

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG041124\
 Data File : BG060867.D
 Acq On : 11 Apr 2024 20:18
 Operator : MA/JU
 Sample : P2070-07
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TP-4

Quant Time: Apr 12 01:38:13 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG032924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Mar 30 03:12:26 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh
 Patel

04/12/2024
 Supervised By :mohammad
 ahmed

04/17/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.954	152	68473	20.000	ng	0.00
21) Naphthalene-d8	10.745	136	268548	20.000	ng	-0.01
39) Acenaphthene-d10	14.576	164	198490	20.000	ng	-0.01
64) Phenanthrene-d10	17.325	188	426100	20.000	ng	-0.01
76) Chrysene-d12	21.591	240	381458	20.000	ng	-0.01
86) Perylene-d12	24.734	264	458458	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.533	112	313136	76.183	ng	0.00
7) Phenol-d6	7.114	99	451113	73.938	ng	0.00
23) Nitrobenzene-d5	9.100	82	305323	64.876	ng	-0.01
42) 2,4,6-Tribromophenol	16.062	330	220907	98.042	ng	-0.01
45) 2-Fluorobiphenyl	13.201	172	610006	45.104	ng	-0.02
79) Terphenyl-d14	19.946	244	905995	41.821	ng	-0.02
Target Compounds						
						Qvalue
31) Naphthalene	10.792	128	50926	3.506	ng	99
49) Acenaphthylene	14.305	152	42420	2.370	ng	98
52) Acenaphthene	14.640	154	61365	5.461	ng	98
55) Dibenzofuran	14.975	168	50174	2.831	ng	# 92
58) Fluorene	15.627	166	75346	5.296	ng	99
71) Phenanthrene	17.372	178	1109722	50.076	ng	99
72) Anthracene	17.455	178	230383	10.237	ng	99
73) Carbazole	17.725	167	138434	6.977	ng	97
75) Fluoranthene	19.382	202	1977141	73.525	ng	96
78) Pyrene	19.746	202	1696241	63.581	ng	100
81) Benzo(a)anthracene	21.573	228	1029530	38.289	ng	96
83) Chrysene	21.638	228	1002931	38.698	ng	97
87) Indeno(1,2,3-cd)pyrene	28.289	276	716089	22.180	ng	93
88) Benzo(b)fluoranthene	23.747	252	1455664	55.268	ng	98
89) Benzo(k)fluoranthene	23.800	252	436877m	16.206	ng	
90) Benzo(a)pyrene	24.587	252	989082	38.642	ng	97
91) Dibenzo(a,h)anthracene	28.330	278	173466	6.374	ng	94
92) Benzo(g,h,i)perylene	29.399	276	628804	23.752	ng	97

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

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TP-4

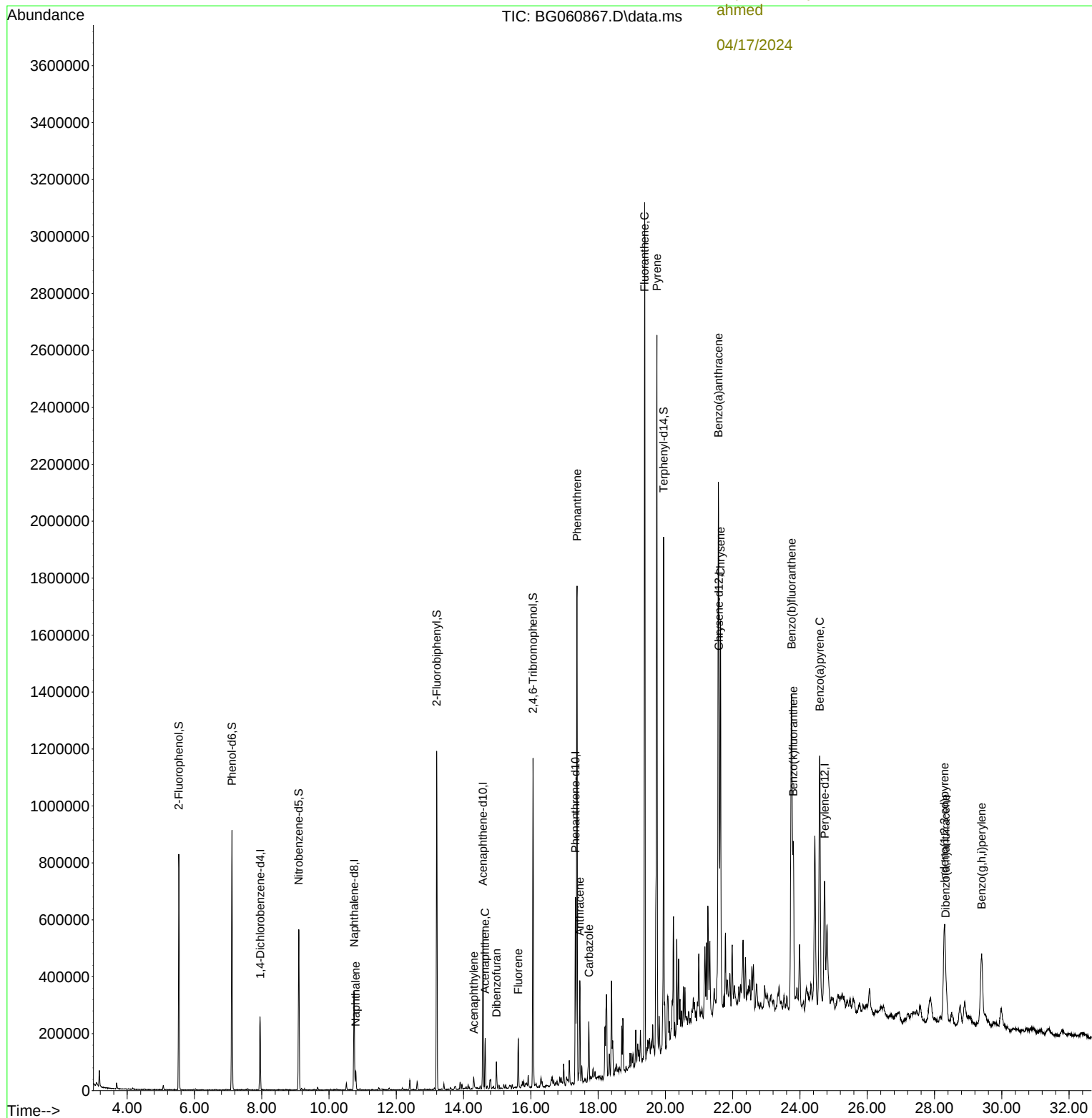
Quant Time: Apr 12 01:38:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG032924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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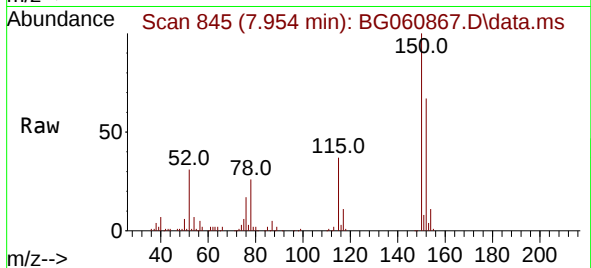
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.954 min Scan# 846
Delta R.T. -0.007 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18

Instrument :
BNA_G
ClientSampleId :
TP-4



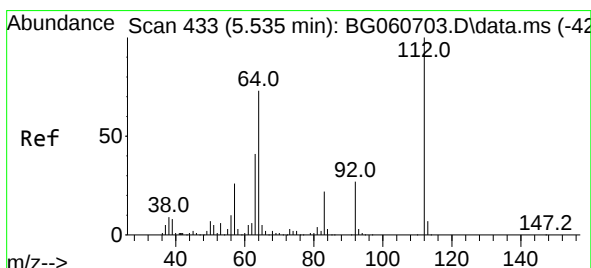
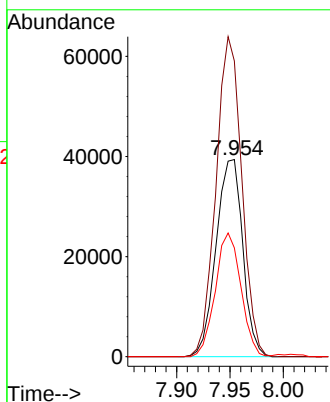
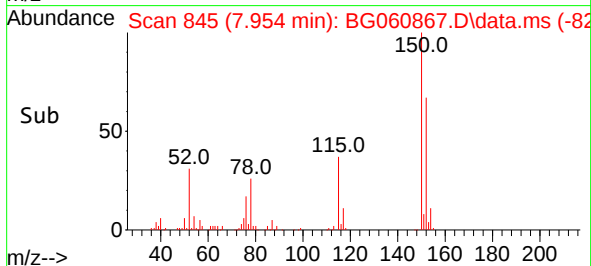
Tgt Ion:152 Resp: 6847
Ion Ratio Lower Upper
152 100
150 150.0 130.2 195.4
115 55.2 51.6 77.4

