

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG062823\
 Data File : BG057888.D
 Acq On : 28 Jun 2023 11:47
 Operator : CG/JU
 Sample : 03366-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB37

Manual Integrations
 APPROVED

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

Quant Time: Jun 28 16:51:16 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	7.917	152	45688	20.000	ng	0.00
21) Naphthalene-d8	10.720	136	201940	20.000	ng	0.00
39) Acenaphthene-d10	14.556	164	148082	20.000	ng	0.00
64) Phenanthrene-d10	17.300	188	339802	20.000	ng	0.00
76) Chrysene-d12	21.566	240	261919	20.000	ng	0.00
86) Perylene-d12	24.727	264	370973	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.491	112	315998	105.821	ng	0.00
7) Phenol-d6	7.077	99	453847	101.637	ng	0.00
23) Nitrobenzene-d5	9.075	82	267532	64.926	ng	-0.01
42) 2,4,6-Tribromophenol	16.043	330	218666	87.917	ng	0.00
45) 2-Fluorobiphenyl	13.176	172	561912	57.907	ng	0.00
79) Terphenyl-d14	19.915	244	845458	58.848	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.773	128	360214	33.416	ng	99
37) 2-Methylnaphthalene	12.377	142	90813	11.429	ng	98
38) 1-Methylnaphthalene	12.600	142	48256	6.427	ng	99
46) 1,1'-Biphenyl	13.387	154	24600	2.439	ng	100
52) Acenaphthene	14.621	154	363625	45.822	ng	99
55) Dibenzofuran	14.950	168	271141	19.920	ng	99
58) Fluorene	15.602	166	367085	33.414	ng	99
71) Phenanthrene	17.353	178	2871559	176.043	ng	93
72) Anthracene	17.435	178	965826	57.411	ng	98
73) Carbazole	17.706	167	653794	40.873	ng	100
75) Fluoranthene	19.368	202	3738622	181.934	ng	91
78) Pyrene	19.733	202	3367704	180.073	ng	# 91
81) Benzo(a)anthracene	21.548	228	2527648	139.451	ng	93
83) Chrysene	21.619	228	2359019m	137.498	ng	
87) Indeno(1,2,3-cd)pyrene	28.358	276	1757832	71.528	ng	97
88) Benzo(b)fluoranthene	23.746	252	3419195	168.987	ng	96
89) Benzo(k)fluoranthene	23.799	252	1212807m	59.307	ng	
90) Benzo(a)pyrene	24.598	252	2596127	129.527	ng	96
91) Dibenzo(a,h)anthracene	28.387	278	471095	23.109	ng	95
92) Benzo(g,h,i)perylene	29.486	276	1586861	78.325	ng	99

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

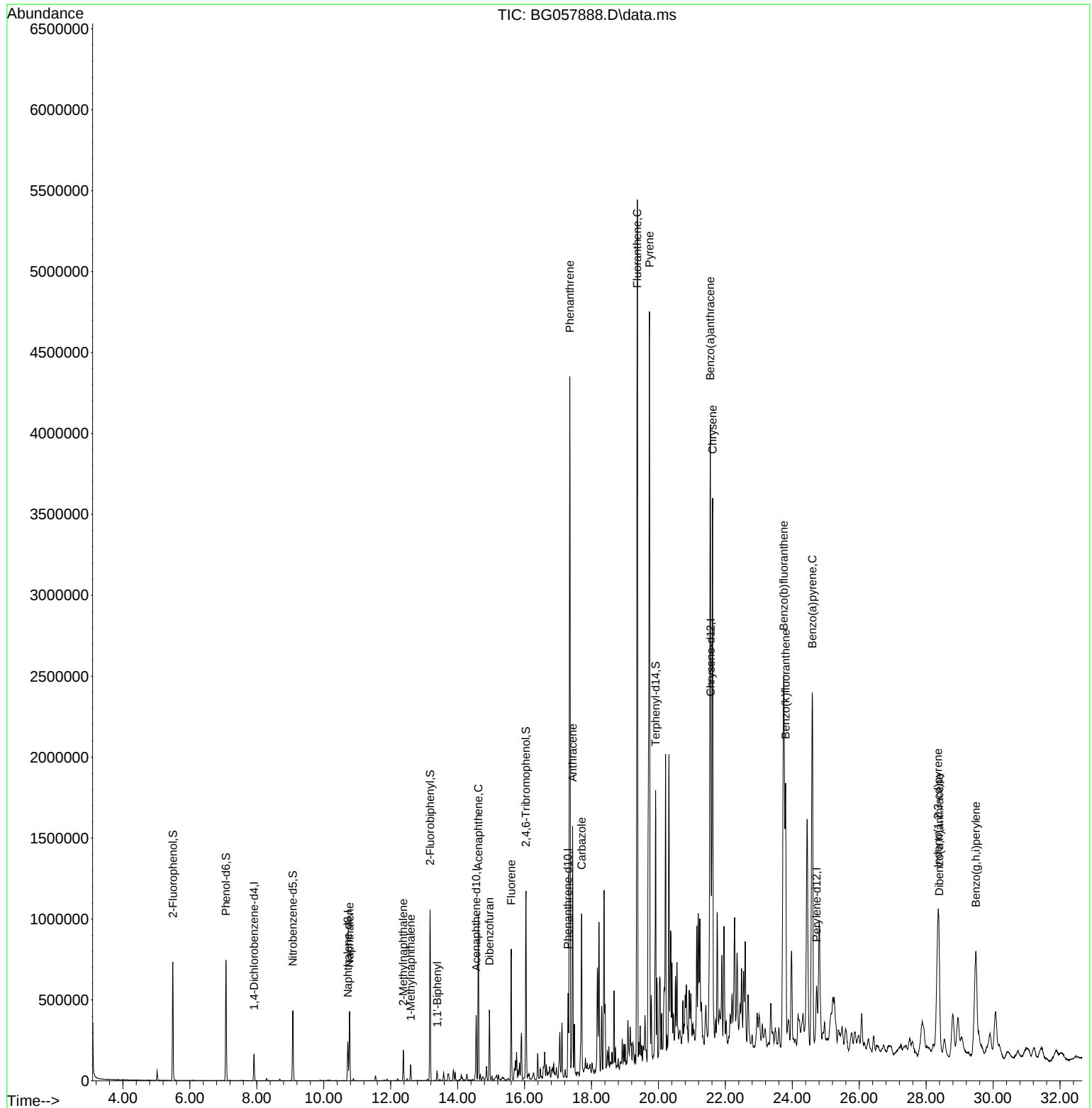
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG062823\
Data File : BG057888.D
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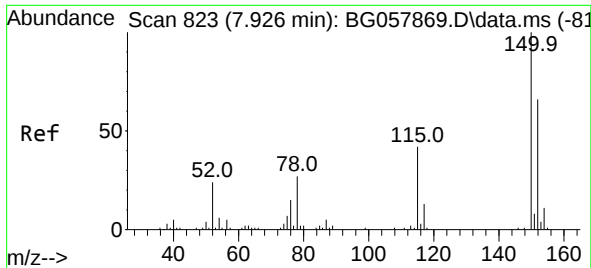
Instrument :
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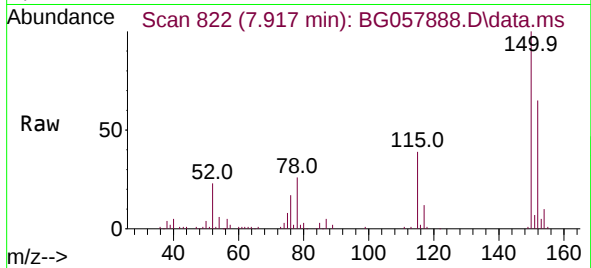
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.917 min Scan# 81
Delta R.T. -0.009 min
Lab File: BG057888.D
Acq: 28 Jun 2023 11:47

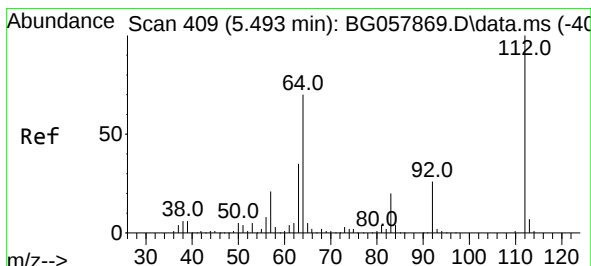
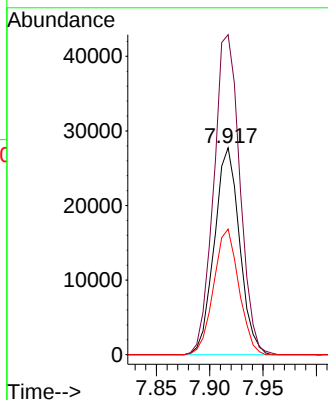
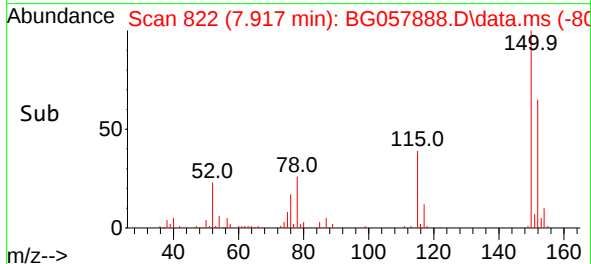
Instrument :
BNA_G
ClientSampleId :
SB37



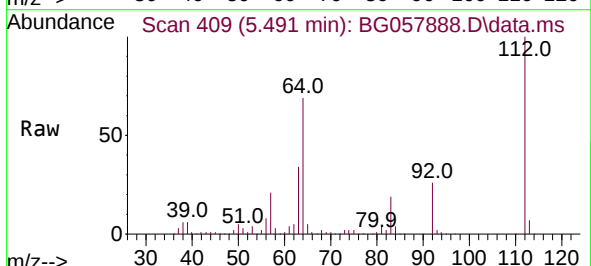
Tgt Ion:152 Resp: 4568
Ion Ratio Lower Upper
152 100
150 154.7 122.0 183.0
115 60.7 50.7 76.1

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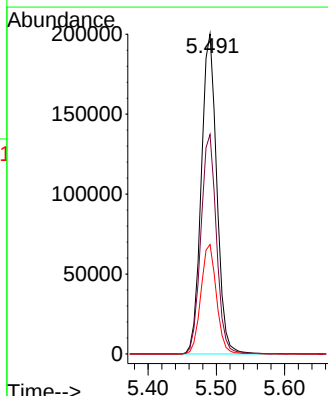
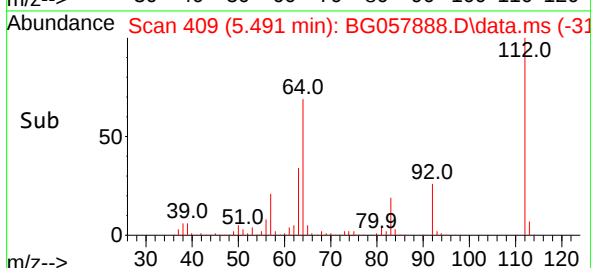
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023

