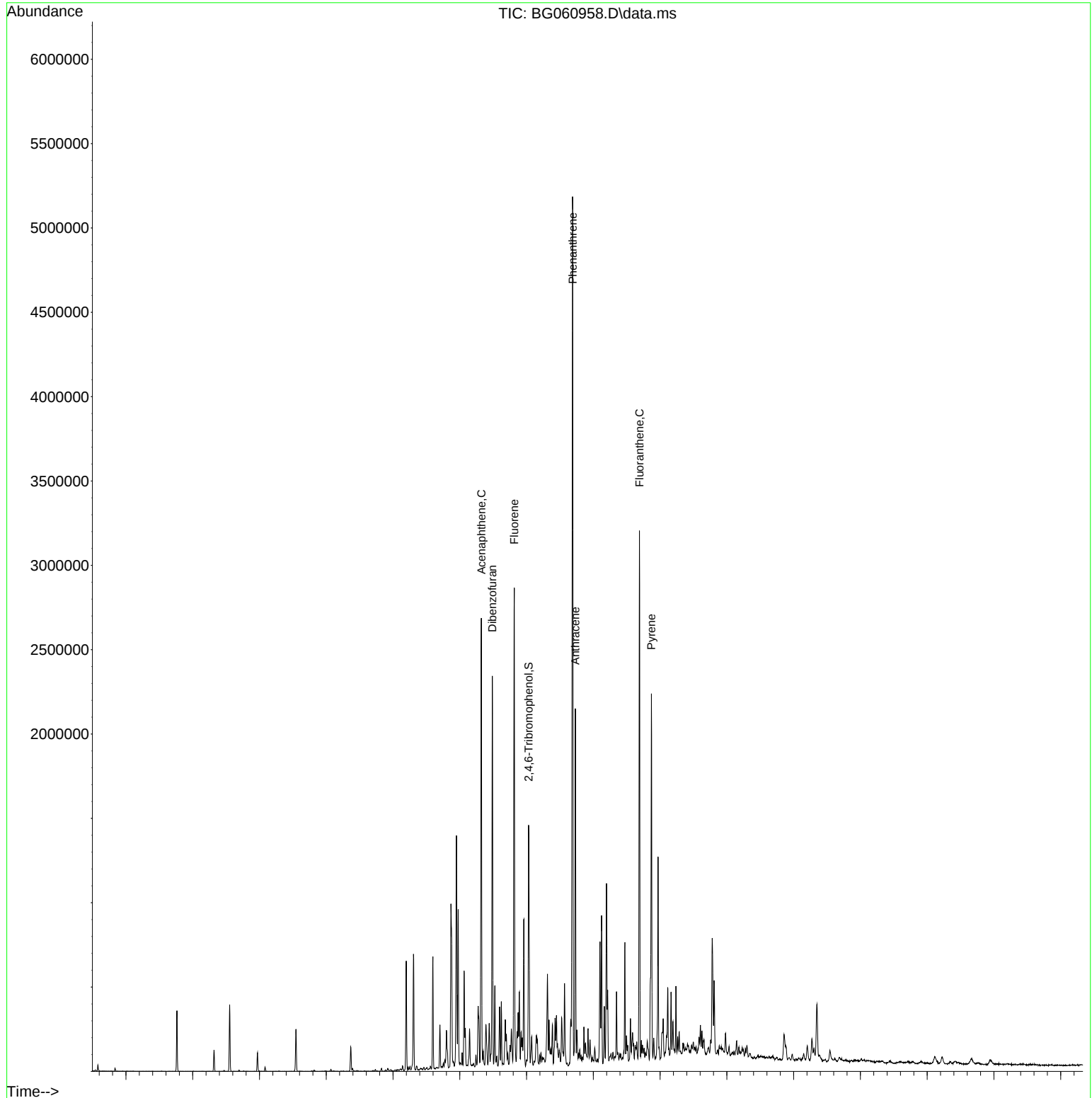
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG041924\
Data File : BG060958.D
Acq On : 19 Apr 2024 14:11
Operator : MA/JU
Sample : P2124-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

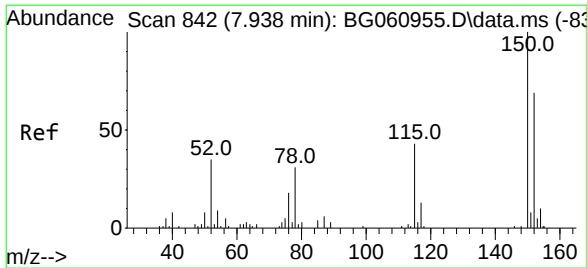
Instrument :
BNA_G
ClientSampleId :
B-131-SB01

Manual Integrations
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Reviewed By :Yogesh Patel 04/22/2024
Supervised By :mohammad ahmed 04/22/2024

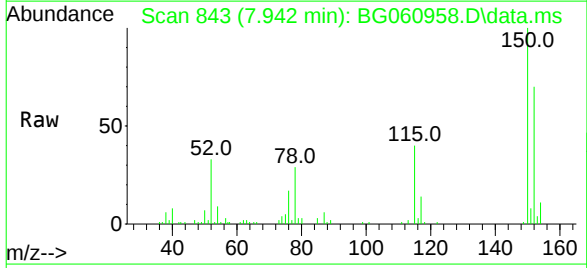
Quant Time: Apr 19 14:45:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG041724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 18 02:02:19 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.942 min Scan# 84
Delta R.T. -0.000 min
Lab File: BG060958.D
Acq: 19 Apr 2024 14:11

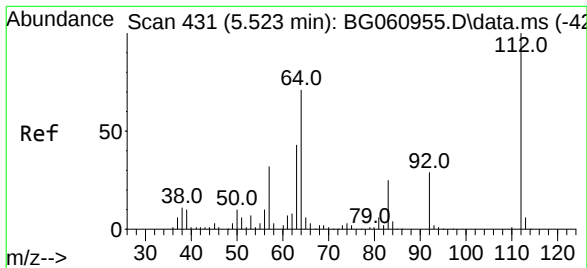
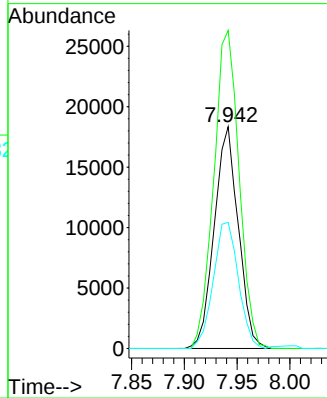
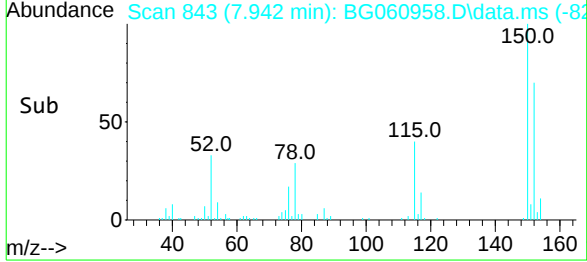
Instrument :
BNA_G
ClientSampleId :
B-131-SB01



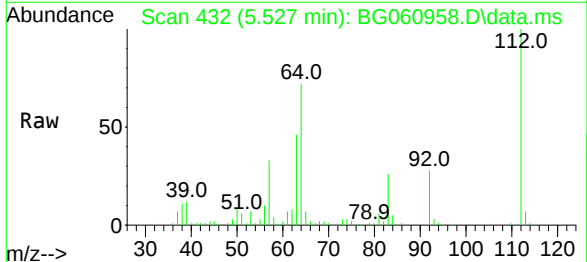
Tgt Ion:152 Resp: 29072
Ion Ratio Lower Upper
152 100
150 143.4 125.6 188.4
115 56.9 47.1 70.7

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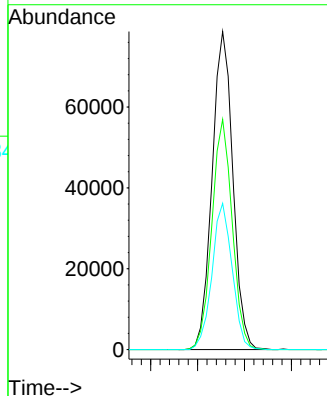
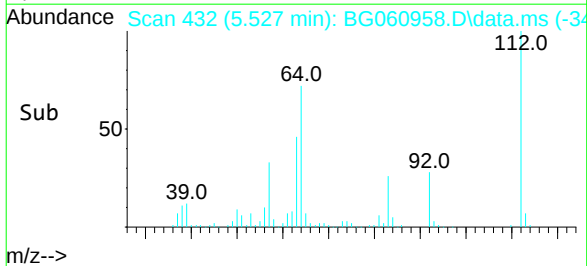
Reviewed By :Yogesh Patel 04/22/2024
Supervised By :mohammad ahmed 04/22/2024

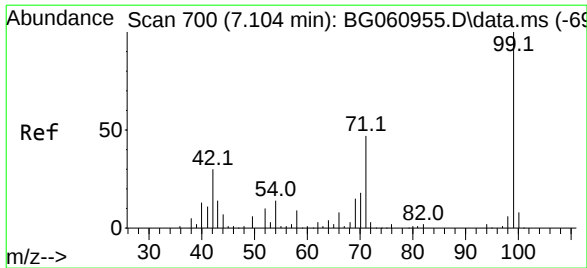


#5
2-Fluorophenol
Concen: 72.275 ng
RT: 5.527 min Scan# 432
Delta R.T. -0.000 min
Lab File: BG060958.D
Acq: 19 Apr 2024 14:11



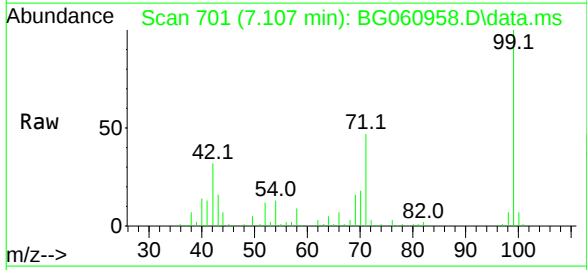
Tgt Ion:112 Resp: 120967
Ion Ratio Lower Upper
112 100
64 72.4 58.9 88.3
63 46.0 32.1 48.1





