

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG051724\
 Data File : BG061240.D
 Acq On : 17 May 2024 15:51
 Operator : MA/JU
 Sample : P2482-01 5X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 B-01-229

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 05/20/2024
 Supervised By :mohammad ahmed 05/22/2024

Quant Time: May 17 16:26:59 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG043024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 01 05:11:25 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.929	152	27222	20.000	ng	-0.03
21) Naphthalene-d8	10.725	136	104968	20.000	ng	#-0.03
39) Acenaphthene-d10	14.562	164	78874	20.000	ng	-0.03
64) Phenanthrene-d10	17.306	188	179750	20.000	ng	#-0.03
76) Chrysene-d12	21.571	240	179665	20.000	ng	#-0.02
86) Perylene-d12	24.697	264	224357	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.526	112	26663	19.920	ng	-0.02
7) Phenol-d6	7.112	99	36766	18.568	ng	-0.02
23) Nitrobenzene-d5	9.086	82	27485	12.980	ng	-0.03
42) 2,4,6-Tribromophenol	16.054	330	22055	13.989	ng	-0.02
45) 2-Fluorobiphenyl	13.175	172	64008	12.000	ng	-0.03
79) Terphenyl-d14	19.926	244	120801	11.182	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	10.778	128	45935	8.420	ng	97
52) Acenaphthene	14.621	154	48469	12.492	ng	97
55) Dibenzofuran	14.962	168	26005	3.968	ng	93
58) Fluorene	15.608	166	38599	6.806	ng	97
71) Phenanthrene	17.353	178	357221	43.463	ng	99
72) Anthracene	17.441	178	100505	12.255	ng	98
73) Carbazole	17.711	167	45652	6.331	ng	96
75) Fluoranthene	19.368	202	481298	42.745	ng	99
78) Pyrene	19.727	202	402412	35.230	ng	99
81) Benzo(a)anthracene	21.548	228	247832	21.080	ng	98
83) Chrysene	21.613	228	213431m	19.376	ng	
87) Indeno(1,2,3-cd)pyrene	28.240	276	119295	8.023	ng	96
88) Benzo(b)fluoranthene	23.710	252	279345	22.281	ng	# 98
89) Benzo(k)fluoranthene	23.763	252	92430m	7.663	ng	
90) Benzo(a)pyrene	24.550	252	210743	19.294	ng	96
91) Dibenzo(a,h)anthracene	28.293	278	28621	2.324	ng	# 88
92) Benzo(g,h,i)perylene	29.345	276	112351	9.182	ng	# 93

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

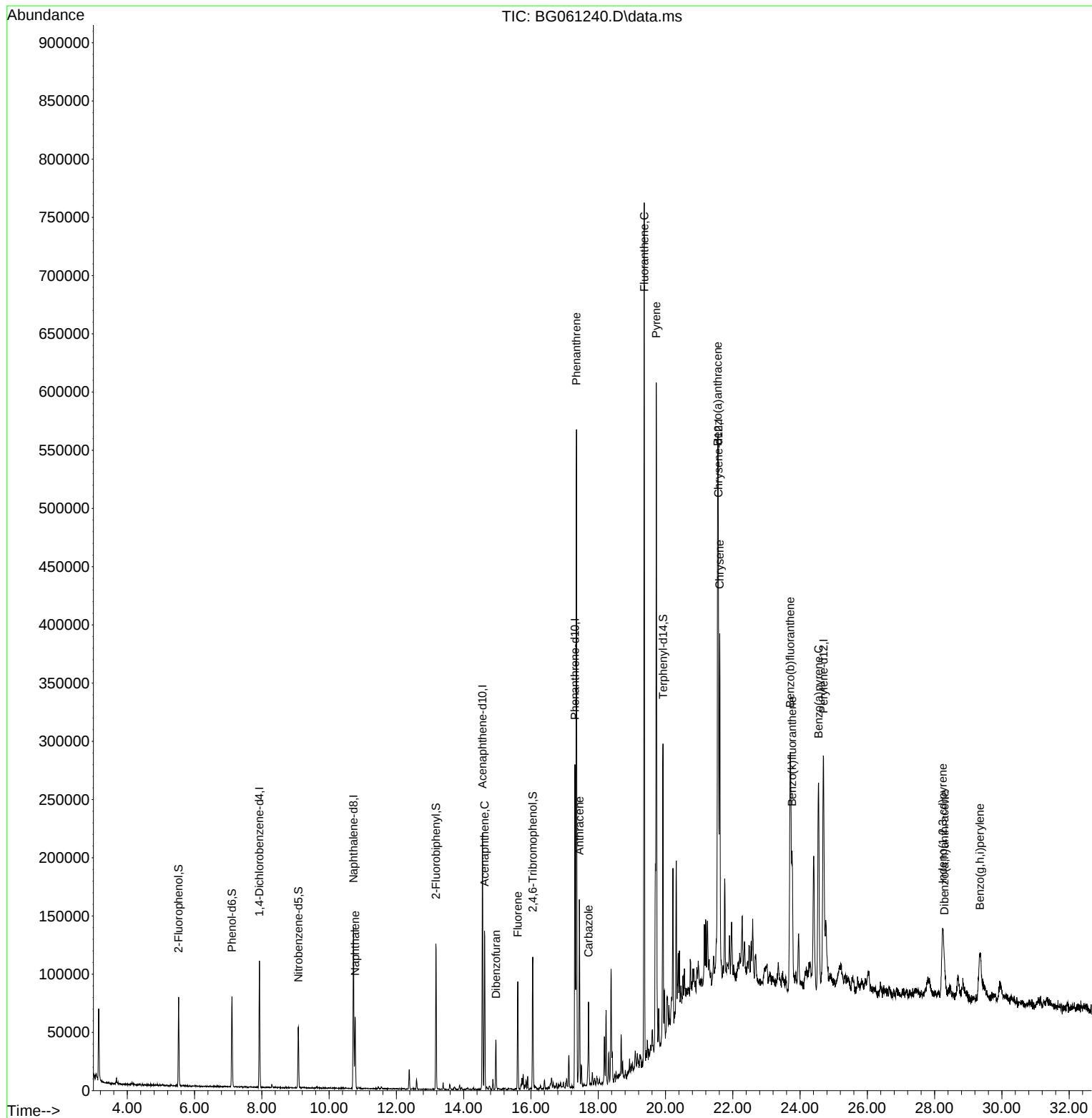
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG051724\
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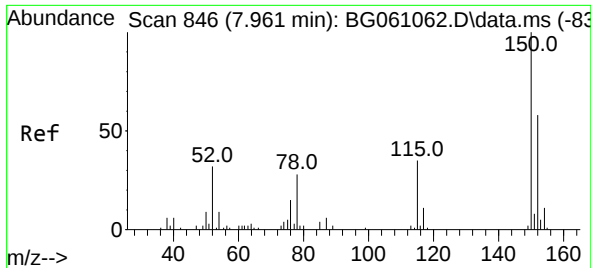
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 01 05:11:25 2024
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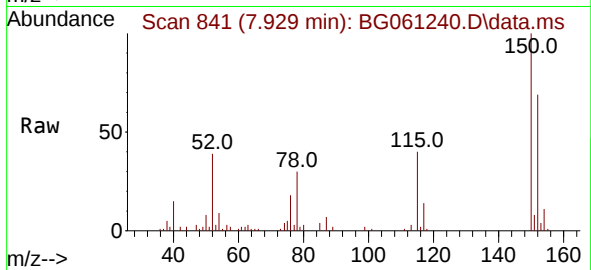
Reviewed By :Jagrut Upadhyay 05/20/2024
Supervised By :mohammad ahmed 05/22/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.929 min Scan# 841
Delta R.T. -0.032 min
Lab File: BG061240.D
Acq: 17 May 2024 15:51

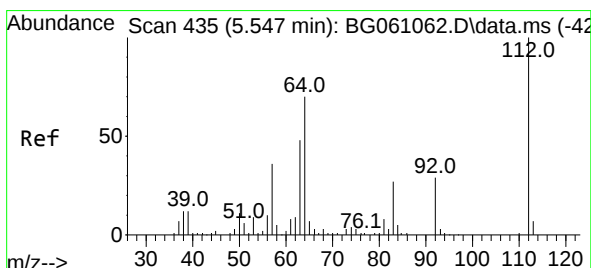
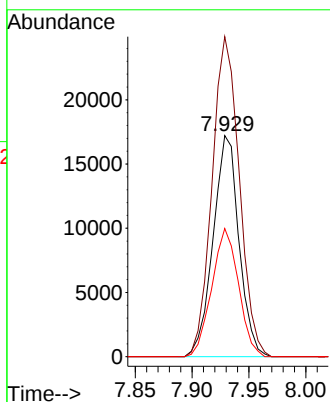
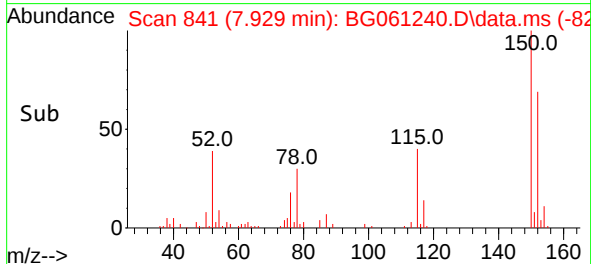
Instrument :
BNA_G
ClientSampleId :
B-01-229



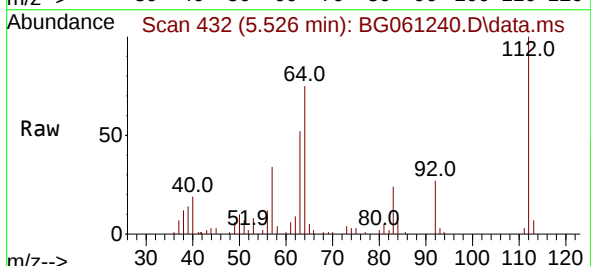
Tgt Ion:152 Resp: 2722
Ion Ratio Lower Upper
152 100
150 144.7 138.3 207.5
115 58.0 48.0 72.0