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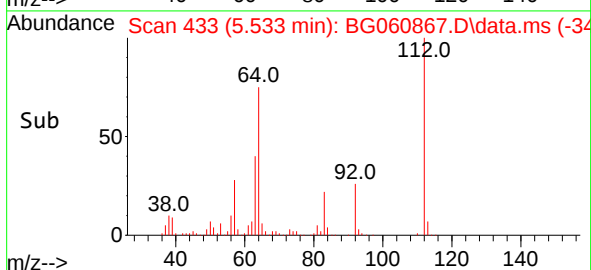
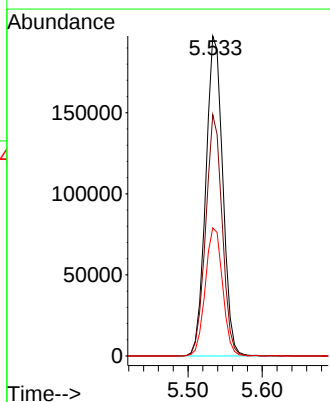
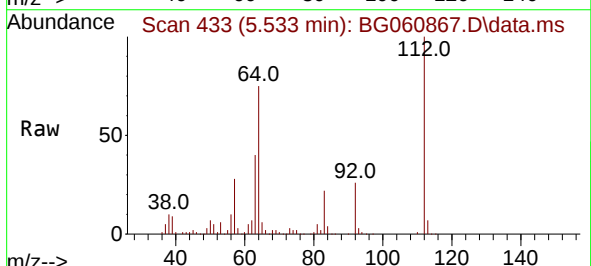
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ahmed

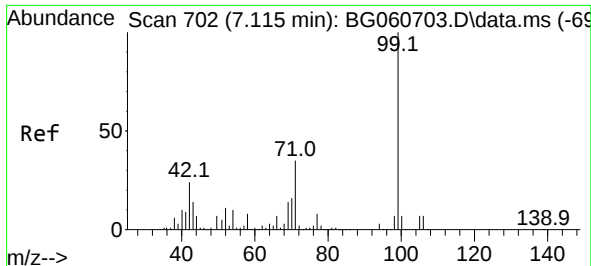
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#5
2-Fluorophenol
Concen: 76.183 ng
RT: 5.533 min Scan# 433
Delta R.T. -0.002 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18

Tgt Ion:112 Resp: 313136
Ion Ratio Lower Upper
112 100
64 75.4 58.4 87.6
63 40.0 32.7 49.1





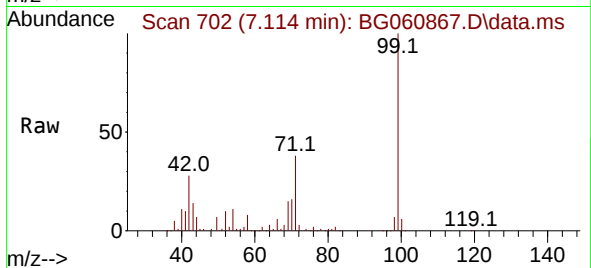
#7
Phenol-d6
Concen: 73.938 ng
RT: 7.114 min Scan# 702
Delta R.T. -0.002 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18

Instrument :

BNA_G

ClientSampleId :

TP-4



Tgt Ion: 99 Resp: 45111
Ion Ratio Lower Upper
99 100
42 27.5 19.4 29.2
71 38.4 28.2 42.2

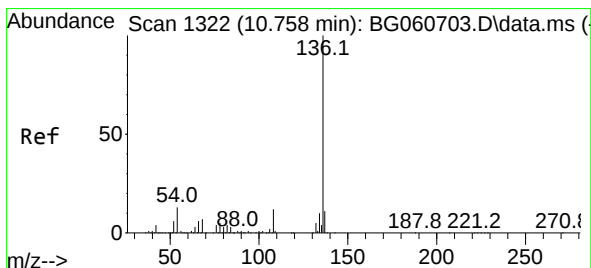
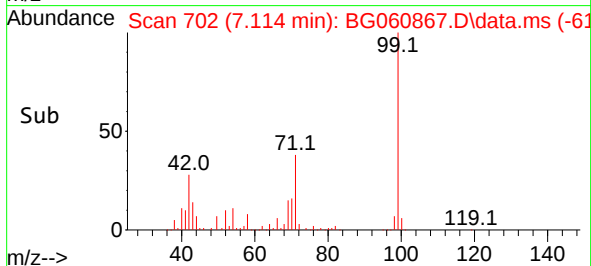
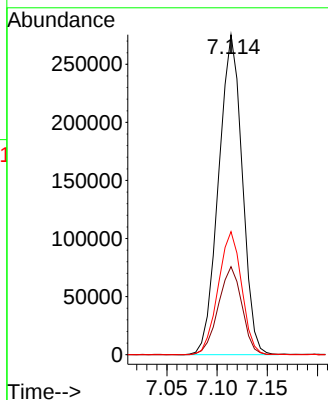
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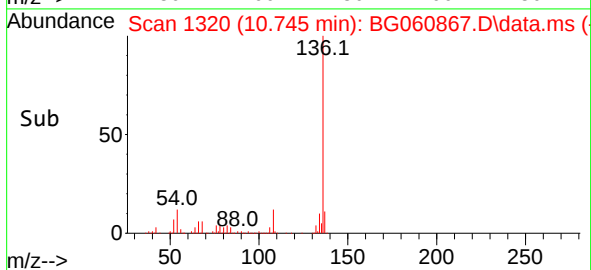
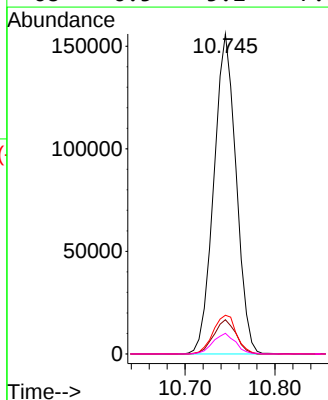
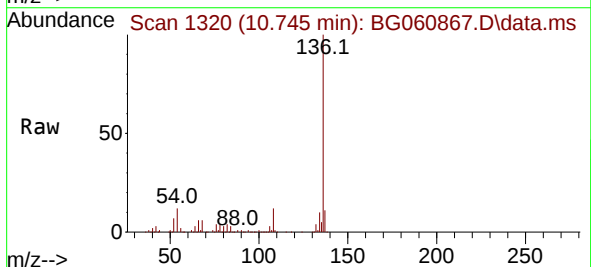
Supervised By :mohammad
ahmed

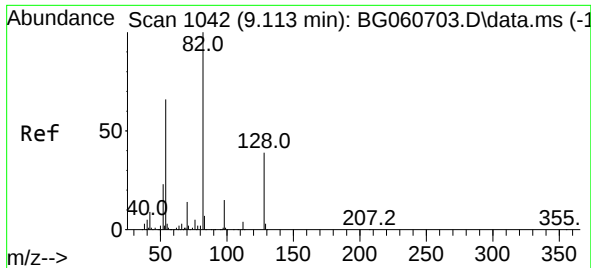
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.745 min Scan# 1320
Delta R.T. -0.013 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18

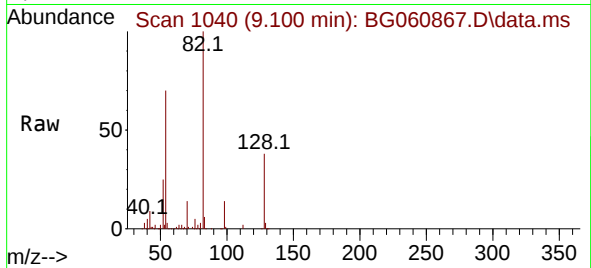
Tgt Ion:136 Resp: 268548
Ion Ratio Lower Upper
136 100
137 10.7 8.8 13.2
54 12.1 10.2 15.2
68 6.5 5.2 7.8





#23
Nitrobenzene-d5
Concen: 64.876 ng
RT: 9.100 min Scan# 1042
Delta R.T. -0.013 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18

Instrument :
BNA_G
ClientSampleId :
TP-4



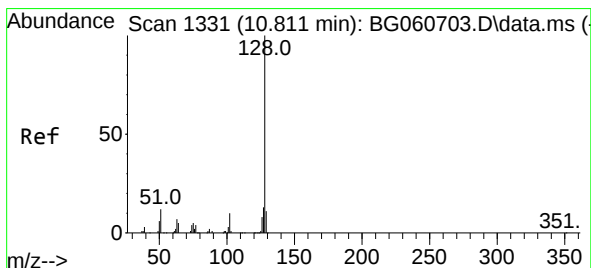
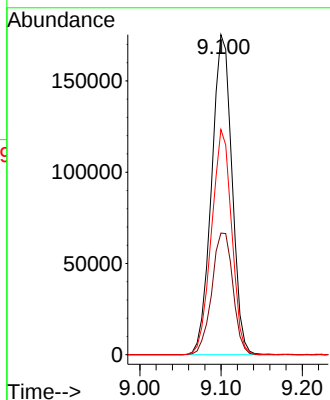
Tgt Ion: 82 Resp: 30532
Ion Ratio Lower Upper
82 100
128 38.0 31.2 46.8
54 70.3 53.2 79.8