#7
Phenol-d6
Concen: 72.656 ng
RT: 7.107 min Scan# 700
Delta R.T. -0.000 min
Lab File: BG060958.D
Acq: 19 Apr 2024 14:11

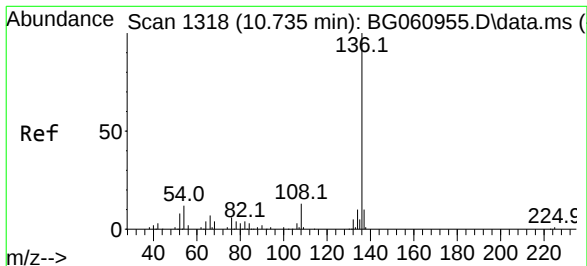
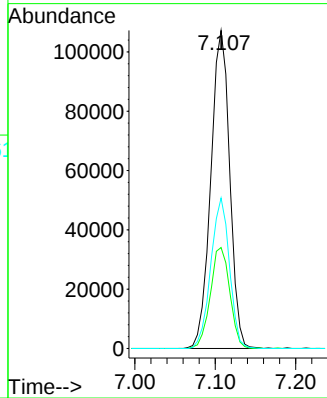
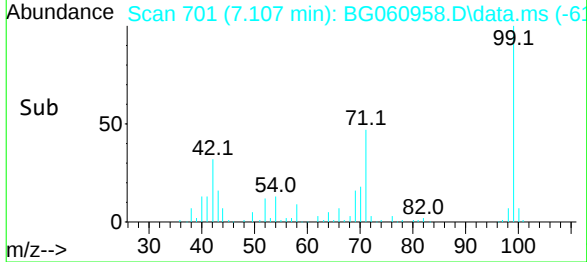
Instrument :
BNA_G
ClientSampleId :
B-131-SB01



Tgt Ion: 99 Resp: 175182
Ion Ratio Lower Upper
99 100
42 31.7 22.2 33.2
71 47.3 30.5 45.7#

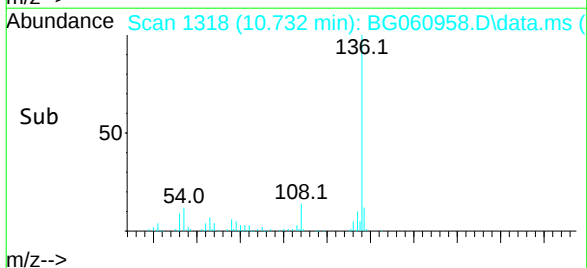
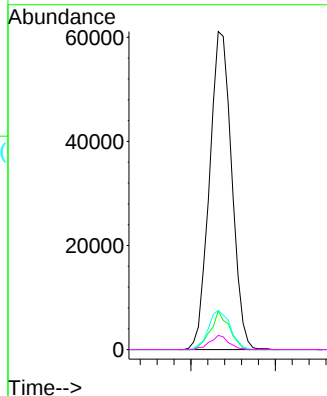
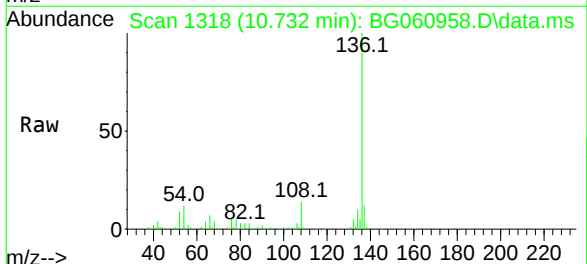
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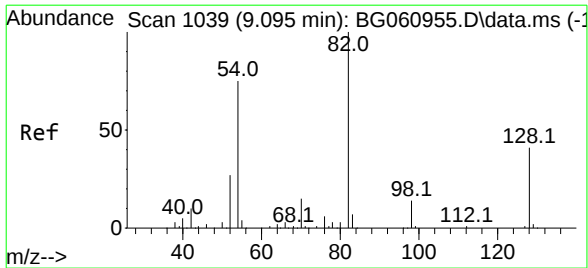
Reviewed By :Yogesh Patel 04/22/2024
Supervised By :mohammad ahmed 04/22/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.732 min Scan# 1318
Delta R.T. -0.006 min
Lab File: BG060958.D
Acq: 19 Apr 2024 14:11

Tgt Ion:136 Resp: 111712
Ion Ratio Lower Upper
136 100
137 12.2 8.8 13.2
54 12.3 9.8 14.8
68 4.5 5.0 7.4#





#23
Nitrobenzene-d5
Concen: 51.165 ng
RT: 9.093 min Scan# 1039
Delta R.T. -0.006 min
Lab File: BG060958.D
Acq: 19 Apr 2024 14:11

Instrument :

BNA_G

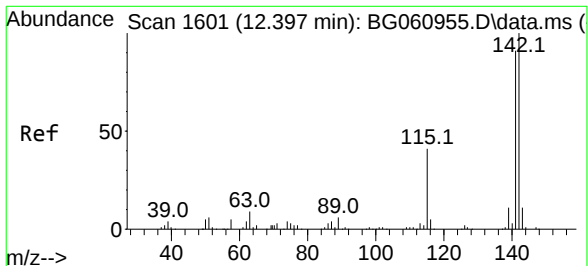
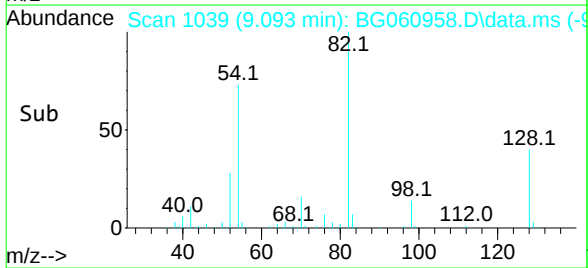
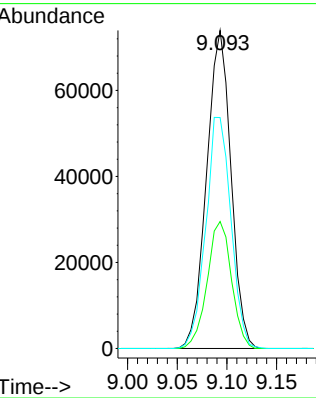
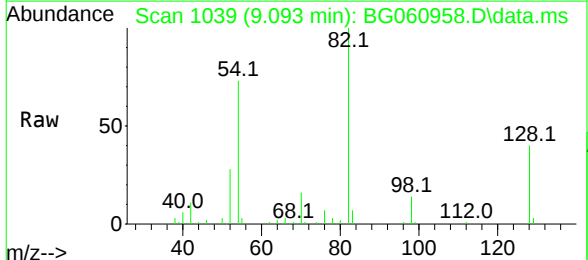
ClientSampleId :

B-131-SB01

Tgt Ion: 82 Resp: 125905
Ion Ratio Lower Upper
82 100
128 39.9 31.4 47.0
54 72.6 54.2 81.4

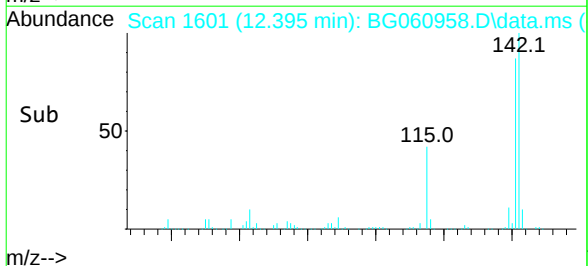
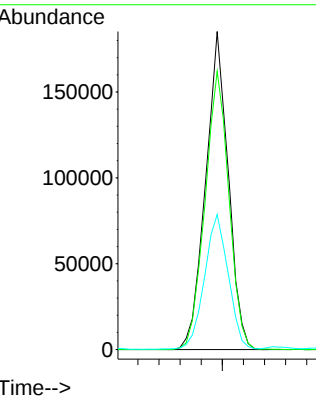
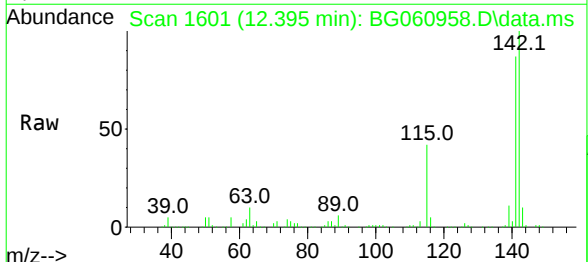
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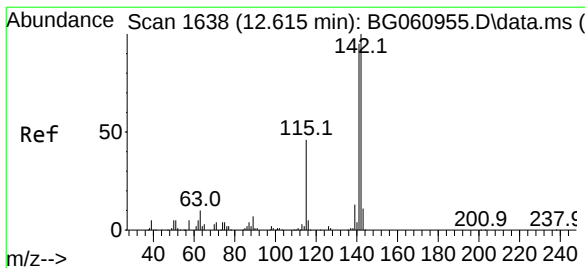
Reviewed By :Yogesh Patel 04/22/2024
Supervised By :mohammad ahmed 04/22/2024



#37
2-Methylnaphthalene
Concen: 60.535 ng
RT: 12.395 min Scan# 1601
Delta R.T. -0.000 min
Lab File: BG060958.D
Acq: 19 Apr 2024 14:11

Tgt Ion:142 Resp: 276675
Ion Ratio Lower Upper
142 100
141 87.5 71.7 107.5
115 42.4 30.6 45.8





#38

1-Methylnaphthalene

Concen: 70.936 ng m

RT: 12.613 min Scan# 1638

Delta R.T. -0.000 min

Lab File: BG060958.D

Acq: 19 Apr 2024 14:11

Instrument :

