

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG062923\
 Data File : BG057917.D
 Acq On : 29 Jun 2023 23:44
 Operator : CG/JU
 Sample : 03403-01DL 10X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 ORA-1652DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/03/2023
 Supervised By :mohammad ahmed 07/07/2023

Quant Time: Jun 30 03:47:13 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	7.918	152	61038	20.000	ng	0.00
21) Naphthalene-d8	10.721	136	252177	20.000	ng	0.00
39) Acenaphthene-d10	14.551	164	159132	20.000	ng	0.00
64) Phenanthrene-d10	17.295	188	331182	20.000	ng	0.00
76) Chrysene-d12	21.549	240	266146	20.000	ng	0.00
86) Perylene-d12	24.704	264	333653	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.491	112	35249	8.836	ng	0.00
7) Phenol-d6	7.084	99	49930	8.370	ng	0.00
23) Nitrobenzene-d5	9.075	82	28635	5.565	ng	-0.01
42) 2,4,6-Tribromophenol	16.038	330	17921	6.705	ng	0.00
45) 2-Fluorobiphenyl	13.171	172	62266	5.971	ng	-0.01
79) Terphenyl-d14	19.910	244	86579	5.931	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	14.275	152	31241	2.140	ng	97
52) Acenaphthene	14.616	154	34695	4.068	ng	98
55) Dibenzofuran	14.951	168	37404	2.557	ng	# 96
58) Fluorene	15.597	166	57695	4.887	ng	97
71) Phenanthrene	17.336	178	482701	30.363	ng	99
72) Anthracene	17.430	178	164043	10.005	ng	99
75) Fluoranthene	19.352	202	894725	44.674	ng	98
78) Pyrene	19.716	202	834581	43.917	ng	99
81) Benzo(a)anthracene	21.531	228	431231	23.413	ng	99
83) Chrysene	21.596	228	379849	21.788	ng	97
87) Indeno(1,2,3-cd)pyrene	28.288	276	190034	8.598	ng	93
88) Benzo(b)fluoranthene	23.711	252	507365	27.880	ng	98
89) Benzo(k)fluoranthene	23.764	252	194073m	10.552	ng	
90) Benzo(a)pyrene	24.557	252	414565	22.997	ng	96
91) Dibenzo(a,h)anthracene	28.335	278	45854	2.501	ng	# 80
92) Benzo(g,h,i)perylene	29.405	276	177821m	9.759	ng	

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

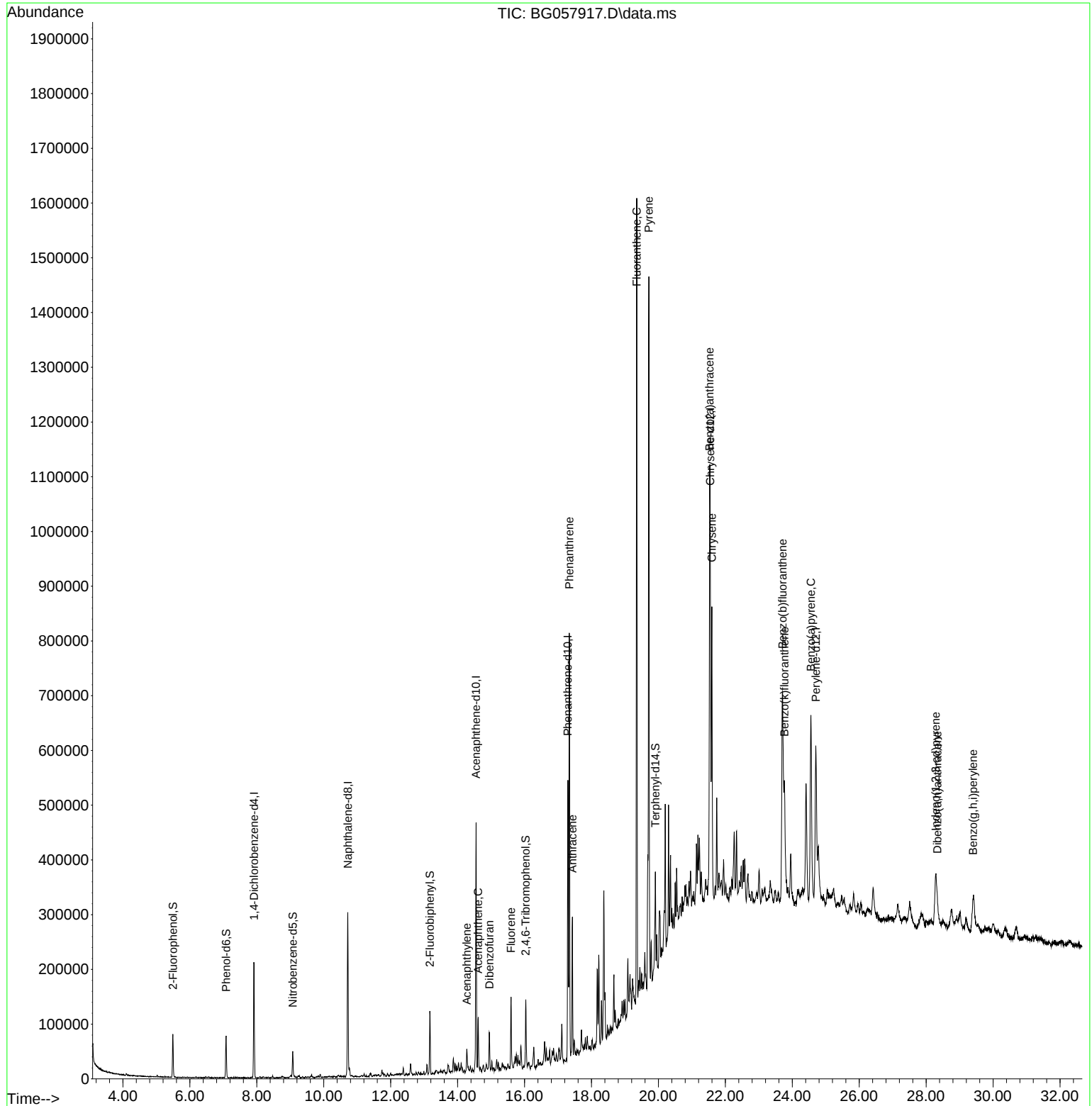
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG062923\
Data File : BG057917.D
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ALS Vial : 18 Sample Multiplier: 1

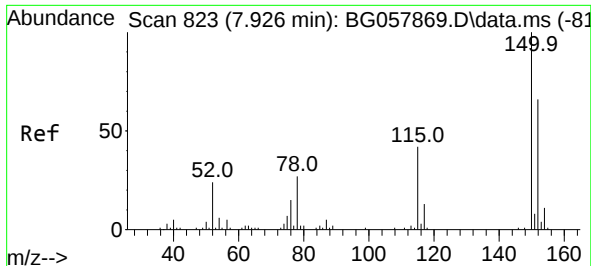
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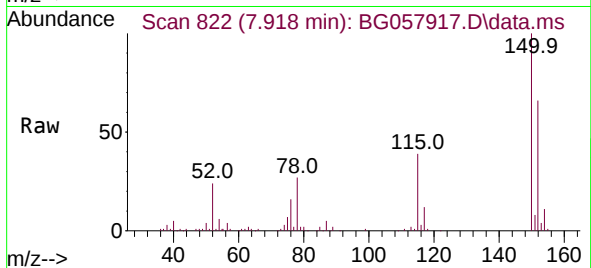
Quant Time: Jun 30 03:47:13 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG062723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 28 01:12:33 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.918 min Scan# 81
Delta R.T. -0.008 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44

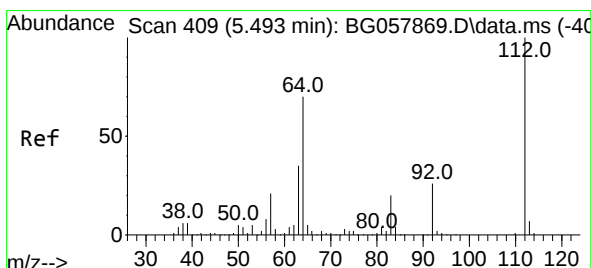
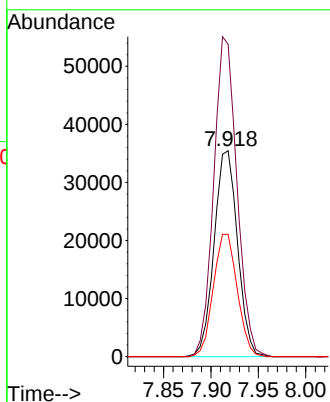
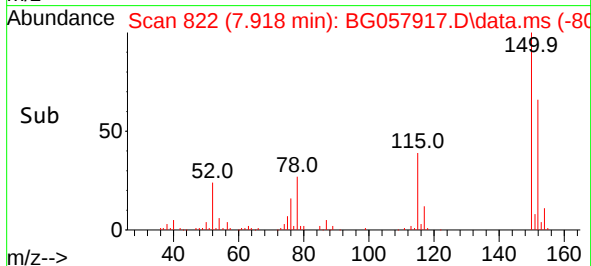
Instrument :
BNA_G
ClientSampleId :
ORA-1652DL



Tgt Ion:152 Resp: 61038
Ion Ratio Lower Upper
152 100
150 151.7 122.0 183.0
115 59.5 50.7 76.1

