

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG062823\
 Data File : BG057898.D
 Acq On : 28 Jun 2023 18:42
 Operator : CG/JU
 Sample : 03403-01 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 ORA-1652

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/29/2023
 Supervised By :mohammad ahmed 06/29/2023

Quant Time: Jun 28 19:22:02 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG062723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 28 01:12:33 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.923	152	65354	20.000	ng	0.00
21) Naphthalene-d8	10.725	136	261509	20.000	ng	0.00
39) Acenaphthene-d10	14.556	164	158721	20.000	ng	0.00
64) Phenanthrene-d10	17.306	188	335139	20.000	ng	0.00
76) Chrysene-d12	21.565	240	266527	20.000	ng	0.00
86) Perylene-d12	24.721	264	253324	20.000	ng	# 0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.496	112	83773	19.612	ng	0.00
7) Phenol-d6	7.082	99	116753	18.279	ng	0.00
23) Nitrobenzene-d5	9.080	82	69306	12.988	ng	0.00
42) 2,4,6-Tribromophenol	16.042	330	41779	15.672	ng	0.00
45) 2-Fluorobiphenyl	13.175	172	142688	13.719	ng	0.00
79) Terphenyl-d14	19.914	244	190932	13.060	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.772	128	31642	2.267	ng	97
38) 1-Methylnaphthalene	12.605	142	20669	2.126	ng	96
49) Acenaphthylene	14.286	152	60419	4.150	ng	96
52) Acenaphthene	14.621	154	78643	9.246	ng	96
55) Dibenzofuran	14.955	168	84387	5.784	ng	97
58) Fluorene	15.602	166	127048	10.789	ng	99
71) Phenanthrene	17.347	178	1012399	62.930	ng	99
72) Anthracene	17.435	178	363080	21.883	ng	99
73) Carbazole	17.705	167	49668	3.148	ng	94
75) Fluoranthene	19.362	202	1781940	87.922	ng	96
78) Pyrene	19.726	202	1695644	89.099	ng	97
81) Benzo(a)anthracene	21.542	228	890649	48.288	ng	97
83) Chrysene	21.607	228	868035	49.719	ng	98
87) Indeno(1,2,3-cd)pyrene	28.316	276	238268	14.198	ng	# 89
88) Benzo(b)fluoranthene	23.728	252	865704	62.656	ng	95
89) Benzo(k)fluoranthene	23.780	252	355524m	25.459	ng	
90) Benzo(a)pyrene	24.579	252	722585	52.795	ng	96
91) Dibenzo(a,h)anthracene	28.357	278	49000	3.520	ng	# 81
92) Benzo(g,h,i)perylene	29.444	276	190501	13.770	ng	96

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

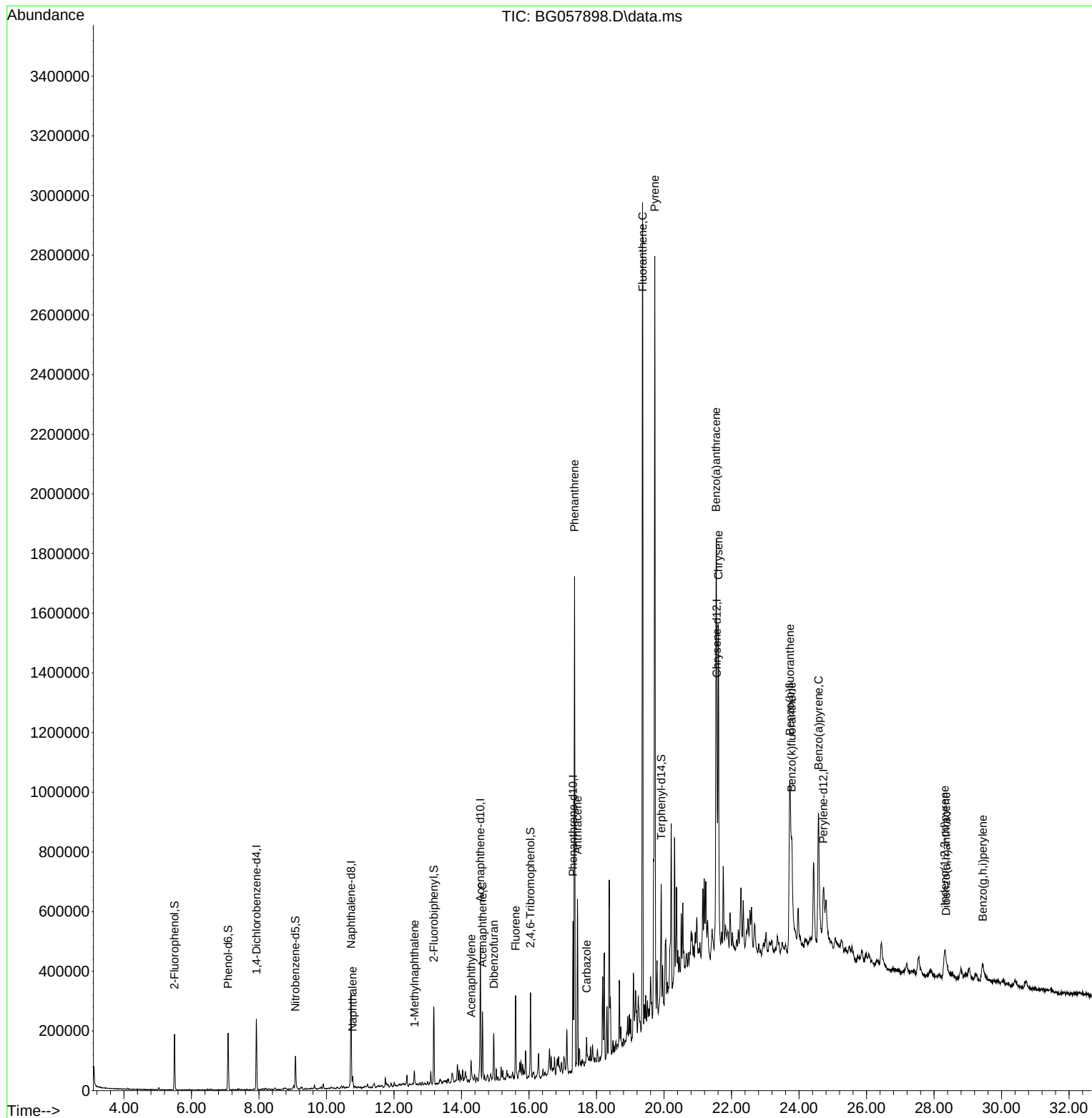
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG062823\
Data File : BG057898.D
Acq On : 28 Jun 2023 18:42
Operator : CG/JU
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ALS Vial : 17 Sample Multiplier: 1

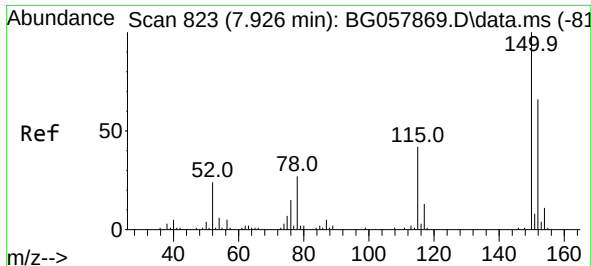
Instrument :
BNA_G
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Quant Time: Jun 28 19:22:02 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG062723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 28 01:12:33 2023
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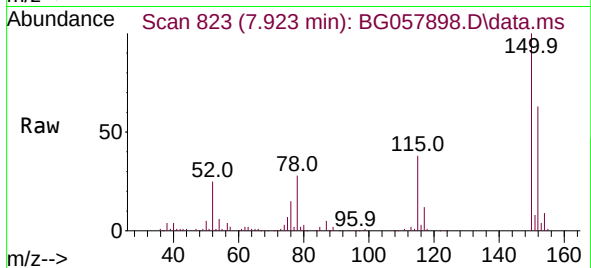
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.923 min Scan# 81
Delta R.T. -0.003 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42

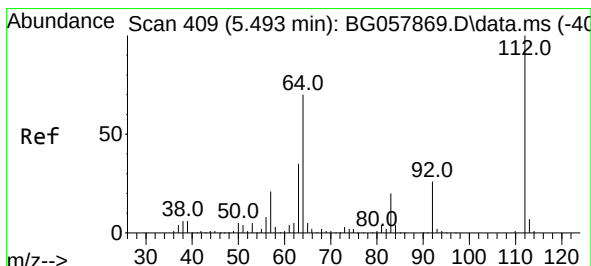
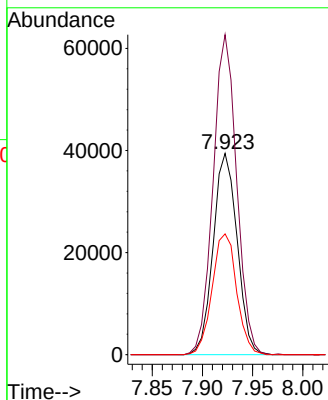
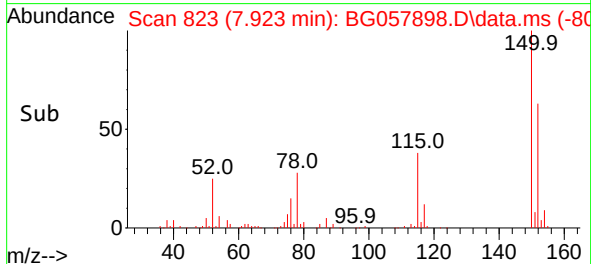
Instrument :
BNA_G
ClientSampleId :
ORA-1652



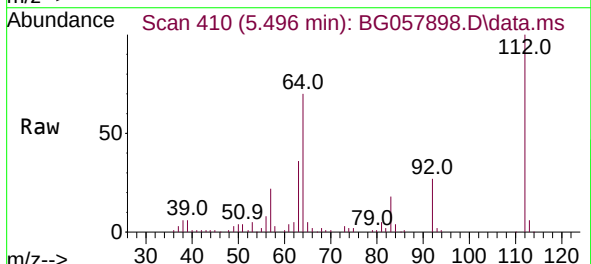
Tgt Ion:152 Resp: 65354
Ion Ratio Lower Upper
152 100
150 159.0 122.0 183.0
115 60.0 50.7 76.1