BNA_G

ClientSampleId :

B-131-SB01

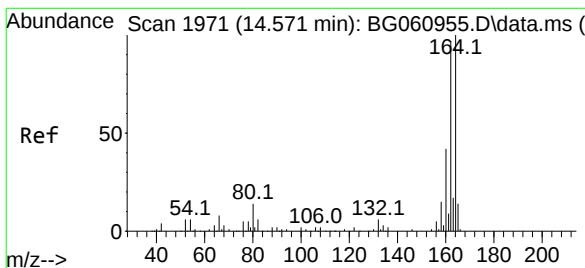
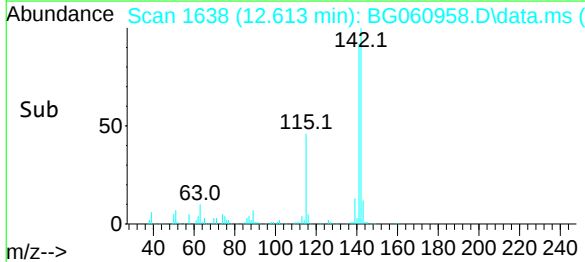
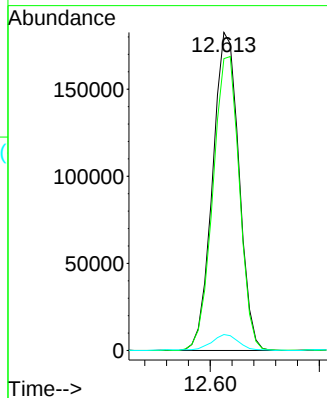
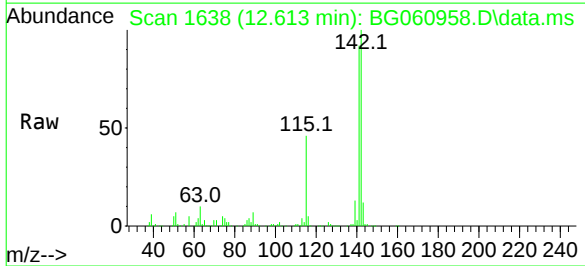
Tgt Ion:142 Resp: 306076
 Ion Ratio Lower Upper
 142 100
 141 91.8 75.1 112.7
 116 5.0 3.3 4.9#

Manual Integrations

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Reviewed By :Yogesh Patel 04/22/2024

Supervised By :mohammad ahmed 04/22/2024



#39

Acenaphthene-d10

Concen: 20.000 ng

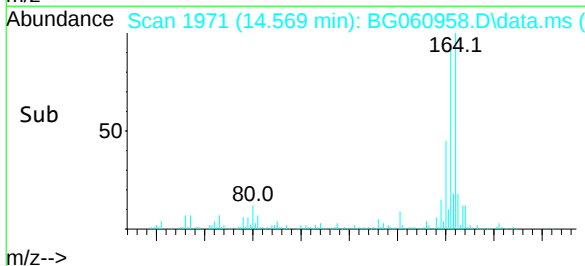
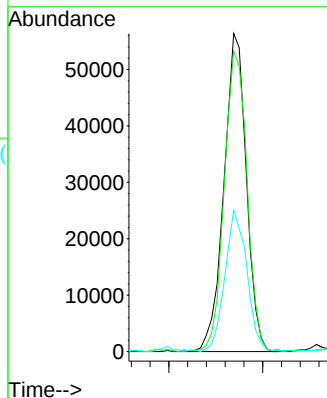
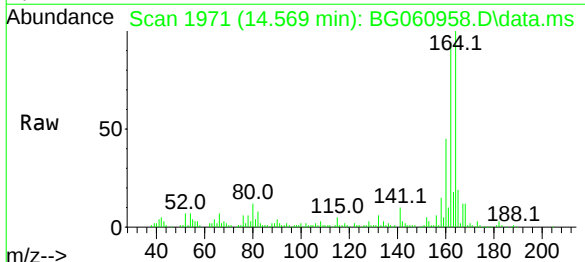
RT: 14.569 min Scan# 1971

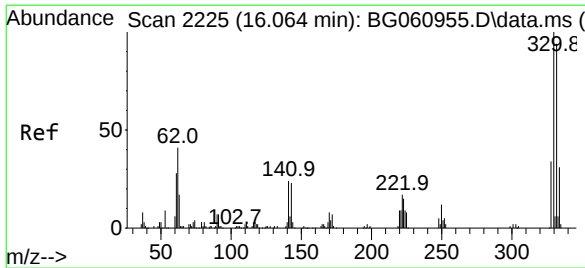
Delta R.T. -0.000 min

Lab File: BG060958.D

Acq: 19 Apr 2024 14:11

Tgt Ion:164 Resp: 93685
 Ion Ratio Lower Upper
 164 100
 162 94.4 84.1 126.1
 160 44.5 35.9 53.9





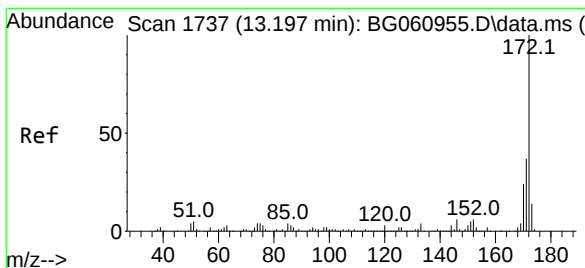
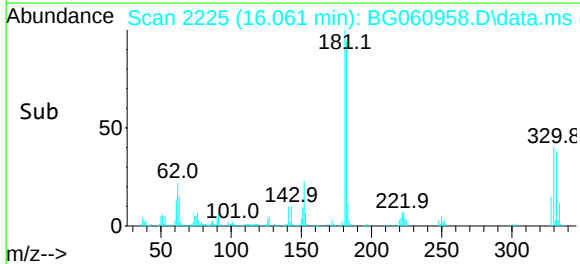
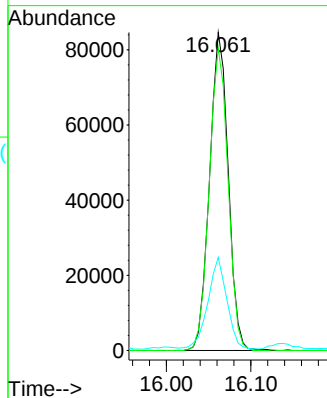
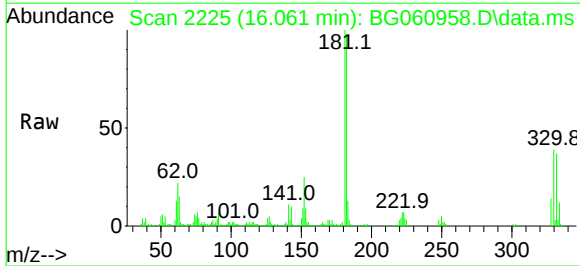
#42
2,4,6-Tribromophenol
Concen: 84.037 ng
RT: 16.061 min Scan# 2225
Delta R.T. -0.000 min
Lab File: BG060958.D
Acq: 19 Apr 2024 14:11

Instrument :
BNA_G
ClientSampleId :
B-131-SB01

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.8	76.9	115.3
141	29.1	23.7	35.5

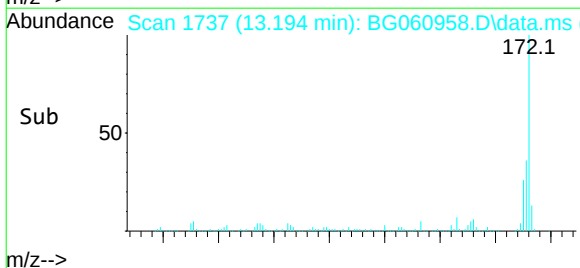
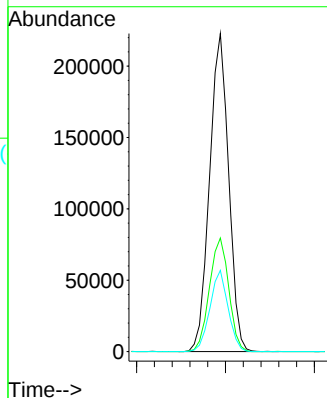
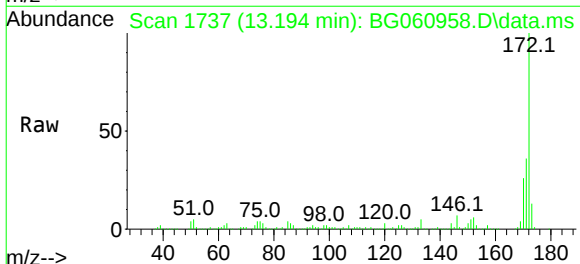
Manual Integrations
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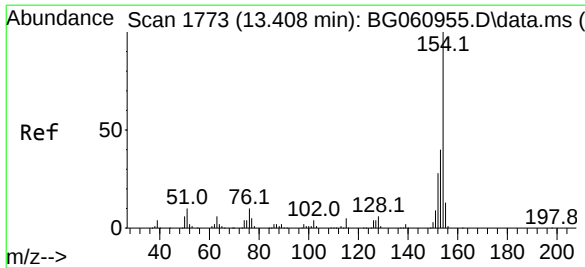
Reviewed By :Yogesh Patel 04/22/2024
Supervised By :mohammad ahmed 04/22/2024



#45
2-Fluorobiphenyl
Concen: 51.987 ng
RT: 13.194 min Scan# 1737
Delta R.T. -0.000 min
Lab File: BG060958.D
Acq: 19 Apr 2024 14:11

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.3	43.9
170	25.5	19.5	29.3





#46

1,1'-Biphenyl

Concen: 17.778 ng

RT: 13.406 min Scan# 1773

Delta R.T. -0.000 min

Lab File: BG060958.D

Acq: 19 Apr 2024 14:11

Instrument :