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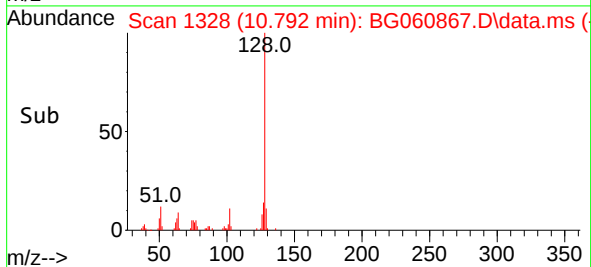
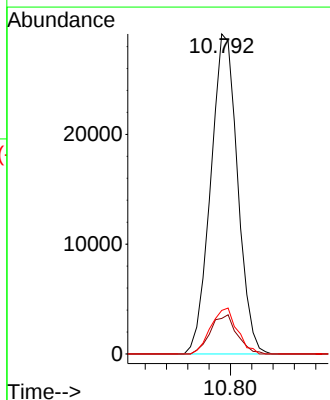
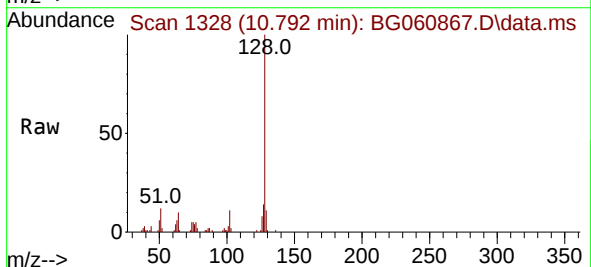
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Supervised By :mohammad
ahmed

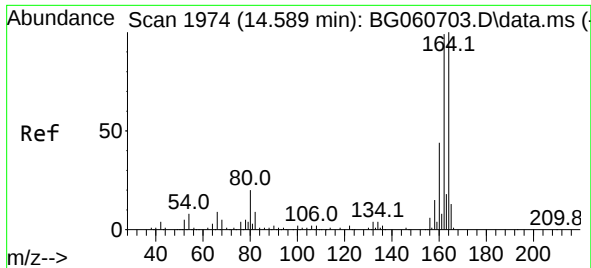
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#31
Naphthalene
Concen: 3.506 ng
RT: 10.792 min Scan# 1328
Delta R.T. -0.019 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18

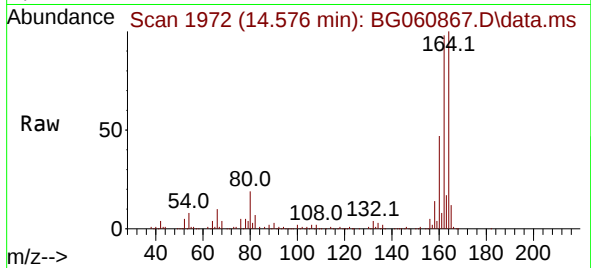
Tgt Ion:128 Resp: 50926
Ion Ratio Lower Upper
128 100
129 11.1 8.5 12.7
127 13.6 10.5 15.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.576 min Scan# 1974
Delta R.T. -0.013 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18

Instrument :
BNA_G
ClientSampleId :
TP-4



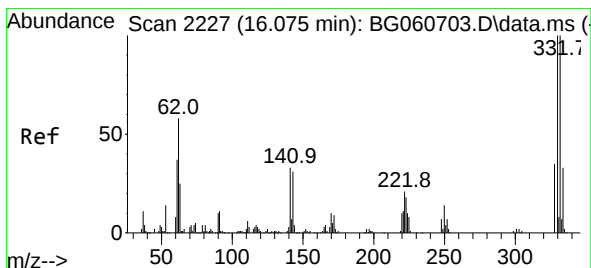
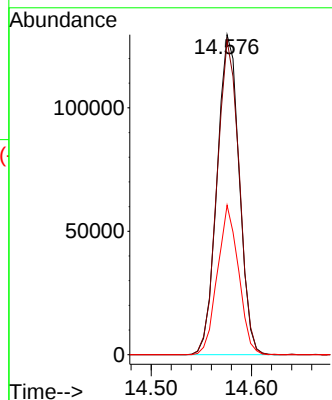
Tgt Ion:164 Resp: 198490
Ion Ratio Lower Upper
164 100
162 98.2 79.5 119.3
160 46.7 35.4 53.0

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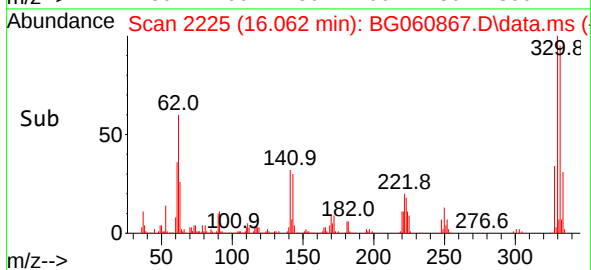
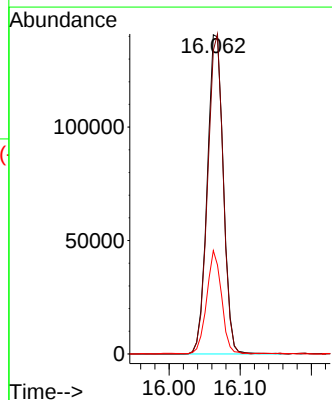
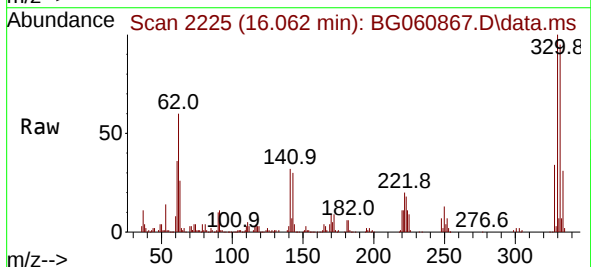
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ahmed

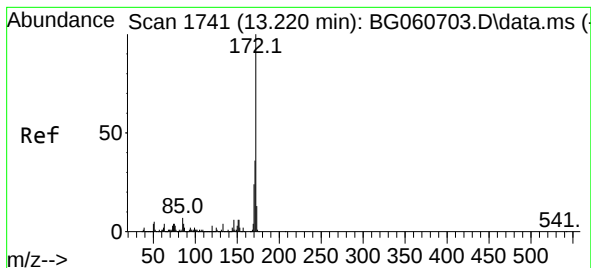
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#42
2,4,6-Tribromophenol
Concen: 98.042 ng
RT: 16.062 min Scan# 2225
Delta R.T. -0.013 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18

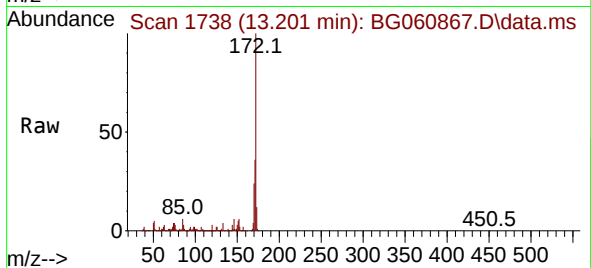
Tgt Ion:330 Resp: 220907
Ion Ratio Lower Upper
330 100
332 96.9 78.2 117.4
141 30.1 27.0 40.6





#45
2-Fluorobiphenyl
Concen: 45.104 ng
RT: 13.201 min Scan# 1741
Delta R.T. -0.019 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18

Instrument :
BNA_G
ClientSampleId :
TP-4



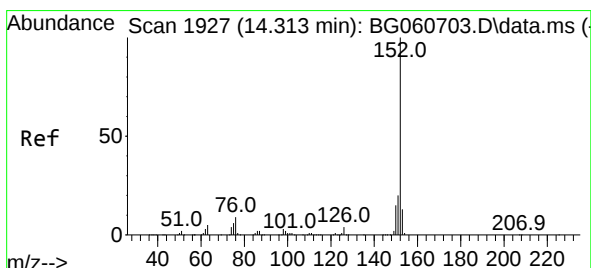
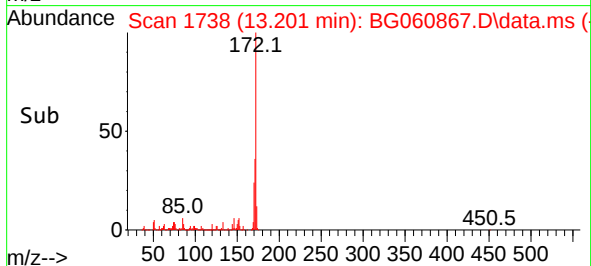
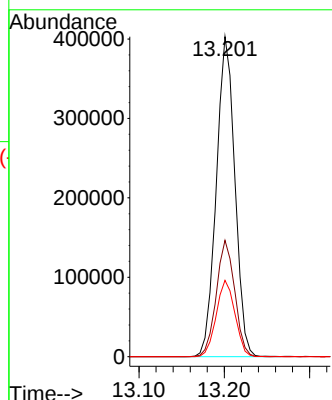
Tgt Ion:172 Resp: 610000
Ion Ratio Lower Upper
172 100
171 36.3 28.7 43.1
170 23.9 19.4 29.0