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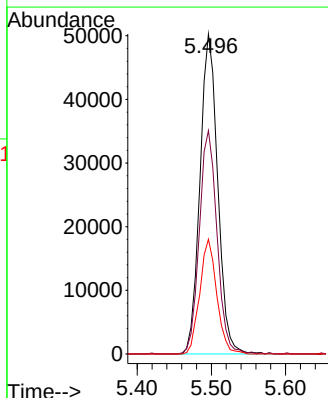
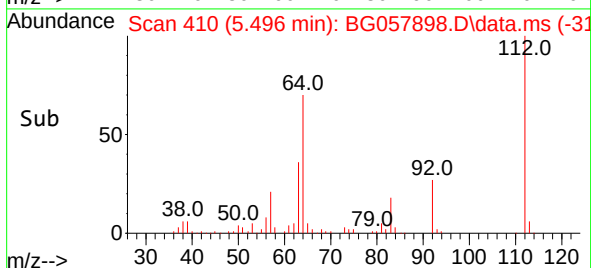
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023

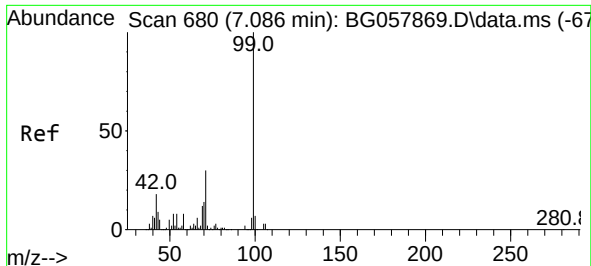


#5
2-Fluorophenol
Concen: 19.612 ng
RT: 5.496 min Scan# 410
Delta R.T. 0.003 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42



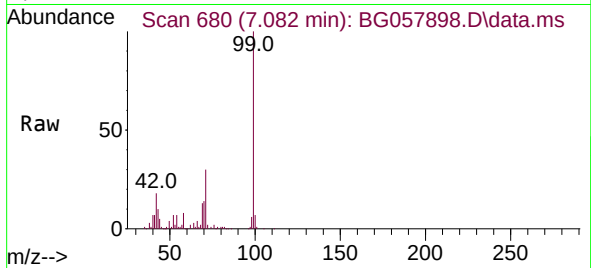
Tgt Ion:112 Resp: 83773
Ion Ratio Lower Upper
112 100
64 69.8 55.8 83.6
63 35.9 27.9 41.9





#7
Phenol-d6
Concen: 18.279 ng
RT: 7.082 min Scan# 61
Delta R.T. -0.003 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42

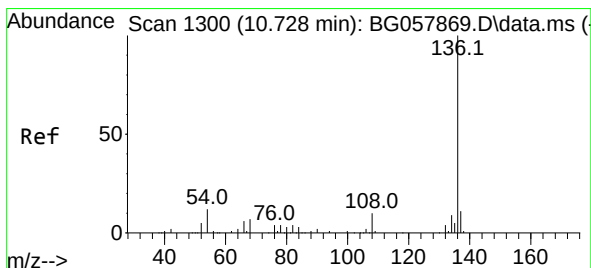
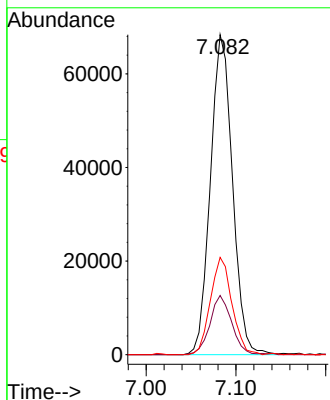
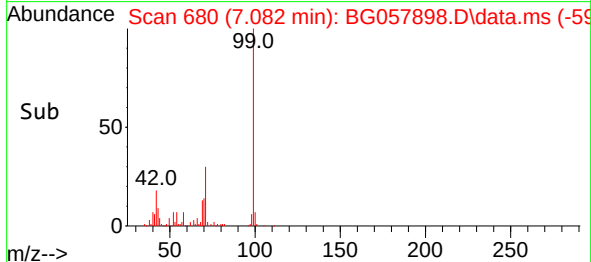
Instrument :
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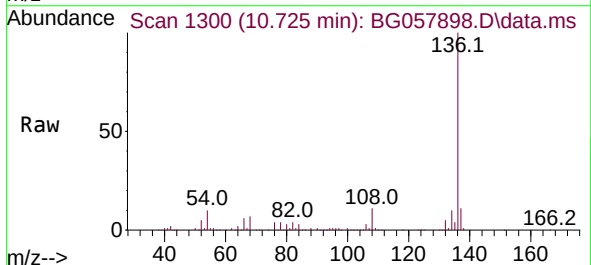
Tgt Ion: 99 Resp: 11675
Ion Ratio Lower Upper
99 100
42 18.5 14.2 21.4
71 30.4 23.9 35.9

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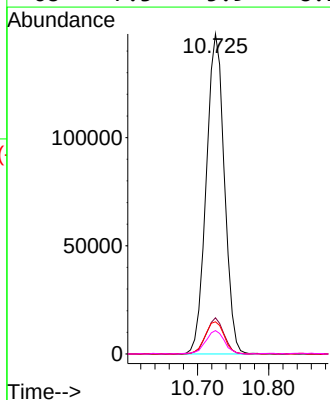
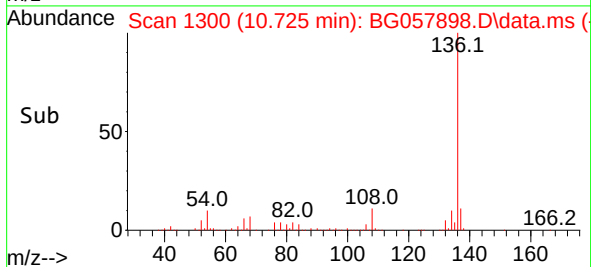
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023

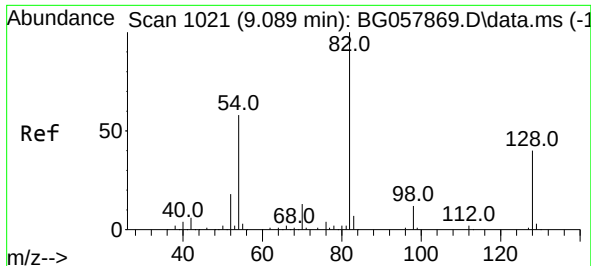


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.725 min Scan# 1300
Delta R.T. -0.003 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42



Tgt Ion:136 Resp: 261509
Ion Ratio Lower Upper
136 100
137 11.3 8.6 12.8
54 10.1 9.3 13.9
68 7.3 5.9 8.9





#23

Nitrobenzene-d5

Concen: 12.988 ng

RT: 9.080 min Scan# 1020

Delta R.T. -0.009 min

Lab File: BG057898.D

Acq: 28 Jun 2023 18:42

Instrument :

BNA_G

ClientSampleId :

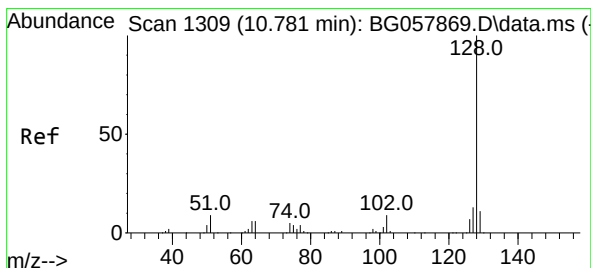
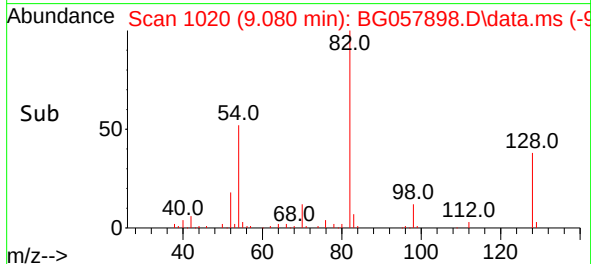
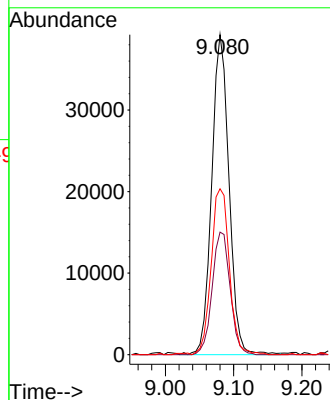
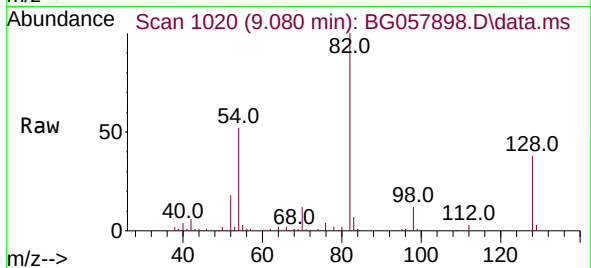
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Tgt Ion: 82 Resp: 69300
 Ion Ratio Lower Upper
 82 100
 128 38.3 32.2 48.4
 54 51.9 46.1 69.1

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 Supervised By :mohammad ahmed 06/29/2023



#31

Naphthalene

Concen: 2.267 ng

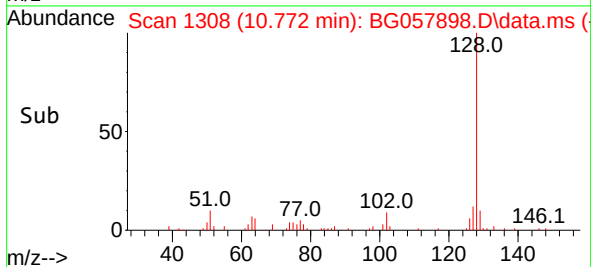
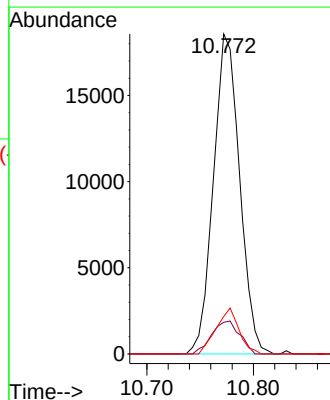
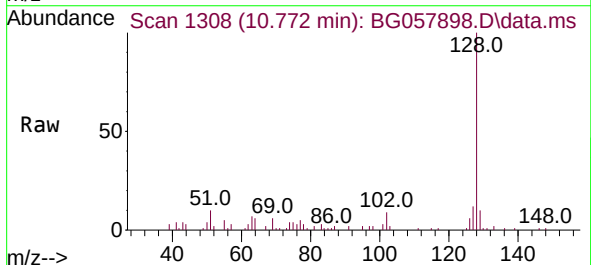
RT: 10.772 min Scan# 1308