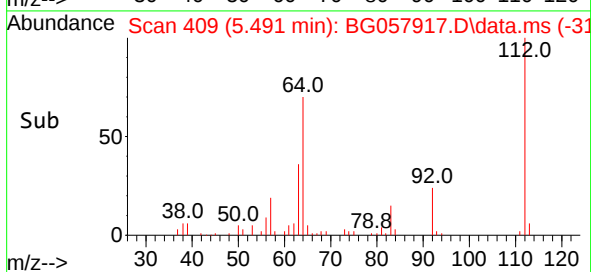
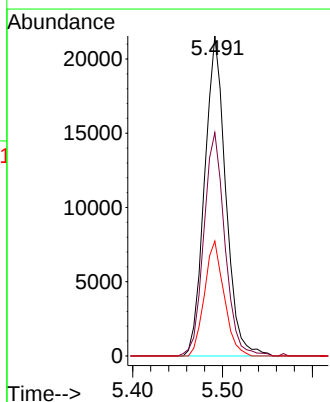
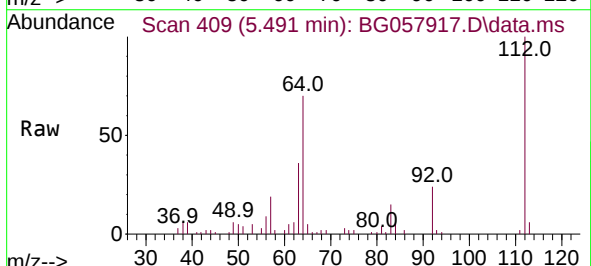
Manual Integrations
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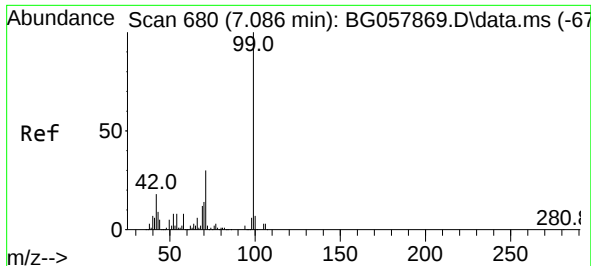
Reviewed By :Yogesh Patel 07/03/2023
Supervised By :mohammad ahmed 07/07/2023



#5
2-Fluorophenol
Concen: 8.836 ng
RT: 5.491 min Scan# 409
Delta R.T. -0.002 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44

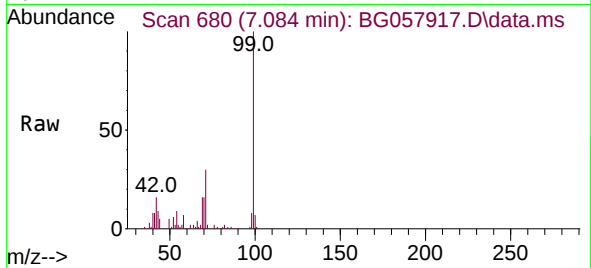
Tgt Ion:112 Resp: 35249
Ion Ratio Lower Upper
112 100
64 69.8 55.8 83.6
63 35.9 27.9 41.9





#7
Phenol-d6
Concen: 8.370 ng
RT: 7.084 min Scan# 61
Delta R.T. -0.002 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44

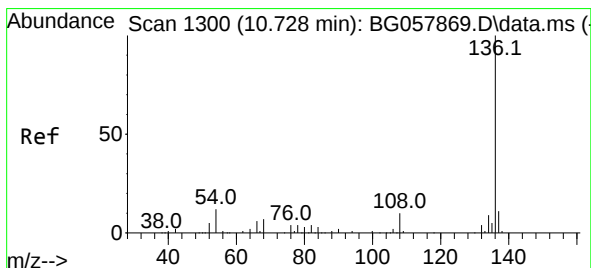
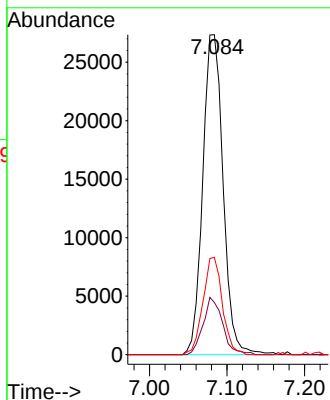
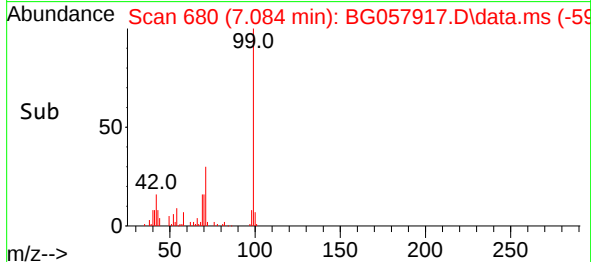
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ORA-1652DL



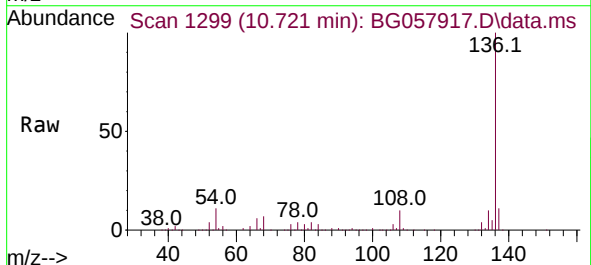
Tgt Ion: 99 Resp: 49930
Ion Ratio Lower Upper
99 100
42 16.3 14.2 21.4
71 30.4 23.9 35.9

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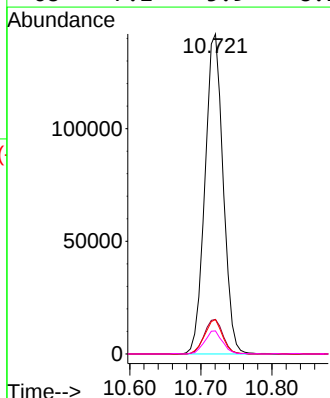
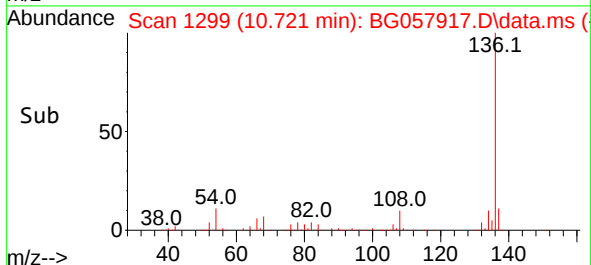
Reviewed By :Yogesh Patel 07/03/2023
Supervised By :mohammad ahmed 07/07/2023

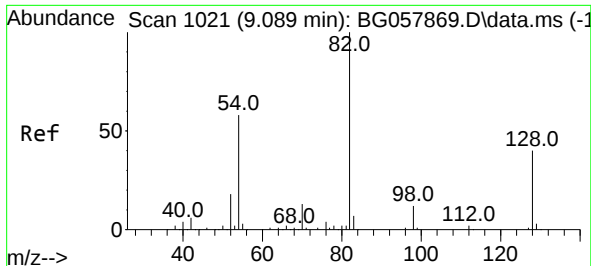


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.721 min Scan# 1299
Delta R.T. -0.008 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44



Tgt Ion:136 Resp: 252177
Ion Ratio Lower Upper
136 100
137 10.8 8.6 12.8
54 10.8 9.3 13.9
68 7.2 5.9 8.9





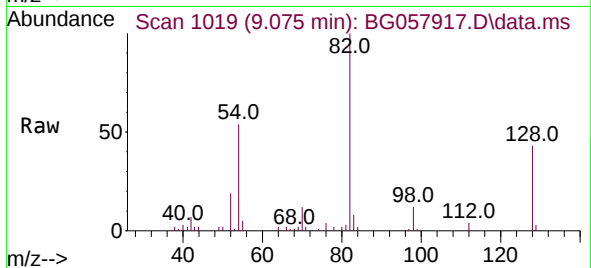
#23
Nitrobenzene-d5
Concen: 5.565 ng
RT: 9.075 min Scan# 1019
Delta R.T. -0.014 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44

Instrument :

BNA_G

ClientSampleId :

ORA-1652DL

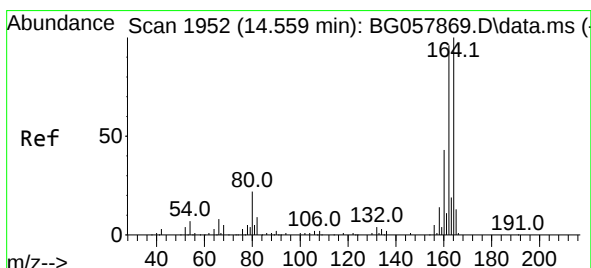
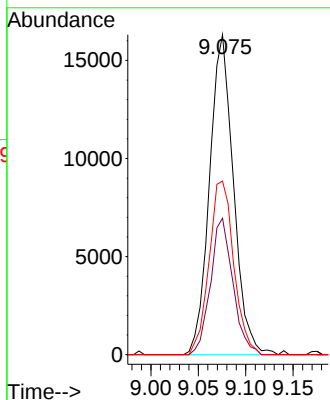
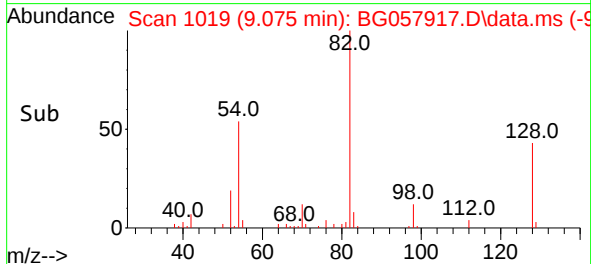