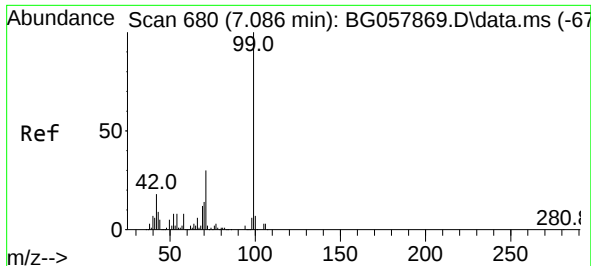


#5
2-Fluorophenol
Concen: 105.821 ng
RT: 5.491 min Scan# 409
Delta R.T. -0.003 min
Lab File: BG057888.D
Acq: 28 Jun 2023 11:47



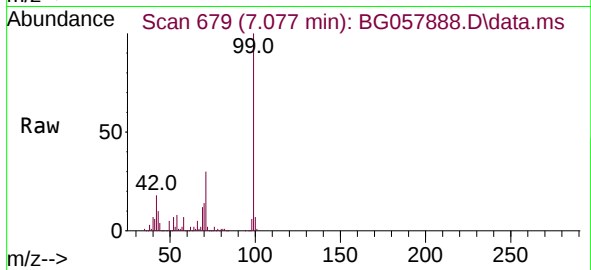
Tgt Ion:112 Resp: 315998
Ion Ratio Lower Upper
112 100
64 68.6 55.8 83.6
63 34.2 27.9 41.9





#7
Phenol-d6
Concen: 101.637 ng
RT: 7.077 min Scan# 61
Delta R.T. -0.009 min
Lab File: BG057888.D
Acq: 28 Jun 2023 11:47

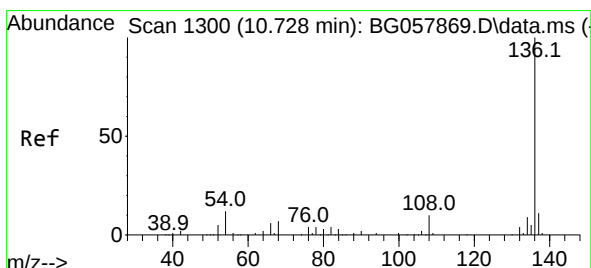
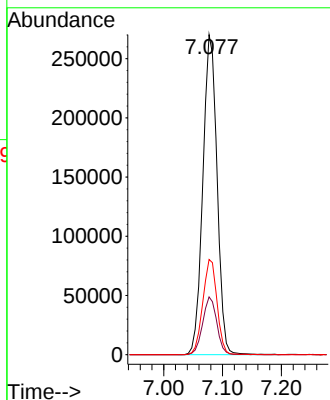
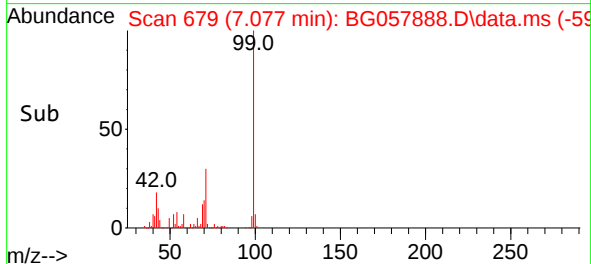
Instrument :
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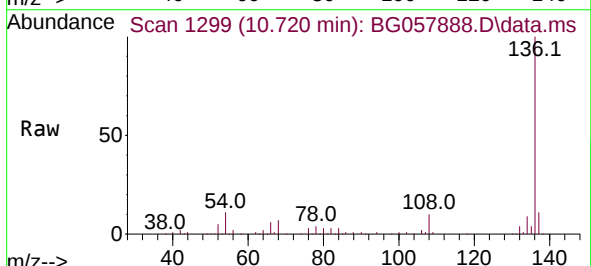
Tgt Ion: 99 Resp: 45384
Ion Ratio Lower Upper
99 100
42 18.1 14.2 21.4
71 29.8 23.9 35.9

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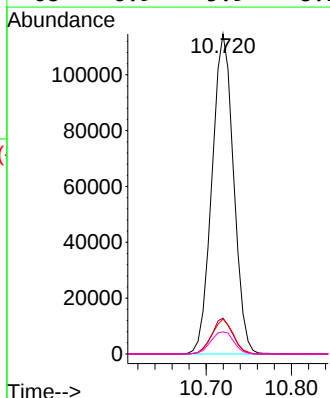
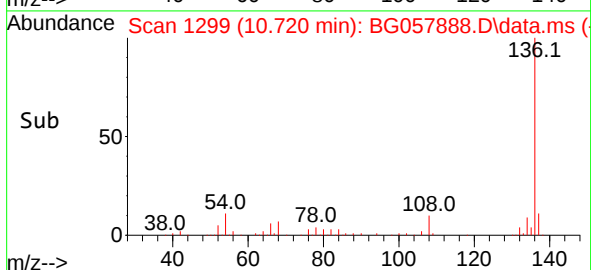
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023

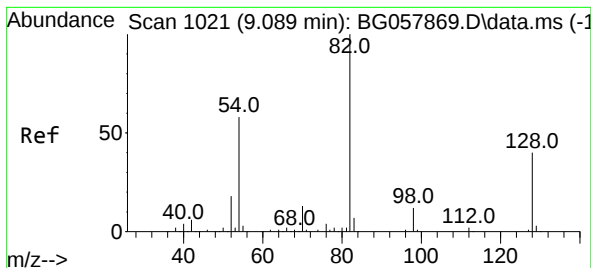


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.720 min Scan# 1299
Delta R.T. -0.009 min
Lab File: BG057888.D
Acq: 28 Jun 2023 11:47



Tgt Ion:136 Resp: 201940
Ion Ratio Lower Upper
136 100
137 11.2 8.6 12.8
54 10.9 9.3 13.9
68 6.9 5.9 8.9





#23

Nitrobenzene-d5

Concen: 64.926 ng

RT: 9.075 min Scan# 1019

Delta R.T. -0.014 min

Lab File: BG057888.D

Acq: 28 Jun 2023 11:47

Instrument :

BNA_G

ClientSampleId :

SB37

Tgt Ion: 82 Resp: 26753

Ion Ratio Lower Upper

82 100

128 42.5 32.2 48.4

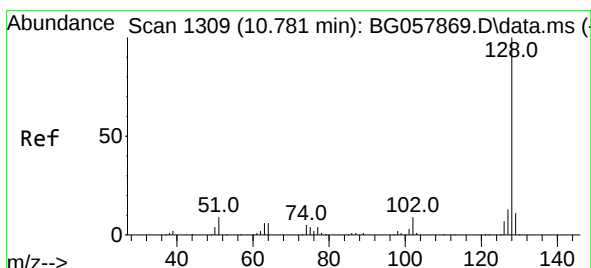
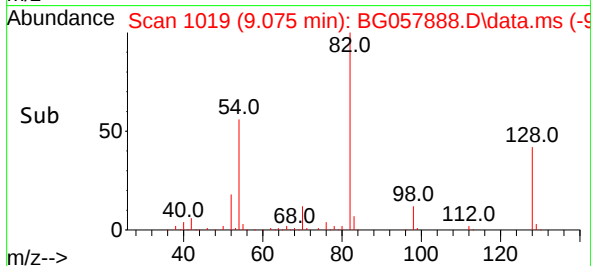
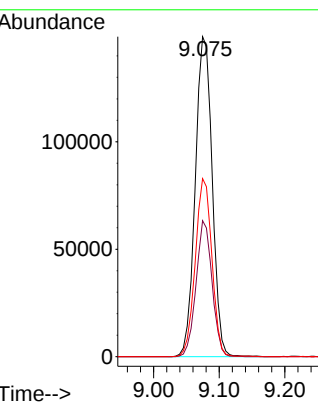
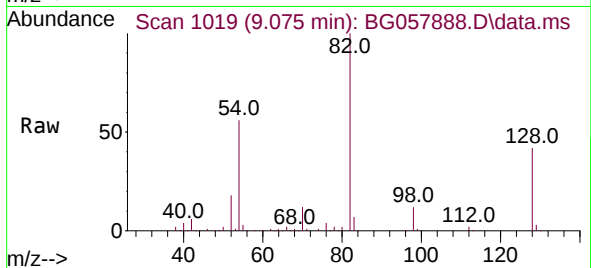
54 55.7 46.1 69.1

Manual Integrations

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Supervised By :mohammad ahmed 06/29/2023



#31

Naphthalene

Concen: 33.416 ng

RT: 10.773 min Scan# 1308

Delta R.T. -0.009 min

Lab File: BG057888.D

Acq: 28 Jun 2023 11:47

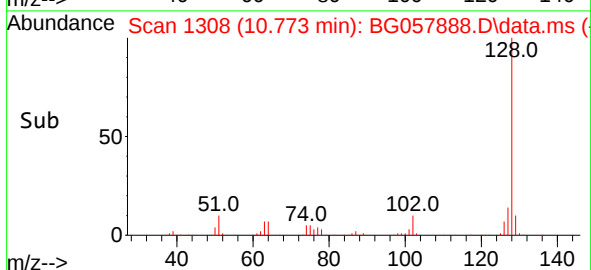
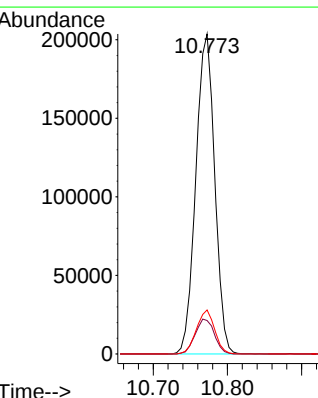
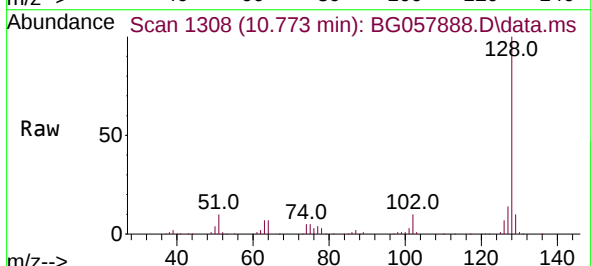
Tgt Ion:128 Resp: 360214