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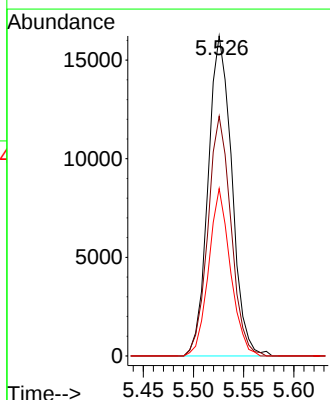
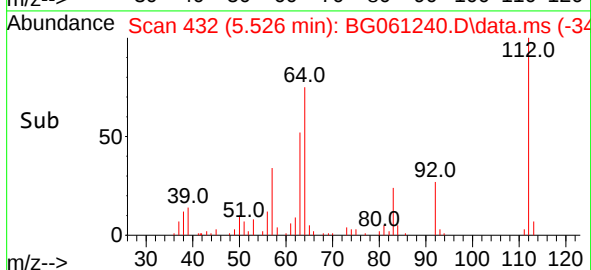
Reviewed By :Jagrut Upadhyay 05/20/2024
Supervised By :mohammad ahmed 05/22/2024

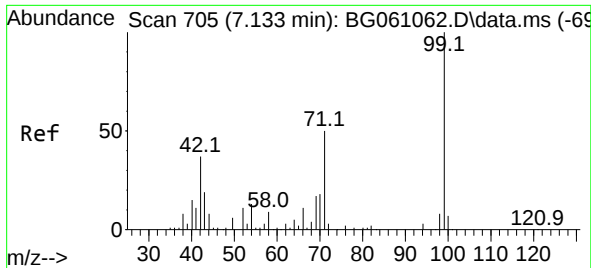


#5
2-Fluorophenol
Concen: 19.920 ng
RT: 5.526 min Scan# 432
Delta R.T. -0.021 min
Lab File: BG061240.D
Acq: 17 May 2024 15:51



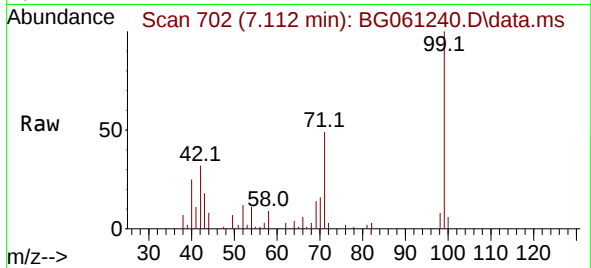
Tgt Ion:112 Resp: 26663
Ion Ratio Lower Upper
112 100
64 74.9 55.7 83.5
63 52.3 38.1 57.1





#7
Phenol-d6
Concen: 18.568 ng
RT: 7.112 min Scan# 705
Delta R.T. -0.021 min
Lab File: BG061240.D
Acq: 17 May 2024 15:51

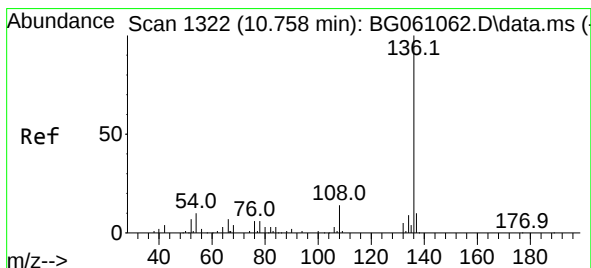
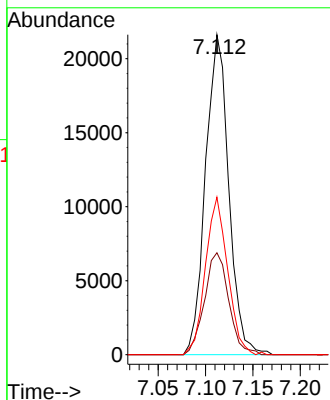
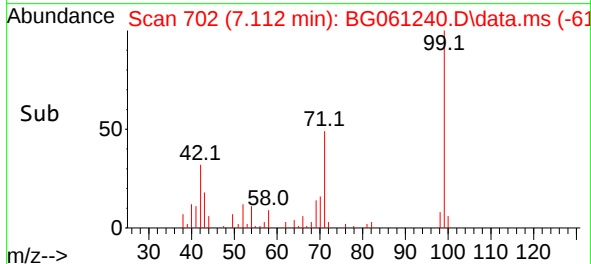
Instrument :
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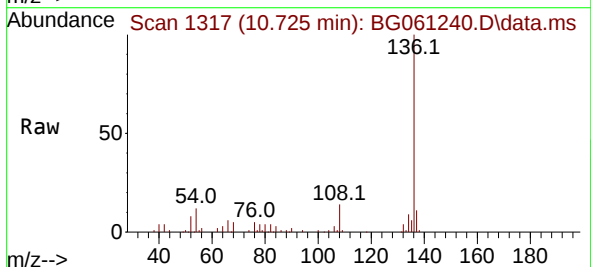
Tgt Ion: 99 Resp: 36760
Ion Ratio Lower Upper
99 100
42 31.9 29.2 43.8
71 49.2 39.7 59.5

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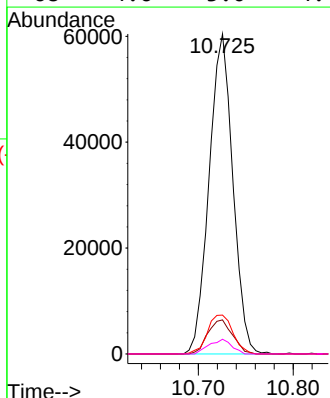
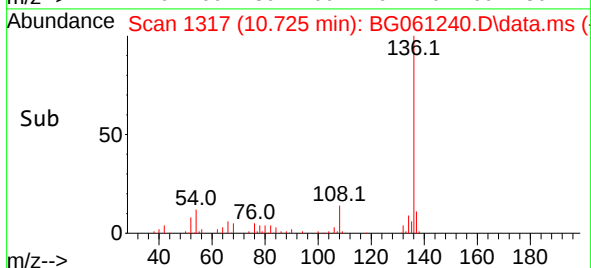
Reviewed By :Jagrut Upadhyay 05/20/2024
Supervised By :mohammad ahmed 05/22/2024

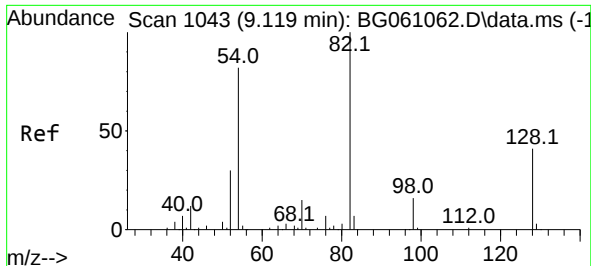


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.725 min Scan# 1317
Delta R.T. -0.033 min
Lab File: BG061240.D
Acq: 17 May 2024 15:51



Tgt Ion:136 Resp: 104968
Ion Ratio Lower Upper
136 100
137 10.6 7.8 11.6
54 12.1 8.1 12.1#
68 4.6 3.0 4.4#





#23
Nitrobenzene-d5
Concen: 12.980 ng
RT: 9.086 min Scan# 1038
Delta R.T. -0.033 min
Lab File: BG061240.D
Acq: 17 May 2024 15:51

Instrument :

BNA_G

ClientSampleId :

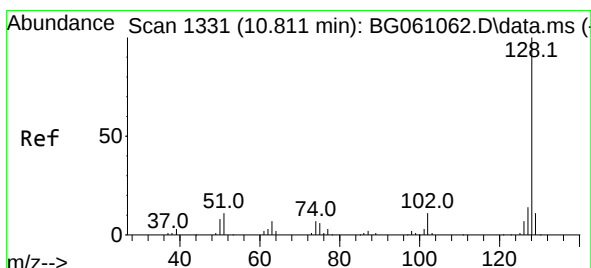
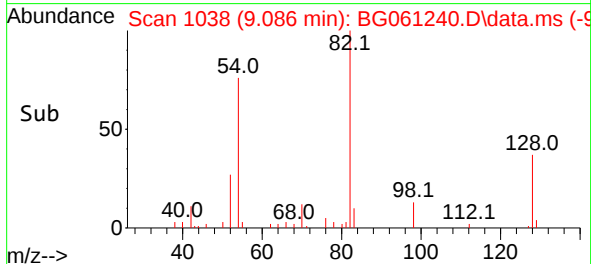
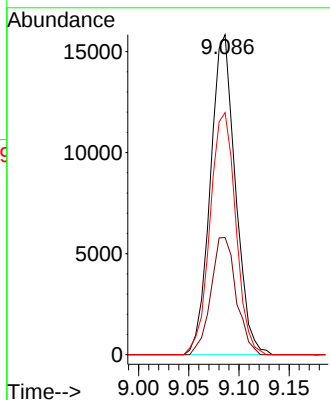
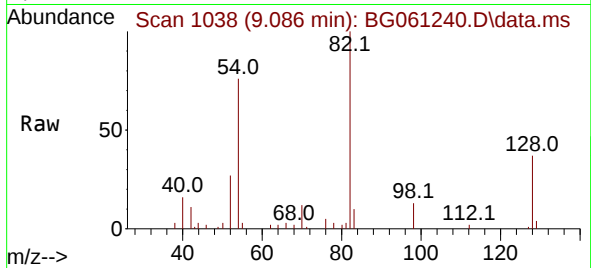
B-01-229

Tgt Ion: 82 Resp: 2748
Ion Ratio Lower Upper
82 100
128 36.6 32.7 49.1
54 75.7 65.6 98.4