Tgt Ion: 82 Resp: 2863
Ion Ratio Lower Upper
82 100
128 42.6 32.2 48.4
54 54.2 46.1 69.1

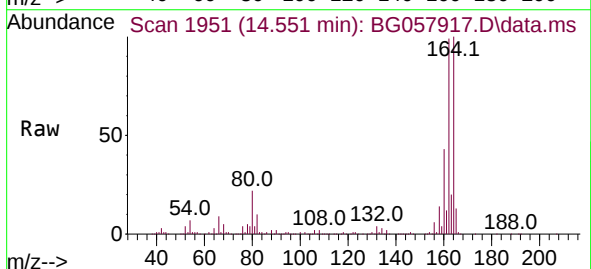
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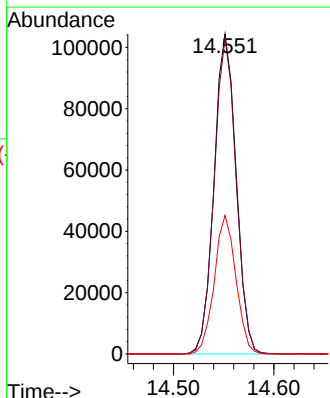
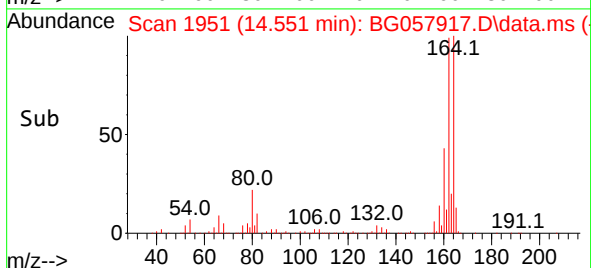
Reviewed By :Yogesh Patel 07/03/2023
Supervised By :mohammad ahmed 07/07/2023

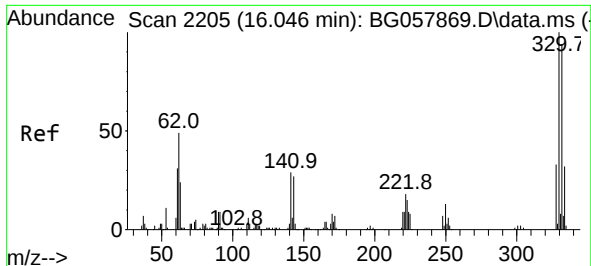


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.551 min Scan# 1951
Delta R.T. -0.008 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44



Tgt Ion:164 Resp: 159132
Ion Ratio Lower Upper
164 100
162 98.7 76.4 114.6
160 43.3 34.2 51.2





#42
2,4,6-Tribromophenol
Concen: 6.705 ng
RT: 16.038 min Scan# 21
Delta R.T. -0.008 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44

Instrument :

BNA_G

ClientSampleId :

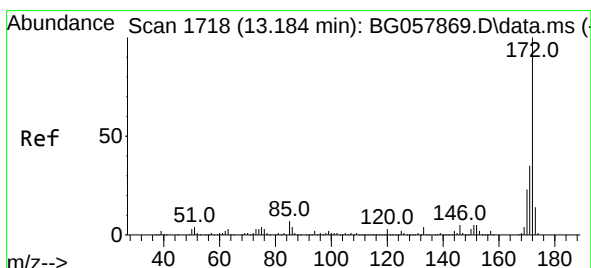
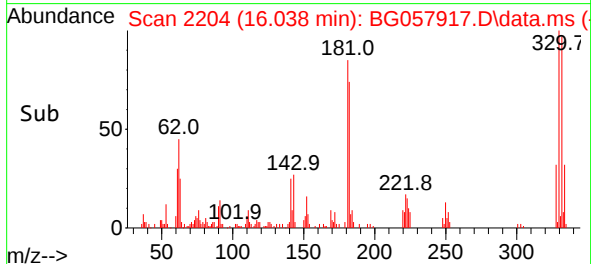
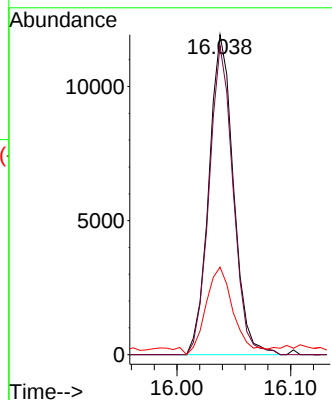
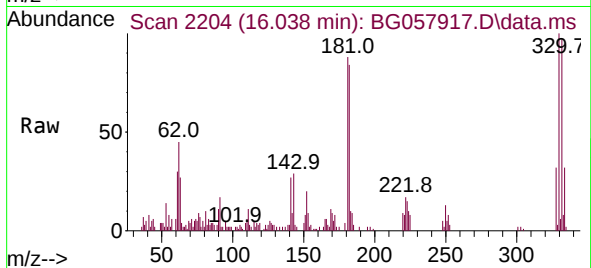
ORA-1652DL

Tgt Ion:330 Resp: 1792
Ion Ratio Lower Upper
330 100
332 94.2 77.1 115.7
141 30.6 22.2 33.4

Manual Integrations

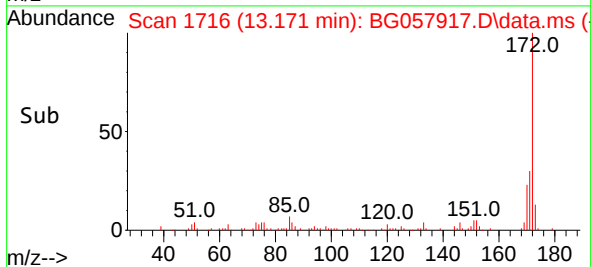
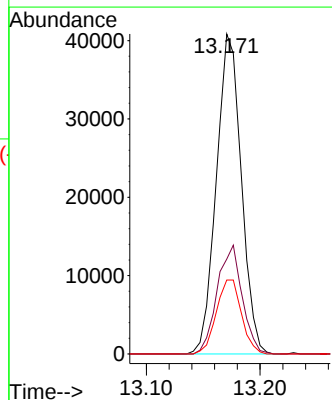
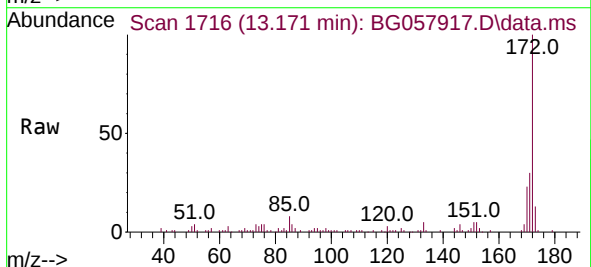
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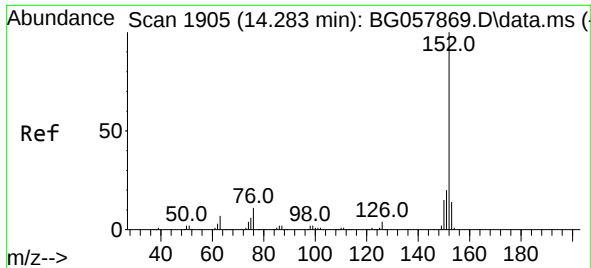
Reviewed By :Yogesh Patel 07/03/2023
Supervised By :mohammad ahmed 07/07/2023



#45
2-Fluorobiphenyl
Concen: 5.971 ng
RT: 13.171 min Scan# 1716
Delta R.T. -0.014 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44

Tgt Ion:172 Resp: 62266
Ion Ratio Lower Upper
172 100
171 29.7 27.8 41.8
170 23.1 18.6 27.8





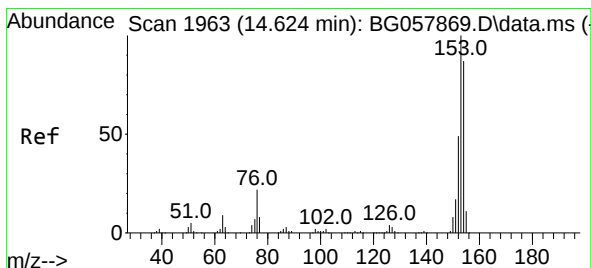
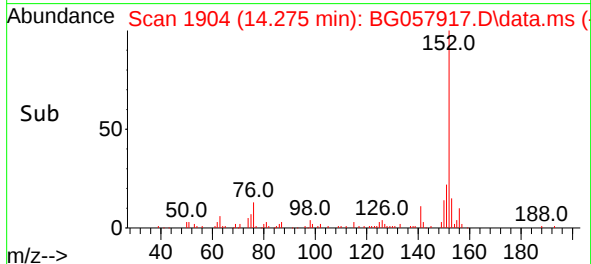
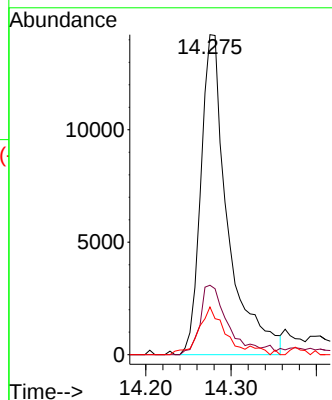
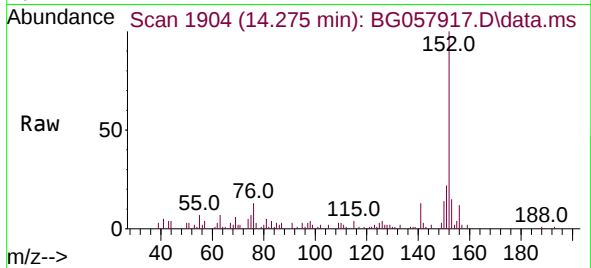
#49
Acenaphthylene
Concen: 2.140 ng
RT: 14.275 min Scan# 1905
Delta R.T. -0.008 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44