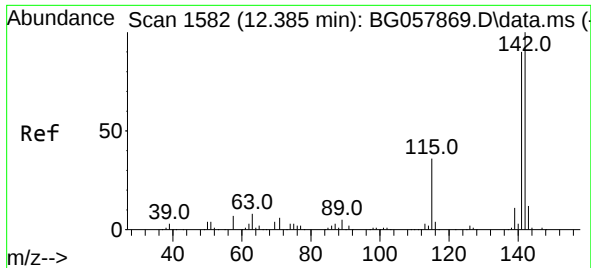
Ion Ratio Lower Upper

128 100

129 10.4 8.5 12.7

127 13.7 10.3 15.5





#37

2-Methylnaphthalene

Concen: 11.429 ng

RT: 12.377 min Scan# 1

Delta R.T. -0.009 min

Lab File: BG057888.D

Acq: 28 Jun 2023 11:47

Instrument :

BNA_G

ClientSampleId :

SB37

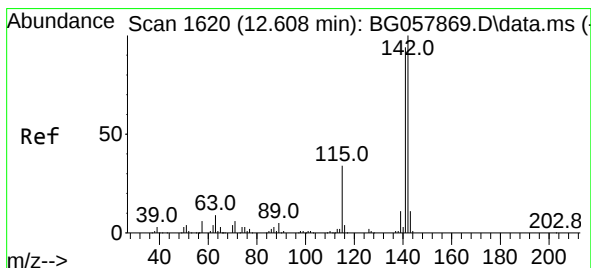
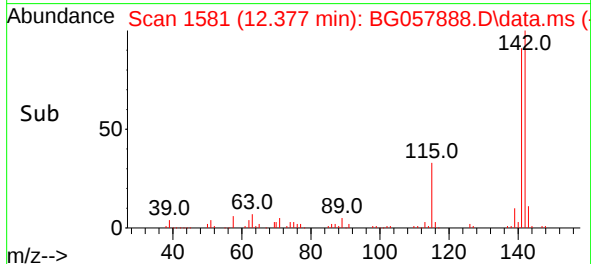
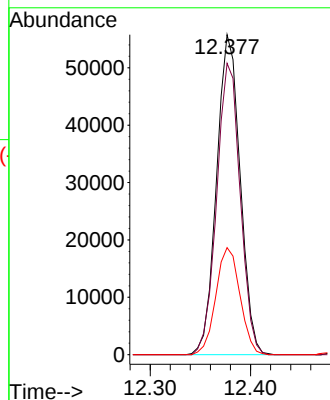
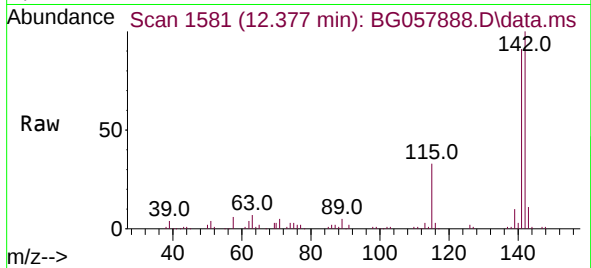
Tgt Ion:142	Resp:	9081
Ion Ratio	Lower	Upper
142	100	
141	91.1	72.4 108.6
115	33.5	28.6 42.8

Manual Integrations

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Supervised By :mohammad ahmed 06/29/2023



#38

1-Methylnaphthalene

Concen: 6.427 ng

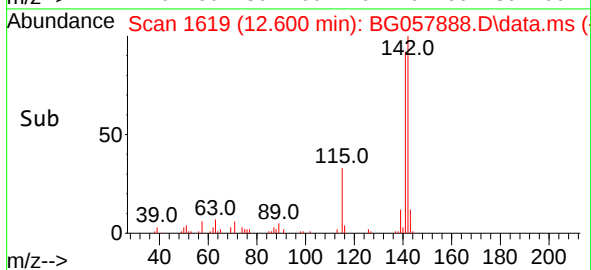
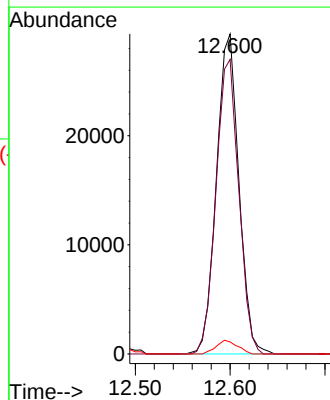
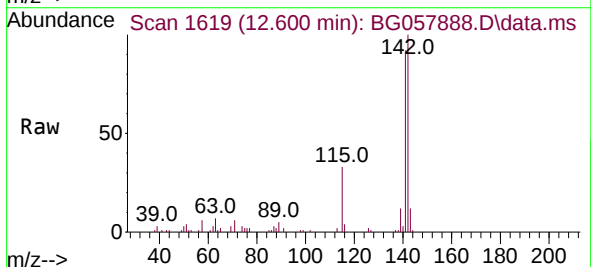
RT: 12.600 min Scan# 1619

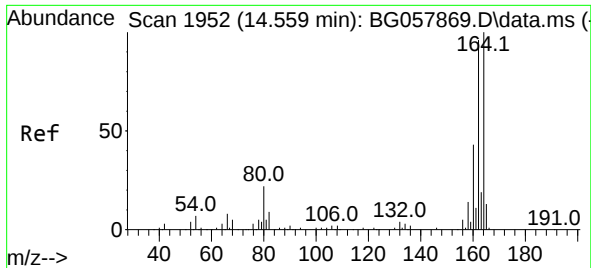
Delta R.T. -0.009 min

Lab File: BG057888.D

Acq: 28 Jun 2023 11:47

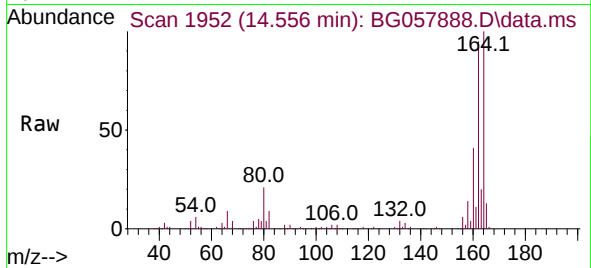
Tgt Ion:142	Resp:	48256
Ion Ratio	Lower	Upper
142	100	
141	92.1	74.8 112.2
116	3.8	3.0 4.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.556 min Scan# 1952
Delta R.T. -0.003 min
Lab File: BG057888.D
Acq: 28 Jun 2023 11:47

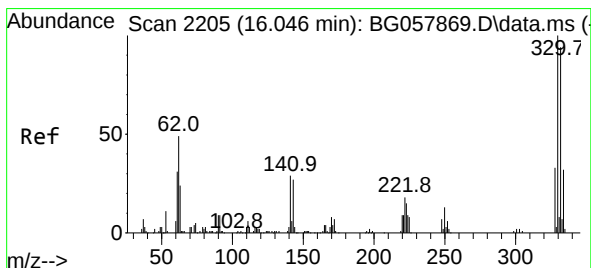
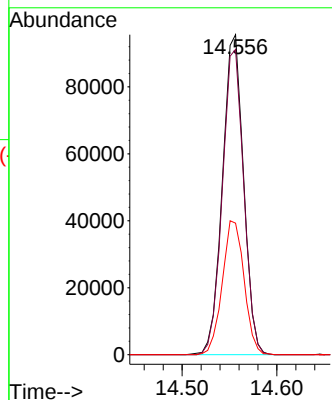
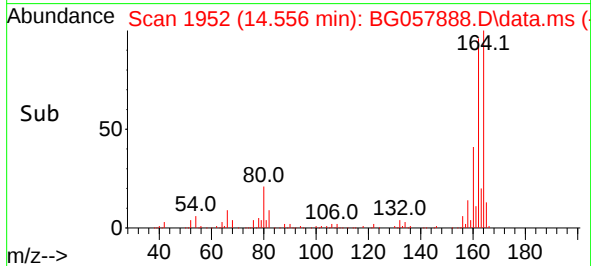
Instrument :
BNA_G
ClientSampleId :
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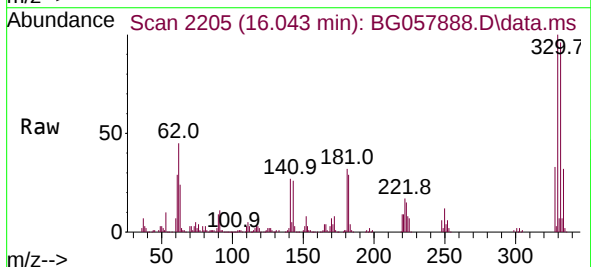
Tgt Ion:164 Resp: 148082
Ion Ratio Lower Upper
164 100
162 95.4 76.4 114.6
160 41.1 34.2 51.2

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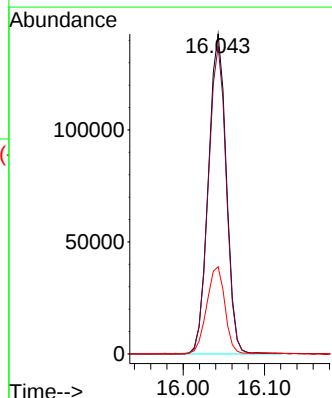
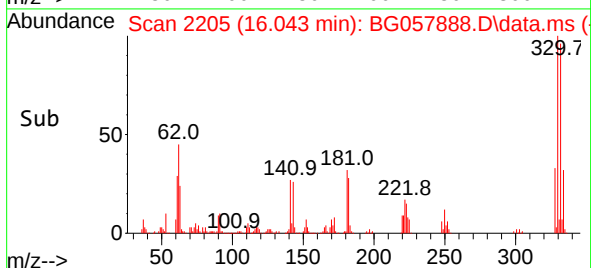
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023

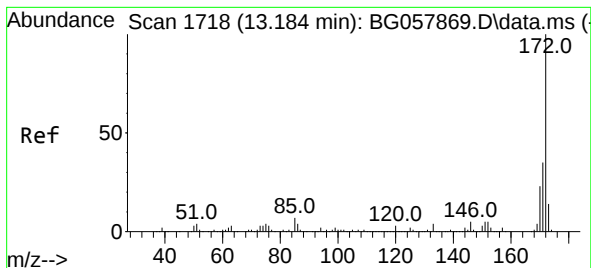


#42
2,4,6-Tribromophenol
Concen: 87.917 ng
RT: 16.043 min Scan# 2205
Delta R.T. -0.003 min
Lab File: BG057888.D
Acq: 28 Jun 2023 11:47