BNA_G

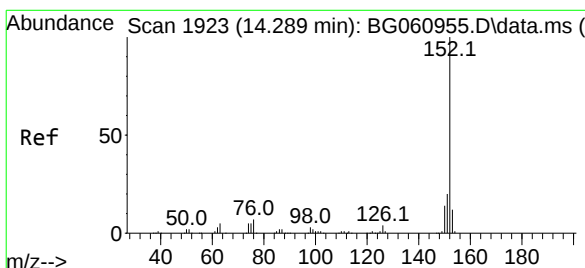
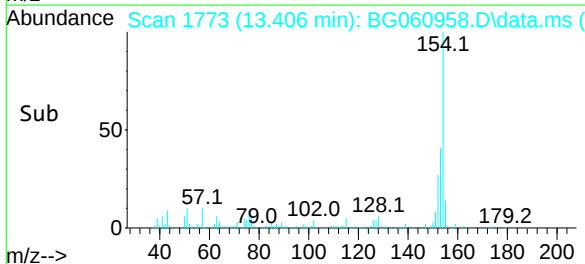
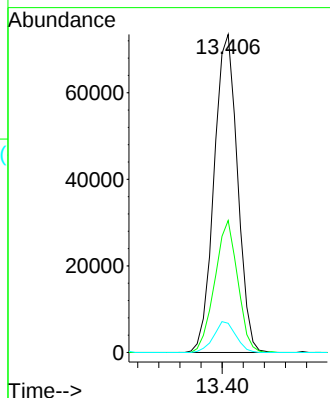
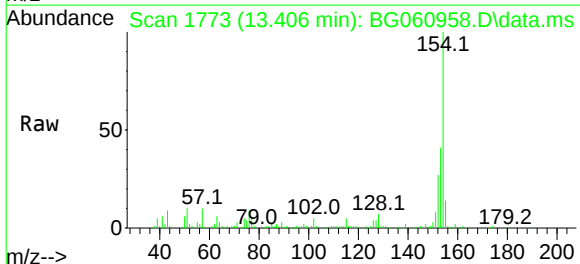
ClientSampleId :

B-131-SB01

Tgt Ion:	154	Resp:	113246
Ion Ratio	Lower	Upper	
154	100		
153	41.5	19.9	59.9
76	9.2	0.0	32.7

Manual Integrations
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Reviewed By :Yogesh Patel 04/22/2024
Supervised By :mohammad ahmed 04/22/2024



#49

Acenaphthylene

Concen: 6.254 ng

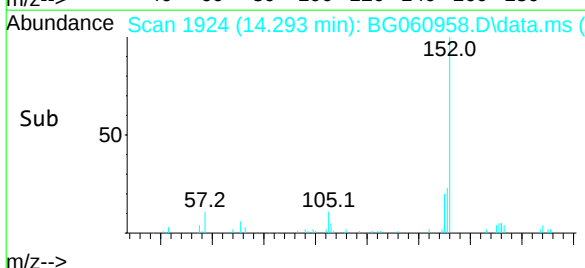
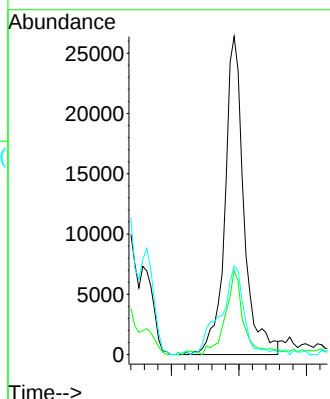
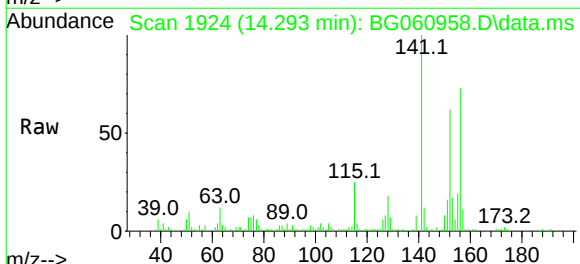
RT: 14.293 min Scan# 1924

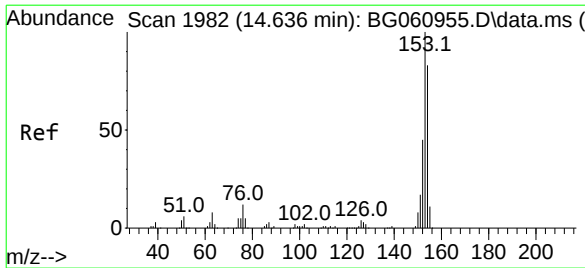
Delta R.T. -0.000 min

Lab File: BG060958.D

Acq: 19 Apr 2024 14:11

Tgt Ion:	152	Resp:	51560
Ion Ratio	Lower	Upper	
152	100		
151	26.6	16.3	24.5#
153	27.8	10.4	15.6#





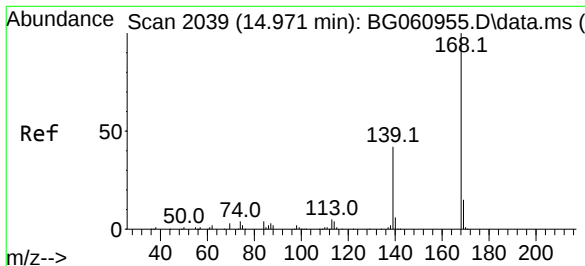
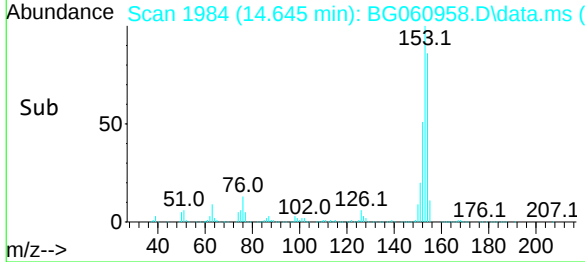
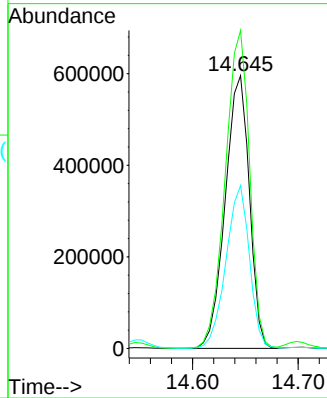
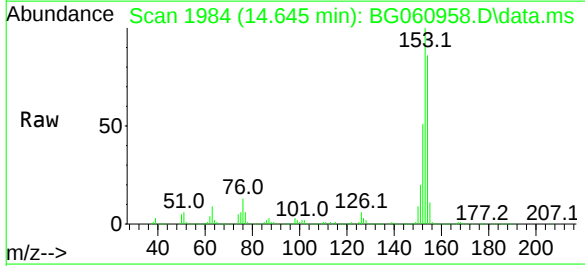
#52
Acenaphthene
Concen: 189.087 ng
RT: 14.645 min Scan# 19
Delta R.T. 0.012 min
Lab File: BG060958.D
Acq: 19 Apr 2024 14:11

Instrument :
BNA_G
ClientSampleId :
B-131-SB01

Tgt Ion:154 Resp: 945418
Ion Ratio Lower Upper
154 100
153 116.6 91.4 137.0
152 59.7 44.1 66.1

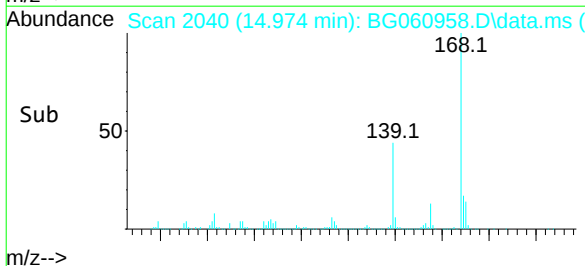
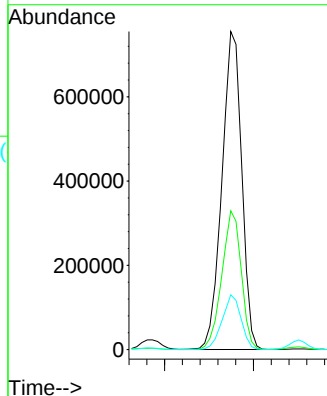
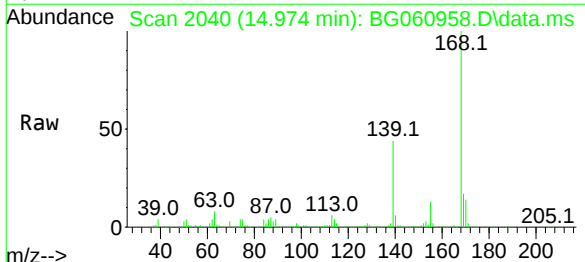
Manual Integrations
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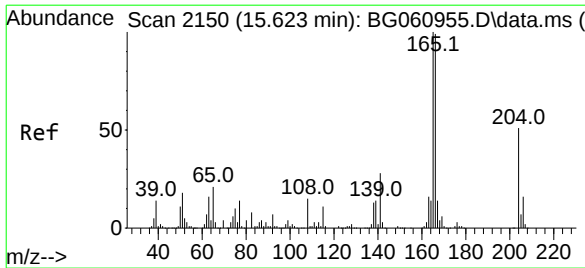
Reviewed By :Yogesh Patel 04/22/2024
Supervised By :mohammad ahmed 04/22/2024



#55
Dibenzofuran
Concen: 138.406 ng
RT: 14.974 min Scan# 2040
Delta R.T. 0.005 min
Lab File: BG060958.D
Acq: 19 Apr 2024 14:11

Tgt Ion:168 Resp: 1168992
Ion Ratio Lower Upper
168 100
139 43.6 29.9 44.9
169 17.2 10.6 16.0#