Instrument :
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ORA-1652DL

Tgt Ion:152 Resp: 3124
Ion Ratio Lower Upper
152 100
151 21.7 16.2 24.2
153 14.9 10.8 16.2

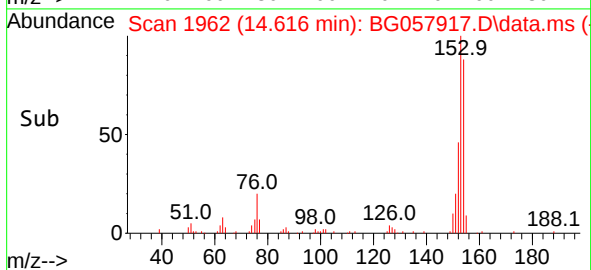
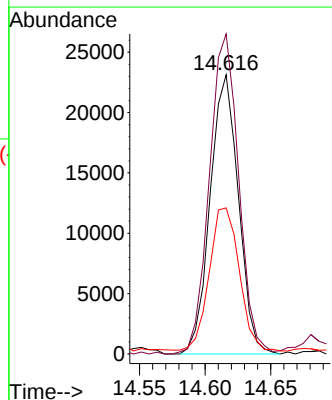
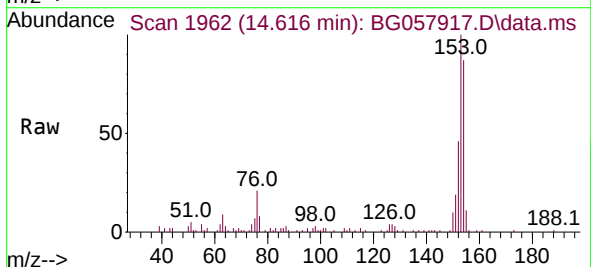
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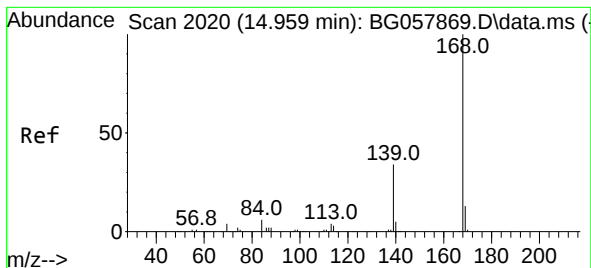
Reviewed By :Yogesh Patel 07/03/2023
Supervised By :mohammad ahmed 07/07/2023



#52
Acenaphthene
Concen: 4.068 ng
RT: 14.616 min Scan# 1962
Delta R.T. -0.008 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44

Tgt Ion:154 Resp: 34695
Ion Ratio Lower Upper
154 100
153 114.6 91.5 137.3
152 52.3 44.6 67.0





#55

Dibenzenofuran

Concen: 2.557 ng

RT: 14.951 min Scan# 2020

Delta R.T. -0.008 min

Lab File: BG057917.D

Acq: 29 Jun 2023 23:44

Instrument :

BNA_G

ClientSampleId :

ORA-1652DL

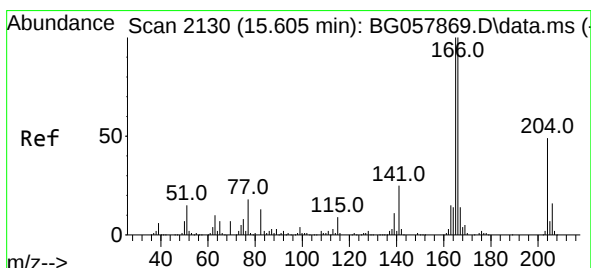
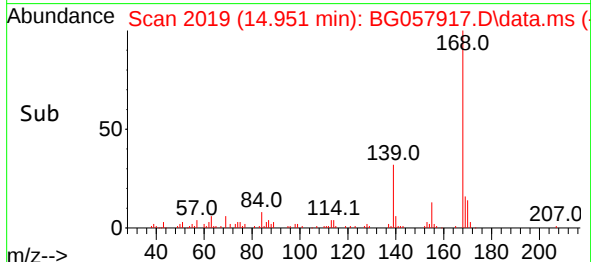
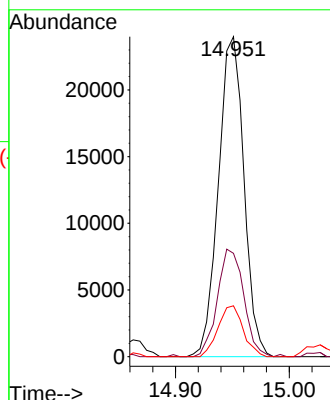
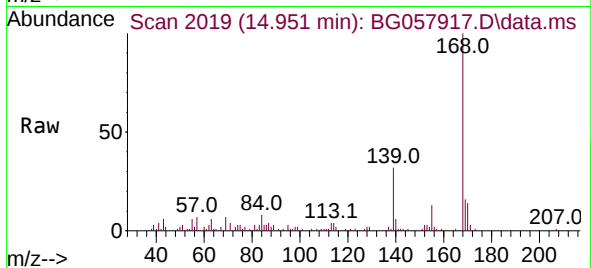
Tgt Ion:168	Resp:	37404
Ion Ratio	Lower	Upper
168	100	
139	32.3	27.3 40.9
169	15.9	10.3 15.5

Manual Integrations

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Reviewed By :Yogesh Patel 07/03/2023

Supervised By :mohammad ahmed 07/07/2023



#58

Fluorene

Concen: 4.887 ng

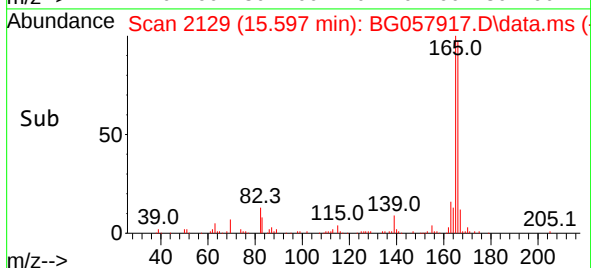
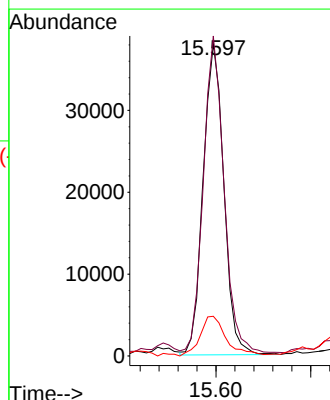
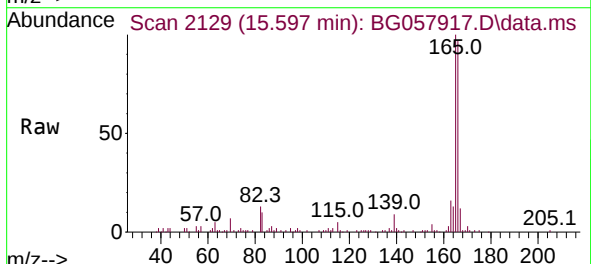
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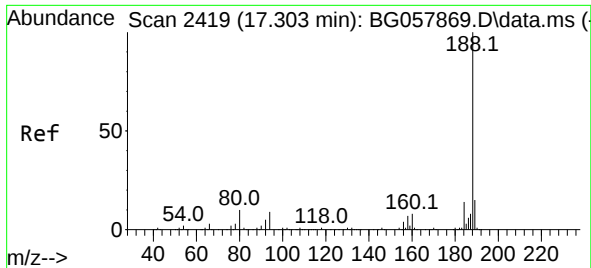
Delta R.T. -0.008 min

Lab File: BG057917.D

Acq: 29 Jun 2023 23:44

Tgt Ion:166	Resp:	57695
Ion Ratio	Lower	Upper
166	100	
165	102.6	80.0 120.0
167	12.7	11.0 16.4





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.295 min Scan# 2418
Delta R.T. -0.008 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44

Instrument :