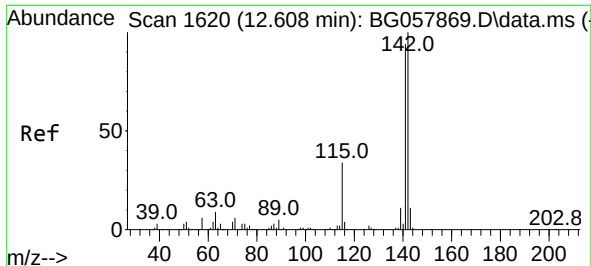
Delta R.T. -0.009 min

Lab File: BG057898.D

Acq: 28 Jun 2023 18:42

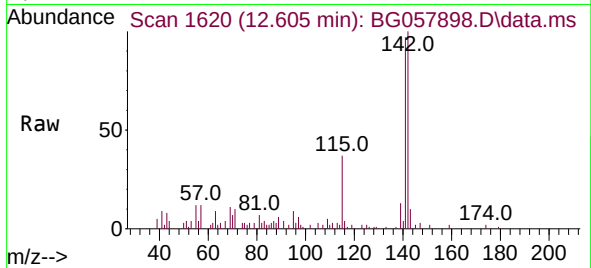
Tgt Ion:128 Resp: 31642
 Ion Ratio Lower Upper
 128 100
 129 9.9 8.5 12.7
 127 11.7 10.3 15.5





#38
1-Methylnaphthalene
Concen: 2.126 ng
RT: 12.605 min Scan# 110
Delta R.T. -0.003 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42

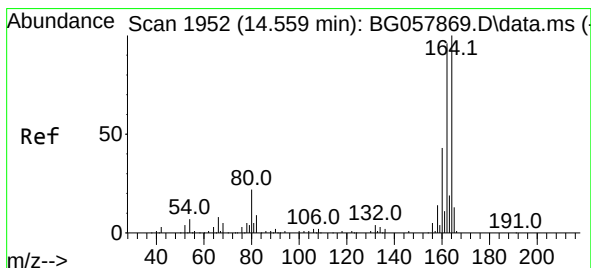
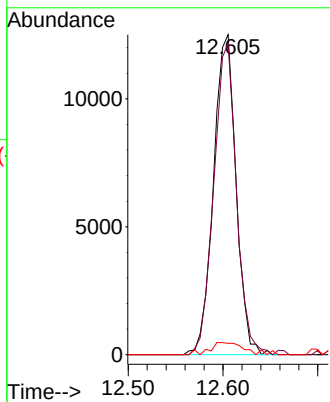
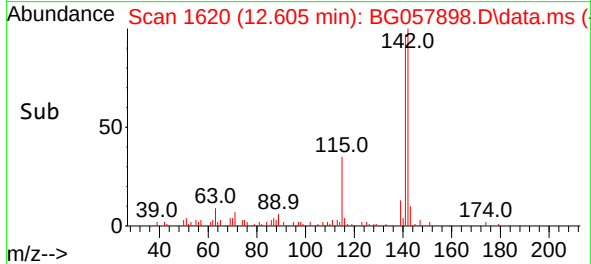
Instrument :
BNA_G
ClientSampleId :
ORA-1652



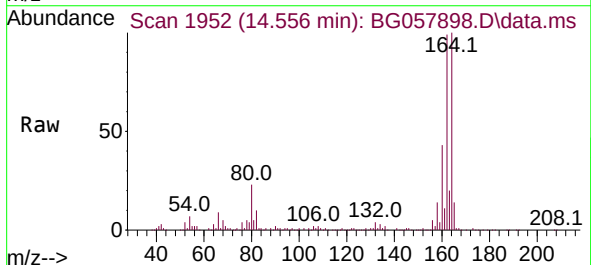
Tgt Ion:142 Resp: 20669
Ion Ratio Lower Upper
142 100
141 97.2 74.8 112.2
116 3.6 3.0 4.6

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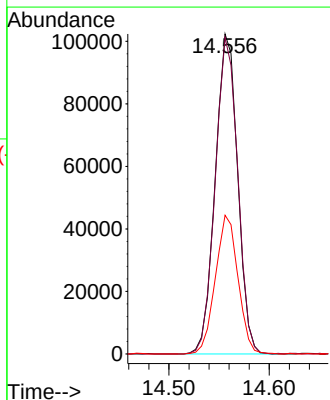
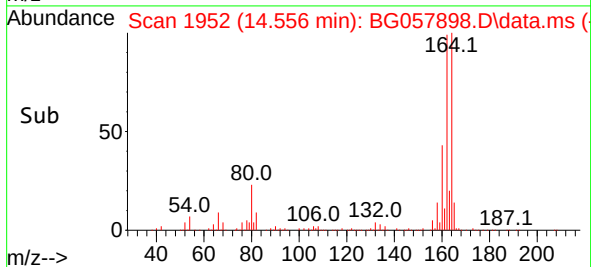
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023

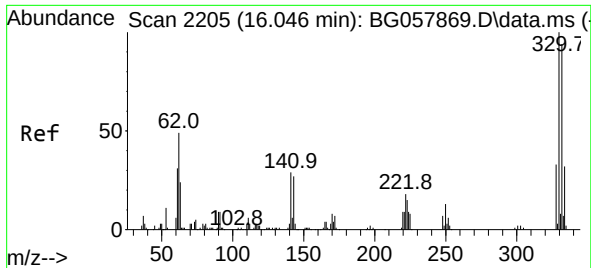


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.556 min Scan# 1952
Delta R.T. -0.003 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42



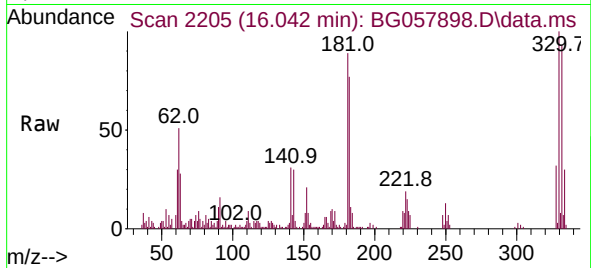
Tgt Ion:164 Resp: 158721
Ion Ratio Lower Upper
164 100
162 98.9 76.4 114.6
160 43.3 34.2 51.2





#42
2,4,6-Tribromophenol
Concen: 15.672 ng
RT: 16.042 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42

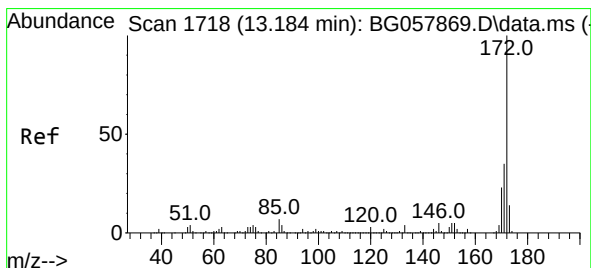
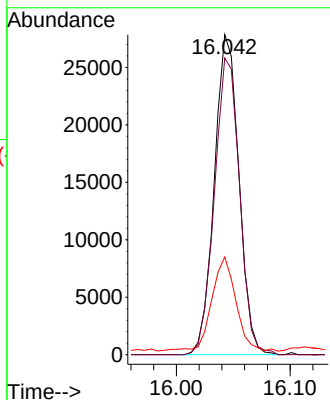
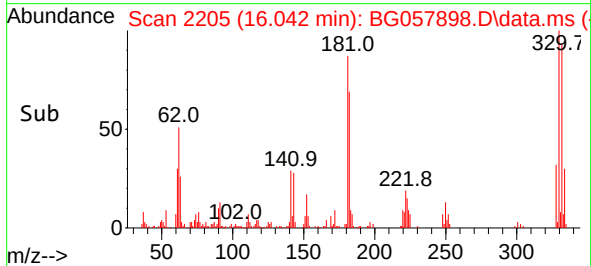
Instrument :
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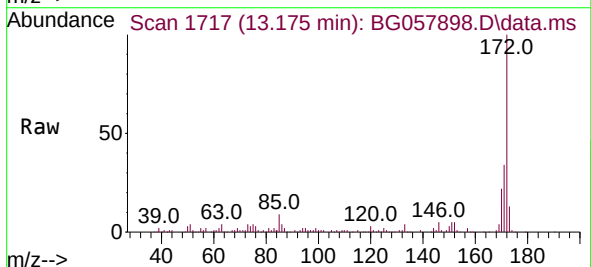
Tgt Ion:330 Resp: 41779
Ion Ratio Lower Upper
330 100
332 95.0 77.1 115.7
141 30.1 22.2 33.4

Manual Integrations
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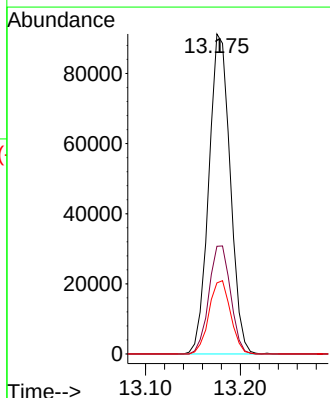
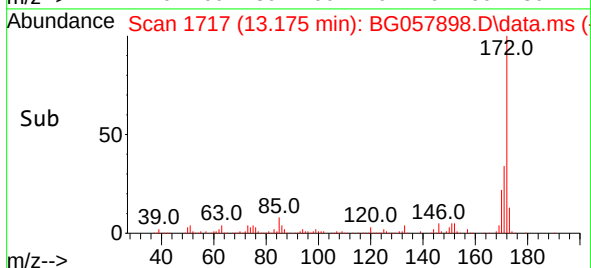
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023