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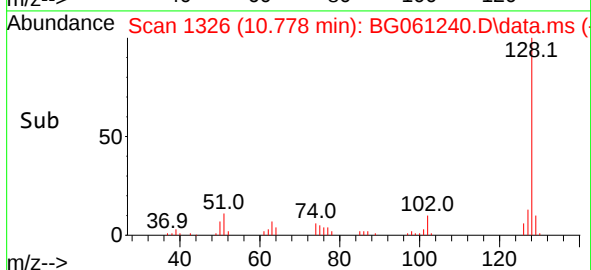
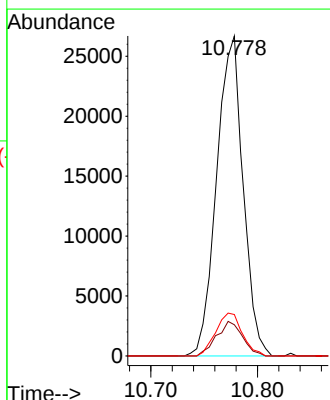
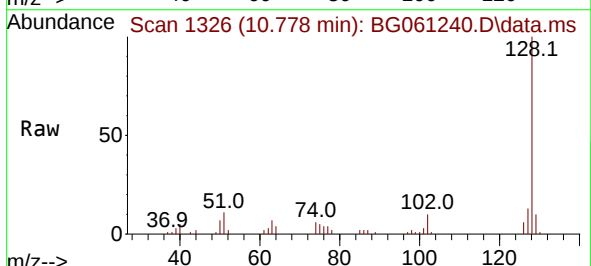
APPROVED

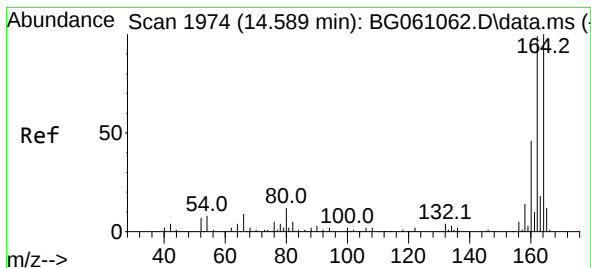
Reviewed By :Jagrut Upadhyay 05/20/2024
Supervised By :mohammad ahmed 05/22/2024



#31
Naphthalene
Concen: 8.420 ng
RT: 10.778 min Scan# 1326
Delta R.T. -0.033 min
Lab File: BG061240.D
Acq: 17 May 2024 15:51

Tgt Ion:128 Resp: 45935
Ion Ratio Lower Upper
128 100
129 9.7 8.9 13.3
127 12.9 11.1 16.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.562 min Scan# 1974

Delta R.T. -0.027 min

Lab File: BG061240.D

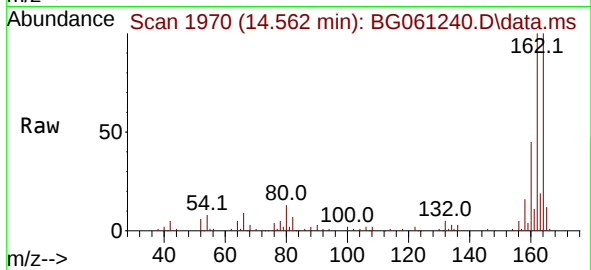
Acq: 17 May 2024 15:51

Instrument :

BNA_G

ClientSampleId :

B-01-229



Tgt Ion:164 Resp: 78874

Ion Ratio Lower Upper

164 100

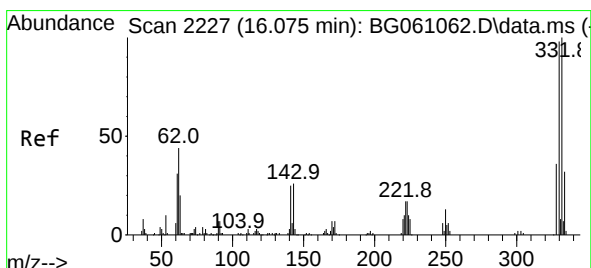
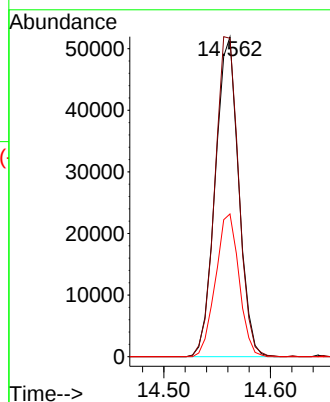
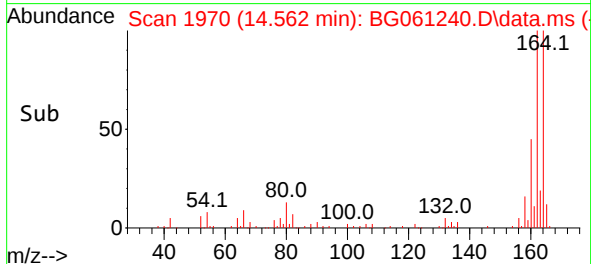
162 99.6 79.4 119.2

160 44.6 37.0 55.6

Manual Integrations

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Reviewed By :Jagrut Upadhyay 05/20/2024
Supervised By :mohammad ahmed 05/22/2024



#42

2,4,6-Tribromophenol

Concen: 13.989 ng

RT: 16.054 min Scan# 2224

Delta R.T. -0.021 min

Lab File: BG061240.D

Acq: 17 May 2024 15:51

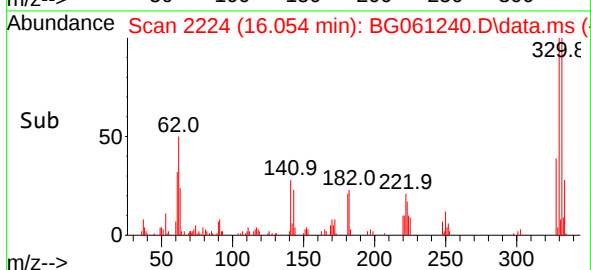
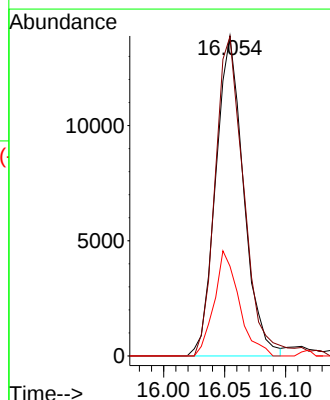
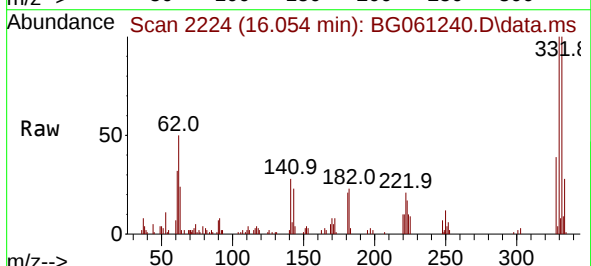
Tgt Ion:330 Resp: 22055

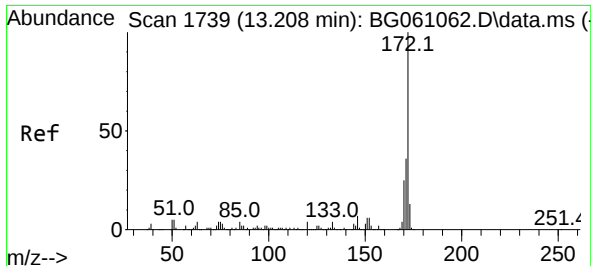
Ion Ratio Lower Upper

330 100

332 103.8 78.6 117.8

141 29.4 20.5 30.7





#45
2-Fluorobiphenyl
Concen: 12.000 ng
RT: 13.175 min Scan# 1734
Delta R.T. -0.033 min
Lab File: BG061240.D
Acq: 17 May 2024 15:51

Instrument :

BNA_G

ClientSampleId :

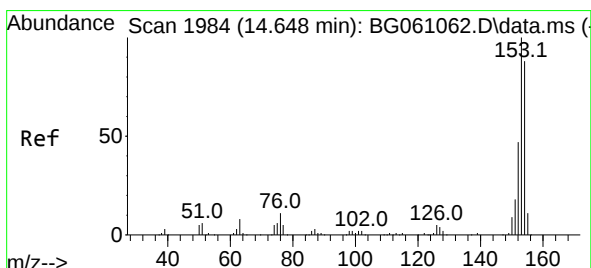
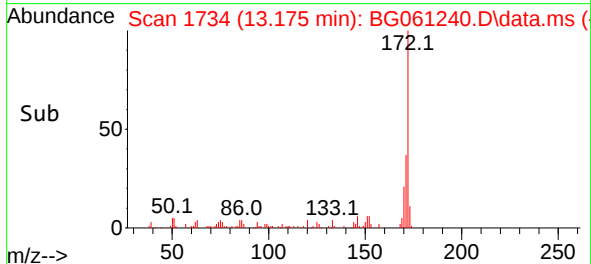
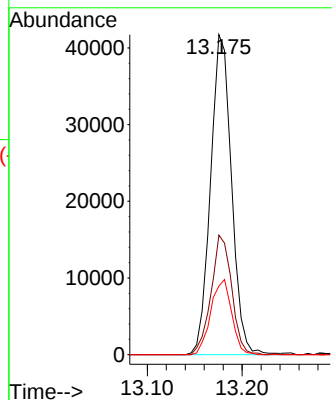
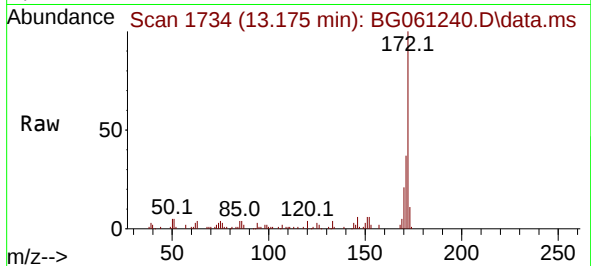
B-01-229