BNA_G

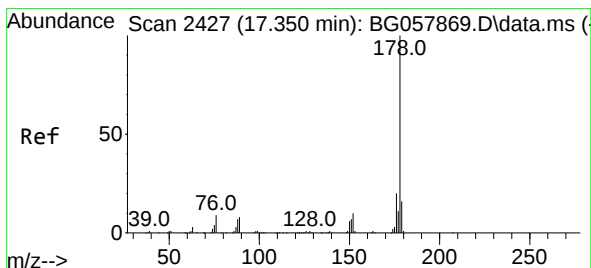
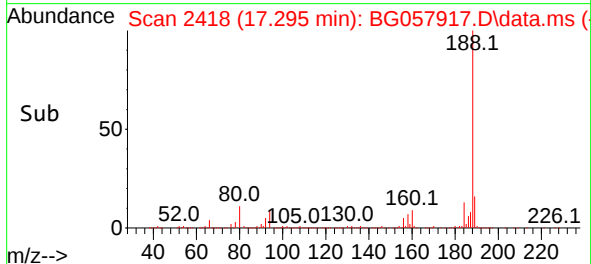
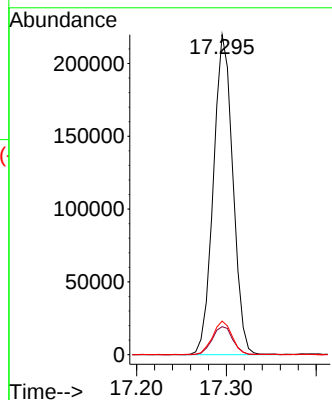
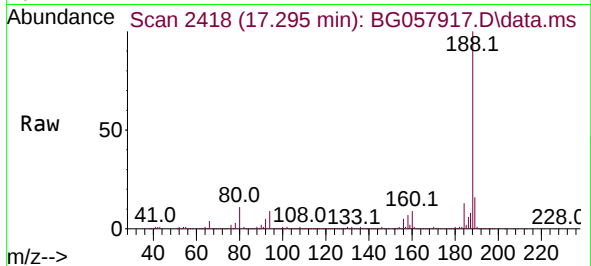
ClientSampleId :

ORA-1652DL

Tgt Ion:188 Resp: 33118
Ion Ratio Lower Upper
188 100
94 8.8 7.2 10.8
80 10.5 8.4 12.6

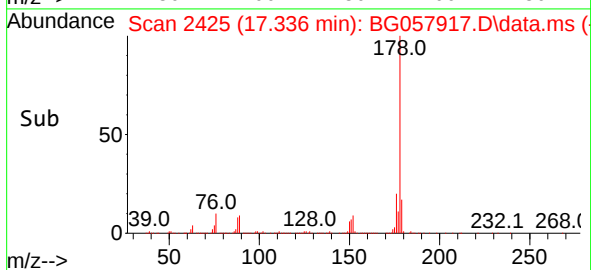
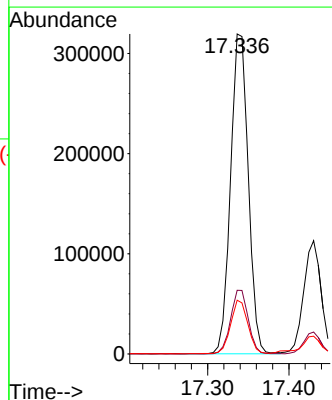
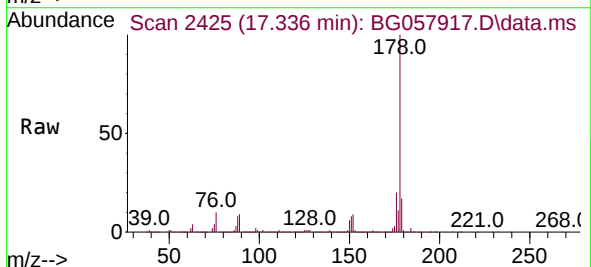
Manual Integrations
APPROVED

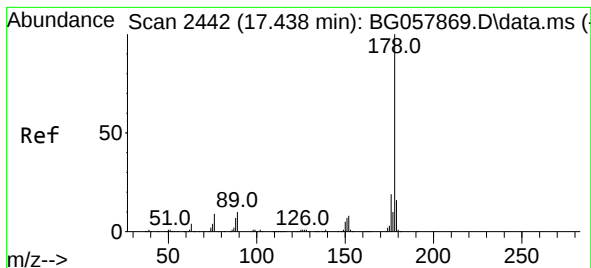
Reviewed By :Yogesh Patel 07/03/2023
Supervised By :mohammad ahmed 07/07/2023



#71
Phenanthrene
Concen: 30.363 ng
RT: 17.336 min Scan# 2425
Delta R.T. -0.014 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44

Tgt Ion:178 Resp: 482701
Ion Ratio Lower Upper
178 100
176 19.9 16.3 24.5
179 16.8 13.2 19.8





#72

Anthracene

Concen: 10.005 ng

RT: 17.430 min Scan# 2442

Delta R.T. -0.008 min

Lab File: BG057917.D

Acq: 29 Jun 2023 23:44

Instrument :

BNA_G

ClientSampleId :

ORA-1652DL

Tgt Ion:178 Resp: 16404

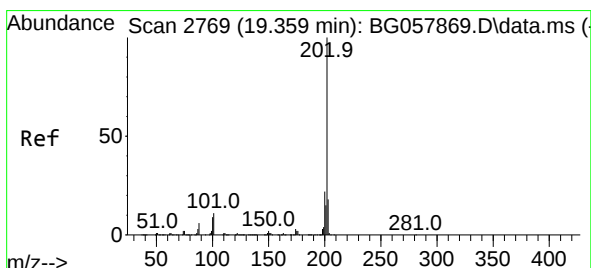
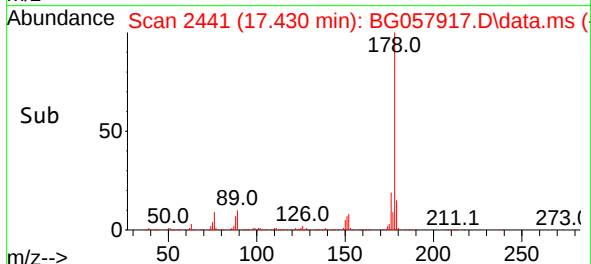
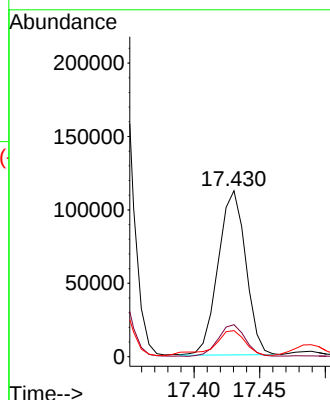
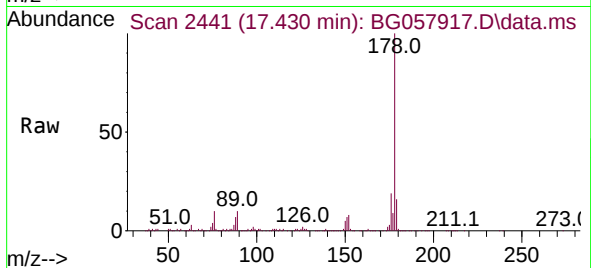
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.0
179	15.7	12.9	19.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/03/2023

Supervised By :mohammad ahmed 07/07/2023



#75

Fluoranthene

Concen: 44.674 ng

RT: 19.352 min Scan# 2768

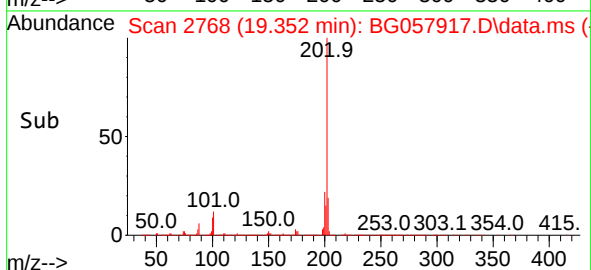
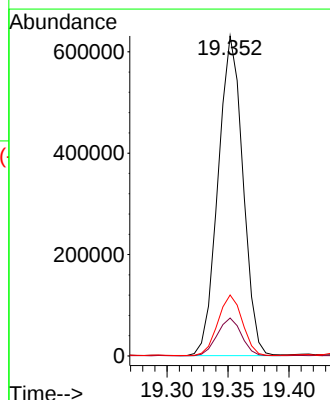
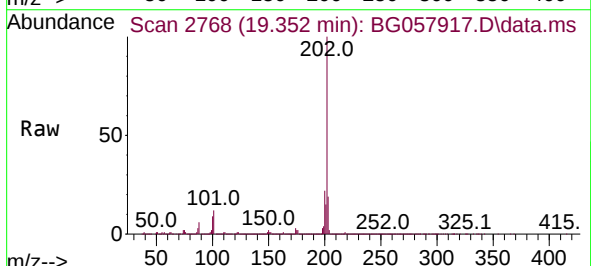
Delta R.T. -0.008 min