#58

Fluorene

Concen: 185.470 ng

RT: 15.633 min Scan# 21

Delta R.T. 0.012 min

Lab File: BG060958.D

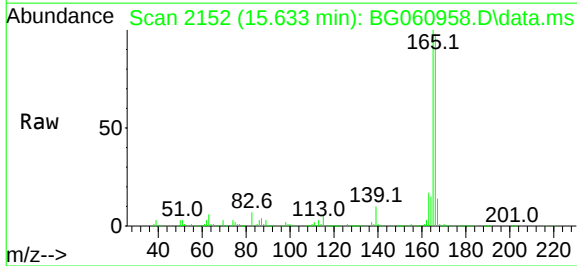
Acq: 19 Apr 2024 14:11

Instrument :

BNA_G

ClientSampleId :

B-131-SB01



Tgt Ion:166 Resp: 1299384

Ion Ratio Lower Upper

166 100

165 102.2 80.2 120.4

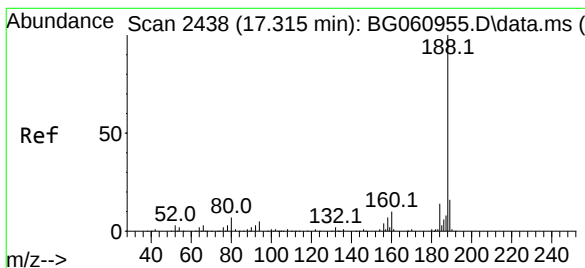
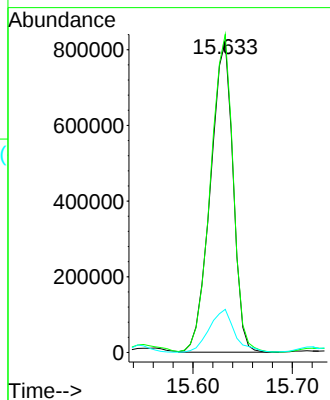
167 13.9 10.4 15.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/22/2024

Supervised By :mohammad ahmed 04/22/2024



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.325 min Scan# 2440

Delta R.T. 0.006 min

Lab File: BG060958.D

Acq: 19 Apr 2024 14:11

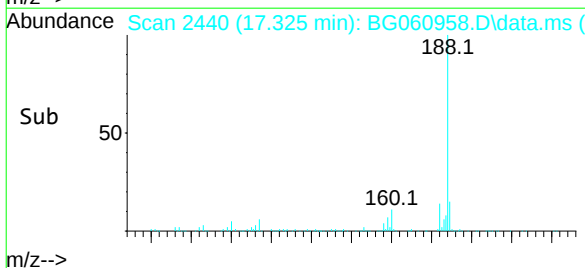
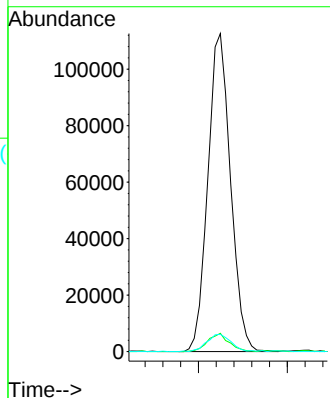
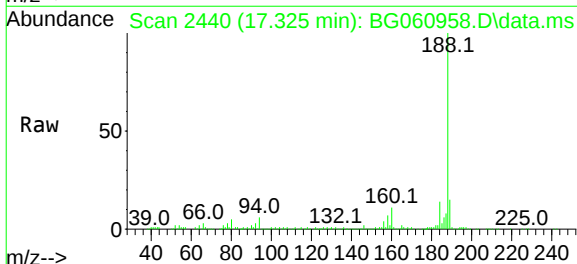
Tgt Ion:188 Resp: 199617

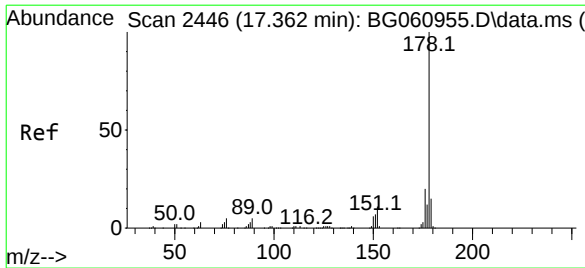
Ion Ratio Lower Upper

188 100

94 5.7 5.7 8.5

80 5.4 6.6 9.8#





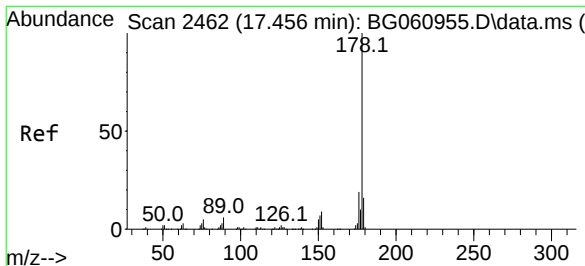
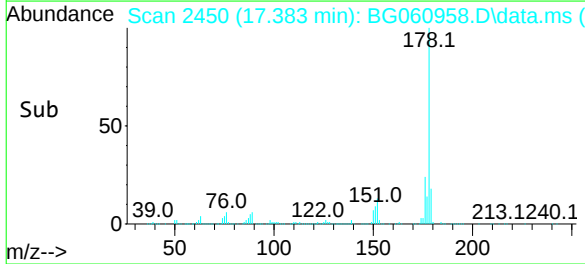
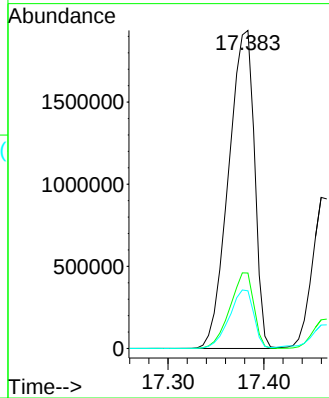
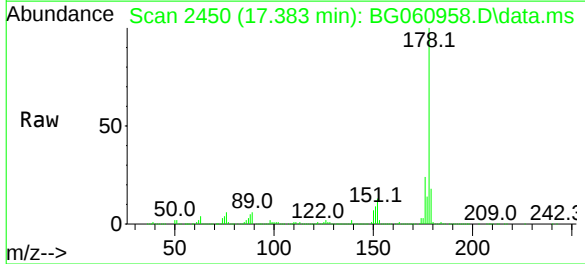
#71
Phenanthrene
Concen: 359.527 ng m
RT: 17.383 min Scan# 2446
Delta R.T. 0.023 min
Lab File: BG060958.D
Acq: 19 Apr 2024 14:11

Instrument :
BNA_G
ClientSampleId :
B-131-SB01

Tgt Ion:178 Resp: 3632657
Ion Ratio Lower Upper
178 100
176 23.7 15.4 23.2#
179 18.1 12.0 18.0#

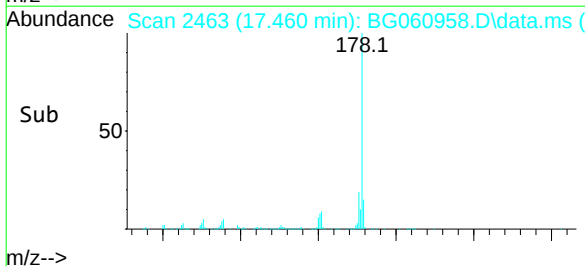
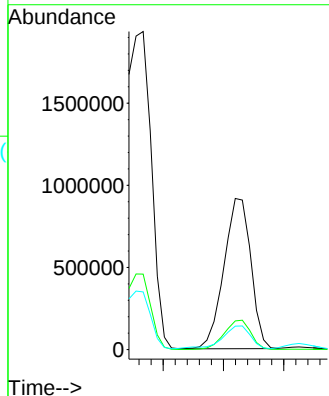
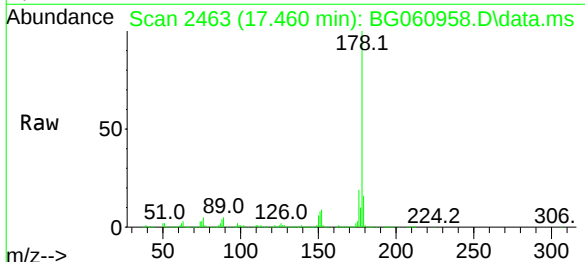
Manual Integrations
APPROVED

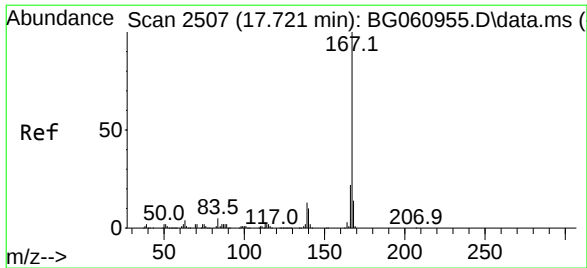
Reviewed By :Yogesh Patel 04/22/2024
Supervised By :mohammad ahmed 04/22/2024



#72
Anthracene
Concen: 137.267 ng
RT: 17.460 min Scan# 2463
Delta R.T. 0.006 min
Lab File: BG060958.D
Acq: 19 Apr 2024 14:11

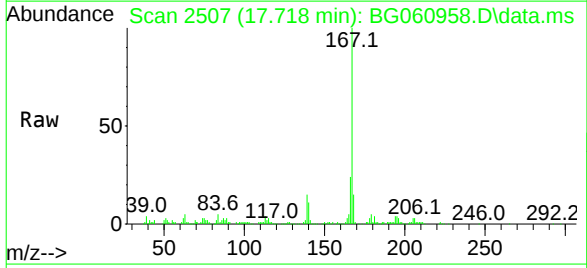
Tgt Ion:178 Resp: 1424654
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.4
179 15.5 11.6 17.4





#73
 Carbazole
 Concen: 12.947 ng
 RT: 17.718 min Scan# 2507
 Delta R.T. -0.000 min
 Lab File: BG060958.D
 Acq: 19 Apr 2024 14:11