Tgt Ion:172 Resp: 64008
Ion Ratio Lower Upper
172 100
171 37.3 29.0 43.6
170 21.5 20.2 30.4

Manual Integrations

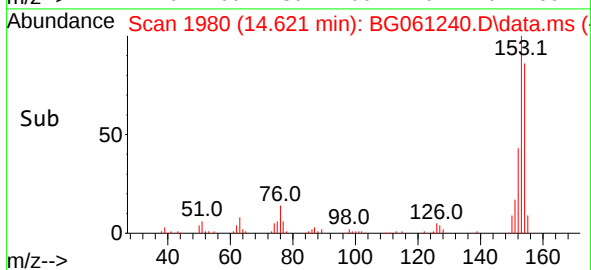
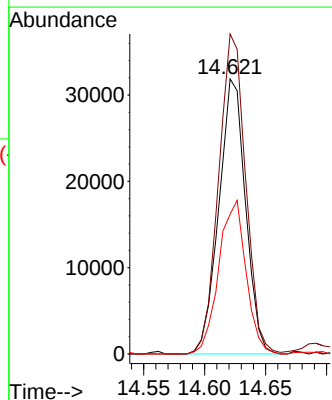
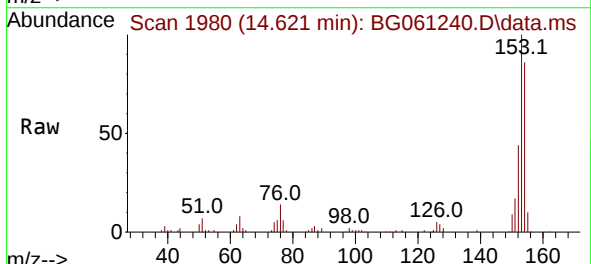
APPROVED

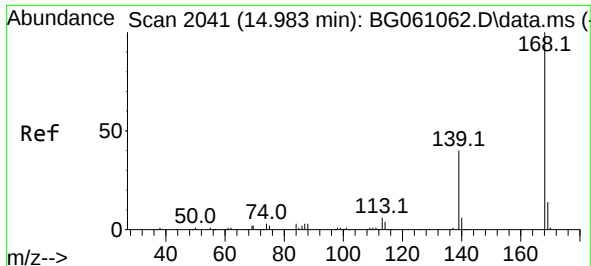
Reviewed By :Jagrut Upadhyay 05/20/2024
Supervised By :mohammad ahmed 05/22/2024



#52
Acenaphthene
Concen: 12.492 ng
RT: 14.621 min Scan# 1980
Delta R.T. -0.027 min
Lab File: BG061240.D
Acq: 17 May 2024 15:51

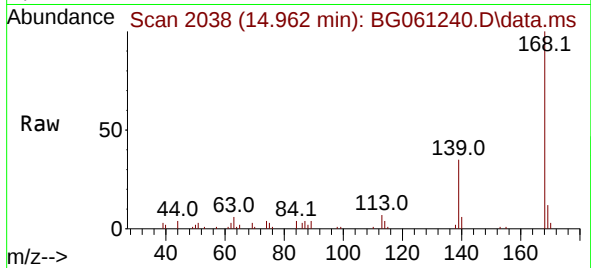
Tgt Ion:154 Resp: 48469
Ion Ratio Lower Upper
154 100
153 116.3 91.0 136.4
152 50.8 43.1 64.7





#55
Dibenzofuran
Concen: 3.968 ng
RT: 14.962 min Scan# 2041
Delta R.T. -0.021 min
Lab File: BG061240.D
Acq: 17 May 2024 15:51

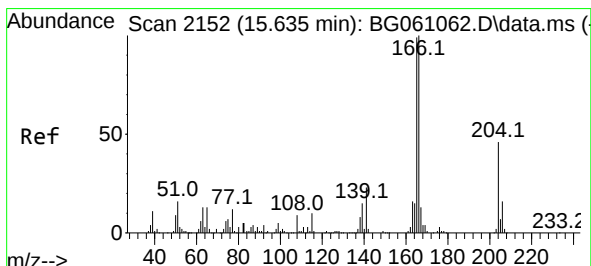
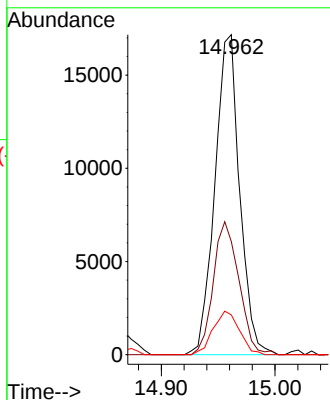
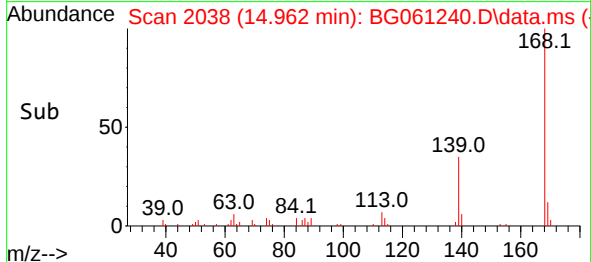
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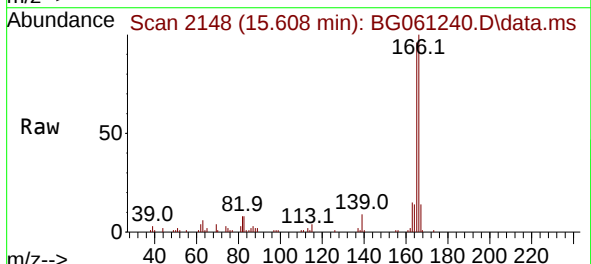
Tgt Ion:168 Resp: 2600
Ion Ratio Lower Upper
168 100
139 35.4 32.2 48.4
169 12.4 11.4 17.2

Manual Integrations
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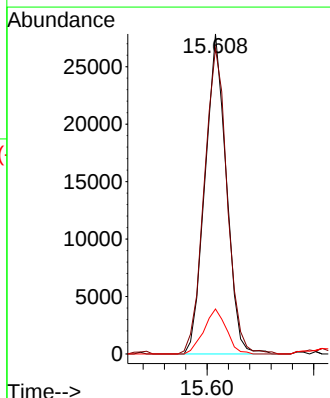
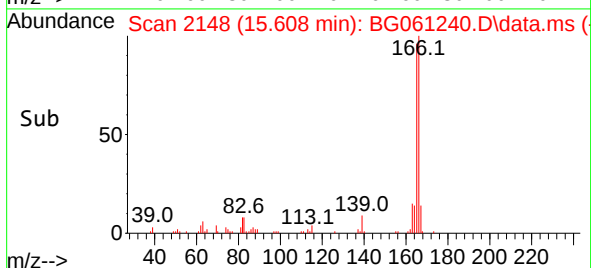
Reviewed By :Jagrut Upadhyay 05/20/2024
Supervised By :mohammad ahmed 05/22/2024

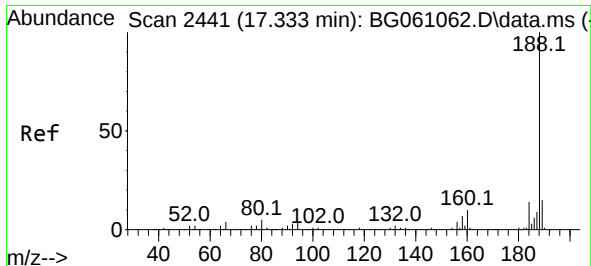


#58
Fluorene
Concen: 6.806 ng
RT: 15.608 min Scan# 2148
Delta R.T. -0.027 min
Lab File: BG061240.D
Acq: 17 May 2024 15:51



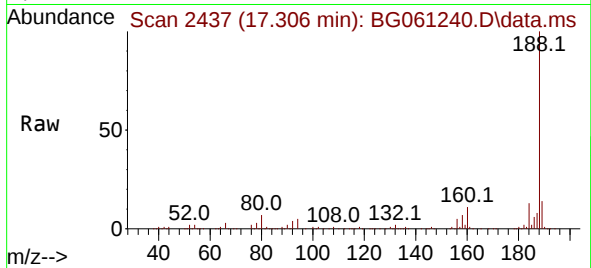
Tgt Ion:166 Resp: 38599
Ion Ratio Lower Upper
166 100
165 95.6 78.9 118.3
167 14.1 10.6 15.8





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.306 min Scan# 2437
Delta R.T. -0.027 min
Lab File: BG061240.D
Acq: 17 May 2024 15:51

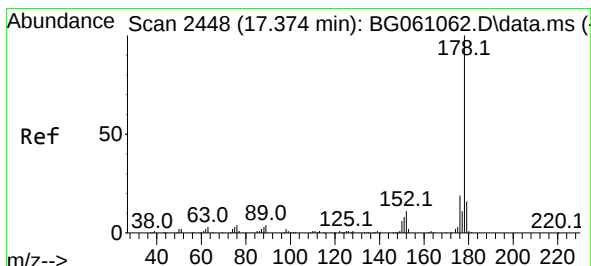
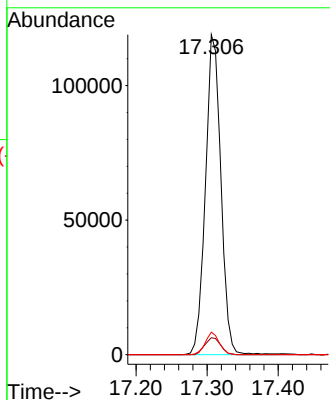
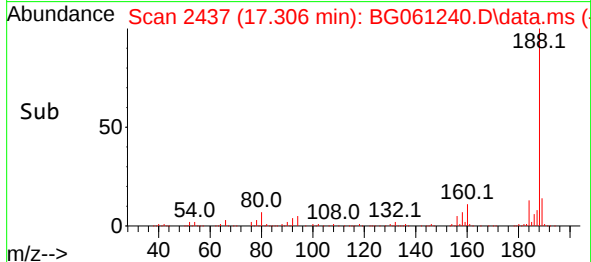
Instrument :
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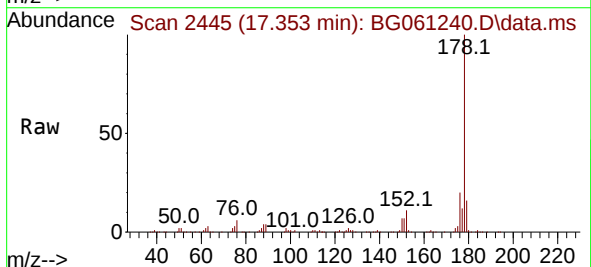
Tgt Ion:188 Resp: 179750
Ion Ratio Lower Upper
188 100
94 5.3 3.6 5.4
80 7.0 4.2 6.2