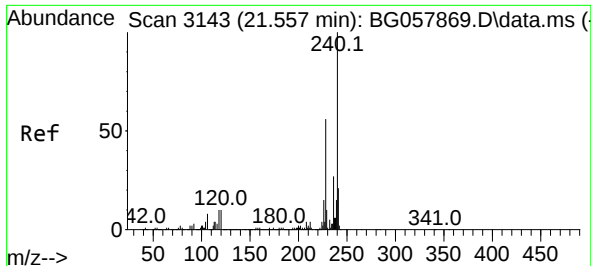
Lab File: BG057917.D

Acq: 29 Jun 2023 23:44

Tgt Ion:202 Resp: 894725

Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	31.3
203	19.0	0.0	38.2





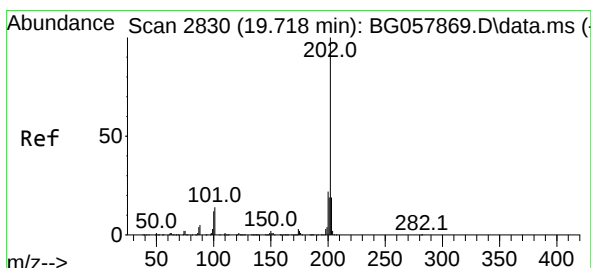
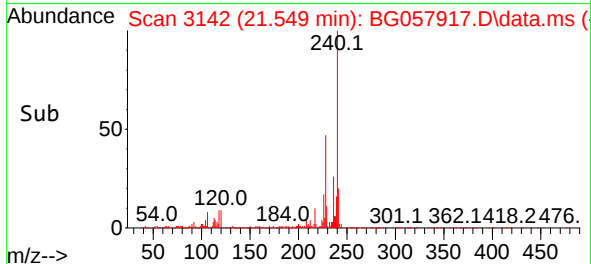
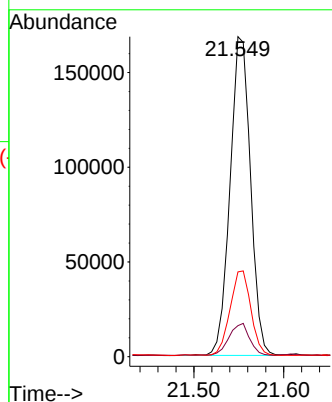
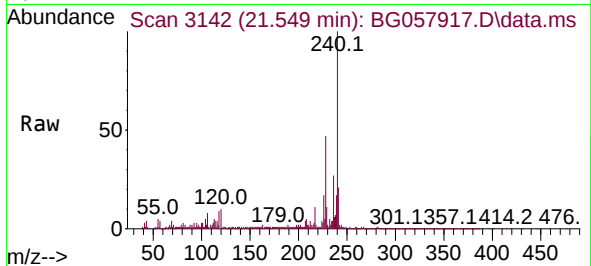
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.549 min Scan# 3143
Delta R.T. -0.008 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44

Instrument :
BNA_G
ClientSampleId :
ORA-1652DL

Tgt Ion:240 Resp: 266140
Ion Ratio Lower Upper
240 100
120 9.7 8.1 12.1
236 26.5 21.9 32.9

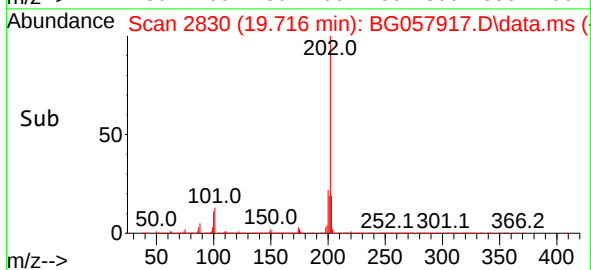
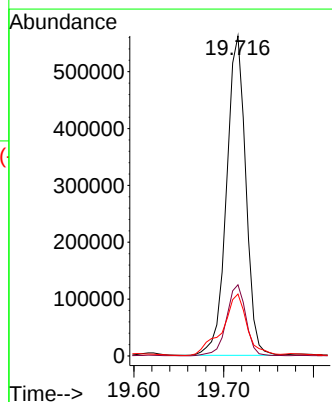
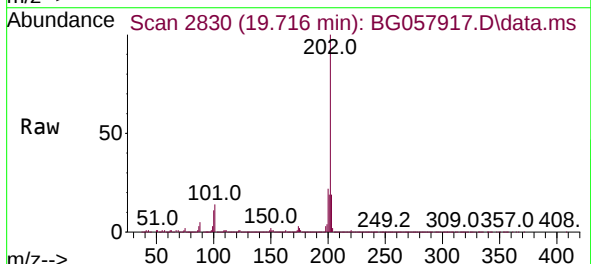
Manual Integrations
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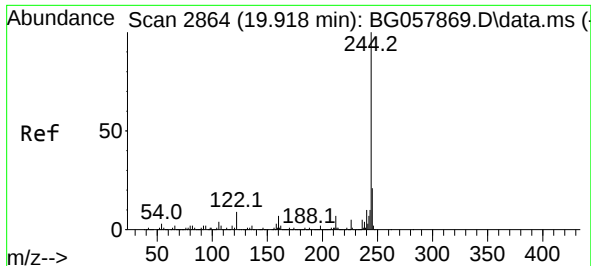
Reviewed By :Yogesh Patel 07/03/2023
Supervised By :mohammad ahmed 07/07/2023



#78
Pyrene
Concen: 43.917 ng
RT: 19.716 min Scan# 2830
Delta R.T. -0.002 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44

Tgt Ion:202 Resp: 834581
Ion Ratio Lower Upper
202 100
200 22.2 17.7 26.5
203 19.4 15.2 22.8





#79
 Terphenyl-d14
 Concen: 5.931 ng
 RT: 19.910 min Scan# 21
 Delta R.T. -0.008 min
 Lab File: BG057917.D
 Acq: 29 Jun 2023 23:44

Instrument :

BNA_G

ClientSampleId :

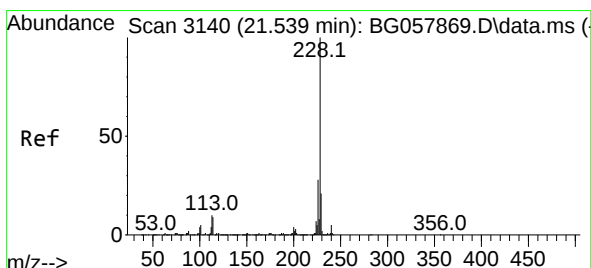
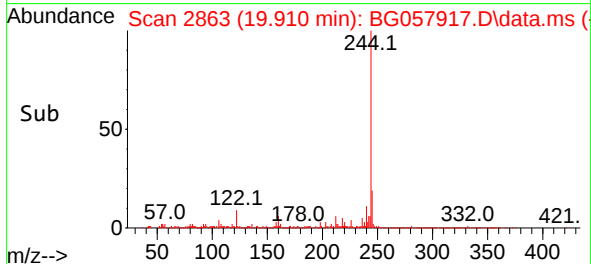
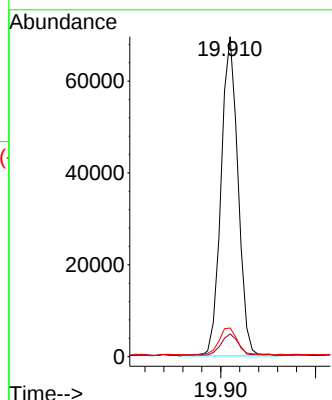
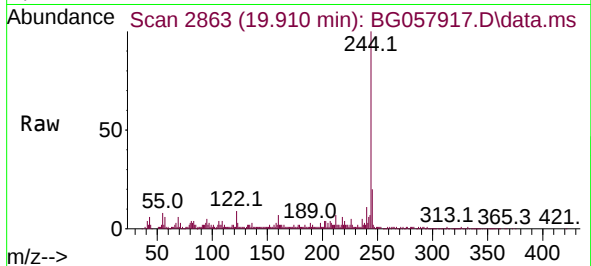
ORA-1652DL

Tgt Ion:244 Resp: 86579
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.9 8.9
 122 8.9 7.4 11.0

Manual Integrations

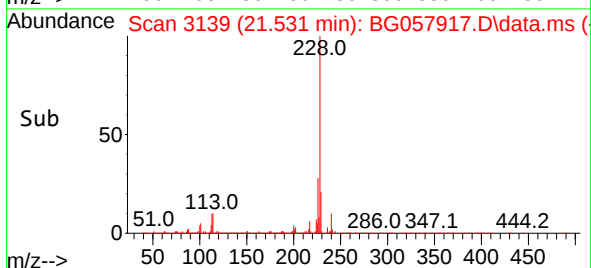
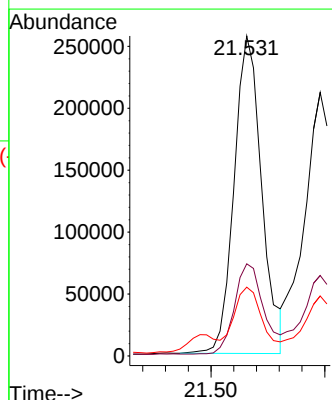
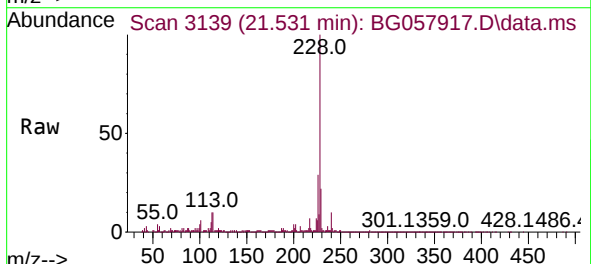
APPROVED

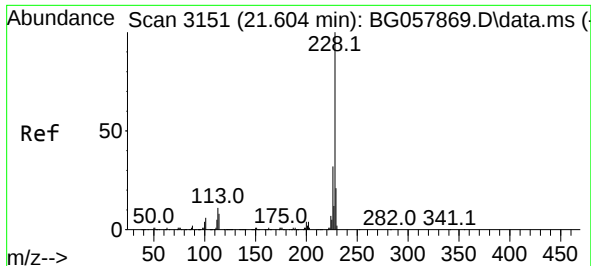
Reviewed By :Yogesh Patel 07/03/2023
 Supervised By :mohammad ahmed 07/07/2023