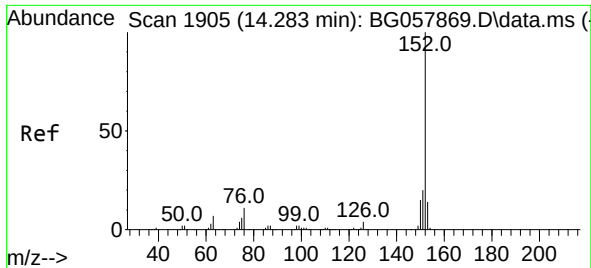


#45
2-Fluorobiphenyl
Concen: 13.719 ng
RT: 13.175 min Scan# 1717
Delta R.T. -0.009 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42



Tgt Ion:172 Resp: 142688
Ion Ratio Lower Upper
172 100
171 33.6 27.8 41.8
170 22.2 18.6 27.8





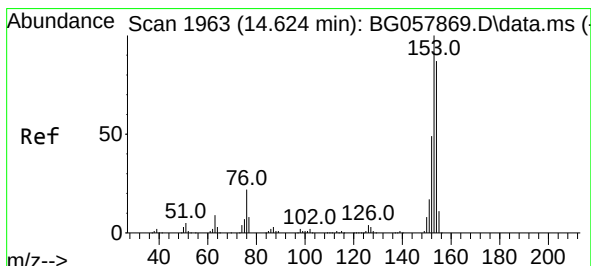
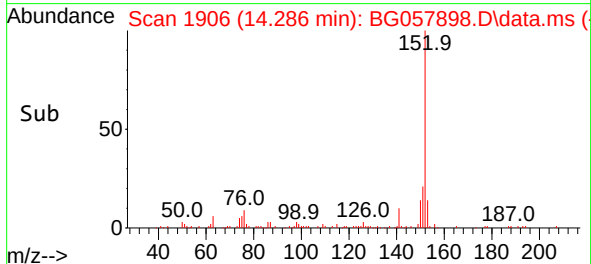
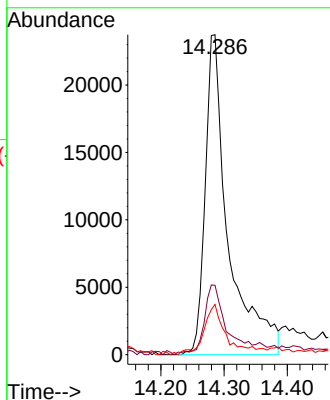
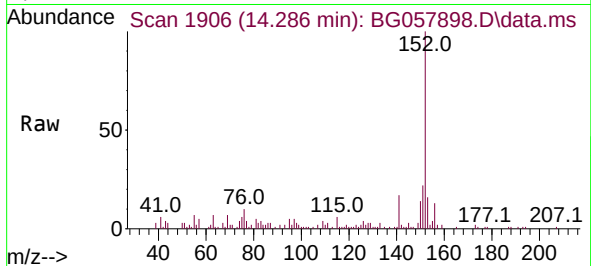
#49
Acenaphthylene
Concen: 4.150 ng
RT: 14.286 min Scan# 1905
Delta R.T. 0.003 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42

Instrument :
BNA_G
ClientSampleId :
ORA-1652

Tgt Ion:152 Resp: 60419
Ion Ratio Lower Upper
152 100
151 21.7 16.2 24.2
153 15.7 10.8 16.2

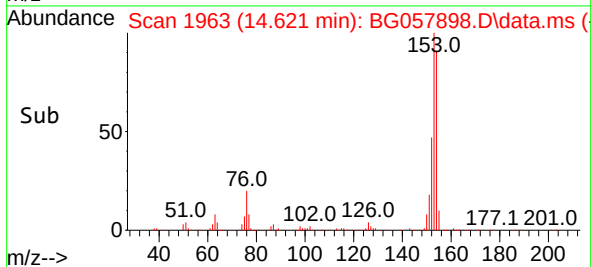
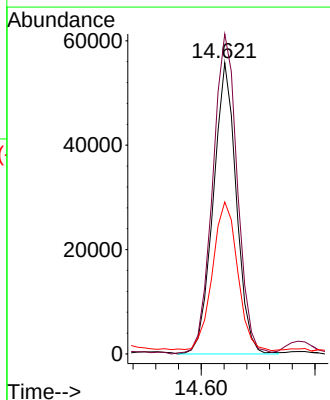
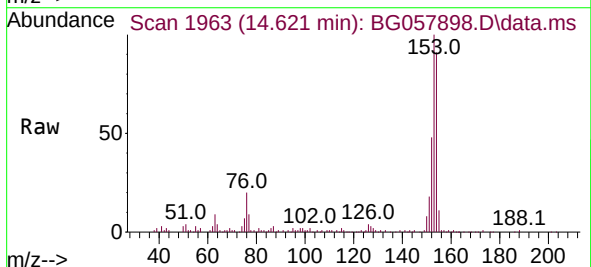
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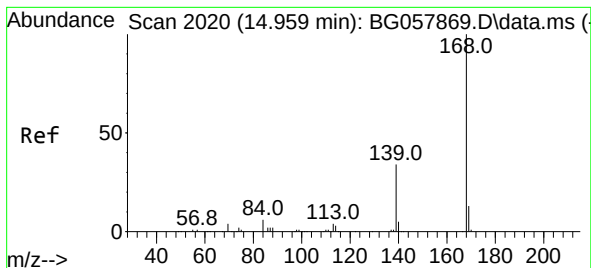
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023



#52
Acenaphthene
Concen: 9.246 ng
RT: 14.621 min Scan# 1963
Delta R.T. -0.003 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42

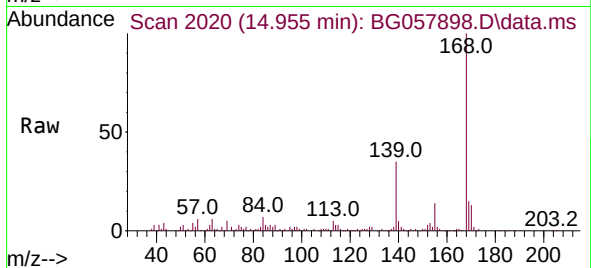
Tgt Ion:154 Resp: 78643
Ion Ratio Lower Upper
154 100
153 109.9 91.5 137.3
152 52.2 44.6 67.0





#55
Dibenzenofuran
Concen: 5.784 ng
RT: 14.955 min Scan# 20
Delta R.T. -0.003 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42

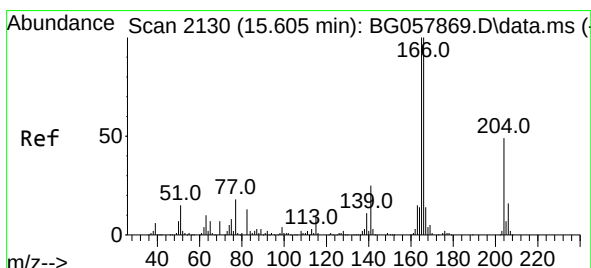
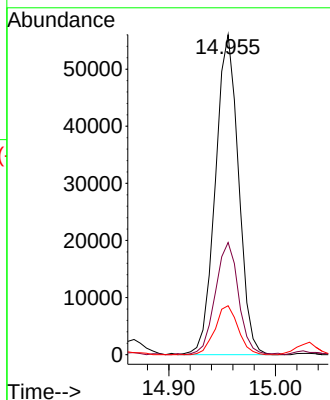
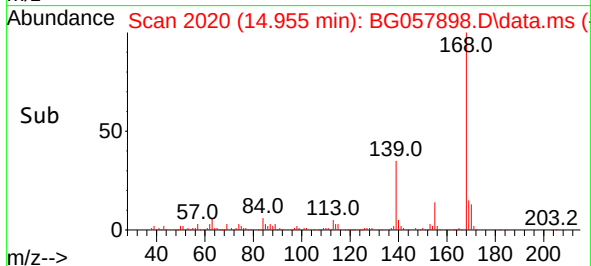
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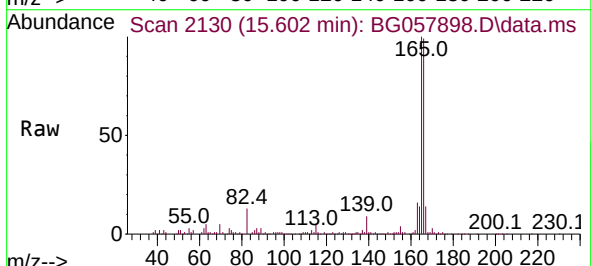
Tgt Ion:168 Resp: 8438
Ion Ratio Lower Upper
168 100
139 35.0 27.3 40.9
169 15.3 10.3 15.5

Manual Integrations
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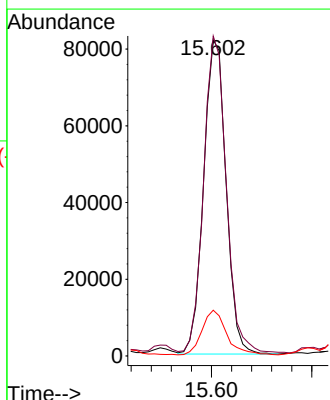
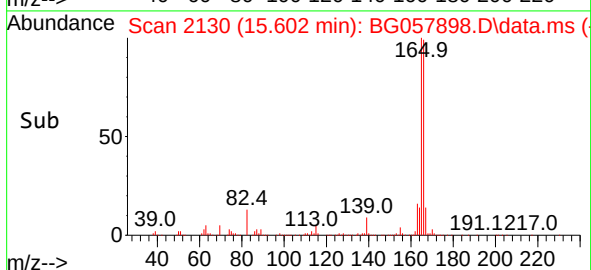
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023