Manual Integrations
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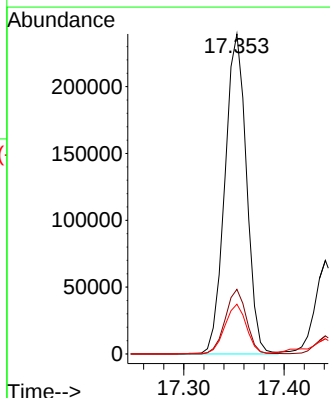
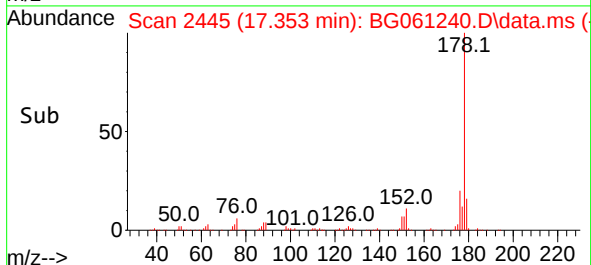
Reviewed By :Jagrut Upadhyay 05/20/2024
Supervised By :mohammad ahmed 05/22/2024

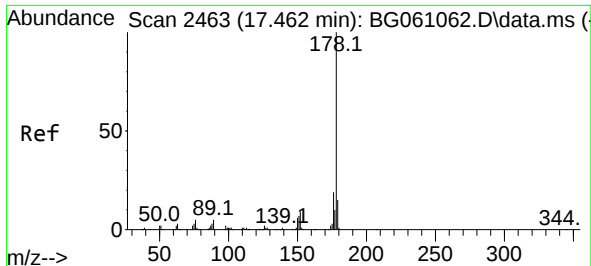


#71
Phenanthrene
Concen: 43.463 ng
RT: 17.353 min Scan# 2445
Delta R.T. -0.021 min
Lab File: BG061240.D
Acq: 17 May 2024 15:51



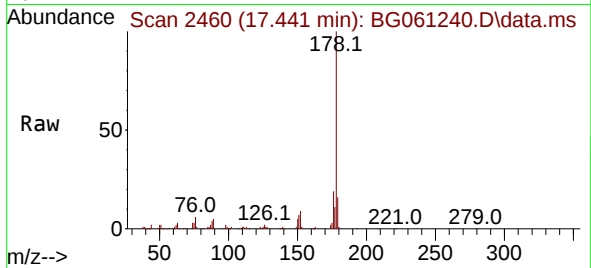
Tgt Ion:178 Resp: 357221
Ion Ratio Lower Upper
178 100
176 20.2 15.5 23.3
179 15.5 12.6 19.0





#72
 Anthracene
 Concen: 12.255 ng
 RT: 17.441 min Scan# 2460
 Delta R.T. -0.021 min
 Lab File: BG061240.D
 Acq: 17 May 2024 15:51

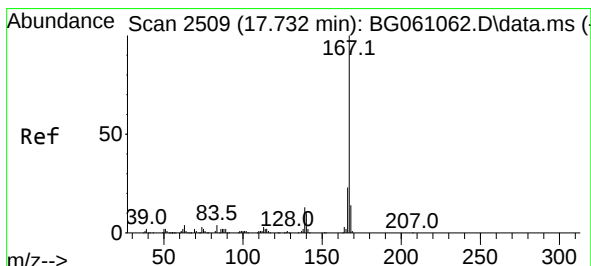
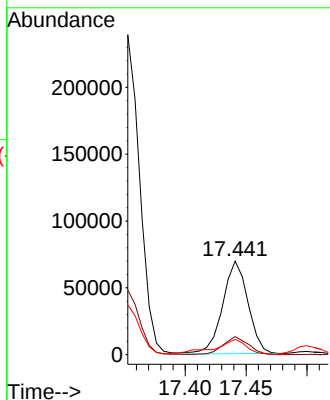
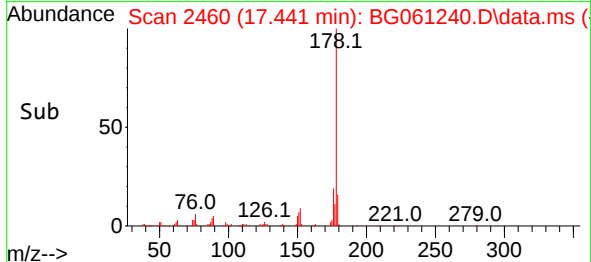
Instrument :
 BNA_G
 ClientSampleId :
 B-01-229



Tgt Ion:178 Resp: 100500
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.0 22.6
 179 16.3 12.0 18.0

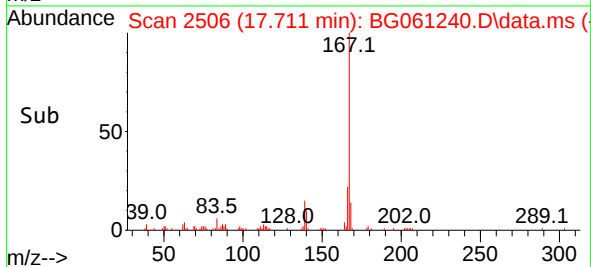
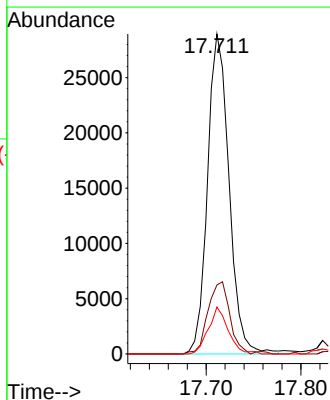
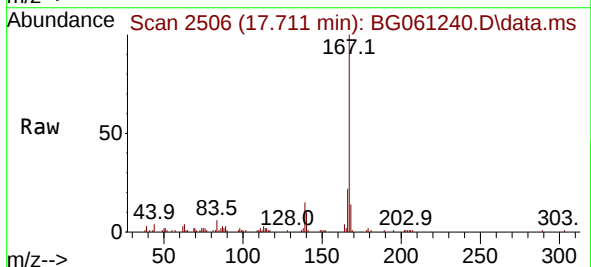
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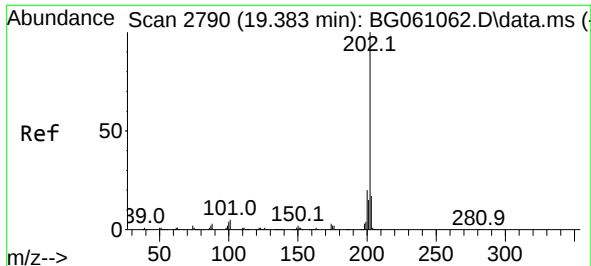
Reviewed By :Jagrut Upadhyay 05/20/2024
 Supervised By :mohammad ahmed 05/22/2024



#73
 Carbazole
 Concen: 6.331 ng
 RT: 17.711 min Scan# 2506
 Delta R.T. -0.021 min
 Lab File: BG061240.D
 Acq: 17 May 2024 15:51

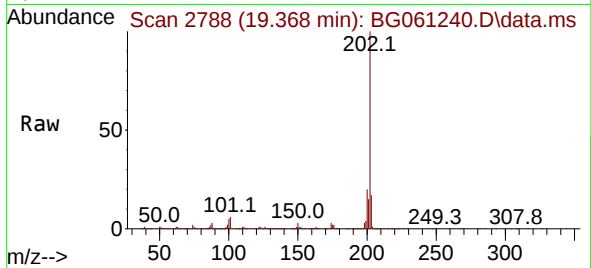
Tgt Ion:167 Resp: 45652
 Ion Ratio Lower Upper
 167 100
 166 21.6 18.7 28.1
 139 14.7 10.6 15.8





#75
Fluoranthene
Concen: 42.745 ng
RT: 19.368 min Scan# 21
Delta R.T. -0.015 min
Lab File: BG061240.D
Acq: 17 May 2024 15:51

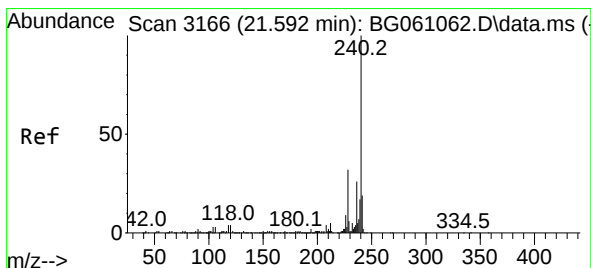
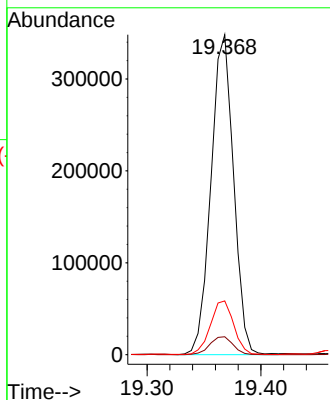
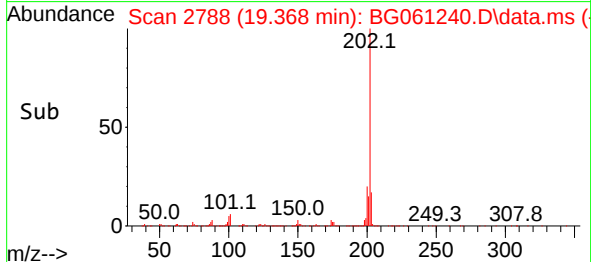
Instrument :
BNA_G
ClientSampleId :
B-01-229