#81
 Benzo(a)anthracene
 Concen: 23.413 ng
 RT: 21.531 min Scan# 3139
 Delta R.T. -0.008 min
 Lab File: BG057917.D
 Acq: 29 Jun 2023 23:44

Tgt Ion:228 Resp: 431231
 Ion Ratio Lower Upper
 228 100
 226 28.8 22.7 34.1
 229 21.5 16.5 24.7





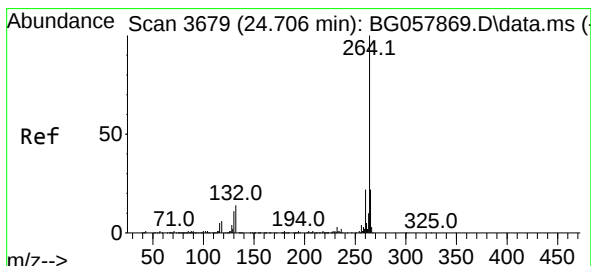
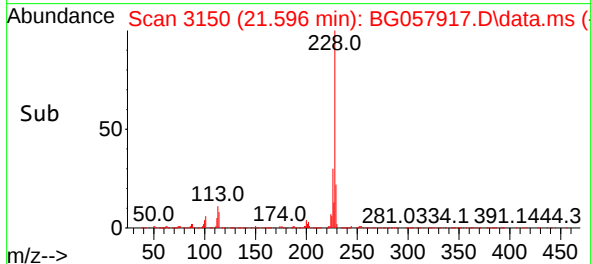
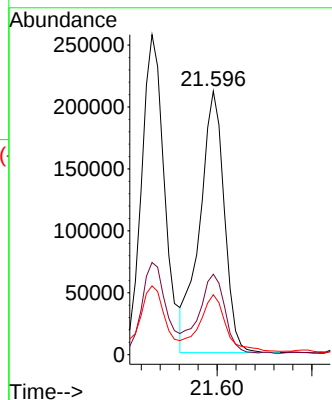
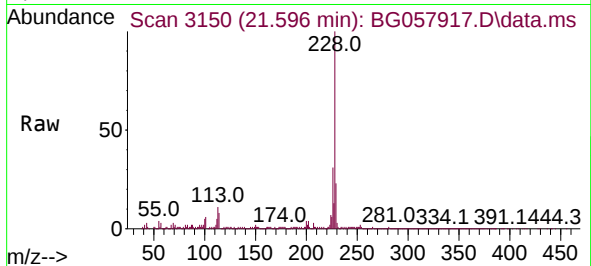
#83
Chrysene
Concen: 21.788 ng
RT: 21.596 min Scan# 3151
Delta R.T. -0.008 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44

Instrument :
BNA_G
ClientSampleId :
ORA-1652DL

Tgt Ion:228 Resp: 379849
Ion Ratio Lower Upper
228 100
226 30.6 25.3 37.9
229 22.8 16.5 24.7

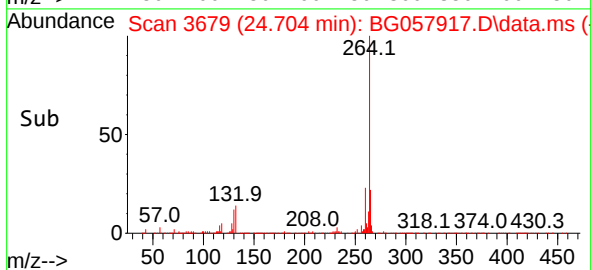
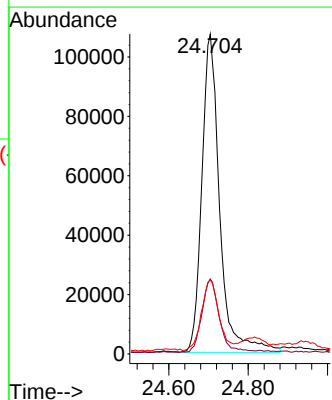
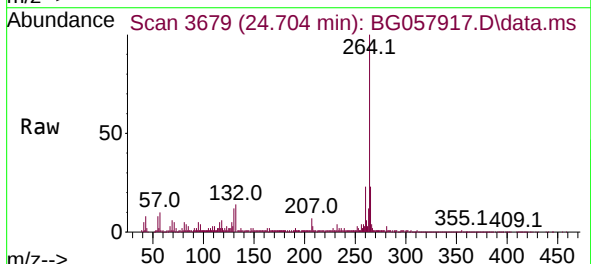
Manual Integrations
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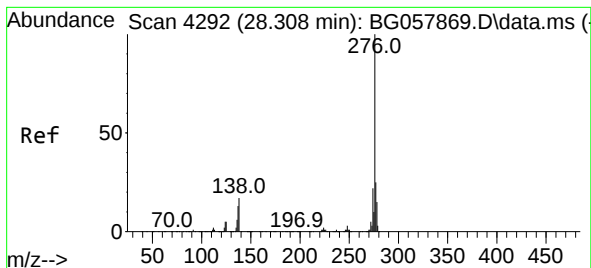
Reviewed By :Yogesh Patel 07/03/2023
Supervised By :mohammad ahmed 07/07/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.704 min Scan# 3679
Delta R.T. -0.002 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44

Tgt Ion:264 Resp: 333653
Ion Ratio Lower Upper
264 100
260 23.5 17.8 26.8
265 23.1 17.3 25.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.598 ng

RT: 28.288 min Scan# 41

Delta R.T. -0.020 min

Lab File: BG057917.D

Acq: 29 Jun 2023 23:44

Instrument :

BNA_G

ClientSampleId :

ORA-1652DL

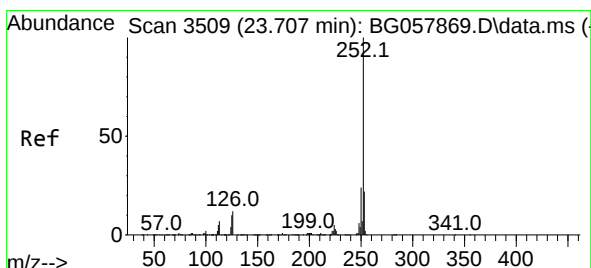
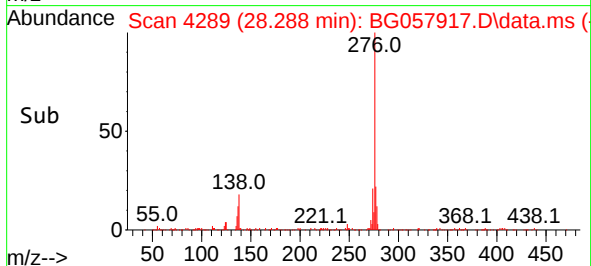
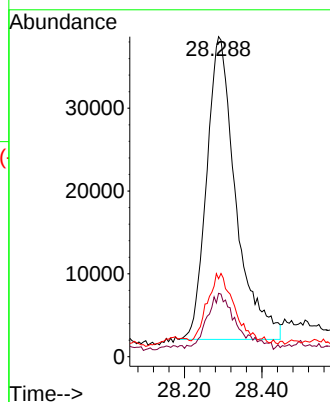
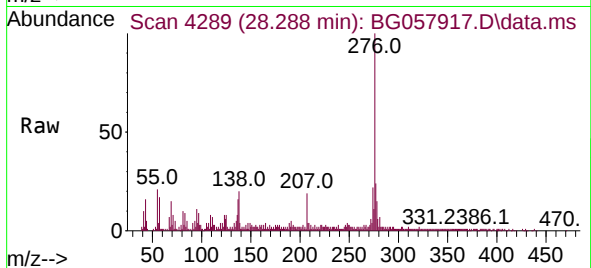
Tgt Ion:276 Resp: 190034
 Ion Ratio Lower Upper
 276 100
 138 16.2 12.2 18.4
 277 20.5 20.4 30.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/03/2023

Supervised By :mohammad ahmed 07/07/2023



#88

Benzo(b)fluoranthene

Concen: 27.880 ng

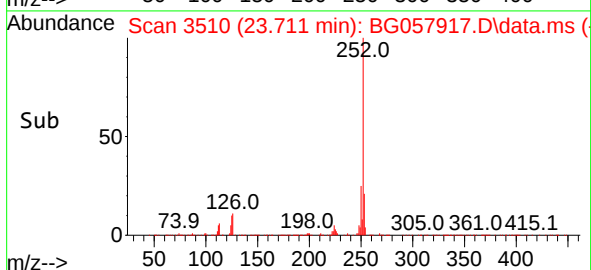
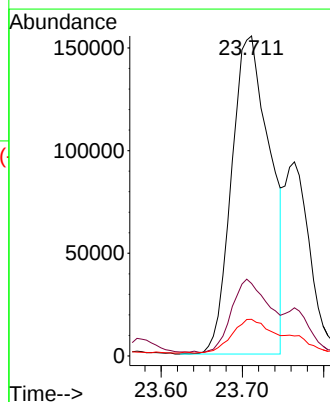
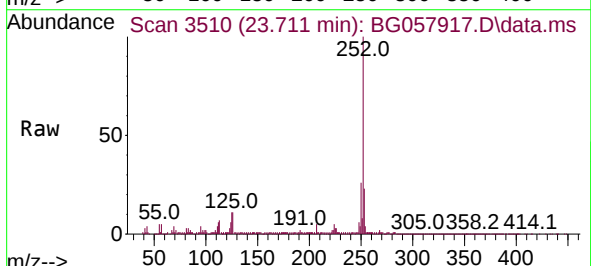
RT: 23.711 min Scan# 3510