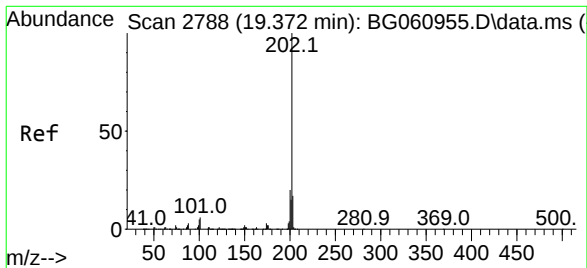
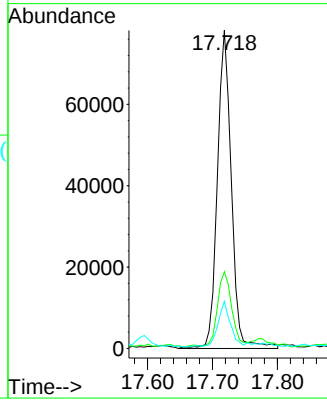
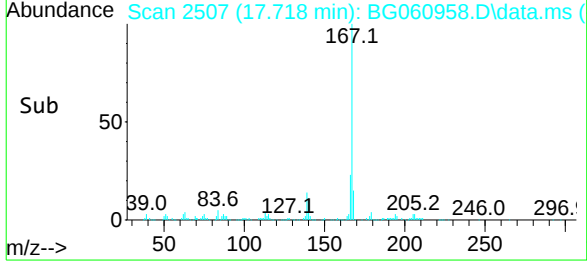
Instrument : BNA_G
 ClientSampleId : B-131-SB01



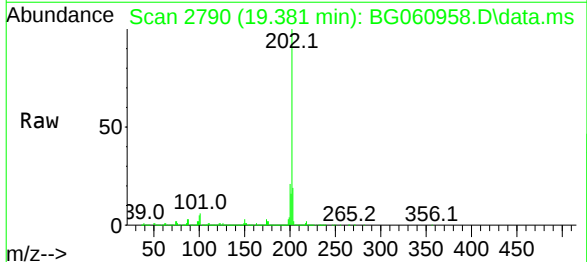
Tgt Ion:	167	Resp:	117077
Ion	Ratio	Lower	Upper
167	100		
166	24.1	18.4	27.6
139	14.8	10.1	15.1

Manual Integrations
 APPROVED

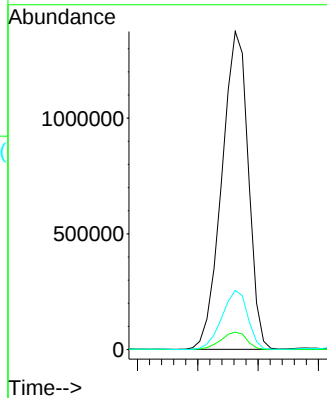
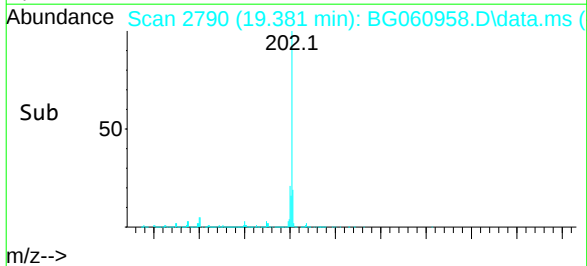
Reviewed By :Yogesh Patel 04/22/2024
 Supervised By :mohammad ahmed 04/22/2024

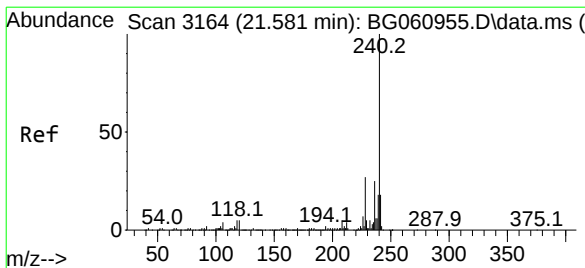


#75
 Fluoranthene
 Concen: 162.820 ng
 RT: 19.381 min Scan# 2790
 Delta R.T. 0.012 min
 Lab File: BG060958.D
 Acq: 19 Apr 2024 14:11



Tgt Ion:	202	Resp:	2093989
Ion	Ratio	Lower	Upper
202	100		
101	5.5	0.0	28.6
203	18.6	0.0	37.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.578 min Scan# 31

Delta R.T. -0.000 min

Lab File: BG060958.D

Acq: 19 Apr 2024 14:11

Instrument :

BNA_G

ClientSampleId :

B-131-SB01

Tgt Ion:240 Resp: 197186

Ion Ratio Lower Upper

240 100

120 6.2 5.7 8.5

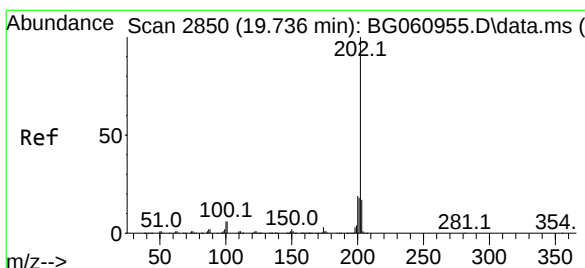
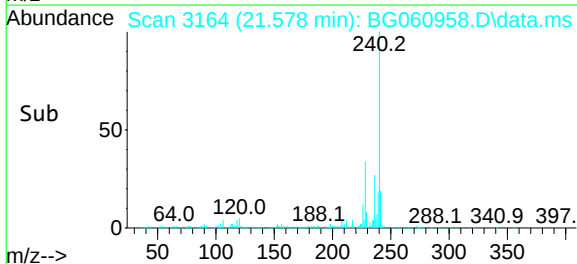
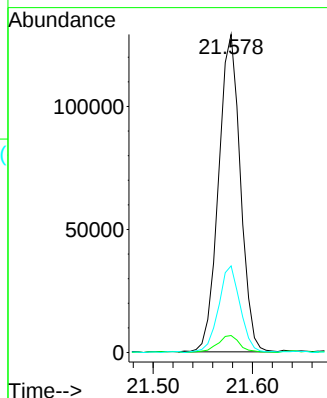
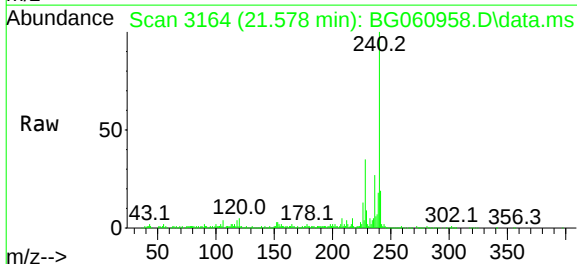
236 27.2 21.1 31.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/22/2024

Supervised By :mohammad ahmed 04/22/2024



#78

Pyrene

Concen: 109.907 ng

RT: 19.739 min Scan# 2851

Delta R.T. 0.006 min

Lab File: BG060958.D

Acq: 19 Apr 2024 14:11

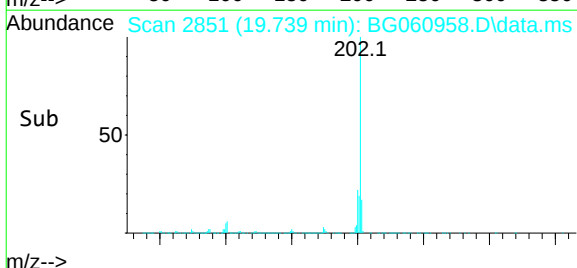
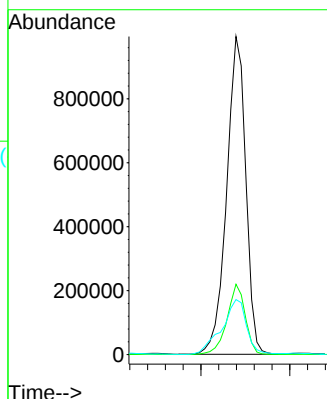
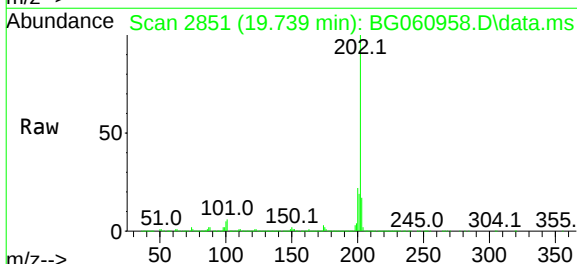
Tgt Ion:202 Resp: 1486675

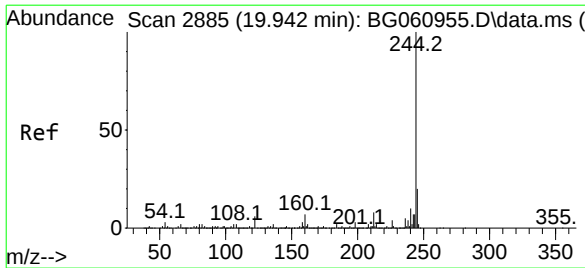
Ion Ratio Lower Upper

202 100

200 22.1 16.7 25.1

203 17.3 13.8 20.8





#79

Terphenyl-d14

Concen: 51.293 ng

RT: 19.939 min Scan# 2885

Delta R.T. -0.000 min

Lab File: BG060958.D

Acq: 19 Apr 2024 14:11

Instrument :

BNA_G

ClientSampleId :