Tgt Ion:202 Resp: 481298
Ion Ratio Lower Upper
202 100
101 5.6 0.0 24.7
203 16.8 0.0 37.1

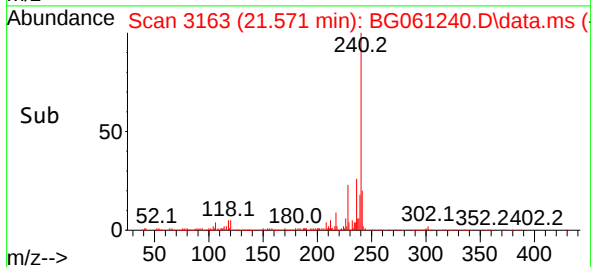
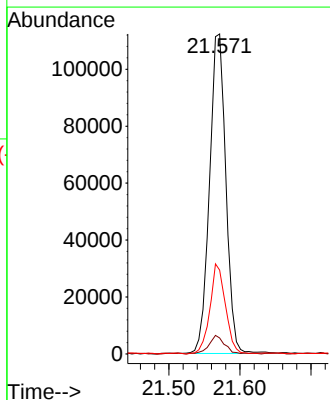
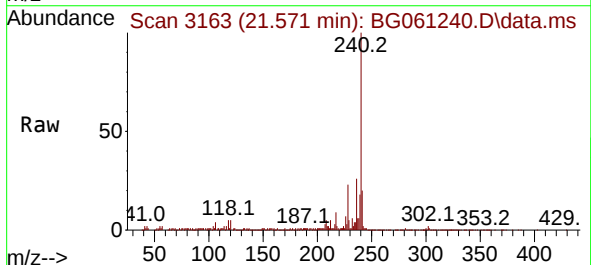
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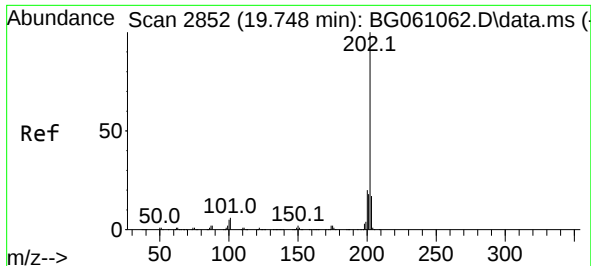
Reviewed By :Jagrut Upadhyay 05/20/2024
Supervised By :mohammad ahmed 05/22/2024



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.571 min Scan# 3163
Delta R.T. -0.021 min
Lab File: BG061240.D
Acq: 17 May 2024 15:51

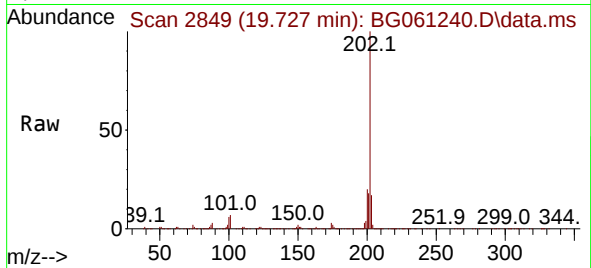
Tgt Ion:240 Resp: 179665
Ion Ratio Lower Upper
240 100
120 5.0 3.2 4.8#
236 26.2 21.0 31.6





#78
 Pyrene
 Concen: 35.230 ng
 RT: 19.727 min Scan# 2849
 Delta R.T. -0.021 min
 Lab File: BG061240.D
 Acq: 17 May 2024 15:51

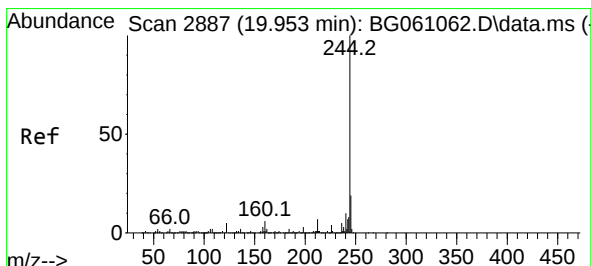
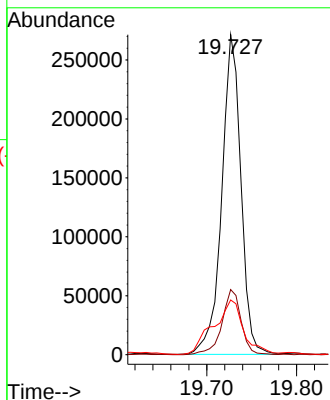
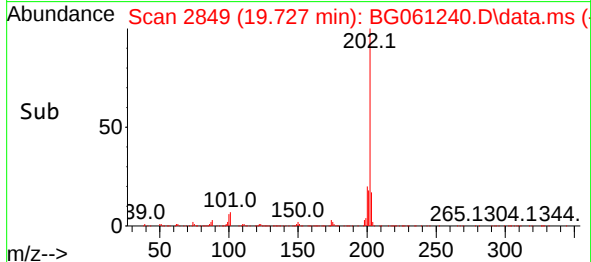
Instrument :
 BNA_G
 ClientSampleId :
 B-01-229



Tgt Ion:202 Resp: 402412
 Ion Ratio Lower Upper
 202 100
 200 20.4 16.2 24.4
 203 17.1 13.3 19.9

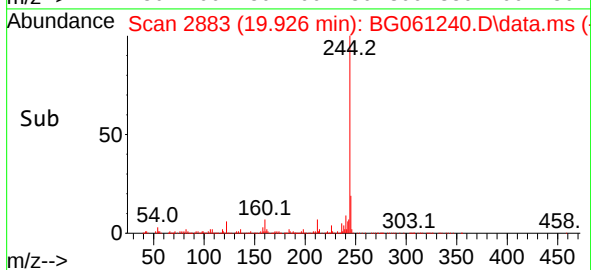
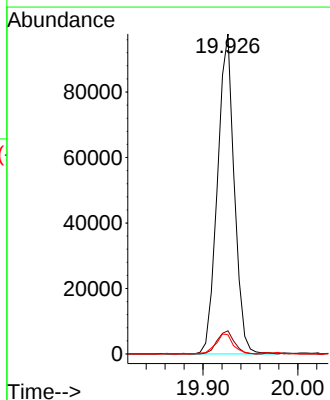
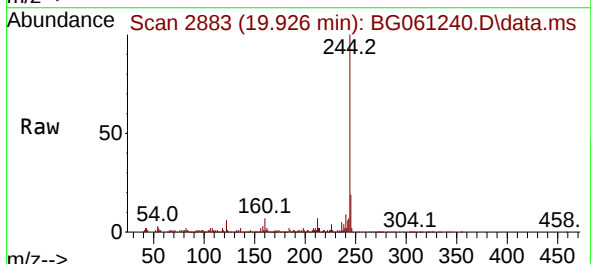
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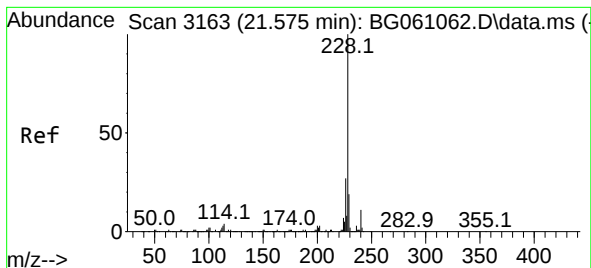
Reviewed By :Jagrut Upadhyay 05/20/2024
 Supervised By :mohammad ahmed 05/22/2024



#79
 Terphenyl-d14
 Concen: 11.182 ng
 RT: 19.926 min Scan# 2883
 Delta R.T. -0.027 min
 Lab File: BG061240.D
 Acq: 17 May 2024 15:51

Tgt Ion:244 Resp: 120801
 Ion Ratio Lower Upper
 244 100
 212 7.3 5.7 8.5
 122 6.0 4.2 6.2





#81

Benzo(a)anthracene

Concen: 21.080 ng

RT: 21.548 min Scan# 31

Delta R.T. -0.027 min

Lab File: BG061240.D

Acq: 17 May 2024 15:51

Instrument :

BNA_G

ClientSampleId :

B-01-229

Tgt Ion:228 Resp: 24783

Ion Ratio Lower Upper

228 100

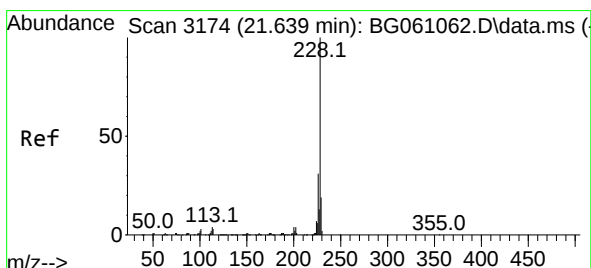
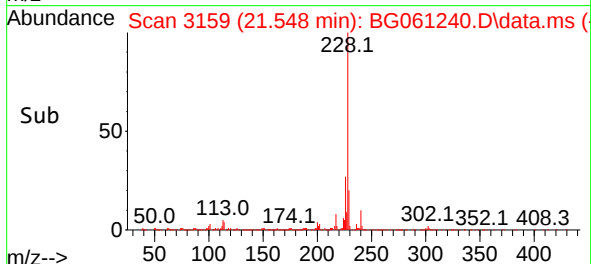
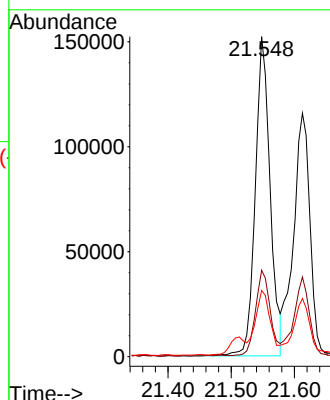
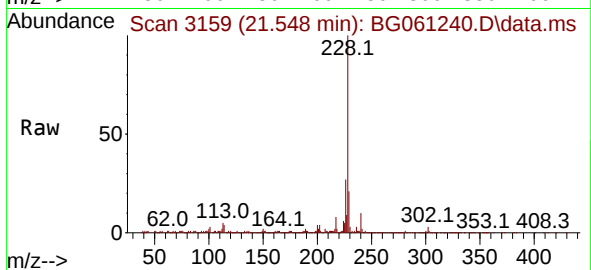
226 27.0 21.6 32.4