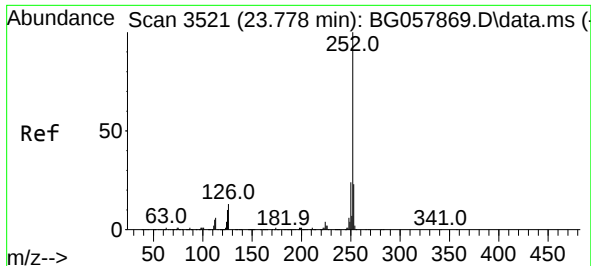
Delta R.T. 0.004 min

Lab File: BG057917.D

Acq: 29 Jun 2023 23:44

Tgt Ion:252 Resp: 507365
 Ion Ratio Lower Upper
 252 100
 253 22.7 17.7 26.5
 125 11.4 7.7 11.5





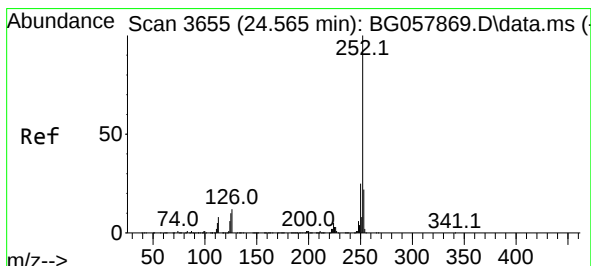
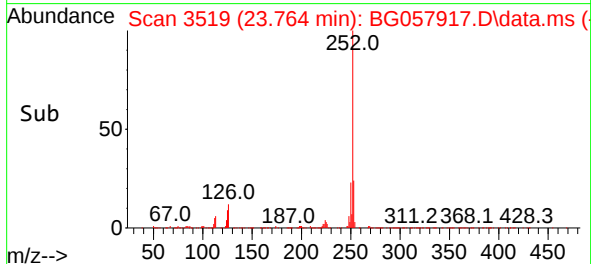
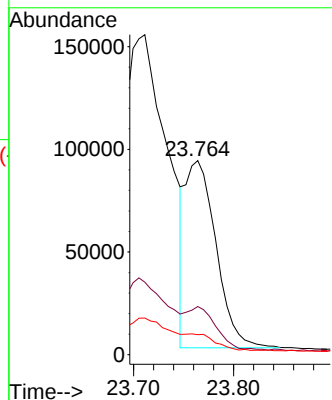
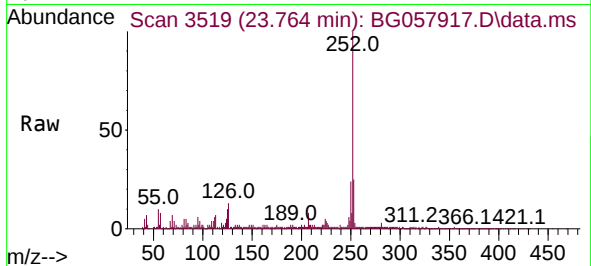
#89
Benzo(k)fluoranthene
Concen: 10.552 ng m
RT: 23.764 min Scan# 3519
Delta R.T. -0.014 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44

Instrument :
BNA_G
ClientSampleId :
ORA-1652DL

Tgt Ion:252 Resp: 19407
Ion Ratio Lower Upper
252 100
253 24.8 18.1 27.1
125 10.3 7.8 11.6

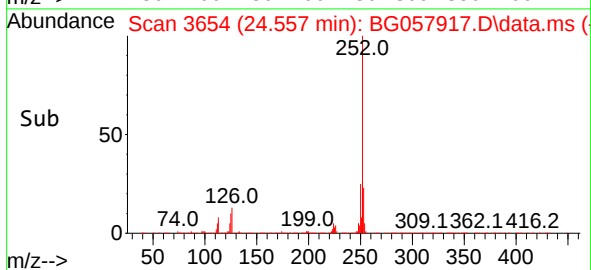
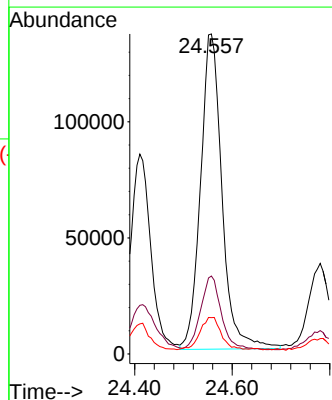
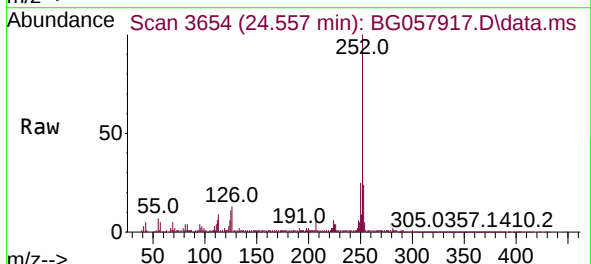
Manual Integrations
APPROVED

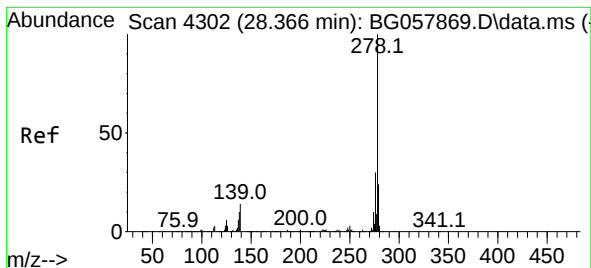
Reviewed By :Yogesh Patel 07/03/2023
Supervised By :mohammad ahmed 07/07/2023



#90
Benzo(a)pyrene
Concen: 22.997 ng
RT: 24.557 min Scan# 3654
Delta R.T. -0.008 min
Lab File: BG057917.D
Acq: 29 Jun 2023 23:44

Tgt Ion:252 Resp: 414565
Ion Ratio Lower Upper
252 100
253 24.3 17.7 26.5
125 11.3 8.0 12.0





#91

Dibenzo(a,h)anthracene

Concen: 2.501 ng

RT: 28.335 min Scan# 41

Delta R.T. -0.031 min

Lab File: BG057917.D

Acq: 29 Jun 2023 23:44

Instrument :

BNA_G

ClientSampleId :

ORA-1652DL

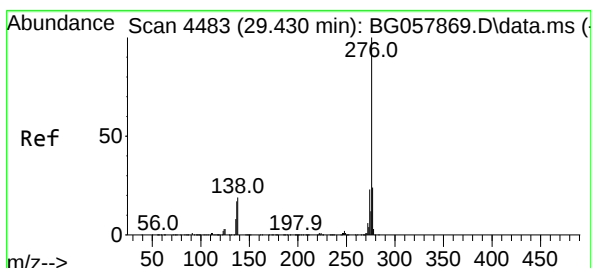
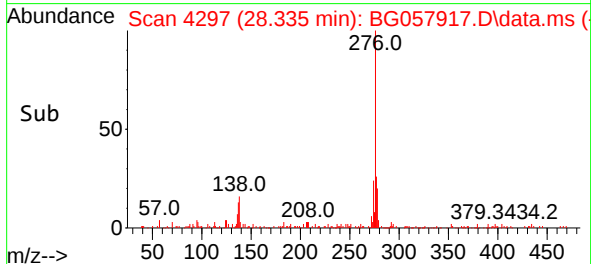
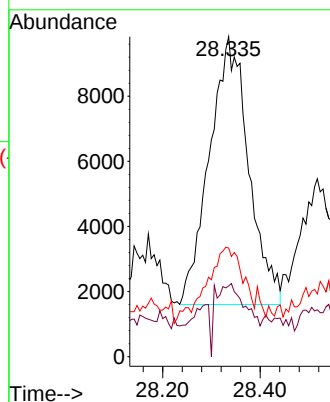
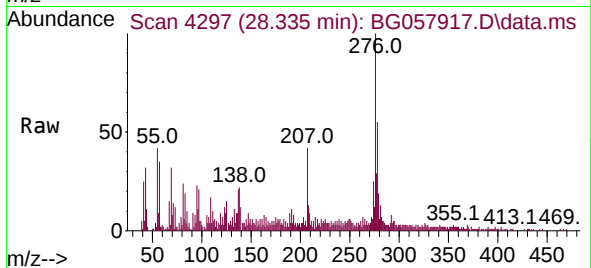
Tgt Ion:278 Resp: 45854
 Ion Ratio Lower Upper
 278 100
 139 22.1 11.0 16.4
 279 34.0 19.3 28.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/03/2023

Supervised By :mohammad ahmed 07/07/2023



#92

Benzo(g,h,i)perylene

Concen: 9.759 ng m

RT: 29.405 min Scan# 4479

Delta R.T. -0.025 min

Lab File: BG057917.D

Acq: 29 Jun 2023 23:44

Tgt Ion:276 Resp: 177821
 Ion Ratio Lower Upper
 276 100
 277 26.5 19.4 29.2
 138 18.8 15.0 22.6