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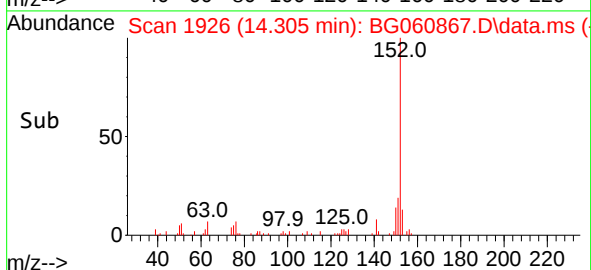
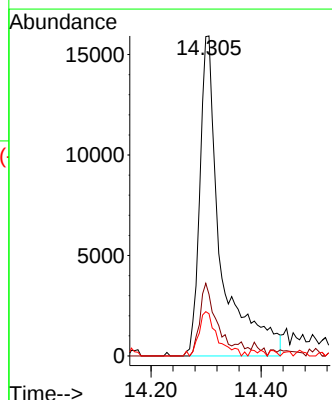
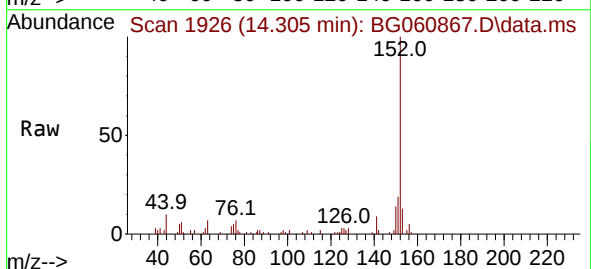
04/12/2024
Supervised By :mohammad
ahmed

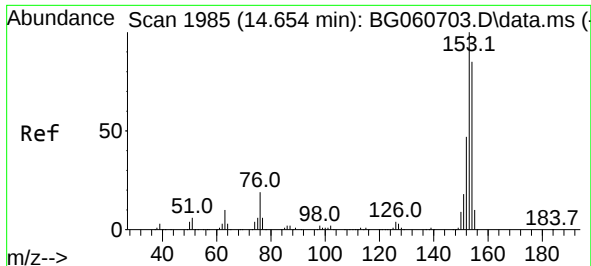
04/17/2024



#49
Acenaphthylene
Concen: 2.370 ng
RT: 14.305 min Scan# 1926
Delta R.T. -0.008 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18

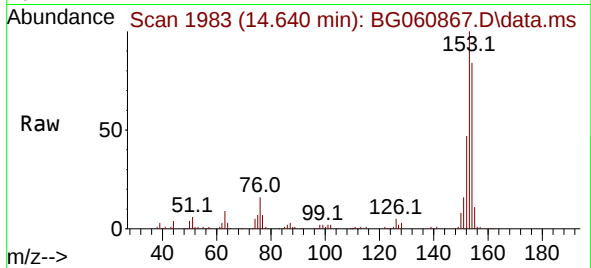
Tgt Ion:152 Resp: 42420
Ion Ratio Lower Upper
152 100
151 19.2 16.4 24.6
153 13.2 10.5 15.7





#52
Acenaphthene
Concen: 5.461 ng
RT: 14.640 min Scan# 1985
Delta R.T. -0.014 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18

Instrument :
BNA_G
ClientSampleId :
TP-4



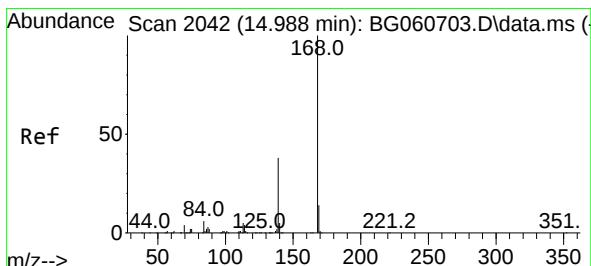
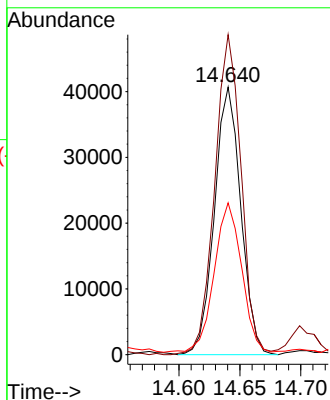
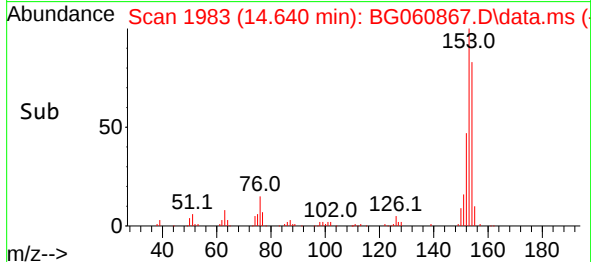
Tgt Ion:154 Resp: 61368
Ion Ratio Lower Upper
154 100
153 119.6 93.9 140.9
152 56.7 44.1 66.1

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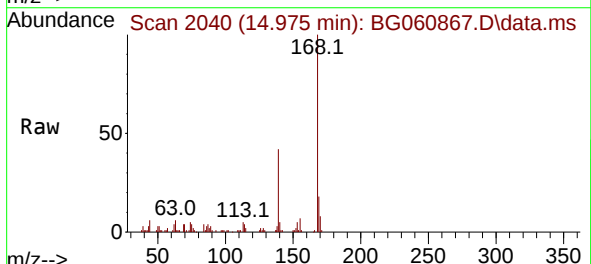
Reviewed By :Yogesh
Patel

04/12/2024
Supervised By :mohammad
ahmed

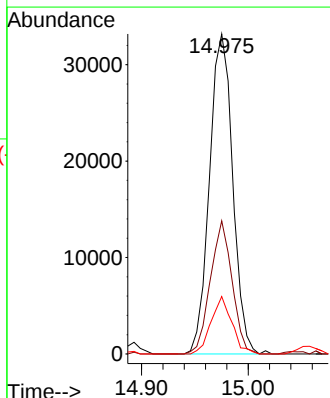
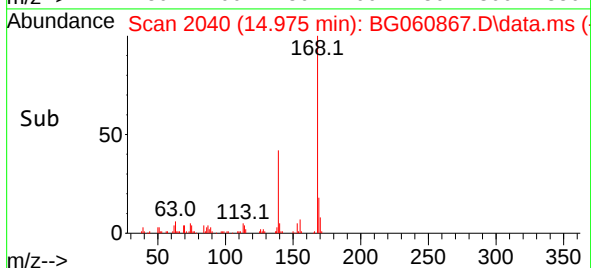
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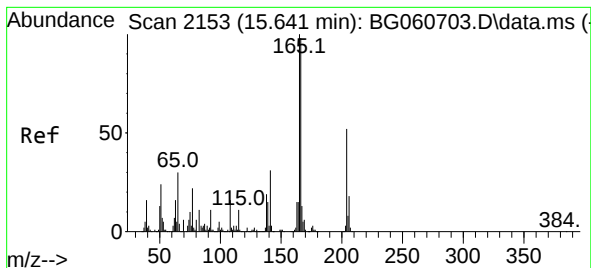


#55
Dibenzofuran
Concen: 2.831 ng
RT: 14.975 min Scan# 2040
Delta R.T. -0.013 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18



Tgt Ion:168 Resp: 50174
Ion Ratio Lower Upper
168 100
139 41.6 30.1 45.1
169 17.9 11.0 16.4#





#58

Fluorene

Concen: 5.296 ng

RT: 15.627 min Scan# 2151

Delta R.T. -0.013 min

Lab File: BG060867.D

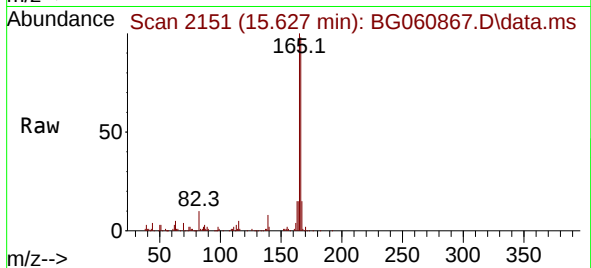
Acq: 11 Apr 2024 20:18

Instrument :