229 20.7 15.0 22.4

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Reviewed By :Jagrut Upadhyay 05/20/2024
Supervised By :mohammad ahmed 05/22/2024



#83

Chrysene

Concen: 19.376 ng m

RT: 21.613 min Scan# 3170

Delta R.T. -0.027 min

Lab File: BG061240.D

Acq: 17 May 2024 15:51

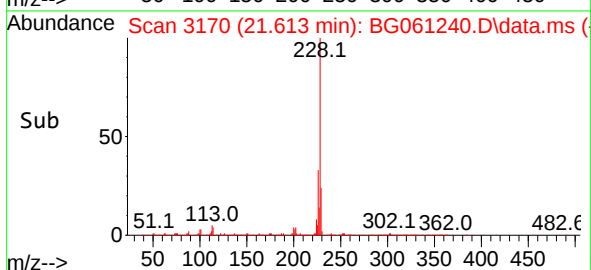
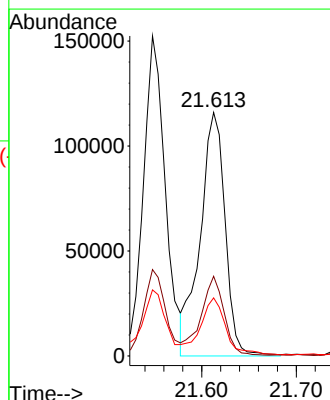
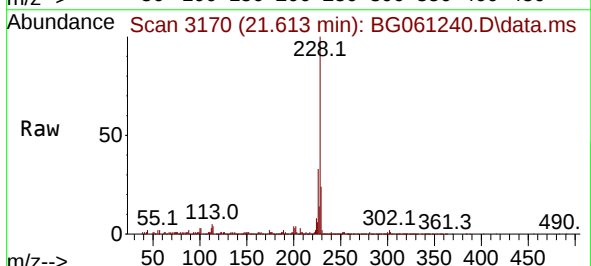
Tgt Ion:228 Resp: 213431

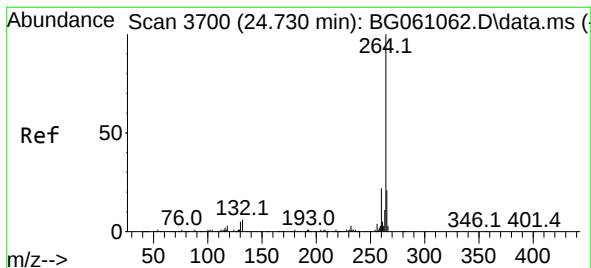
Ion Ratio Lower Upper

228 100

226 32.8 24.4 36.6

229 23.8 14.8 22.2#





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.697 min Scan# 3

Delta R.T. -0.033 min

Lab File: BG061240.D

Acq: 17 May 2024 15:51

Instrument :

BNA_G

ClientSampleId :

B-01-229

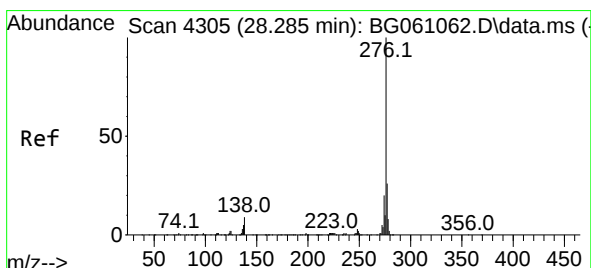
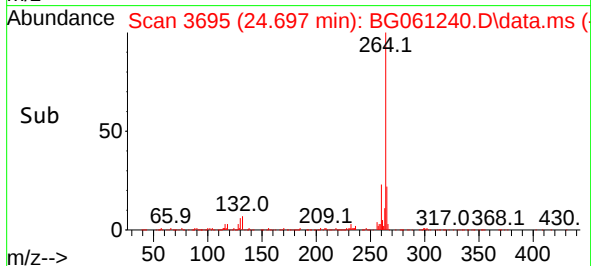
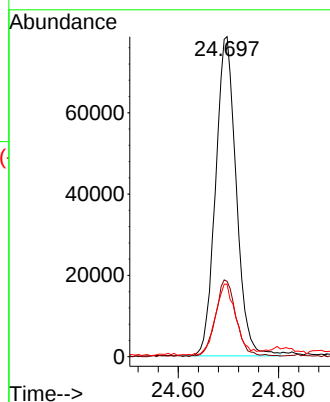
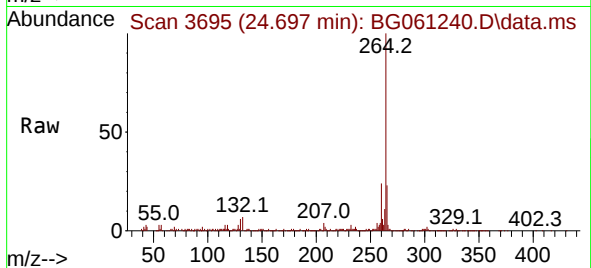
Tgt Ion:264 Resp: 22435

Ion	Ratio	Lower	Upper
264	100		
260	23.6	17.7	26.5
265	22.7	16.4	24.6

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Reviewed By :Jagrut Upadhyay 05/20/2024
Supervised By :mohammad ahmed 05/22/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.023 ng

RT: 28.240 min Scan# 4298

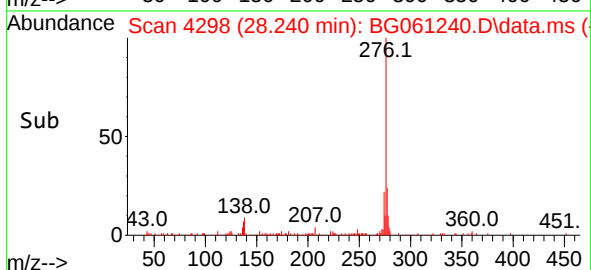
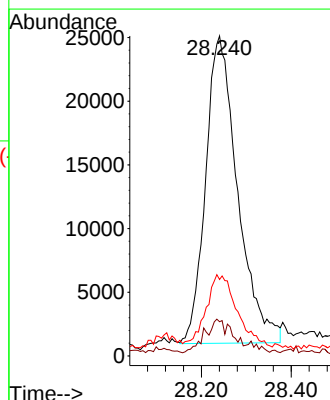
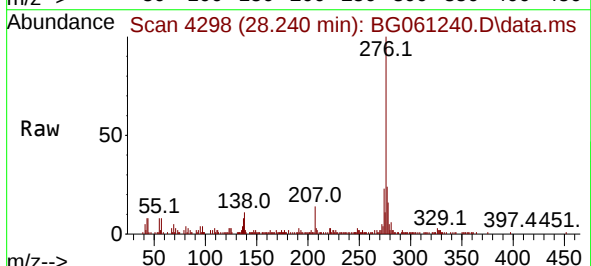
Delta R.T. -0.044 min

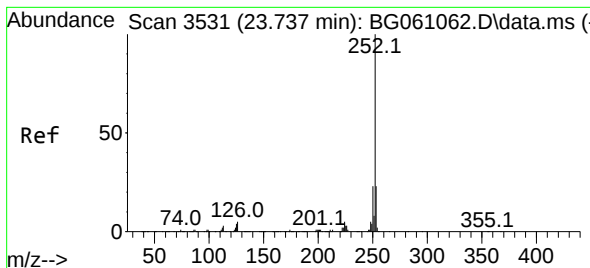
Lab File: BG061240.D

Acq: 17 May 2024 15:51

Tgt Ion:276 Resp: 119295

Ion	Ratio	Lower	Upper
276	100		
138	6.4	5.1	7.7
277	23.1	20.6	30.8





#88

Benzo(b)fluoranthene

Concen: 22.281 ng

RT: 23.710 min Scan# 3527

Delta R.T. -0.027 min

Lab File: BG061240.D

Acq: 17 May 2024 15:51

Instrument :

BNA_G

ClientSampleId :

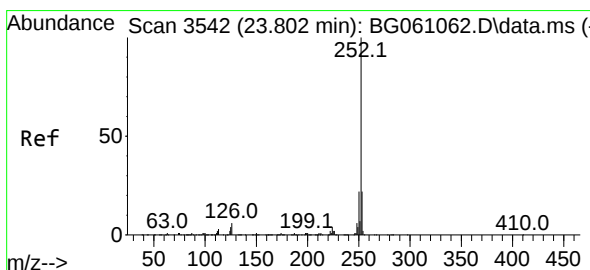
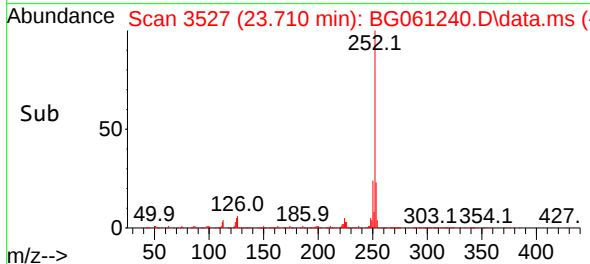
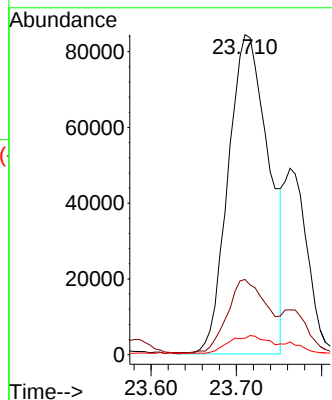
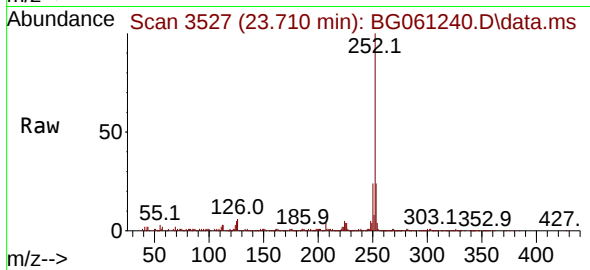
B-01-229