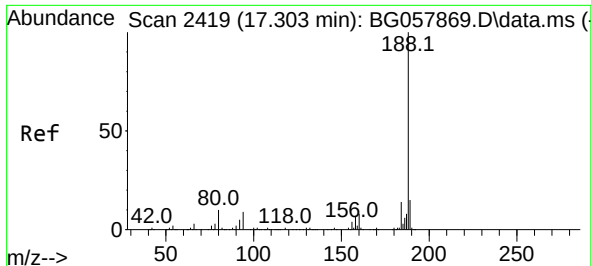


#58
Fluorene
Concen: 10.789 ng
RT: 15.602 min Scan# 2130
Delta R.T. -0.003 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42



Tgt Ion:166 Resp: 127048
Ion Ratio Lower Upper
166 100
165 101.2 80.0 120.0
167 14.5 11.0 16.4





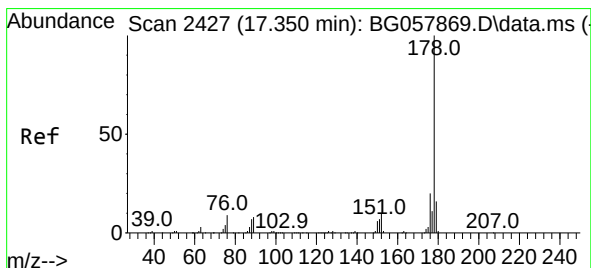
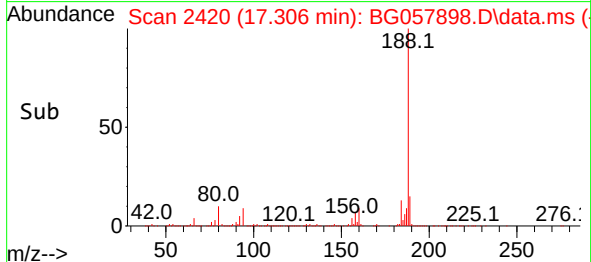
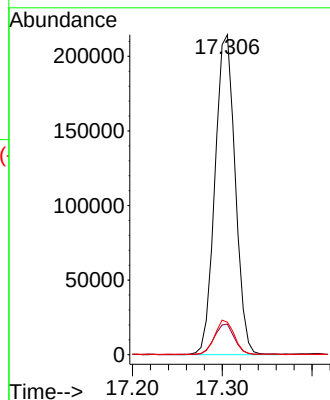
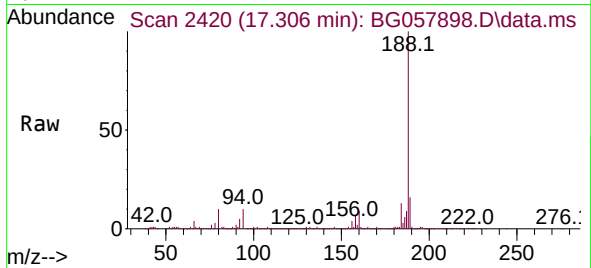
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.306 min Scan# 2419
Delta R.T. 0.003 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42

Instrument :
BNA_G
ClientSampleId :
ORA-1652

Tgt Ion:188 Resp: 335139
Ion Ratio Lower Upper
188 100
94 9.6 7.2 10.8
80 10.2 8.4 12.6

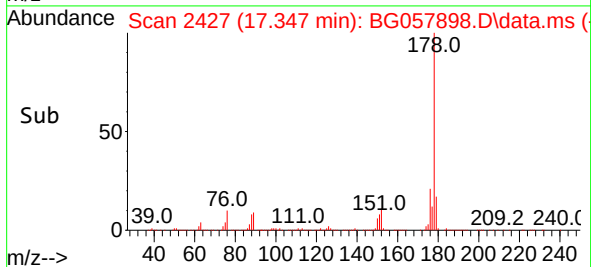
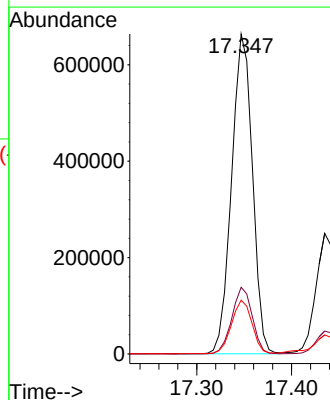
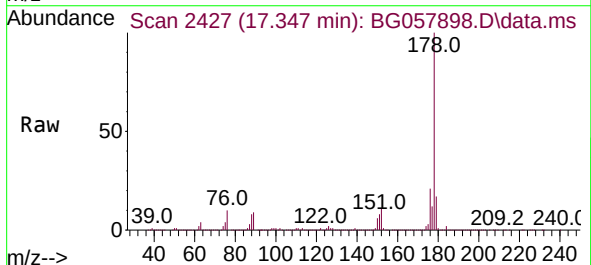
Manual Integrations
APPROVED

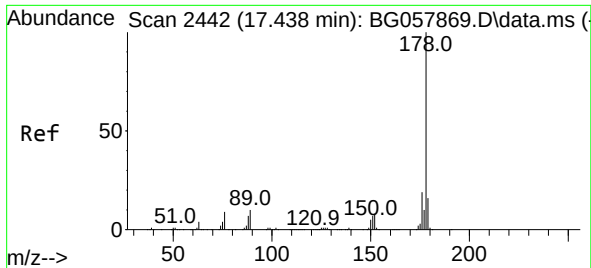
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023



#71
Phenanthrene
Concen: 62.930 ng
RT: 17.347 min Scan# 2427
Delta R.T. -0.003 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42

Tgt Ion:178 Resp: 1012399
Ion Ratio Lower Upper
178 100
176 20.8 16.3 24.5
179 16.8 13.2 19.8





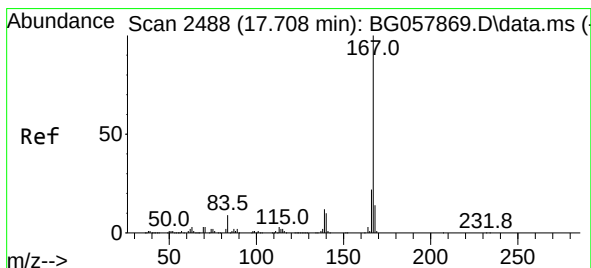
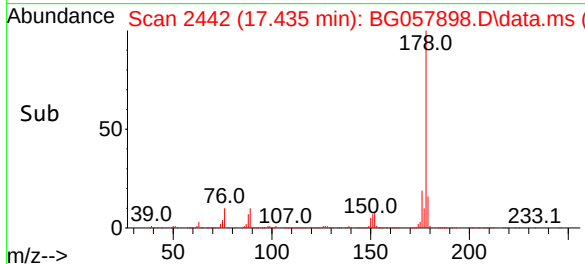
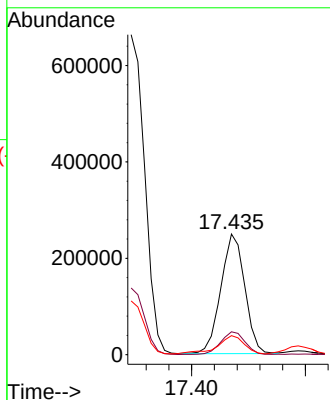
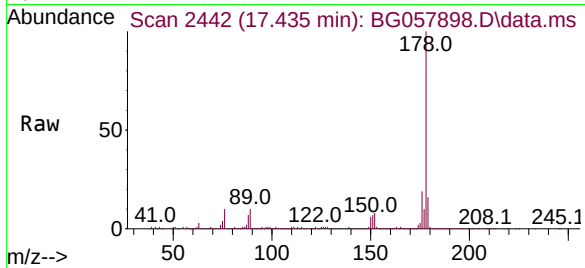
#72
 Anthracene
 Concen: 21.883 ng
 RT: 17.435 min Scan# 2442
 Delta R.T. -0.003 min
 Lab File: BG057898.D
 Acq: 28 Jun 2023 18:42

Instrument :
 BNA_G
 ClientSampleId :
 ORA-1652

Tgt Ion:178 Resp: 363080
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.4 23.0
 179 15.8 12.9 19.3

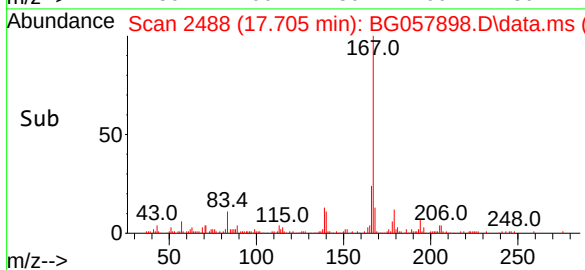
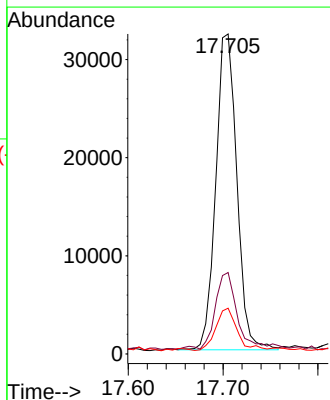
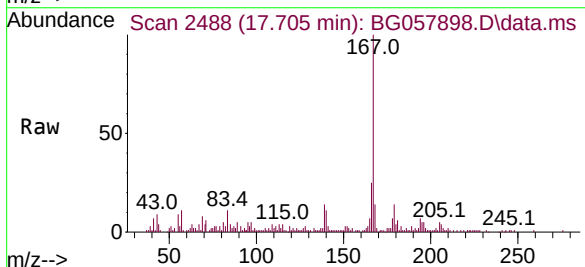
Manual Integrations
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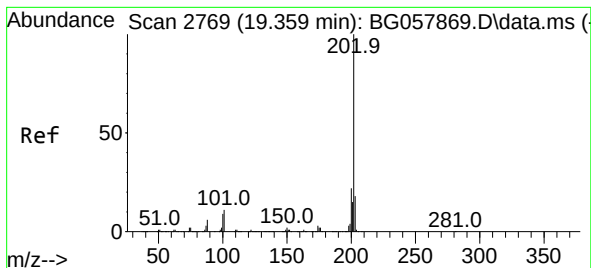
Reviewed By :Yogesh Patel 06/29/2023
 Supervised By :mohammad ahmed 06/29/2023



#73
 Carbazole
 Concen: 3.148 ng
 RT: 17.705 min Scan# 2488
 Delta R.T. -0.003 min
 Lab File: BG057898.D
 Acq: 28 Jun 2023 18:42