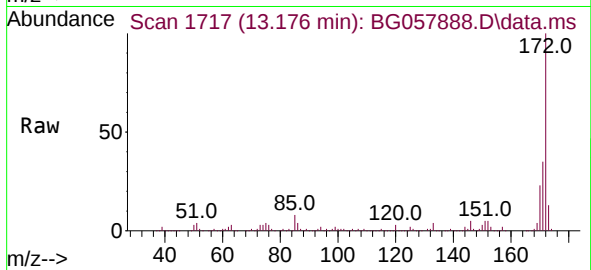
Tgt Ion:330 Resp: 218666
Ion Ratio Lower Upper
330 100
332 96.3 77.1 115.7
141 27.8 22.2 33.4





#45
2-Fluorobiphenyl
Concen: 57.907 ng
RT: 13.176 min Scan# 1717
Delta R.T. -0.009 min
Lab File: BG057888.D
Acq: 28 Jun 2023 11:47

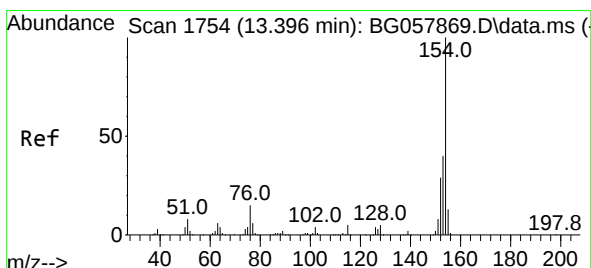
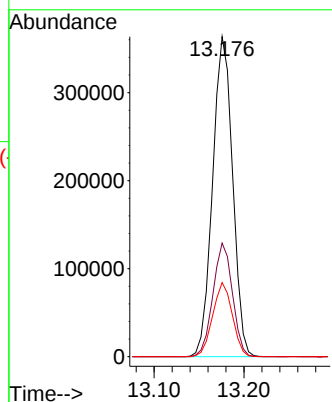
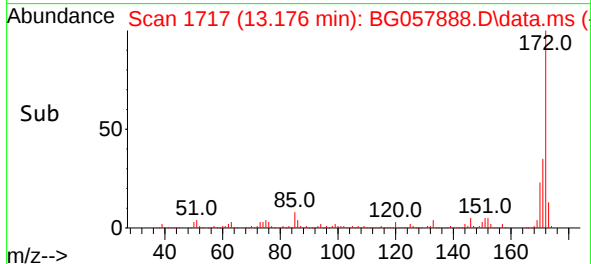
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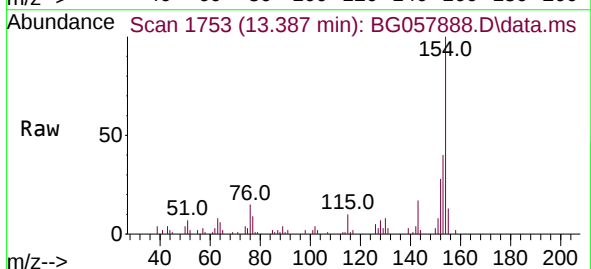
Tgt Ion:172 Resp: 561912
Ion Ratio Lower Upper
172 100
171 35.5 27.8 41.8
170 23.1 18.6 27.8

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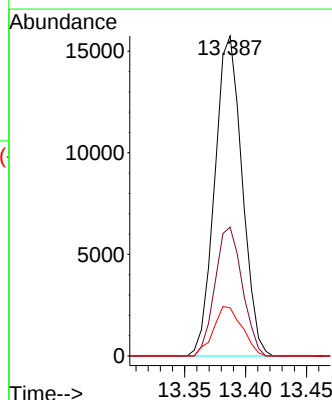
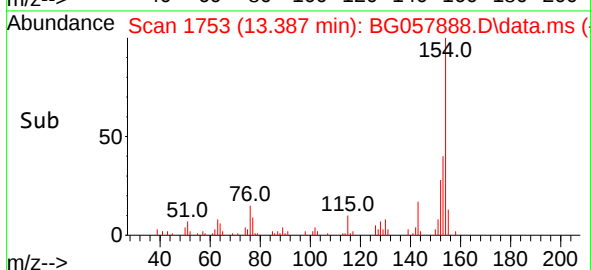
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023

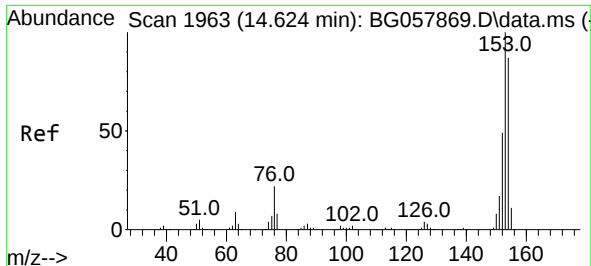


#46
1,1'-Biphenyl
Concen: 2.439 ng
RT: 13.387 min Scan# 1753
Delta R.T. -0.009 min
Lab File: BG057888.D
Acq: 28 Jun 2023 11:47



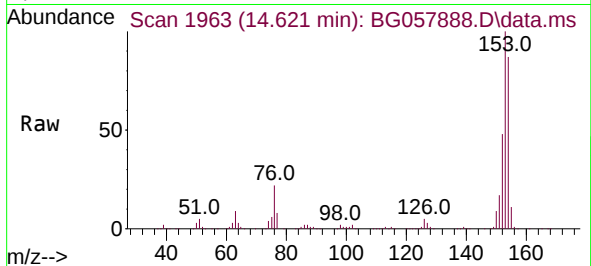
Tgt Ion:154 Resp: 24600
Ion Ratio Lower Upper
154 100
153 40.3 20.1 60.1
76 15.1 0.0 34.7





#52
Acenaphthene
Concen: 45.822 ng
RT: 14.621 min Scan# 1963
Delta R.T. -0.003 min
Lab File: BG057888.D
Acq: 28 Jun 2023 11:47

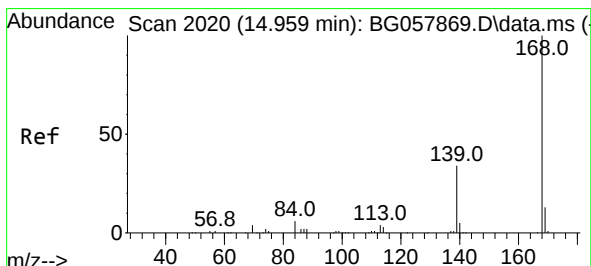
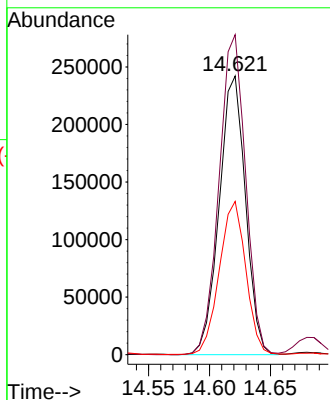
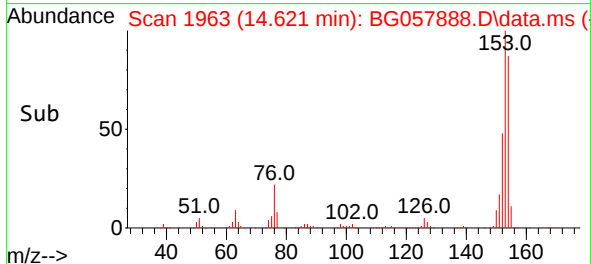
Instrument :
BNA_G
ClientSampleId :
SB37



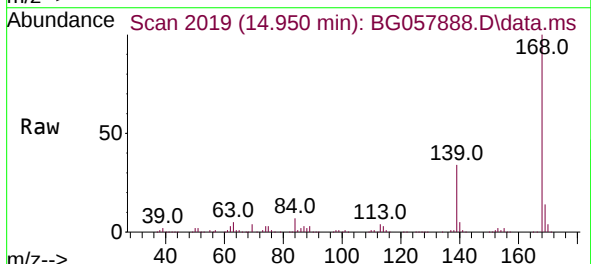
Tgt Ion:154 Resp: 363629
Ion Ratio Lower Upper
154 100
153 114.8 91.5 137.3
152 55.0 44.6 67.0

Manual Integrations
APPROVED

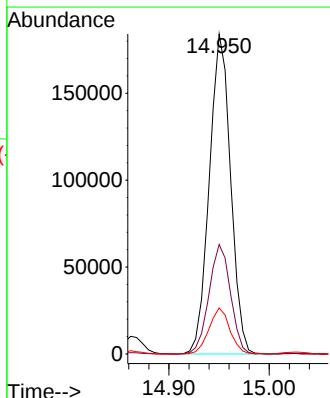
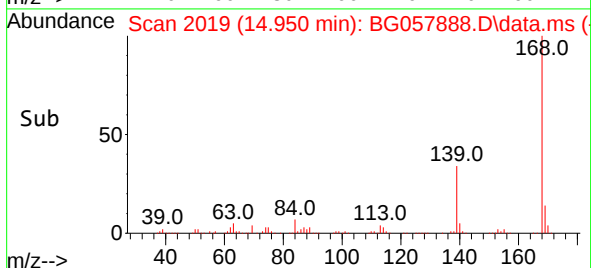
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023

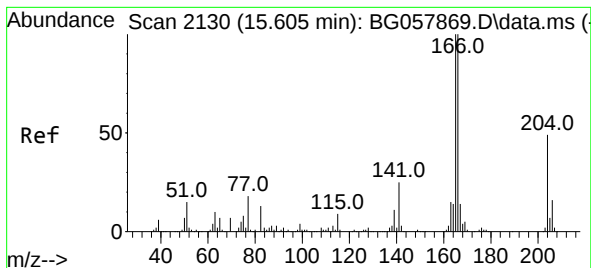


#55
Dibenzofuran
Concen: 19.920 ng
RT: 14.950 min Scan# 2019
Delta R.T. -0.009 min
Lab File: BG057888.D
Acq: 28 Jun 2023 11:47



Tgt Ion:168 Resp: 271141
Ion Ratio Lower Upper
168 100
139 34.2 27.3 40.9
169 14.4 10.3 15.5





#58

Fluorene

Concen: 33.414 ng

RT: 15.602 min Scan# 2130

Delta R.T. -0.003 min

Lab File: BG057888.D

Acq: 28 Jun 2023 11:47

Instrument :

BNA_G

ClientSampleId :