Tgt Ion:252 Resp: 279345
 Ion Ratio Lower Upper
 252 100
 253 23.5 18.2 27.2
 125 5.2 3.4 5.0

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Reviewed By :Jagrut Upadhyay 05/20/2024
 Supervised By :mohammad ahmed 05/22/2024



#89

Benzo(k)fluoranthene

Concen: 7.663 ng m

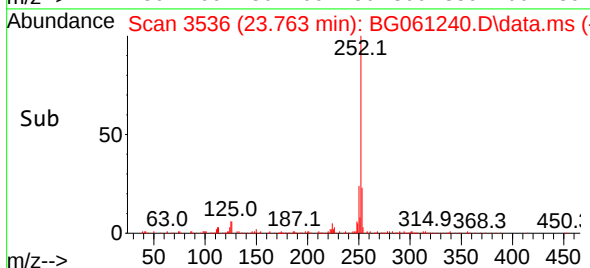
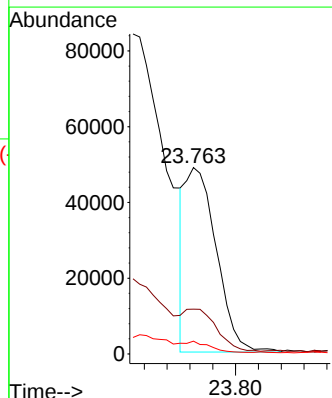
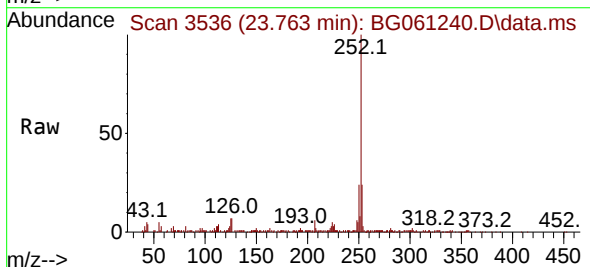
RT: 23.763 min Scan# 3536

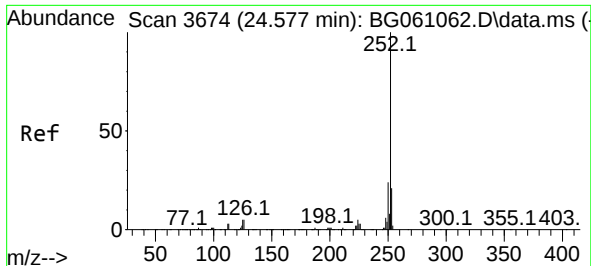
Delta R.T. -0.039 min

Lab File: BG061240.D

Acq: 17 May 2024 15:51

Tgt Ion:252 Resp: 92430
 Ion Ratio Lower Upper
 252 100
 253 24.0 17.3 25.9
 125 6.9 3.2 4.8





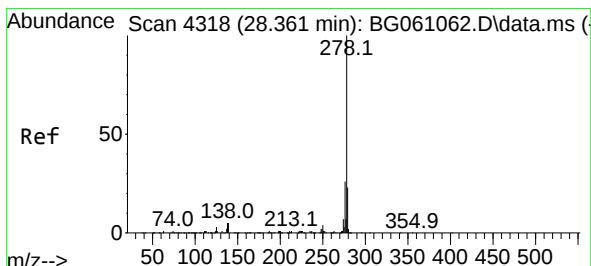
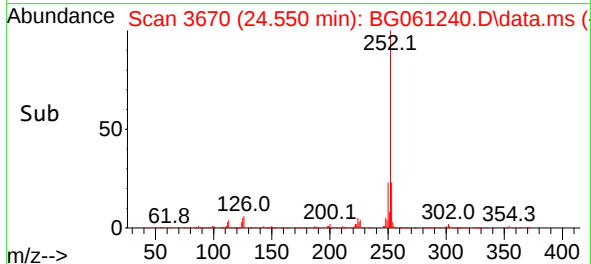
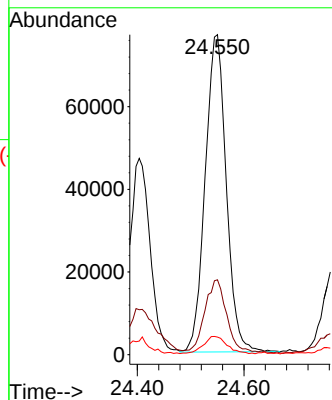
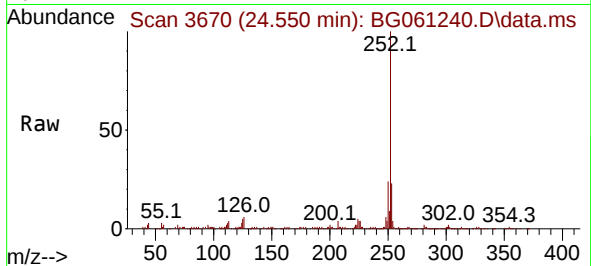
#90
Benzo(a)pyrene
Concen: 19.294 ng
RT: 24.550 min Scan# 30
Delta R.T. -0.027 min
Lab File: BG061240.D
Acq: 17 May 2024 15:51

Instrument :
BNA_G
ClientSampleId :
B-01-229

Tgt Ion:252 Resp: 21074
Ion Ratio Lower Upper
252 100
253 23.4 16.9 25.3
125 5.5 3.8 5.8

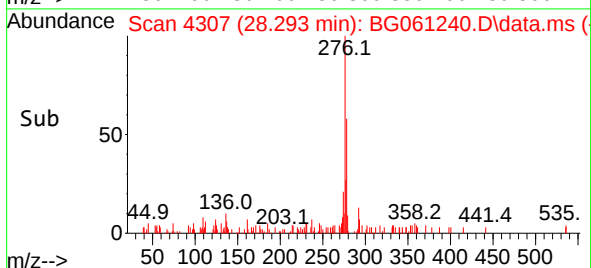
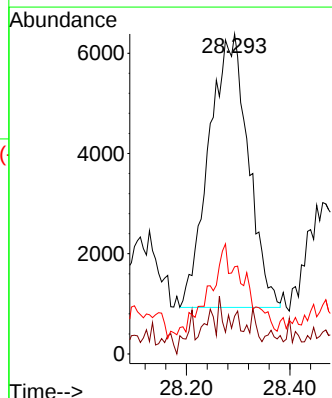
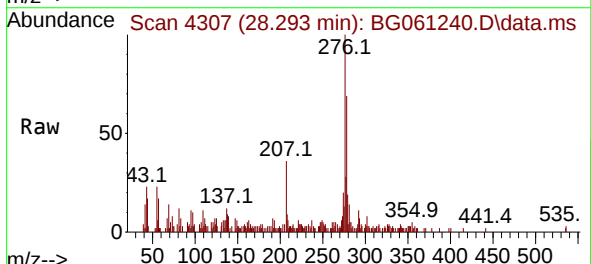
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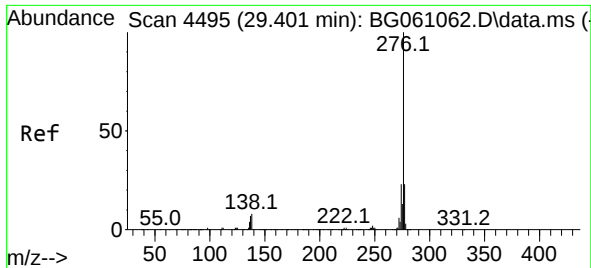
Reviewed By :Jagrut Upadhyay 05/20/2024
Supervised By :mohammad ahmed 05/22/2024



#91
Dibenzo(a,h)anthracene
Concen: 2.324 ng
RT: 28.293 min Scan# 4307
Delta R.T. -0.068 min
Lab File: BG061240.D
Acq: 17 May 2024 15:51

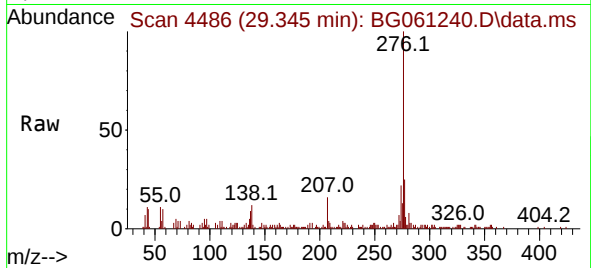
Tgt Ion:278 Resp: 28621
Ion Ratio Lower Upper
278 100
139 11.8 4.2 6.2#
279 27.2 18.0 27.0#





#92
Benzo(g,h,i)perylene
Concen: 9.182 ng
RT: 29.345 min Scan# 44
Delta R.T. -0.056 min
Lab File: BG061240.D
Acq: 17 May 2024 15:51

Instrument :
BNA_G
ClientSampleId :
B-01-229



Tgt Ion:276 Resp: 11235
Ion Ratio Lower Upper
276 100
277 25.1 18.2 27.4
138 11.9 6.2 9.2

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Reviewed By :Jagrut Upadhyay 05/20/2024
Supervised By :mohammad ahmed 05/22/2024