BNA_G

ClientSampleId :

TP-4



Tgt Ion:	166	Resp:	75340
Ion	Ratio	Lower	Upper
166	100		
165	102.5	81.8	122.8
167	15.0	10.9	16.3

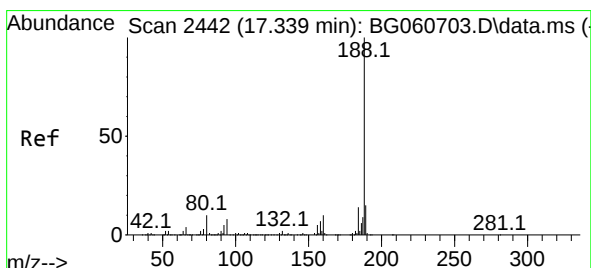
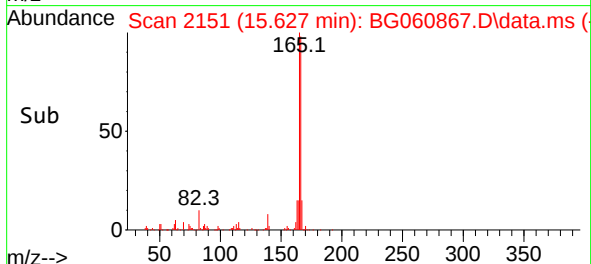
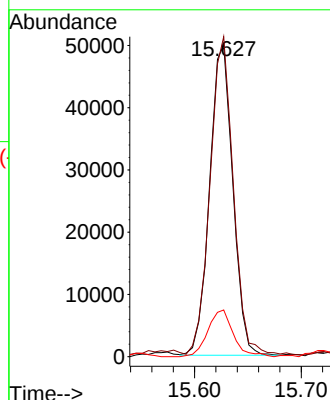
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#64

Phenanthrene-d10

Concen: 20.000 ng

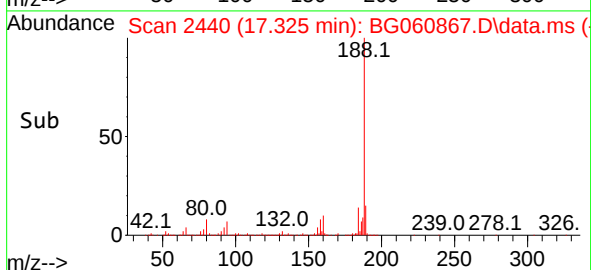
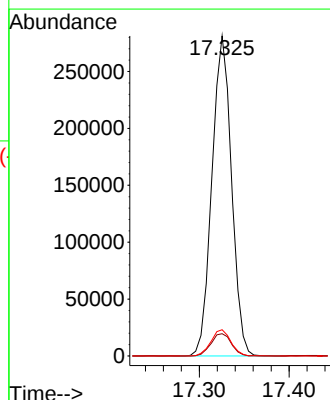
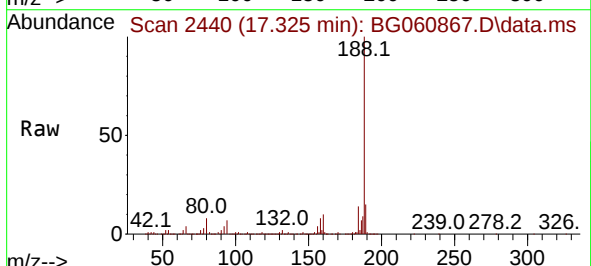
RT: 17.325 min Scan# 2440

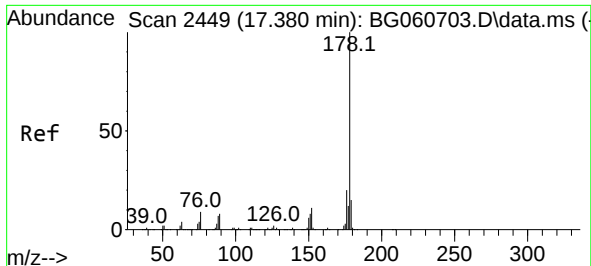
Delta R.T. -0.013 min

Lab File: BG060867.D

Acq: 11 Apr 2024 20:18

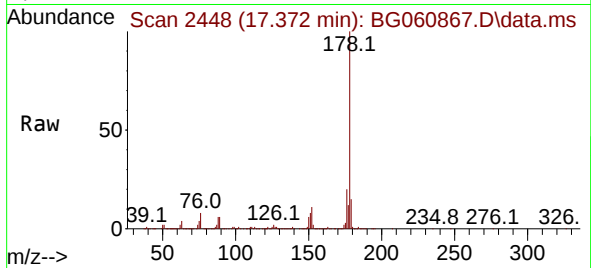
Tgt Ion:	188	Resp:	426100
Ion	Ratio	Lower	Upper
188	100		
94	7.0	6.6	9.8
80	8.2	7.6	11.4





#71
Phenanthrene
Concen: 50.076 ng
RT: 17.372 min Scan# 2448
Delta R.T. -0.007 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18

Instrument :
BNA_G
ClientSampleId :
TP-4



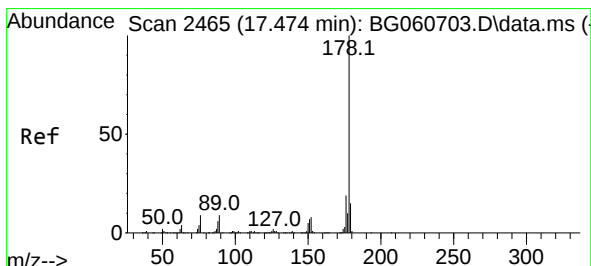
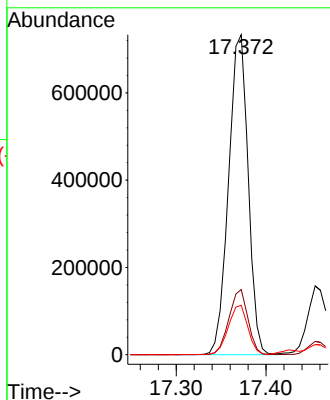
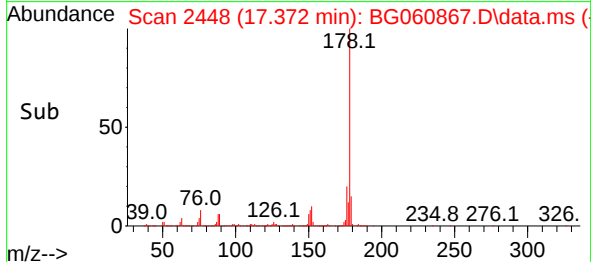
Tgt Ion:178 Resp: 110972
Ion Ratio Lower Upper
178 100
176 20.4 15.8 23.6
179 15.4 12.2 18.4

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Patel

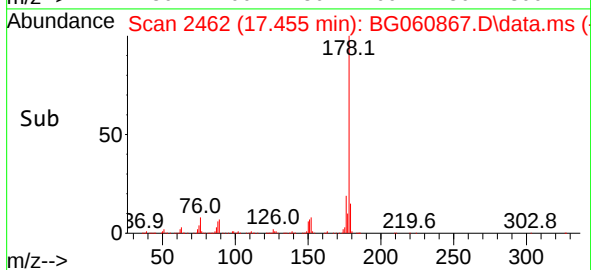
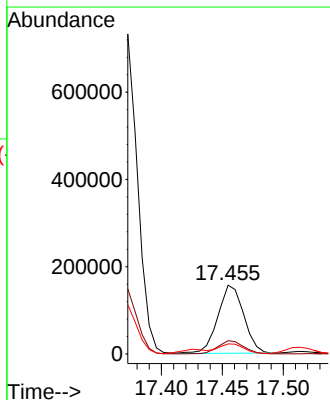
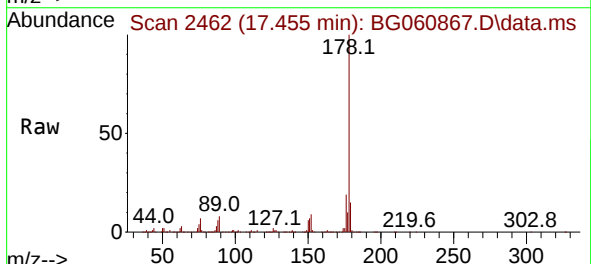
04/12/2024
Supervised By :mohammad
ahmed