Tgt Ion:167 Resp: 49668
 Ion Ratio Lower Upper
 167 100
 166 25.5 17.8 26.8
 139 14.3 9.8 14.8





#75

Fluoranthene

Concen: 87.922 ng

RT: 19.362 min Scan# 21

Delta R.T. 0.003 min

Lab File: BG057898.D

Acq: 28 Jun 2023 18:42

Instrument :

BNA_G

ClientSampleId :

ORA-1652

Tgt Ion:202 Resp: 1781940

Ion Ratio Lower Upper

202 100

101 12.4 0.0 31.3

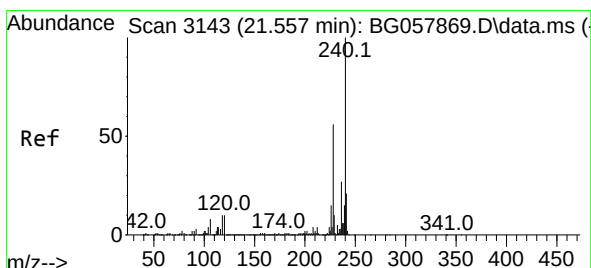
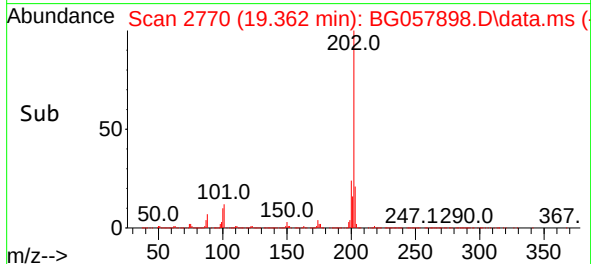
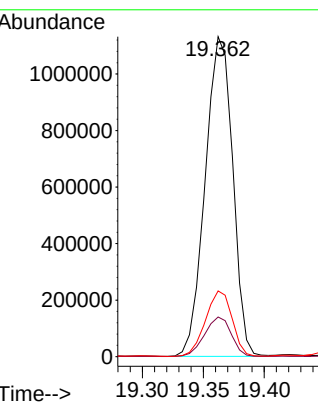
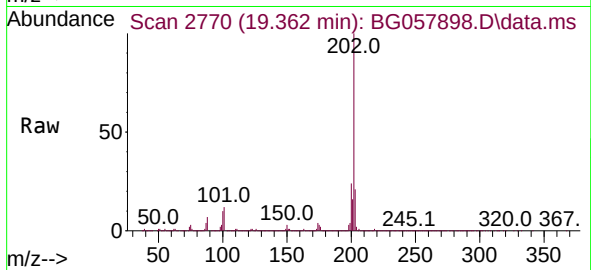
203 20.6 0.0 38.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/29/2023

Supervised By :mohammad ahmed 06/29/2023



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.565 min Scan# 3145

Delta R.T. 0.009 min

Lab File: BG057898.D

Acq: 28 Jun 2023 18:42

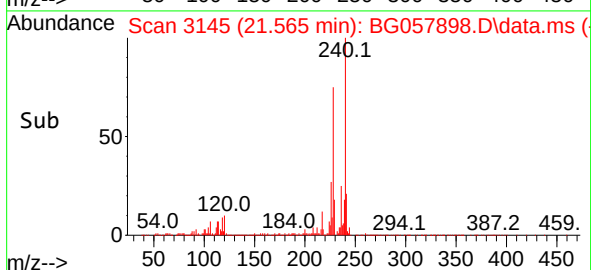
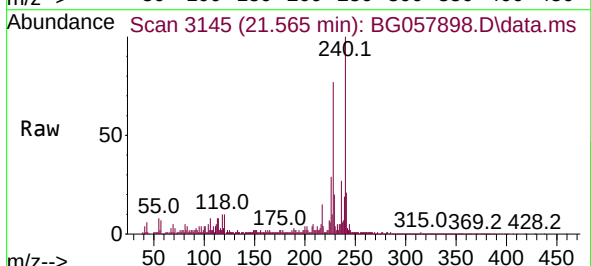
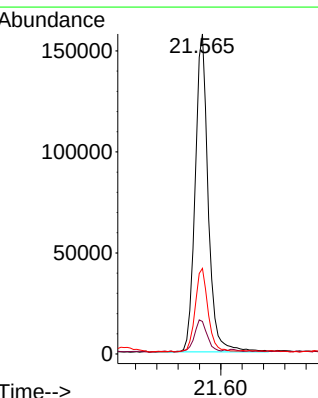
Tgt Ion:240 Resp: 266527

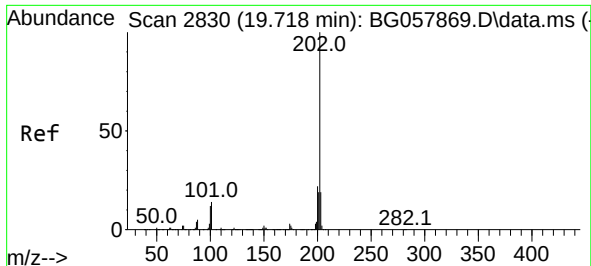
Ion Ratio Lower Upper

240 100

120 10.2 8.1 12.1

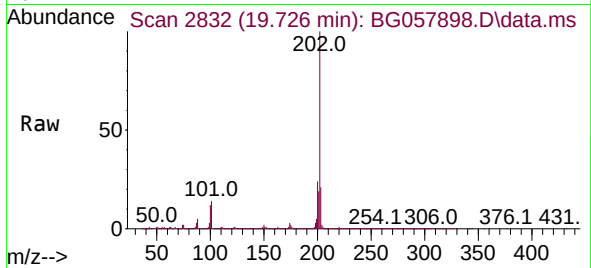
236 26.7 21.9 32.9





#78
Pyrene
Concen: 89.099 ng
RT: 19.726 min Scan# 2832
Delta R.T. 0.009 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42

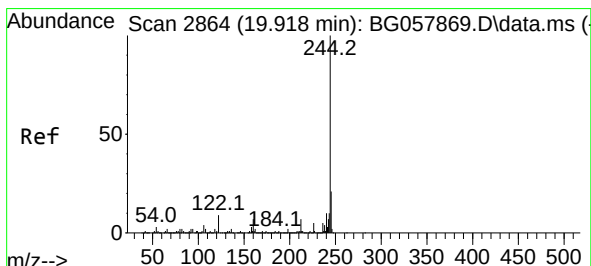
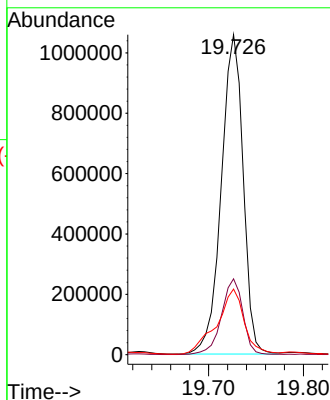
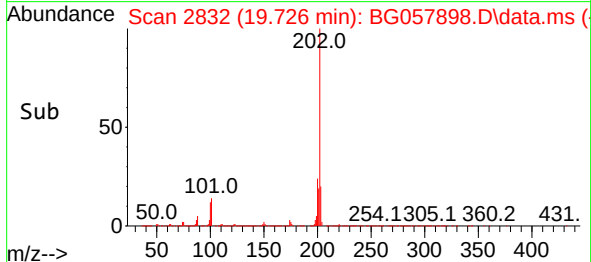
Instrument :
BNA_G
ClientSampleId :
ORA-1652



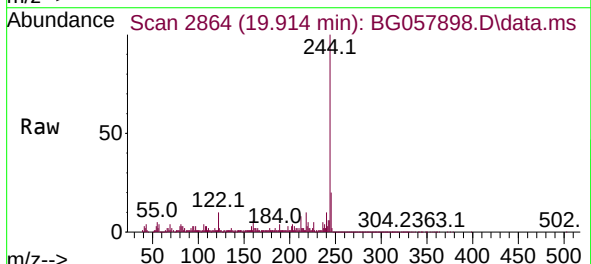
Tgt Ion:202 Resp: 169564
Ion Ratio Lower Upper
202 100
200 23.7 17.7 26.5
203 20.5 15.2 22.8

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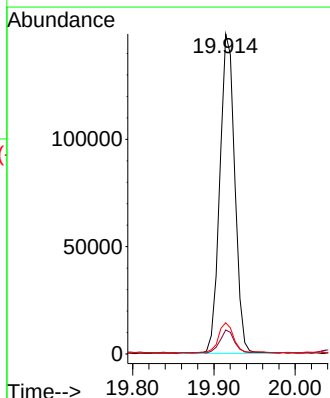
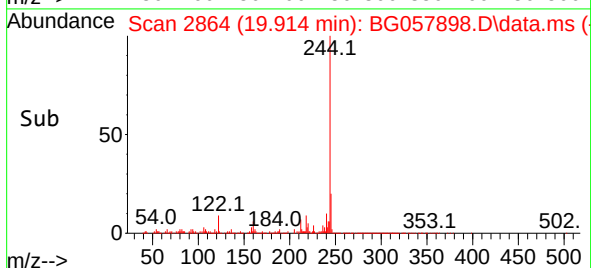
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023

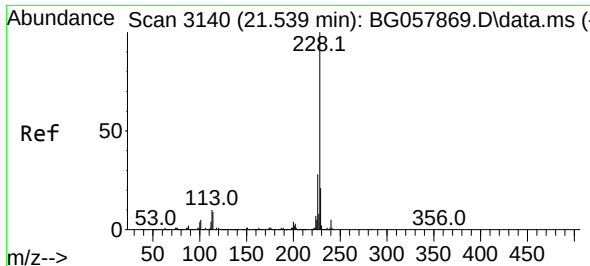


#79
Terphenyl-d14
Concen: 13.060 ng
RT: 19.914 min Scan# 2864
Delta R.T. -0.003 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42