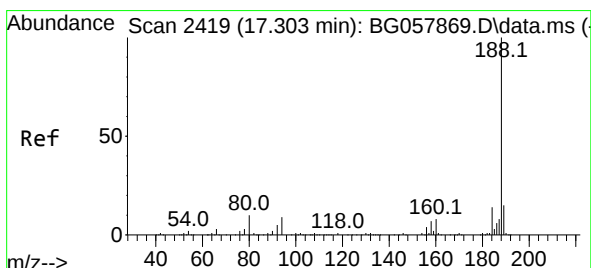
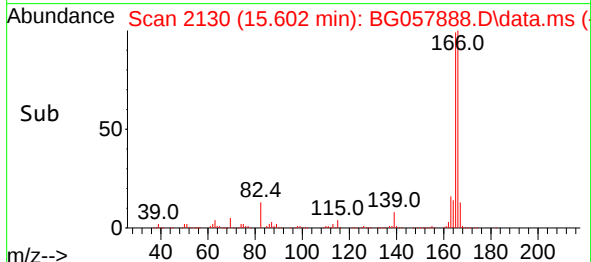
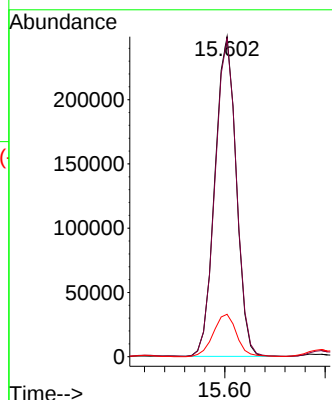
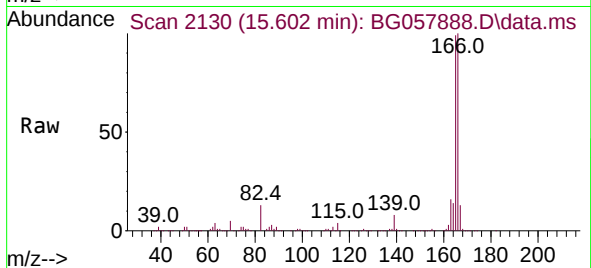
SB37

Tgt Ion:166 Resp: 367085
 Ion Ratio Lower Upper
 166 100
 165 99.4 80.0 120.0
 167 13.3 11.0 16.4

Manual Integrations

APPROVED

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



#64

Phenanthrene-d10

Concen: 20.000 ng

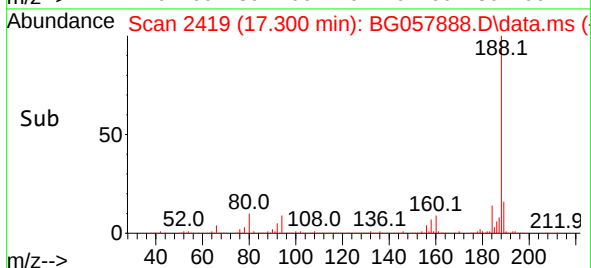
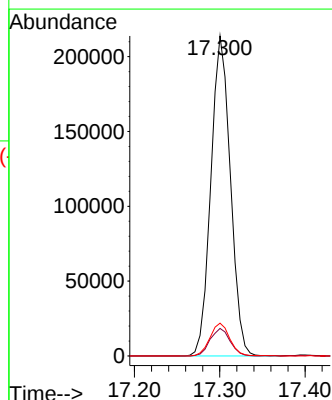
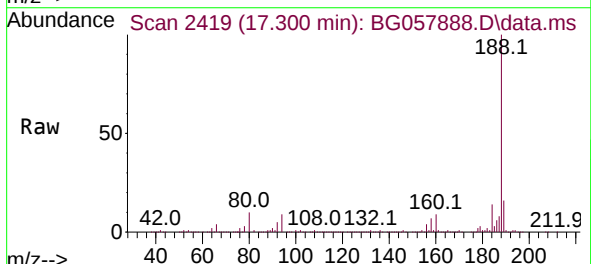
RT: 17.300 min Scan# 2419

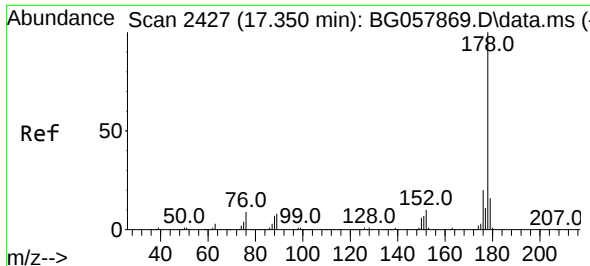
Delta R.T. -0.003 min

Lab File: BG057888.D

Acq: 28 Jun 2023 11:47

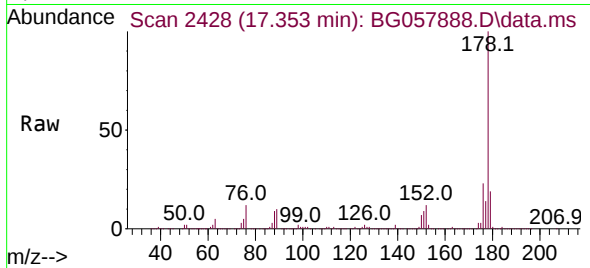
Tgt Ion:188 Resp: 339802
 Ion Ratio Lower Upper
 188 100
 94 8.6 7.2 10.8
 80 10.3 8.4 12.6





#71
Phenanthrene
Concen: 176.043 ng
RT: 17.353 min Scan# 2427
Delta R.T. 0.003 min
Lab File: BG057888.D
Acq: 28 Jun 2023 11:47

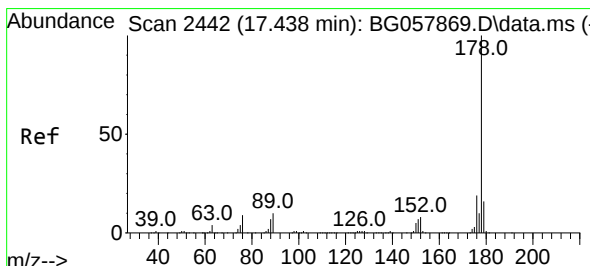
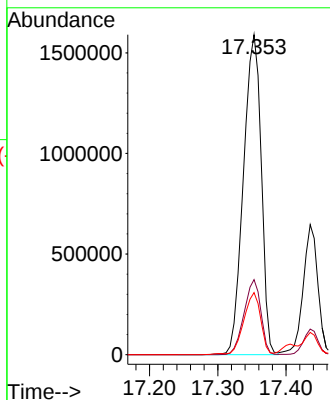
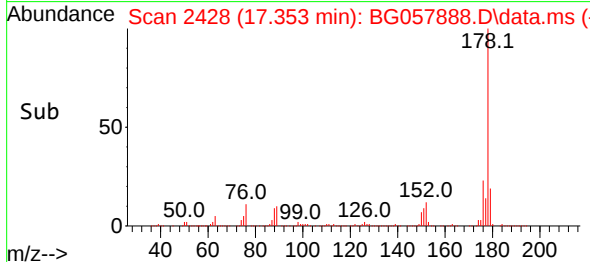
Instrument :
BNA_G
ClientSampleId :
SB37



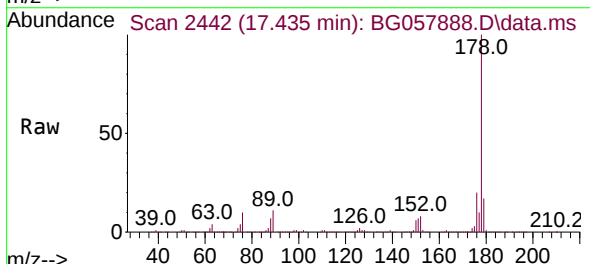
Tgt Ion:178 Resp: 287155
Ion Ratio Lower Upper
178 100
176 23.5 16.3 24.5
179 19.4 13.2 19.8

Manual Integrations
APPROVED

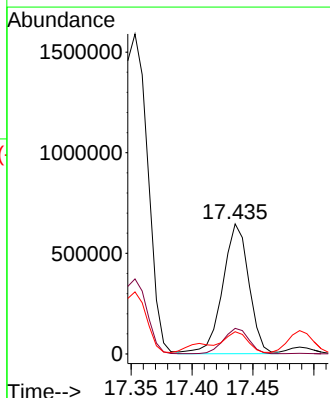
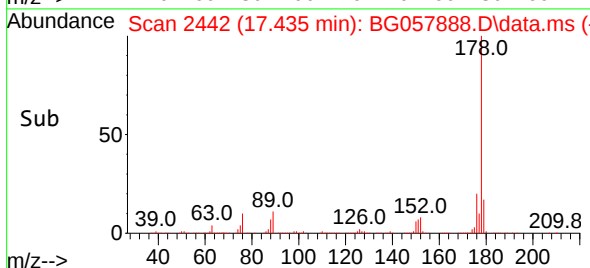
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023

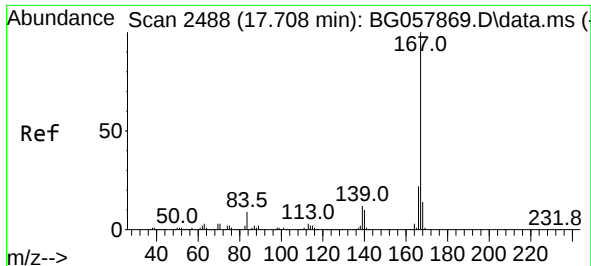


#72
Anthracene
Concen: 57.411 ng
RT: 17.435 min Scan# 2442
Delta R.T. -0.003 min
Lab File: BG057888.D
Acq: 28 Jun 2023 11:47



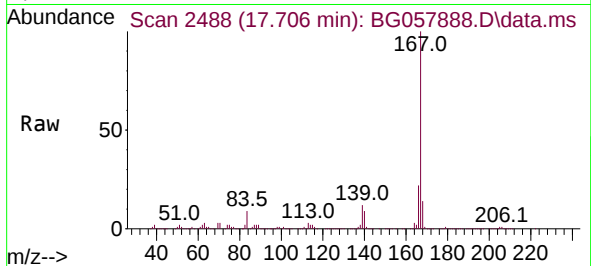
Tgt Ion:178 Resp: 965826
Ion Ratio Lower Upper
178 100
176 19.7 15.4 23.0
179 17.1 12.9 19.3





#73
 Carbazole
 Concen: 40.873 ng
 RT: 17.706 min Scan# 2488
 Delta R.T. -0.003 min
 Lab File: BG057888.D
 Acq: 28 Jun 2023 11:47