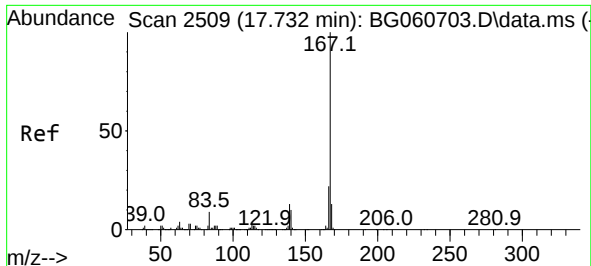
04/17/2024



#72
Anthracene
Concen: 10.237 ng
RT: 17.455 min Scan# 2462
Delta R.T. -0.019 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18

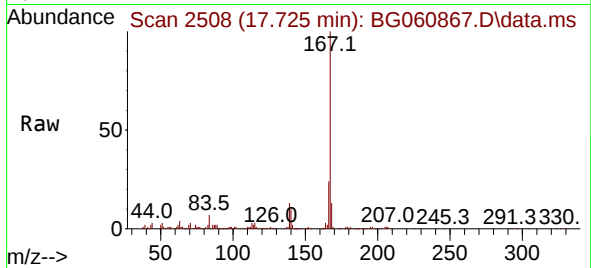
Tgt Ion:178 Resp: 230383
Ion Ratio Lower Upper
178 100
176 19.3 15.5 23.3
179 14.7 12.2 18.2





#73
 Carbazole
 Concen: 6.977 ng
 RT: 17.725 min Scan# 21
 Delta R.T. -0.007 min
 Lab File: BG060867.D
 Acq: 11 Apr 2024 20:18

Instrument :
 BNA_G
 ClientSampleId :
 TP-4



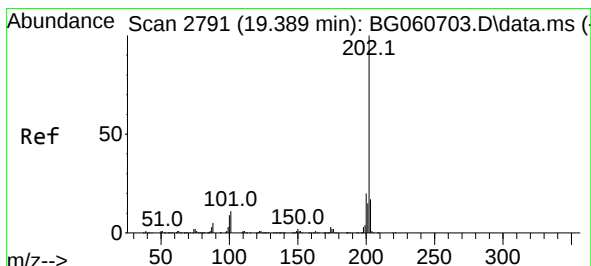
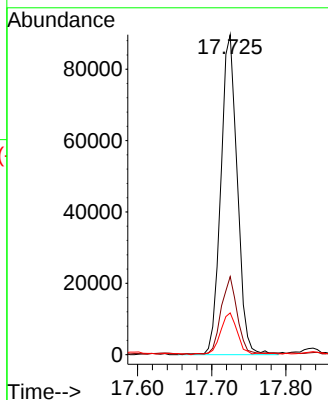
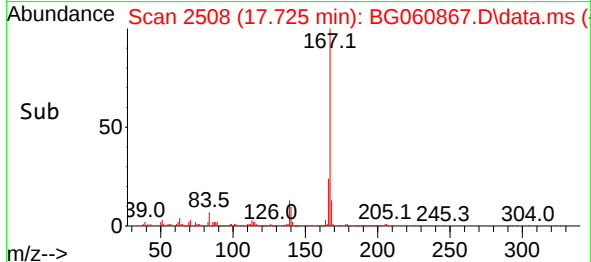
Tgt Ion:167 Resp: 138434
 Ion Ratio Lower Upper
 167 100
 166 24.4 18.0 27.0
 139 13.1 10.5 15.7

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Reviewed By :Yogesh
 Patel

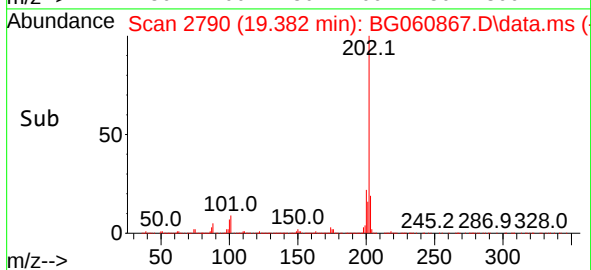
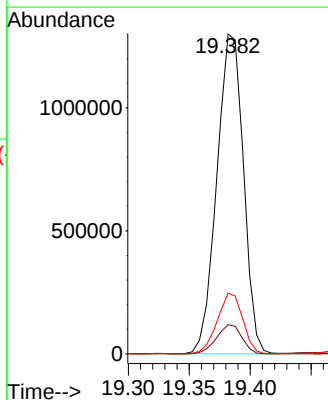
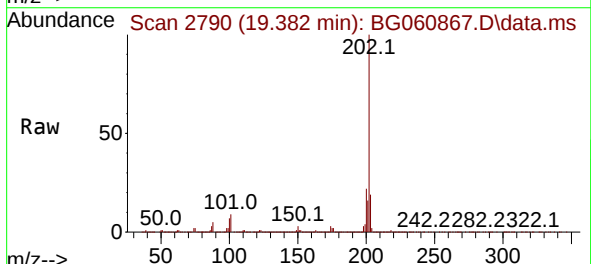
04/12/2024
 Supervised By :mohammad
 ahmed

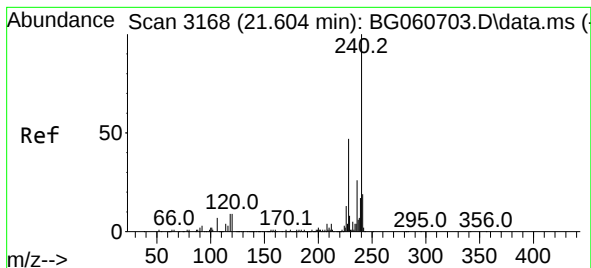
04/17/2024



#75
 Fluoranthene
 Concen: 73.525 ng
 RT: 19.382 min Scan# 2790
 Delta R.T. -0.007 min
 Lab File: BG060867.D
 Acq: 11 Apr 2024 20:18

Tgt Ion:202 Resp: 1977141
 Ion Ratio Lower Upper
 202 100
 101 9.2 0.0 30.8
 203 19.0 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.591 min Scan# 3166

Delta R.T. -0.013 min

Lab File: BG060867.D

Acq: 11 Apr 2024 20:18

Instrument :

BNA_G

ClientSampleId :

TP-4

Tgt Ion:240 Resp: 381458
 Ion Ratio Lower Upper
 240 100
 120 7.3 7.1 10.7
 236 26.5 20.7 31.1

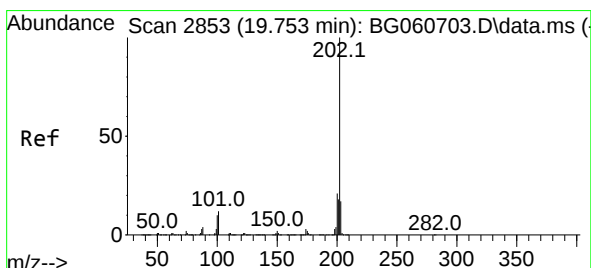
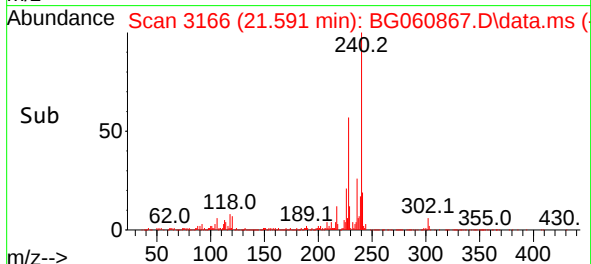
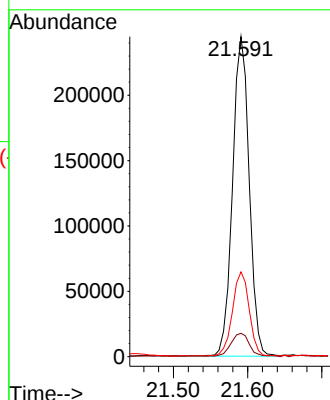
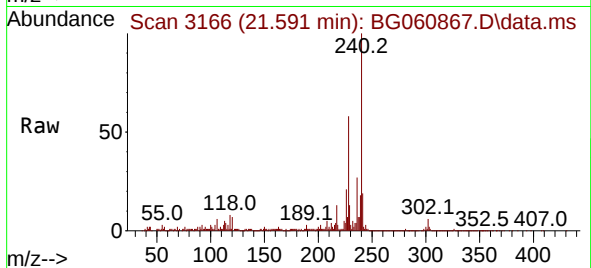
Manual Integrations
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Reviewed By :Yogesh
 Patel

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Supervised By :mohammad
 ahmed