B-131-SB01

Tgt Ion:244 Resp: 579538

Ion Ratio Lower Upper

244 100

212 7.7 6.2 9.4

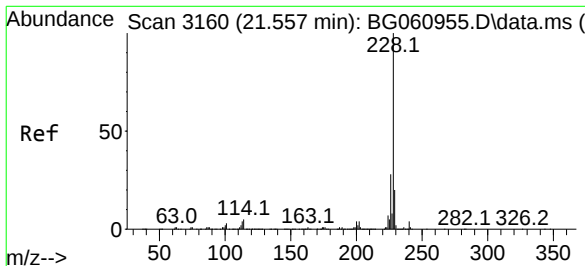
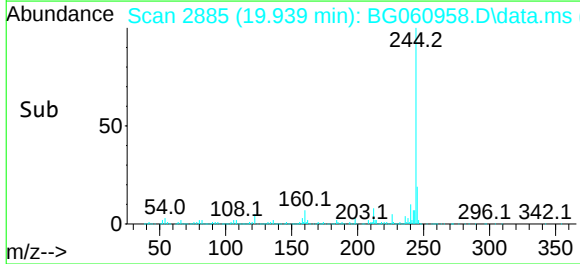
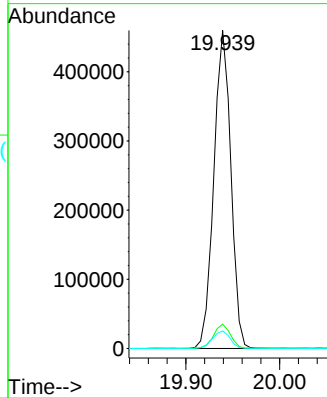
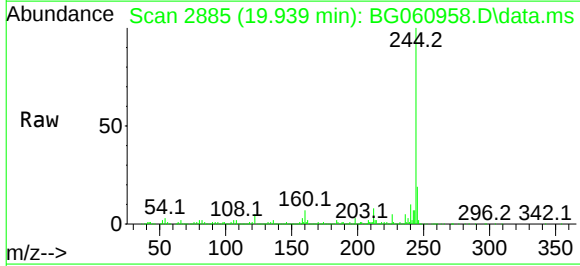
122 5.5 6.6 9.8#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/22/2024

Supervised By :mohammad ahmed 04/22/2024



#81

Benzo(a)anthracene

Concen: 26.796 ng

RT: 21.561 min Scan# 3161

Delta R.T. -0.000 min

Lab File: BG060958.D

Acq: 19 Apr 2024 14:11

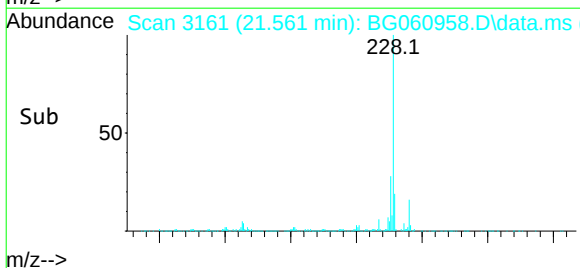
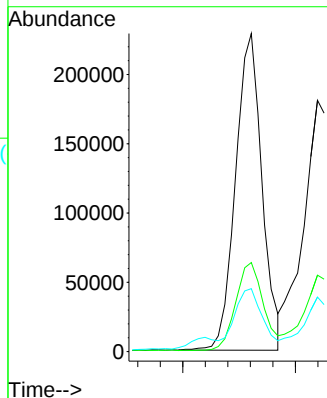
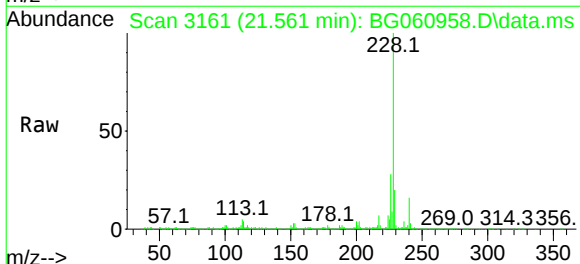
Tgt Ion:228 Resp: 373115

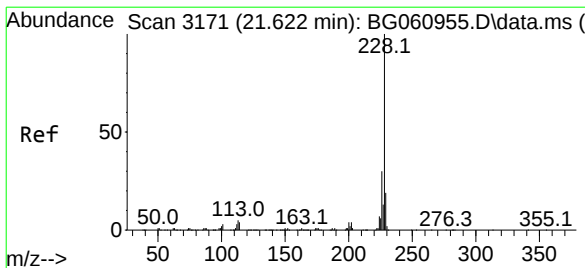
Ion Ratio Lower Upper

228 100

226 28.0 22.0 33.0

229 19.8 15.6 23.4





#83

Chrysene

Concen: 24.015 ng

RT: 21.620 min Scan# 3171

Delta R.T. -0.006 min

Lab File: BG060958.D

Acq: 19 Apr 2024 14:11

Instrument :

BNA_G

ClientSampleId :

B-131-SB01

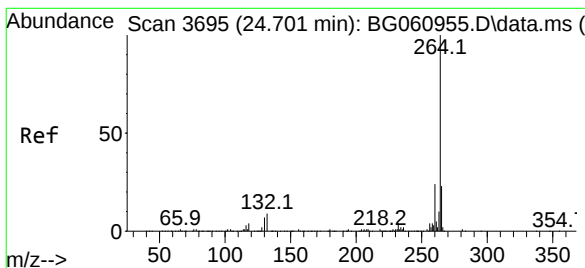
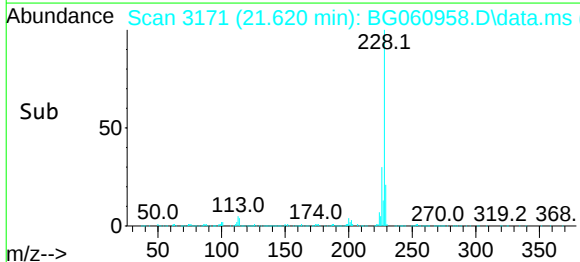
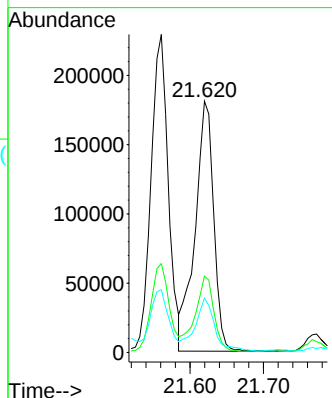
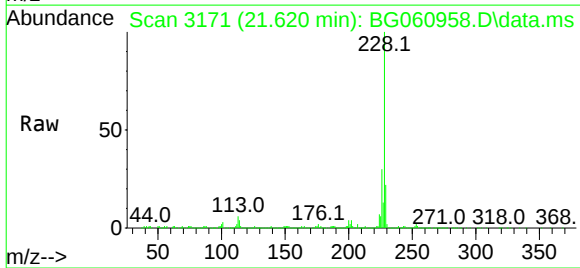
Tgt Ion:	228	Resp:	319275
Ion Ratio	Lower	Upper	
228	100		
226	30.4	24.4	36.6
229	21.7	15.6	23.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/22/2024

Supervised By :mohammad ahmed 04/22/2024



#86

Perylene-d12

Concen: 20.000 ng

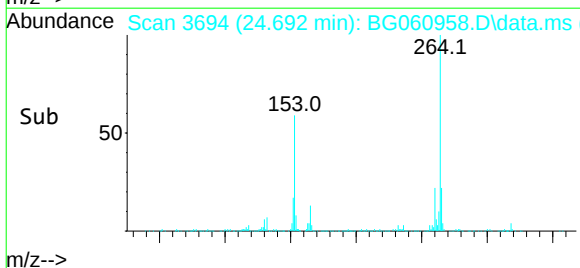
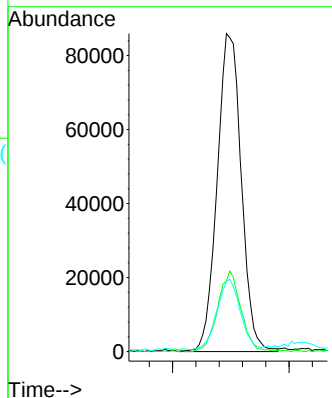
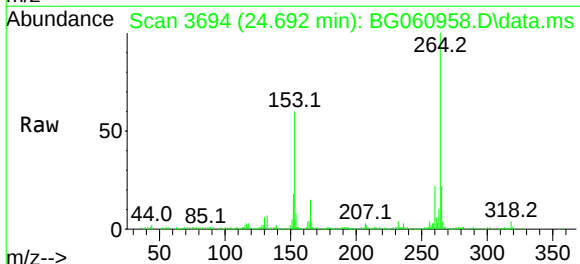
RT: 24.692 min Scan# 3694

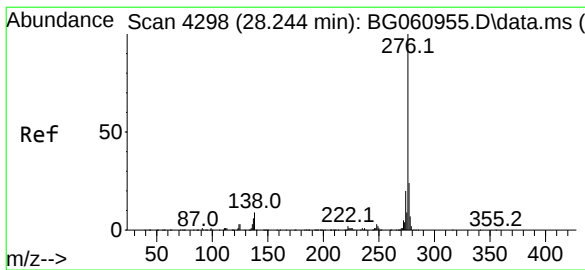
Delta R.T. -0.006 min

Lab File: BG060958.D

Acq: 19 Apr 2024 14:11

Tgt Ion:	264	Resp:	247589
Ion Ratio	Lower	Upper	
264	100		
260	22.2	19.6	29.4
265	22.1	16.6	25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.142 ng

RT: 28.235 min Scan# 4298

Delta R.T. -0.012 min

Lab File: BG060958.D

Acq: 19 Apr 2024 14:11

Instrument :

BNA_G

ClientSampleId :