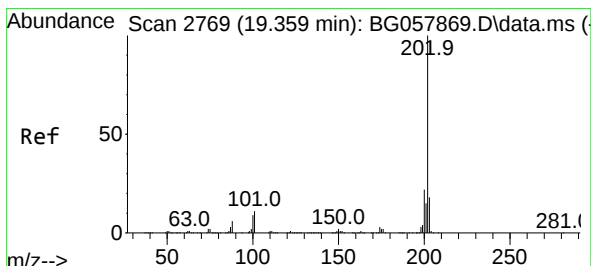
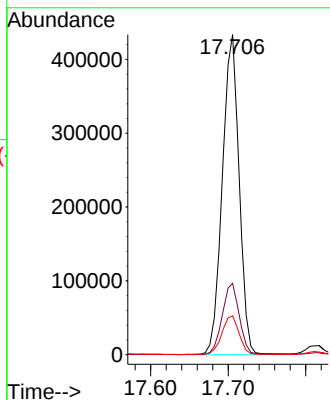
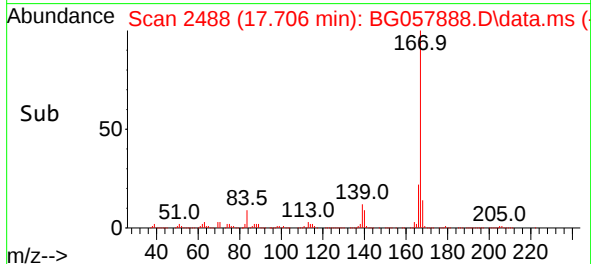
Instrument :
 BNA_G
 ClientSampleId :
 SB37



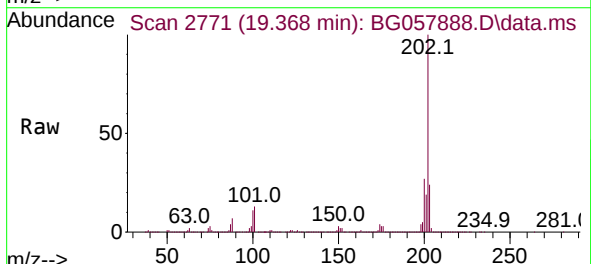
Tgt Ion:167 Resp: 653794
 Ion Ratio Lower Upper
 167 100
 166 22.3 17.8 26.8
 139 12.2 9.8 14.8

Manual Integrations
 APPROVED

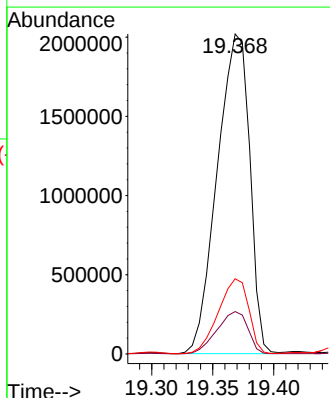
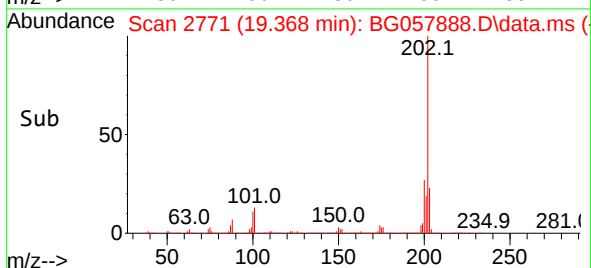
Reviewed By :Yogesh Patel 06/29/2023
 Supervised By :mohammad ahmed 06/29/2023

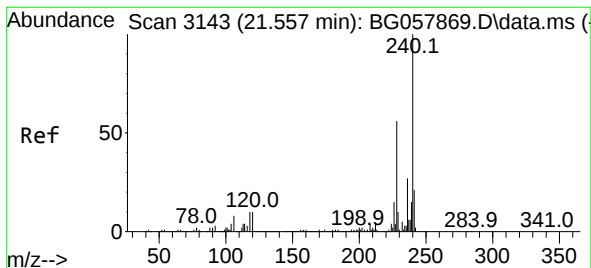


#75
 Fluoranthene
 Concen: 181.934 ng
 RT: 19.368 min Scan# 2771
 Delta R.T. 0.009 min
 Lab File: BG057888.D
 Acq: 28 Jun 2023 11:47



Tgt Ion:202 Resp: 3738622
 Ion Ratio Lower Upper
 202 100
 101 13.3 0.0 31.3
 203 23.5 0.0 38.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.566 min Scan# 3145

Delta R.T. 0.009 min

Lab File: BG057888.D

Acq: 28 Jun 2023 11:47

Instrument :

BNA_G

ClientSampleId :

SB37

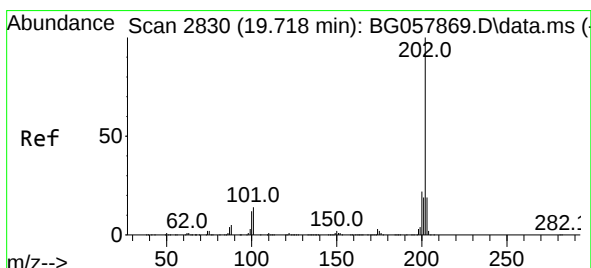
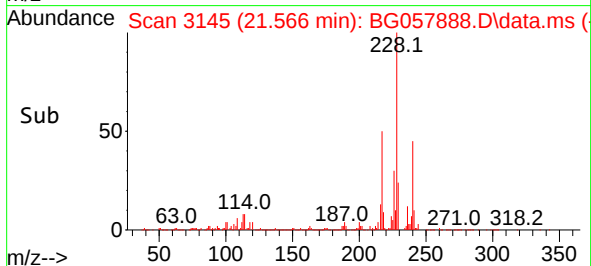
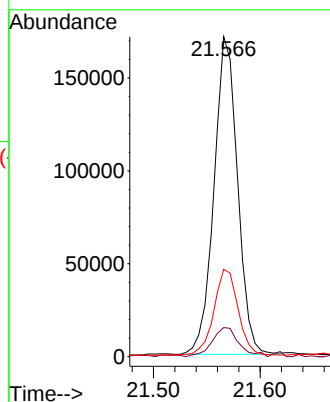
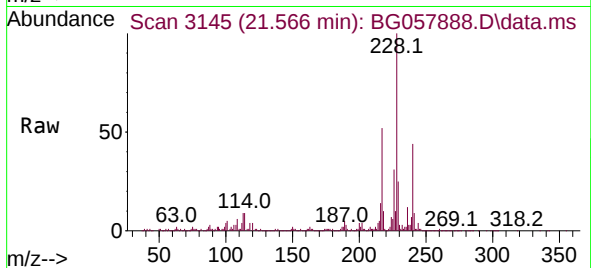
Tgt Ion:240 Resp: 261919

Ion	Ratio	Lower	Upper
240	100		
120	9.1	8.1	12.1
236	27.3	21.9	32.9

Manual Integrations

APPROVED

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



#78

Pyrene

Concen: 180.073 ng

RT: 19.733 min Scan# 2833

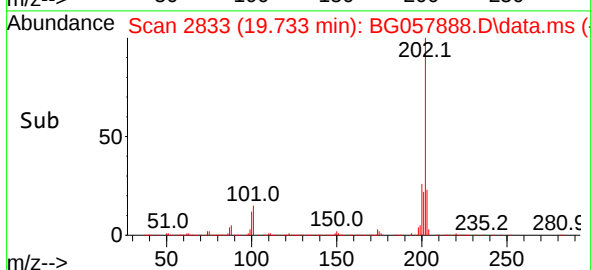
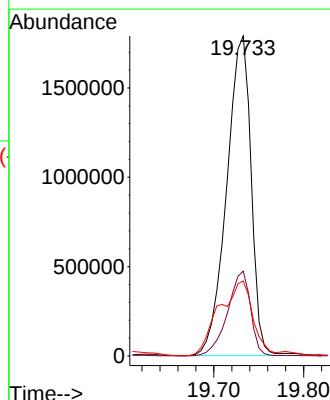
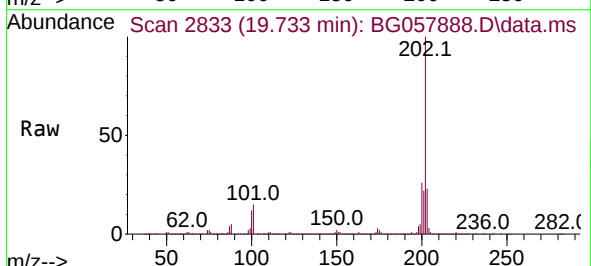
Delta R.T. 0.015 min

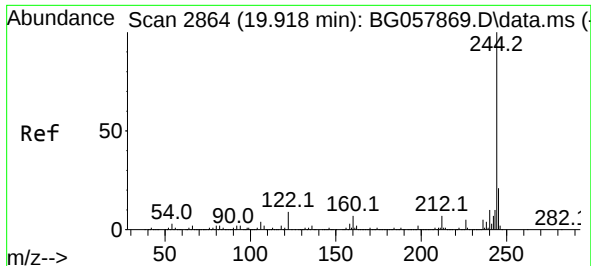
Lab File: BG057888.D

Acq: 28 Jun 2023 11:47

Tgt Ion:202 Resp: 3367704

Ion	Ratio	Lower	Upper
202	100		
200	26.5	17.7	26.5
203	23.4	15.2	22.8





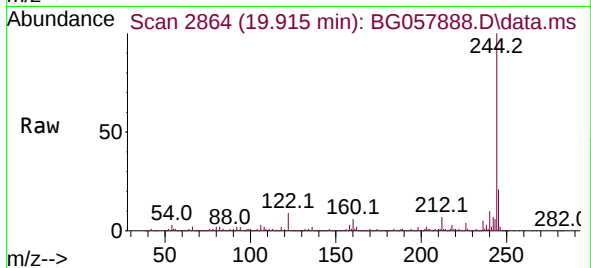
#79
 Terphenyl-d14
 Concen: 58.848 ng
 RT: 19.915 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BG057888.D
 Acq: 28 Jun 2023 11:47

Instrument :

BNA_G

ClientSampleId :

SB37

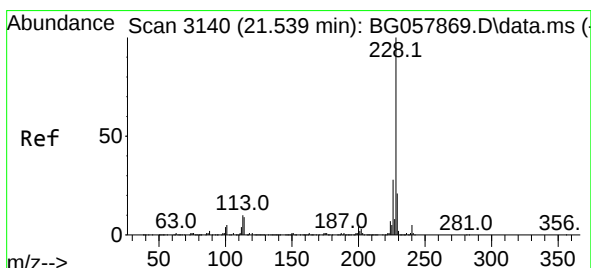
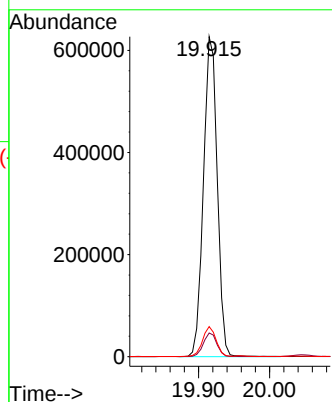
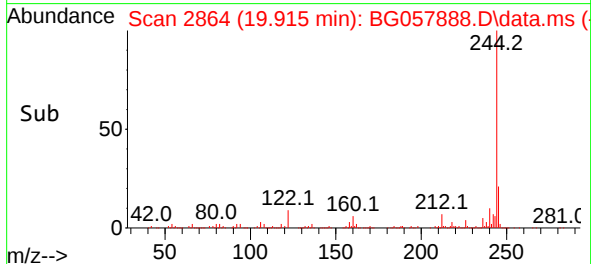