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#78

Pyrene

Concen: 63.581 ng

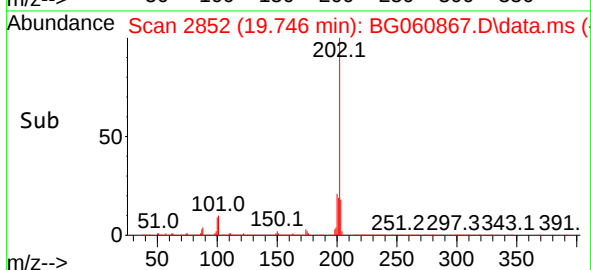
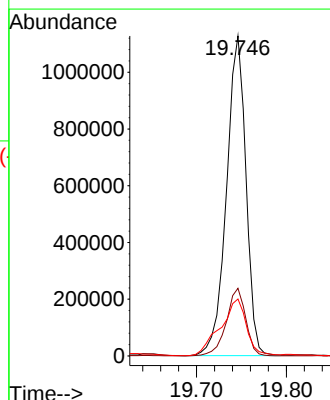
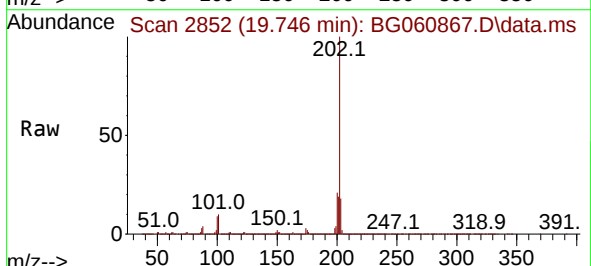
RT: 19.746 min Scan# 2852

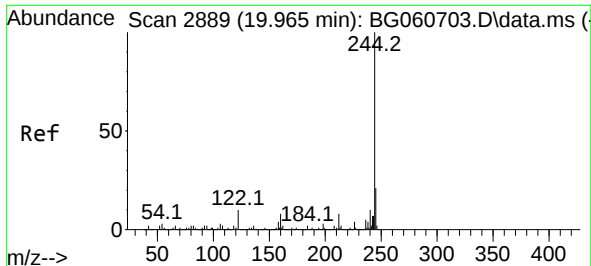
Delta R.T. -0.007 min

Lab File: BG060867.D

Acq: 11 Apr 2024 20:18

Tgt Ion:202 Resp: 1696241
 Ion Ratio Lower Upper
 202 100
 200 21.2 17.0 25.4
 203 17.8 14.0 21.0





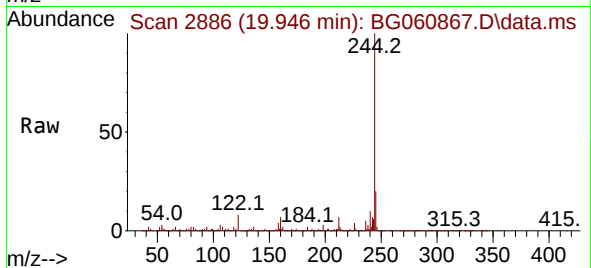
#79
 Terphenyl-d14
 Concen: 41.821 ng
 RT: 19.946 min Scan# 21
 Delta R.T. -0.019 min
 Lab File: BG060867.D
 Acq: 11 Apr 2024 20:18

Instrument :

BNA_G

ClientSampleId :

TP-4



Tgt Ion:244 Resp: 90599
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.2 9.2
 122 8.1 7.8 11.8

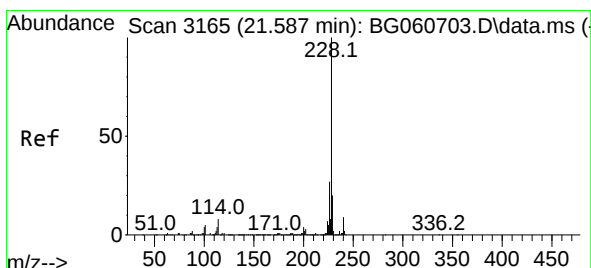
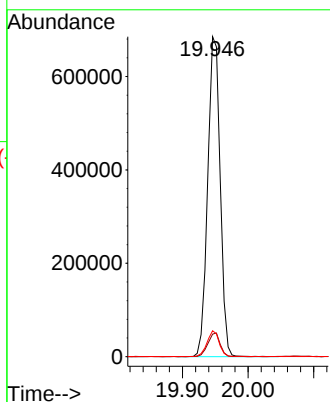
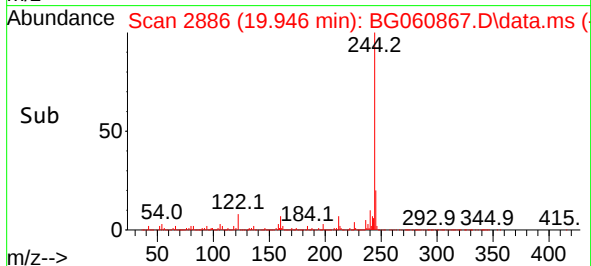
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Reviewed By :Yogesh
 Patel

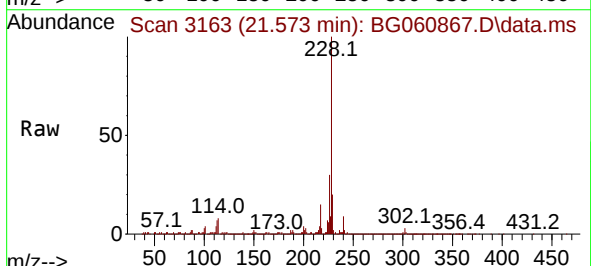
04/12/2024

Supervised By :mohammad
 ahmed

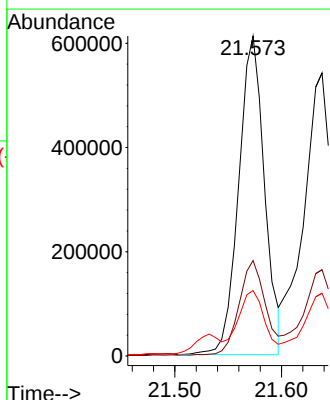
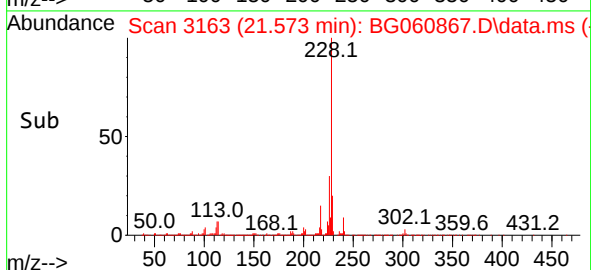
04/17/2024

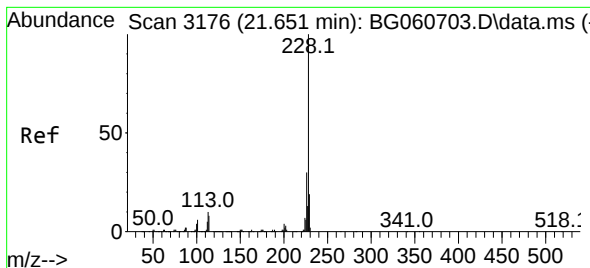


#81
 Benzo(a)anthracene
 Concen: 38.289 ng
 RT: 21.573 min Scan# 3163
 Delta R.T. -0.013 min
 Lab File: BG060867.D
 Acq: 11 Apr 2024 20:18



Tgt Ion:228 Resp: 1029530
 Ion Ratio Lower Upper
 228 100
 226 29.8 21.7 32.5
 229 20.4 15.8 23.8





#83

Chrysene

Concen: 38.698 ng

RT: 21.638 min Scan# 31

Delta R.T. -0.013 min

Lab File: BG060867.D

Acq: 11 Apr 2024 20:18

Instrument :

BNA_G

ClientSampleId :

TP-4

Tgt Ion:228 Resp: 100293

Ion Ratio Lower Upper

228 100

226 30.5 24.2 36.4

229 22.2 15.5 23.3

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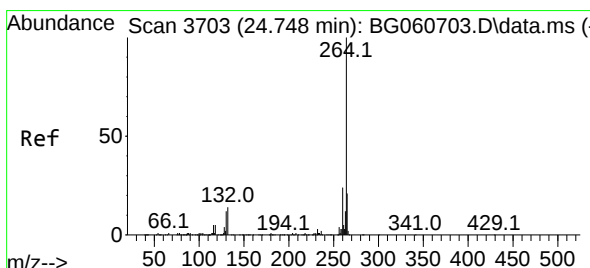
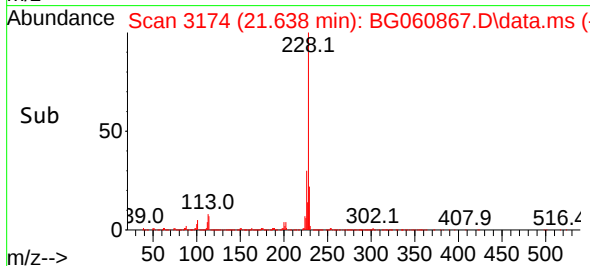
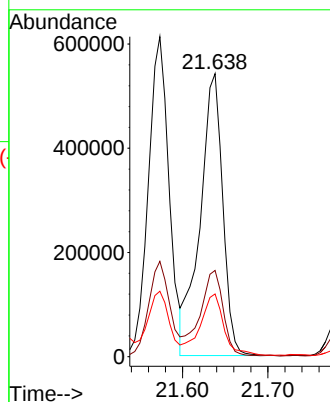
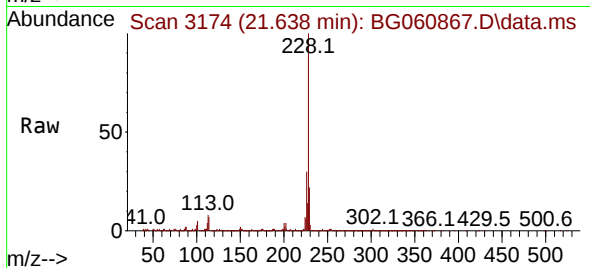
Reviewed By :Yogesh