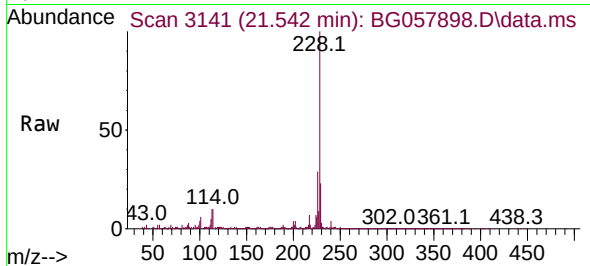
Tgt Ion:244 Resp: 190932
Ion Ratio Lower Upper
244 100
212 7.5 5.9 8.9
122 9.8 7.4 11.0





#81
Benzo(a)anthracene
Concen: 48.288 ng
RT: 21.542 min Scan# 3141
Delta R.T. 0.003 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42

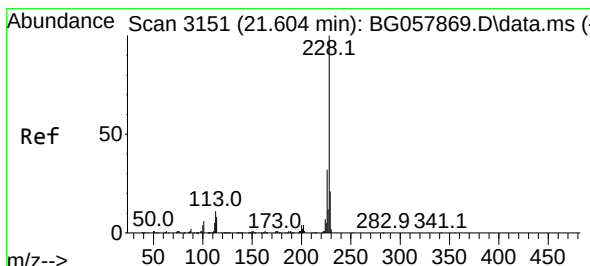
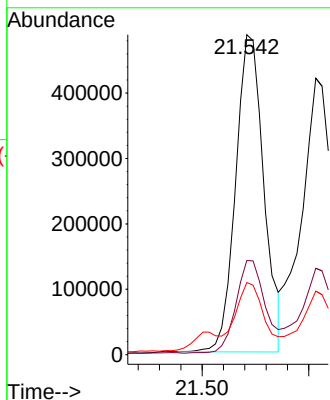
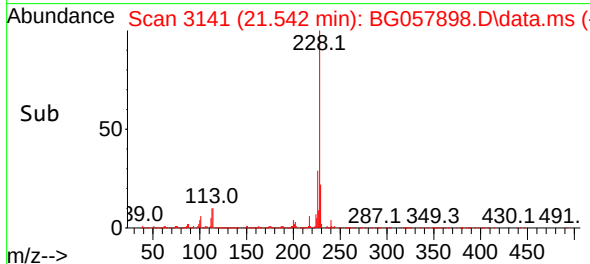
Instrument :
BNA_G
ClientSampleId :
ORA-1652



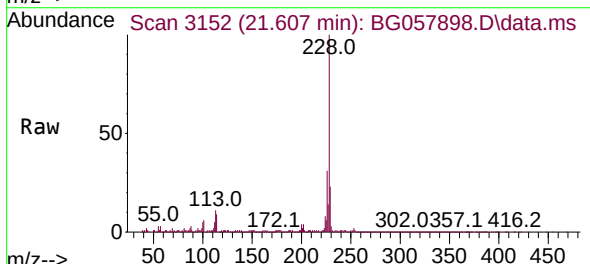
Tgt Ion:228 Resp: 890649
Ion Ratio Lower Upper
228 100
226 29.5 22.7 34.1
229 22.5 16.5 24.7

Manual Integrations
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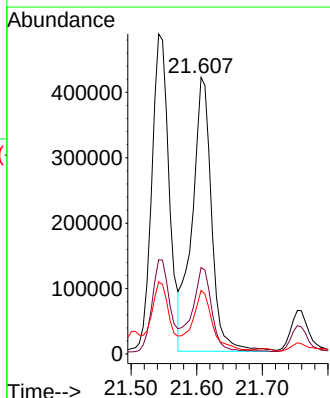
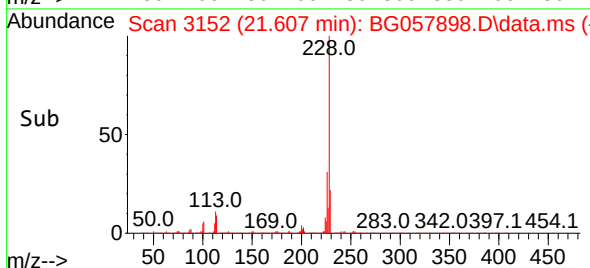
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023

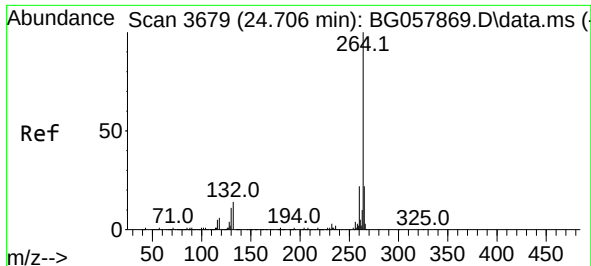


#83
Chrysene
Concen: 49.719 ng
RT: 21.607 min Scan# 3152
Delta R.T. 0.003 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42



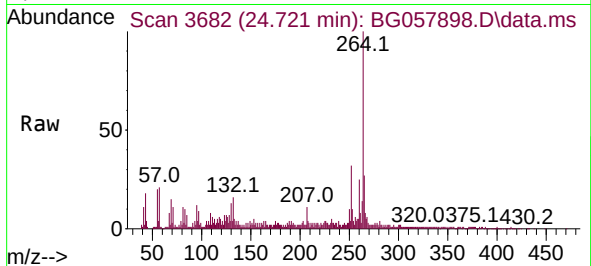
Tgt Ion:228 Resp: 868035
Ion Ratio Lower Upper
228 100
226 31.2 25.3 37.9
229 23.0 16.5 24.7





#86
Perylene-d12
Concen: 20.000 ng
RT: 24.721 min Scan# 30
Delta R.T. 0.014 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42

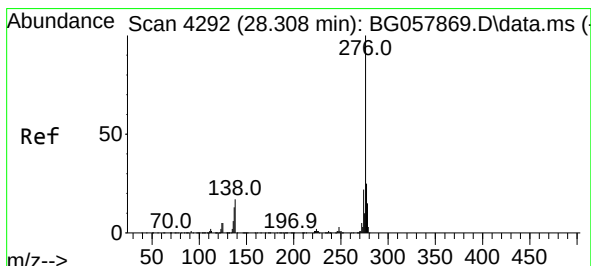
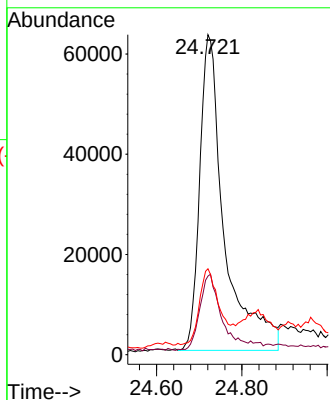
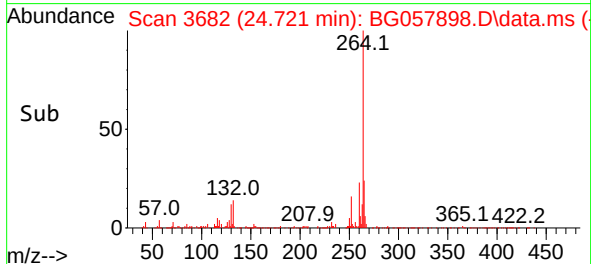
Instrument :
BNA_G
ClientSampleId :
ORA-1652



Tgt Ion:264 Resp: 253324
Ion Ratio Lower Upper
264 100
260 24.6 17.8 26.8
265 26.9 17.3 25.9

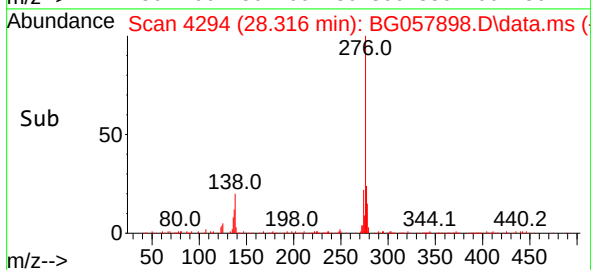
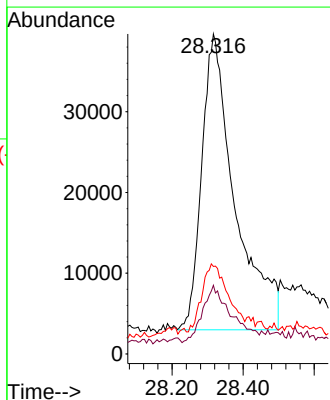
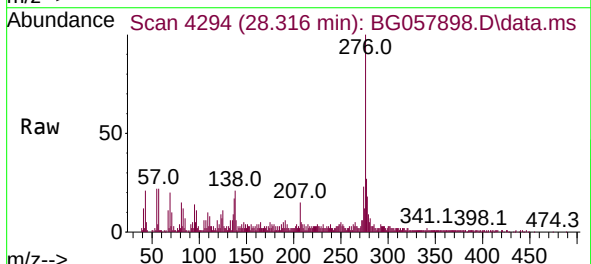
Manual Integrations
APPROVED

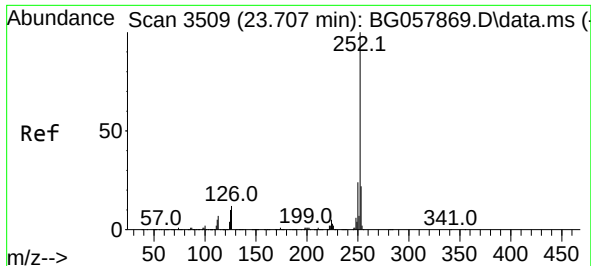
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 14.198 ng
RT: 28.316 min Scan# 4294
Delta R.T. 0.009 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42

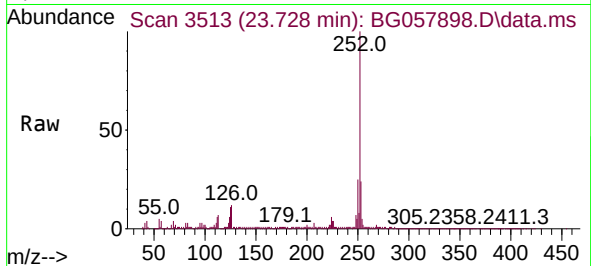
Tgt Ion:276 Resp: 238268
Ion Ratio Lower Upper
276 100
138 17.0 12.2 18.4
277 18.1 20.4 30.6