Tgt Ion:244 Resp: 845458
 Ion Ratio Lower Upper
 244 100
 212 7.4 5.9 8.9
 122 9.4 7.4 11.0

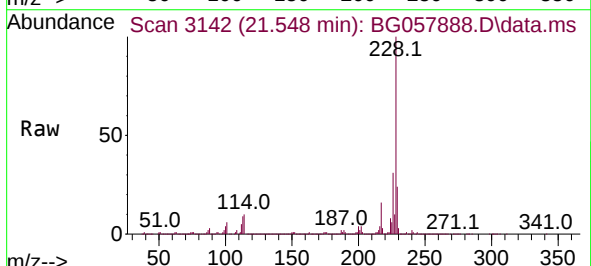
Manual Integrations

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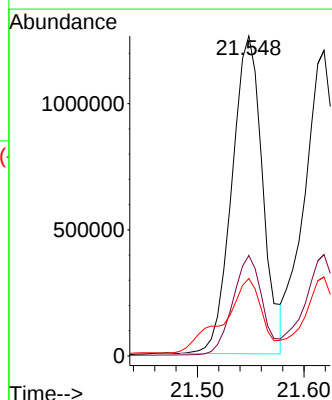
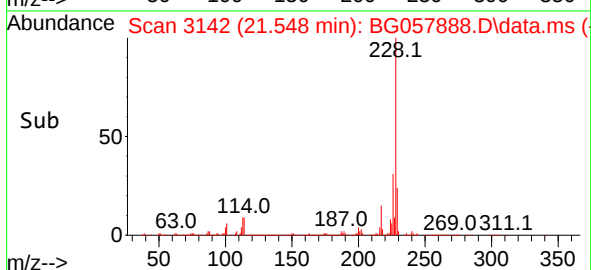
Reviewed By :Yogesh Patel 06/29/2023
 Supervised By :mohammad ahmed 06/29/2023

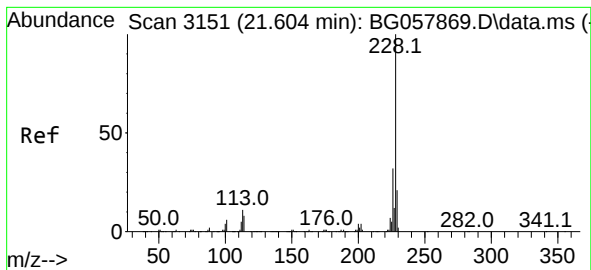


#81
 Benzo(a)anthracene
 Concen: 139.451 ng
 RT: 21.548 min Scan# 3142
 Delta R.T. 0.009 min
 Lab File: BG057888.D
 Acq: 28 Jun 2023 11:47



Tgt Ion:228 Resp: 2527648
 Ion Ratio Lower Upper
 228 100
 226 31.4 22.7 34.1
 229 24.2 16.5 24.7





#83

Chrysene

Concen: 137.498 ng m

RT: 21.619 min Scan# 3151

Delta R.T. 0.015 min

Lab File: BG057888.D

Acq: 28 Jun 2023 11:47

Instrument :

BNA_G

ClientSampleId :

SB37

Tgt Ion:228 Resp: 2359019

Ion Ratio Lower Upper

228 100

226 33.2 25.3 37.9

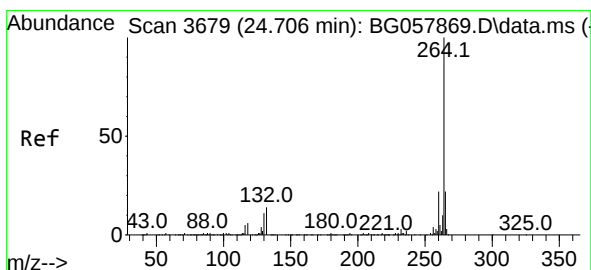
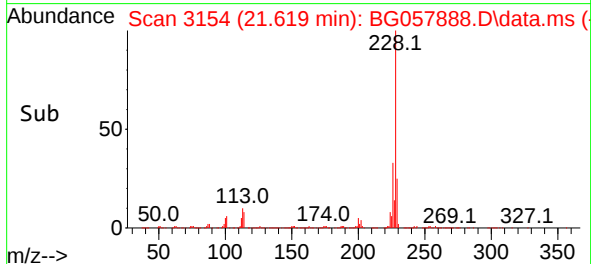
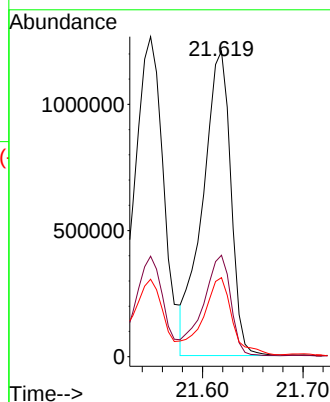
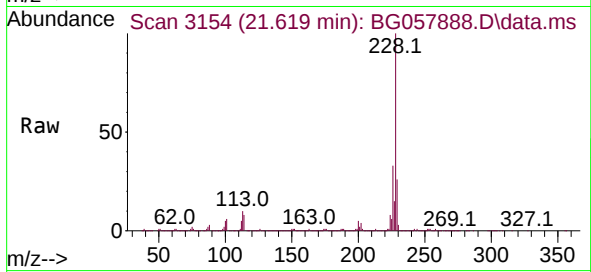
229 25.9 16.5 24.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/29/2023

Supervised By :mohammad ahmed 06/29/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.727 min Scan# 3683

Delta R.T. 0.021 min

Lab File: BG057888.D

Acq: 28 Jun 2023 11:47

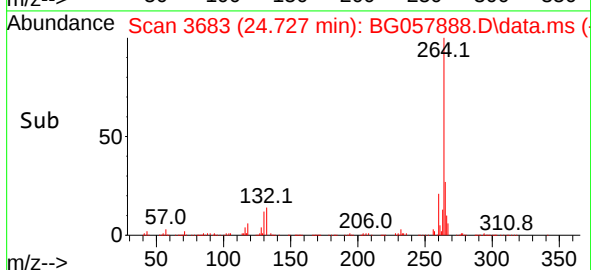
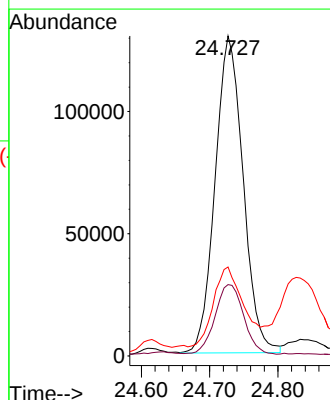
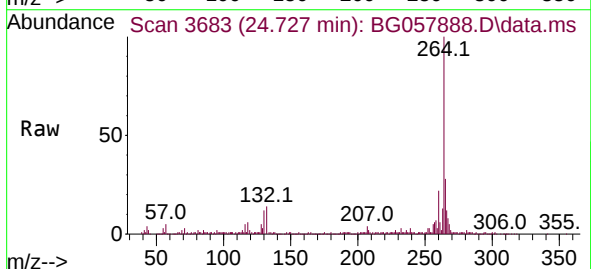
Tgt Ion:264 Resp: 370973

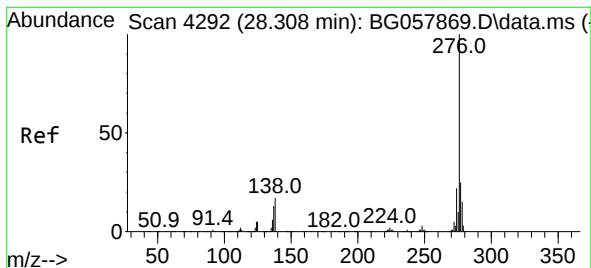
Ion Ratio Lower Upper

264 100

260 22.3 17.8 26.8

265 27.8 17.3 25.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 71.528 ng

RT: 28.358 min Scan# 41

Delta R.T. 0.050 min

Lab File: BG057888.D

Acq: 28 Jun 2023 11:47

Instrument :

BNA_G

ClientSampleId :

SB37

Tgt Ion:276 Resp: 175783

Ion Ratio Lower Upper

276 100

138 17.9 12.2 18.4

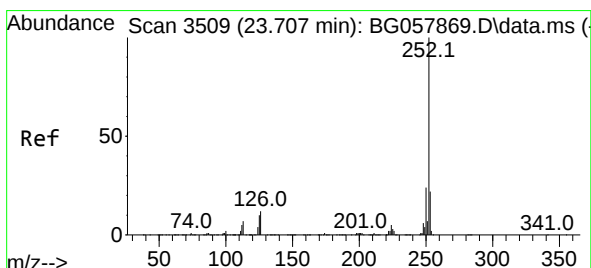
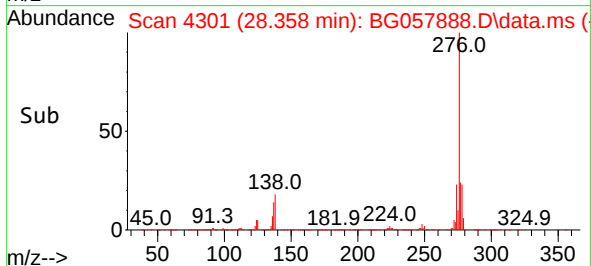
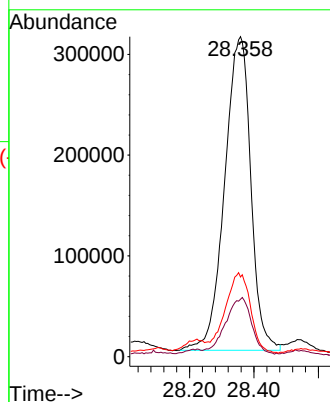
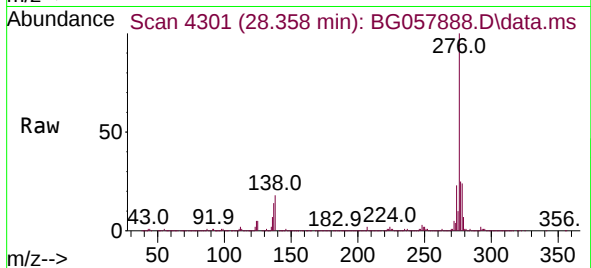
277 24.6 20.4 30.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/29/2023