B-131-SB01

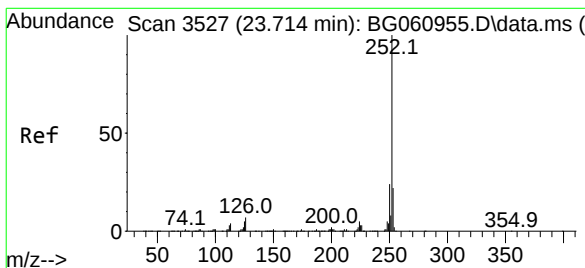
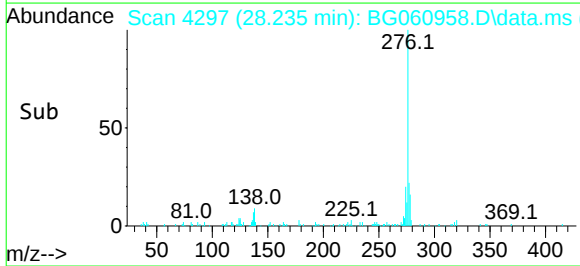
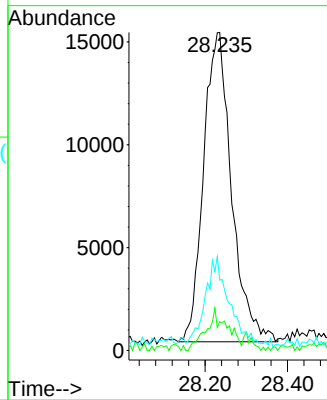
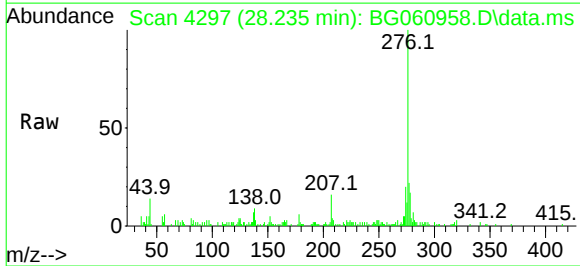
Tgt Ion:	276	Resp:	70923
Ion Ratio	Lower	Upper	
276	100		
138	6.8	10.8	16.2
277	23.6	20.3	30.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/22/2024

Supervised By :mohammad ahmed 04/22/2024



#88

Benzo(b)fluoranthene

Concen: 15.150 ng

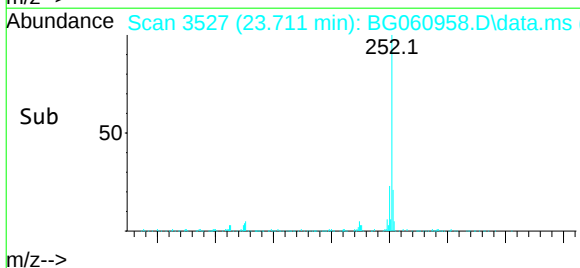
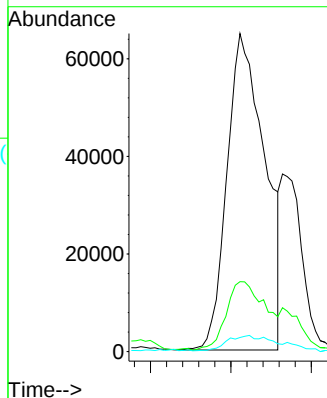
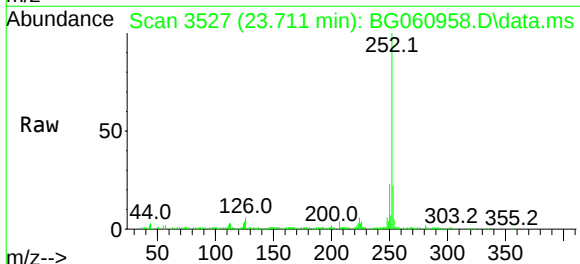
RT: 23.711 min Scan# 3527

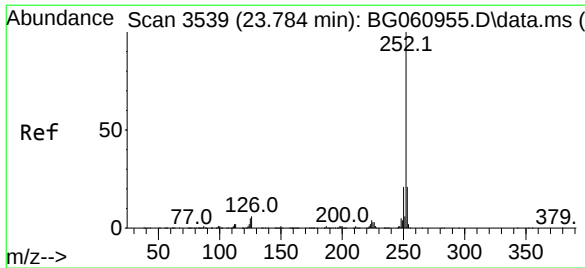
Delta R.T. -0.006 min

Lab File: BG060958.D

Acq: 19 Apr 2024 14:11

Tgt Ion:	252	Resp:	212223
Ion Ratio	Lower	Upper	
252	100		
253	22.0	16.8	25.2
125	4.4	5.6	8.4





#89

Benzo(k)fluoranthene

Concen: 4.624 ng m

RT: 23.764 min Scan# 35

Delta R.T. -0.018 min

Lab File: BG060958.D

Acq: 19 Apr 2024 14:11

Instrument :

BNA_G

ClientSampleId :

B-131-SB01

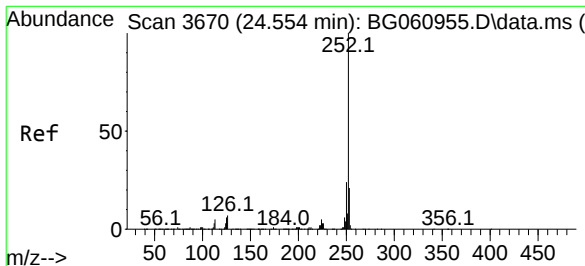
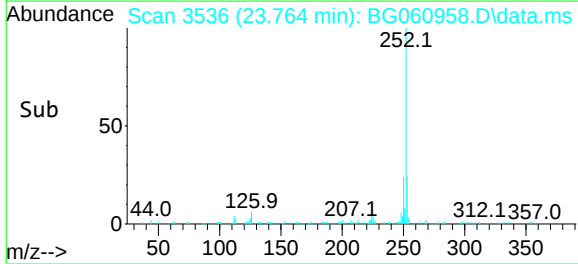
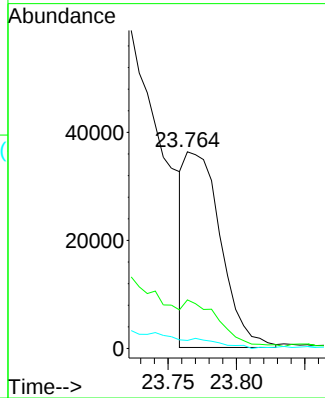
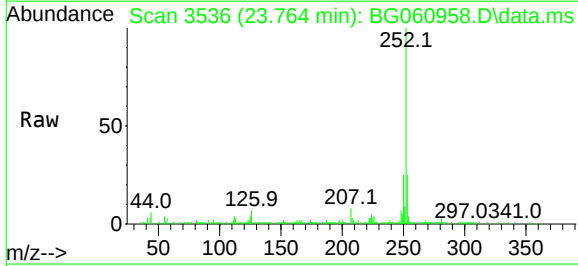
Tgt Ion:	252	Resp:	66269
Ion Ratio	Lower	Upper	
252	100		
253	24.7	17.9	26.9
125	4.1	5.8	8.8#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/22/2024

Supervised By :mohammad ahmed 04/22/2024



#90

Benzo(a)pyrene

Concen: 10.873 ng m

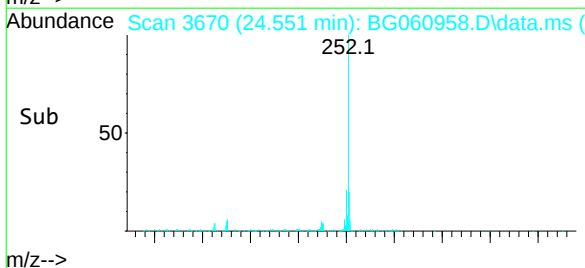
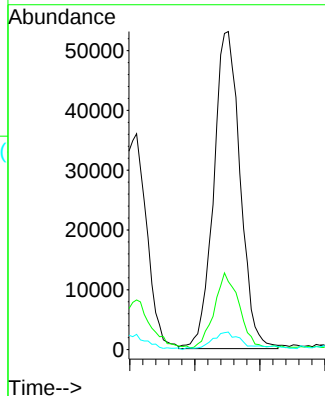
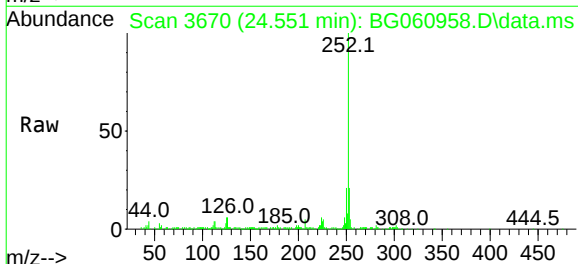
RT: 24.551 min Scan# 3670

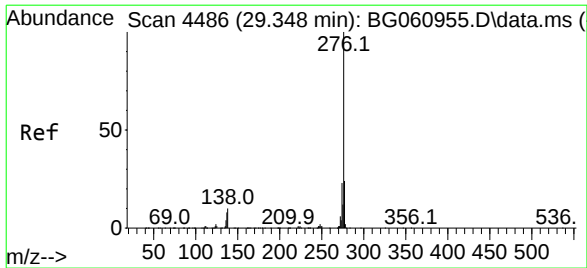
Delta R.T. -0.000 min

Lab File: BG060958.D

Acq: 19 Apr 2024 14:11

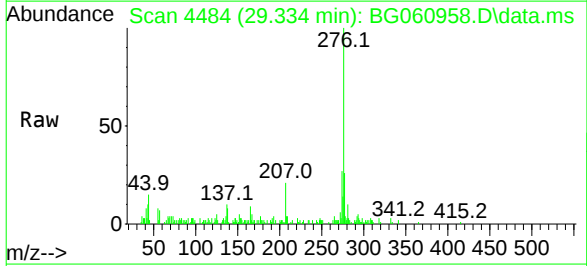
Tgt Ion:	252	Resp:	150164
Ion Ratio	Lower	Upper	
252	100		
253	21.4	17.1	25.7
125	5.5	6.1	9.1#





#92
 Benzo(g,h,i)perylene
 Concen: 4.576 ng
 RT: 29.334 min Scan# 44
 Delta R.T. -0.018 min
 Lab File: BG060958.D
 Acq: 19 Apr 2024 14:11

Instrument :
 BNA_G
 ClientSampleId :
 B-131-SB01



Tgt	Ion:276	Resp:	63050
Ion	Ratio	Lower	Upper
276	100		
277	26.1	18.3	27.5
138	7.9	12.2	18.4

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/22/2024
 Supervised By :mohammad ahmed 04/22/2024