#88
Benzo(b)fluoranthene
Concen: 62.656 ng
RT: 23.728 min Scan# 3513
Delta R.T. 0.020 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42

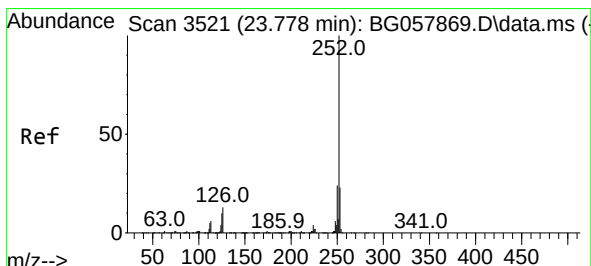
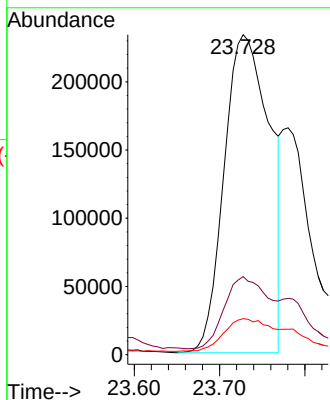
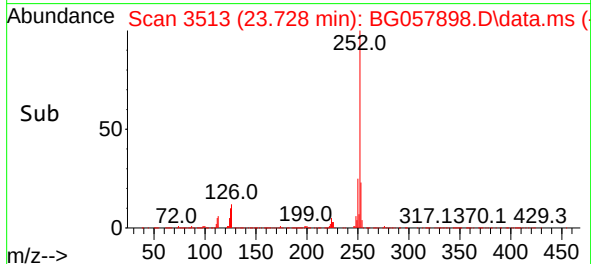
Instrument :
BNA_G
ClientSampleId :
ORA-1652



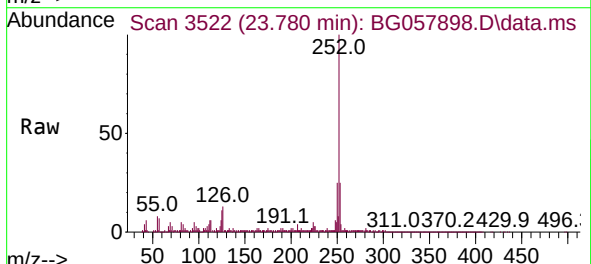
Tgt Ion:252 Resp: 865704
Ion Ratio Lower Upper
252 100
253 24.4 17.7 26.5
125 11.3 7.7 11.5

Manual Integrations
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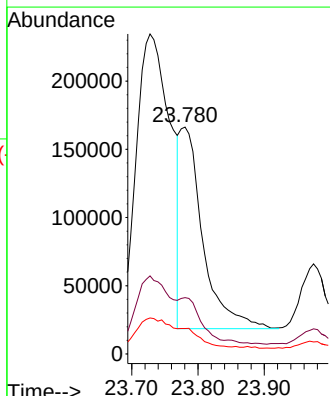
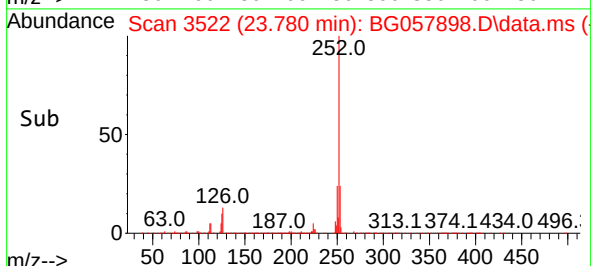
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023

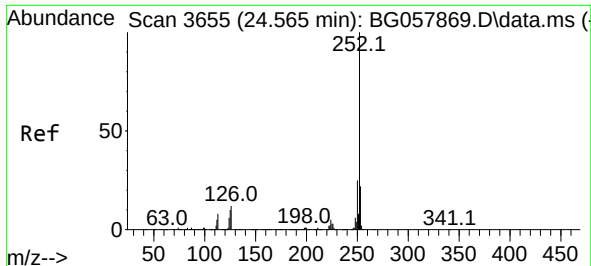


#89
Benzo(k)fluoranthene
Concen: 25.459 ng m
RT: 23.780 min Scan# 3522
Delta R.T. 0.003 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42



Tgt Ion:252 Resp: 355524
Ion Ratio Lower Upper
252 100
253 24.8 18.1 27.1
125 11.2 7.8 11.6





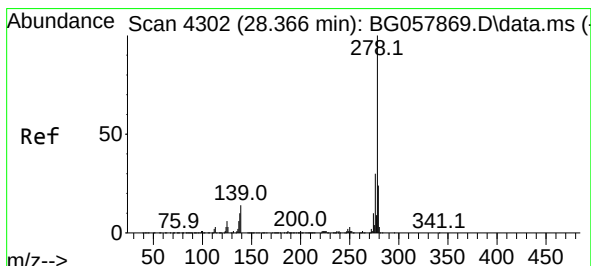
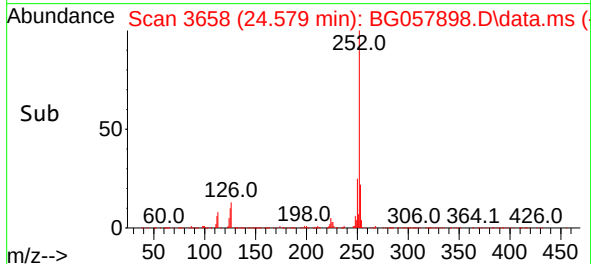
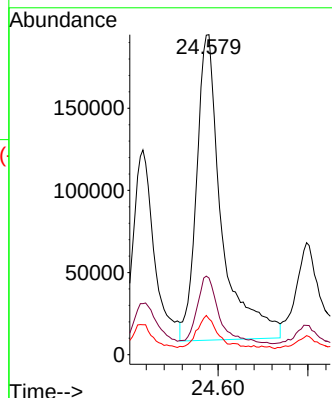
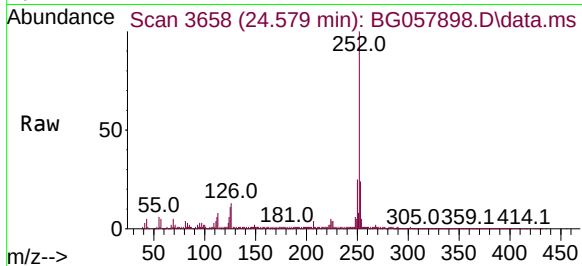
#90
Benzo(a)pyrene
Concen: 52.795 ng
RT: 24.579 min Scan# 3658
Delta R.T. 0.014 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42

Instrument :
BNA_G
ClientSampleId :
ORA-1652

Tgt Ion:252 Resp: 72258
Ion Ratio Lower Upper
252 100
253 23.9 17.7 26.5
125 11.2 8.0 12.0

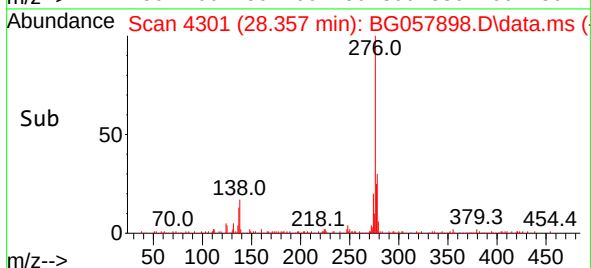
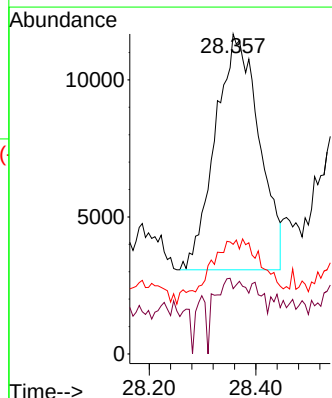
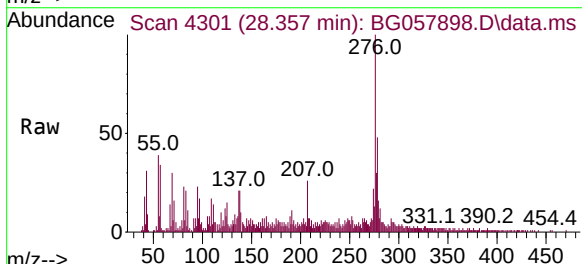
Manual Integrations
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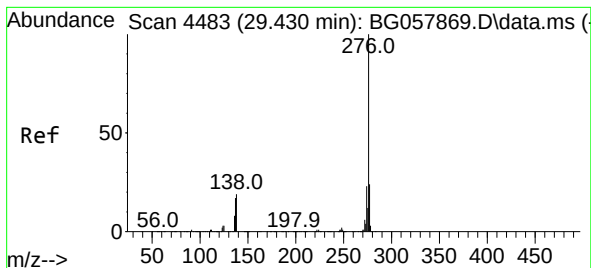
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023



#91
Dibenzo(a,h)anthracene
Concen: 3.520 ng
RT: 28.357 min Scan# 4301
Delta R.T. -0.009 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42

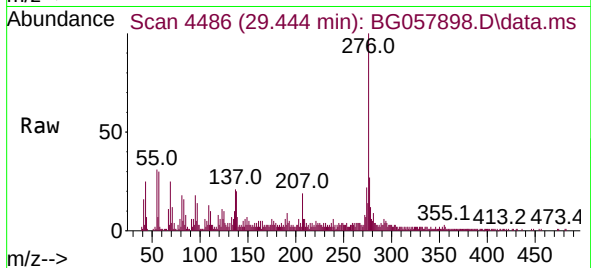
Tgt Ion:278 Resp: 49000
Ion Ratio Lower Upper
278 100
139 20.4 11.0 16.4#
279 34.2 19.3 28.9#





#92
Benzo(g,h,i)perylene
Concen: 13.770 ng
RT: 29.444 min Scan# 4486
Delta R.T. 0.014 min
Lab File: BG057898.D
Acq: 28 Jun 2023 18:42

Instrument :
BNA_G
ClientSampleId :
ORA-1652



Tgt Ion:276 Resp: 19050
Ion Ratio Lower Upper
276 100
277 27.2 19.4 29.2
138 19.5 15.0 22.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/29/2023
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