Supervised By :mohammad ahmed 06/29/2023



#88

Benzo(b)fluoranthene

Concen: 168.987 ng

RT: 23.746 min Scan# 3516

Delta R.T. 0.038 min

Lab File: BG057888.D

Acq: 28 Jun 2023 11:47

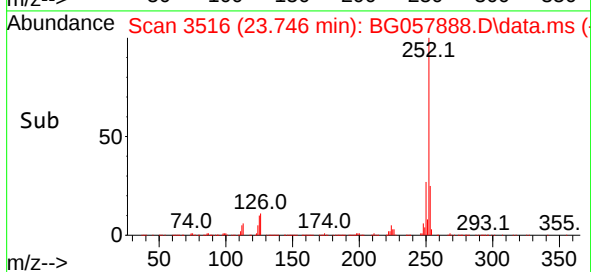
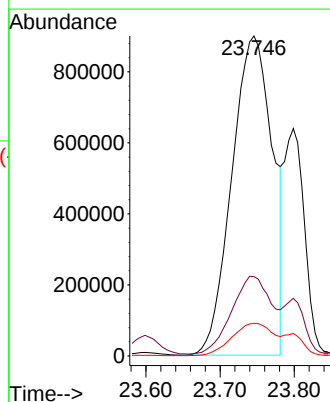
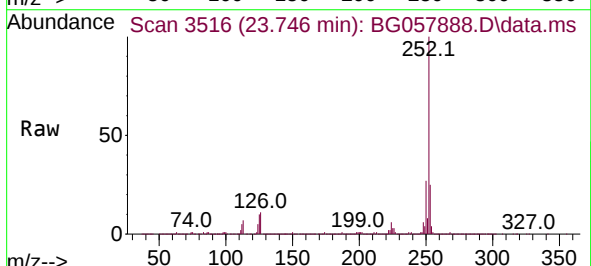
Tgt Ion:252 Resp: 3419195

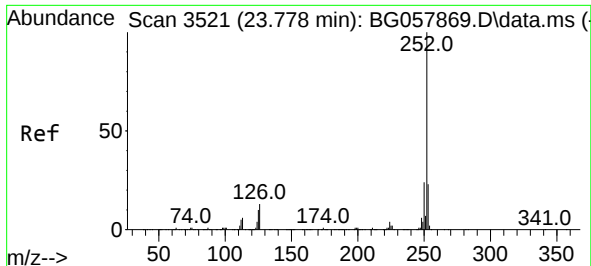
Ion Ratio Lower Upper

252 100

253 24.8 17.7 26.5

125 10.2 7.7 11.5





#89

Benzo(k)fluoranthene

Concen: 59.307 ng m

RT: 23.799 min Scan# 3

Delta R.T. 0.021 min

Lab File: BG057888.D

Acq: 28 Jun 2023 11:47

Instrument :

BNA_G

ClientSampleId :

SB37

Tgt Ion:252 Resp: 121280

Ion Ratio Lower Upper

252 100

253 25.3 18.1 27.1

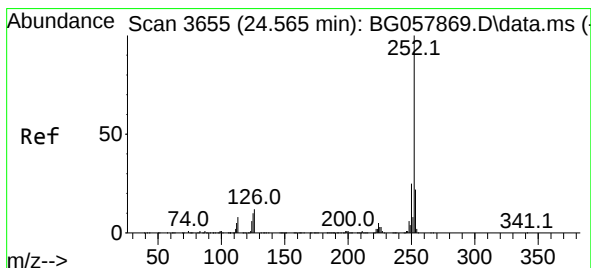
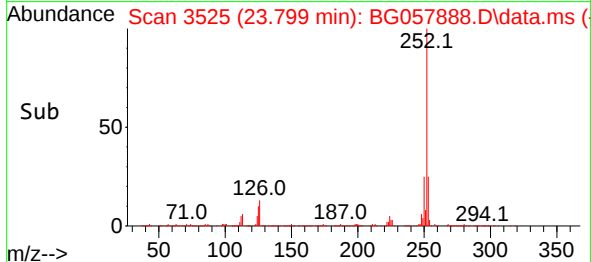
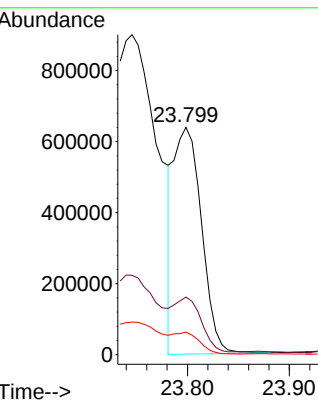
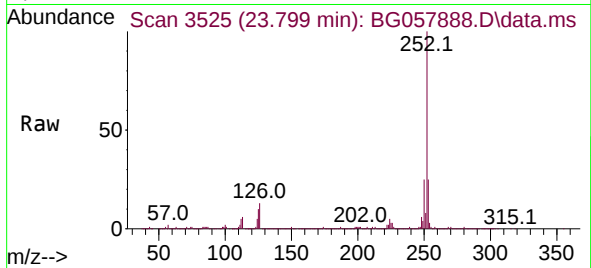
125 9.9 7.8 11.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/29/2023

Supervised By :mohammad ahmed 06/29/2023



#90

Benzo(a)pyrene

Concen: 129.527 ng

RT: 24.598 min Scan# 3661

Delta R.T. 0.033 min

Lab File: BG057888.D

Acq: 28 Jun 2023 11:47

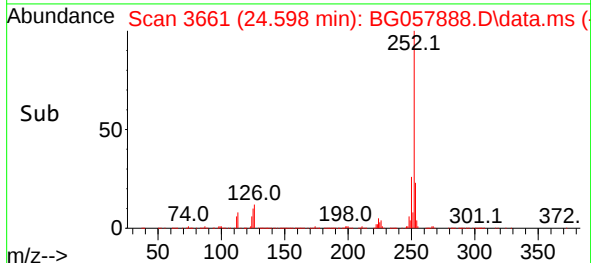
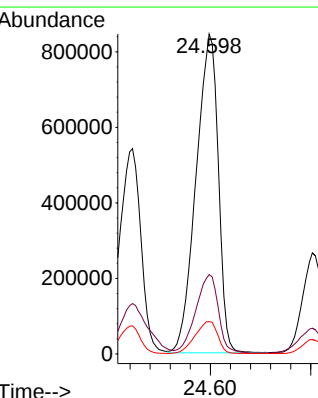
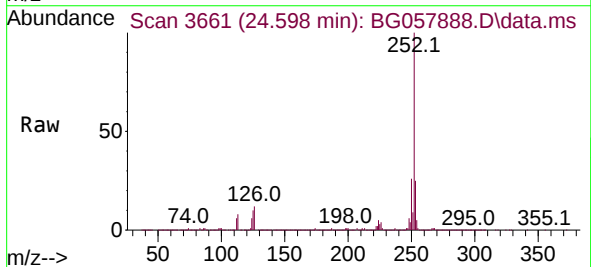
Tgt Ion:252 Resp: 2596127

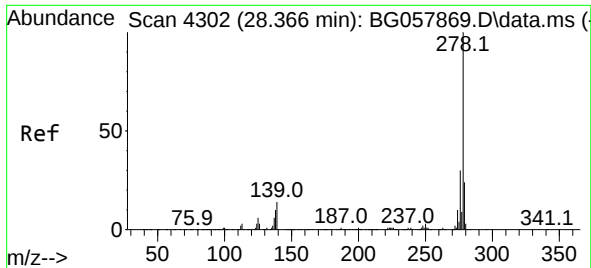
Ion Ratio Lower Upper

252 100

253 24.8 17.7 26.5

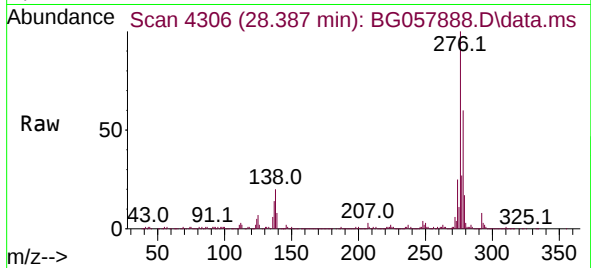
125 10.1 8.0 12.0





#91
Dibenzo(a,h)anthracene
Concen: 23.109 ng
RT: 28.387 min Scan# 4306
Delta R.T. 0.021 min
Lab File: BG057888.D
Acq: 28 Jun 2023 11:47

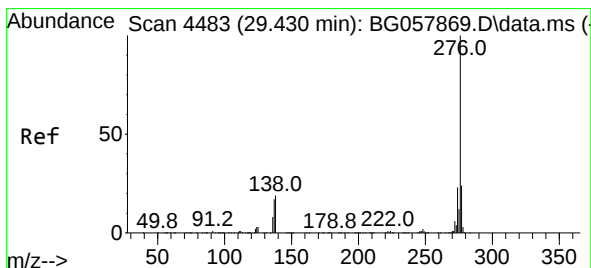
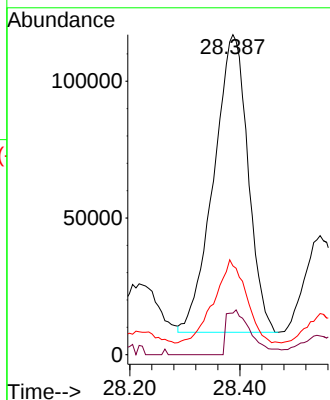
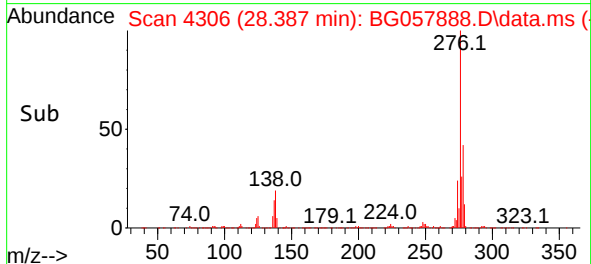
Instrument :
BNA_G
ClientSampleId :
SB37



Tgt Ion:278 Resp: 471095
Ion Ratio Lower Upper
278 100
139 13.0 11.0 16.4
279 27.8 19.3 28.9

Manual Integrations
APPROVED

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



#92
Benzo(g,h,i)perylene
Concen: 78.325 ng
RT: 29.486 min Scan# 4493
Delta R.T. 0.056 min
Lab File: BG057888.D
Acq: 28 Jun 2023 11:47

Tgt Ion:276 Resp: 1586861
Ion Ratio Lower Upper
276 100
277 24.7 19.4 29.2
138 18.5 15.0 22.6