Patel

04/12/2024

Supervised By :mohammad
ahmed

04/17/2024



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.734 min Scan# 3701

Delta R.T. -0.013 min

Lab File: BG060867.D

Acq: 11 Apr 2024 20:18

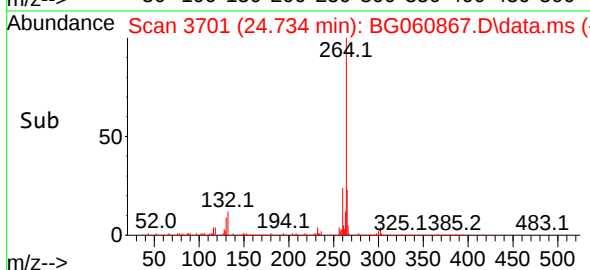
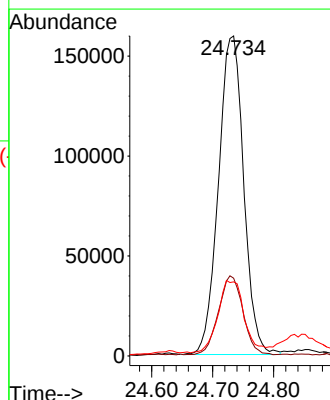
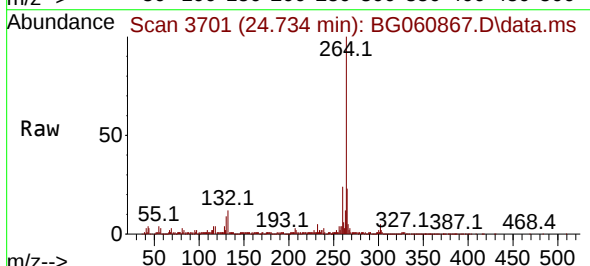
Tgt Ion:264 Resp: 458458

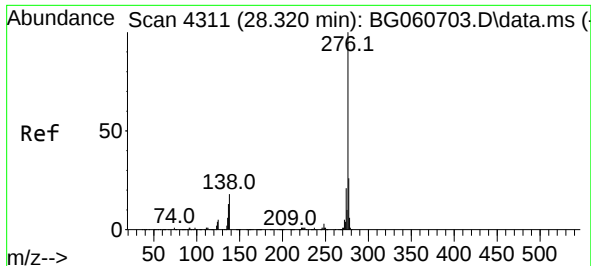
Ion Ratio Lower Upper

264 100

260 24.3 19.5 29.3

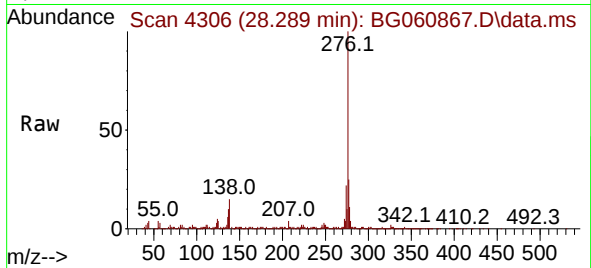
265 23.1 16.9 25.3





#87
Indeno(1,2,3-cd)pyrene
Concen: 22.180 ng
RT: 28.289 min Scan# 4311
Delta R.T. -0.031 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18

Instrument :
BNA_G
ClientSampleId :
TP-4



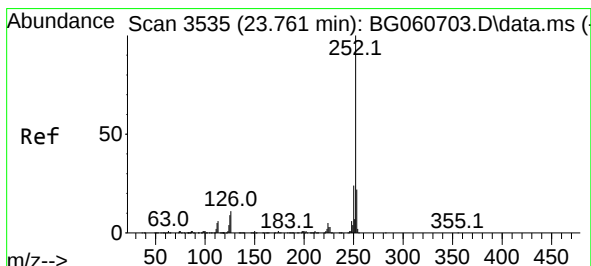
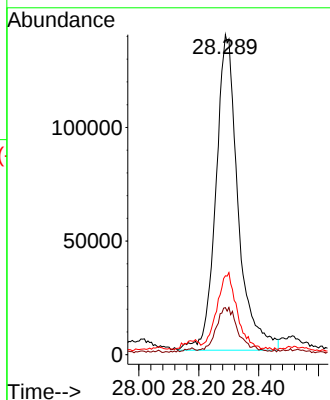
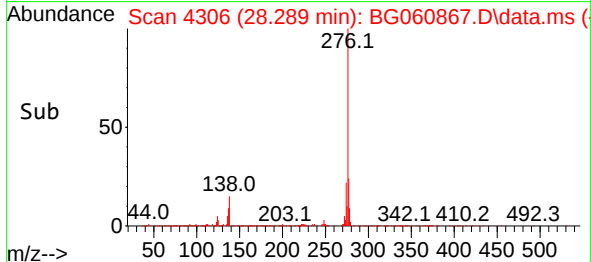
Tgt Ion:276 Resp: 716089
Ion Ratio Lower Upper
276 100
138 12.4 12.4 18.6
277 21.5 20.2 30.2

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Patel

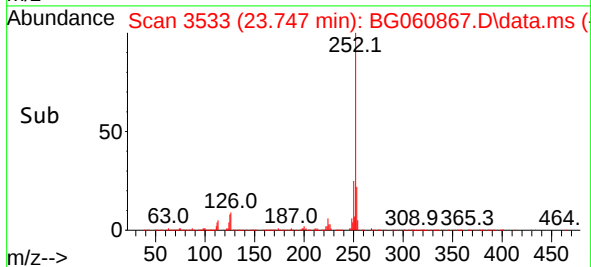
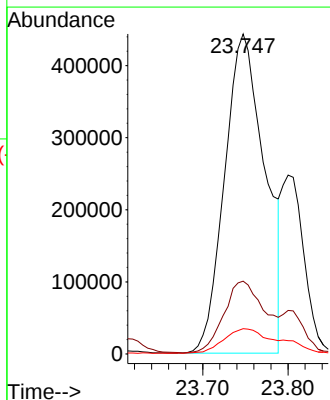
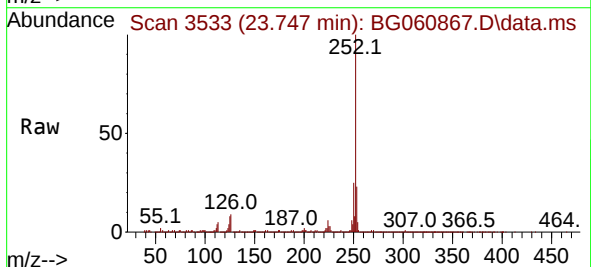
04/12/2024
Supervised By :mohammad
ahmed

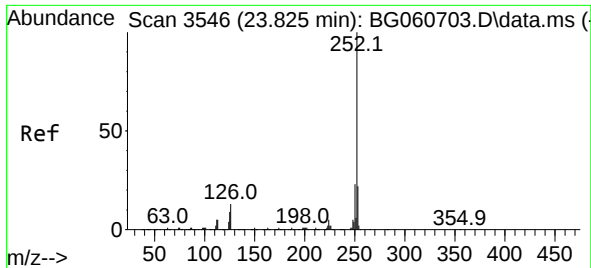
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#88
Benzo(b)fluoranthene
Concen: 55.268 ng
RT: 23.747 min Scan# 3533
Delta R.T. -0.013 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18

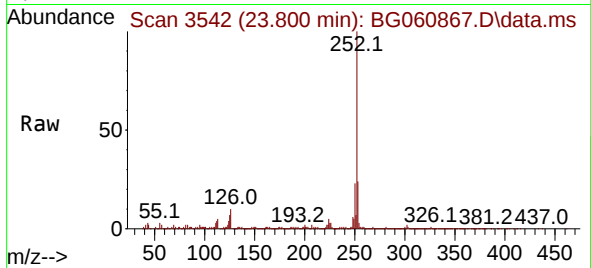
Tgt Ion:252 Resp: 1455664
Ion Ratio Lower Upper
252 100
253 22.8 17.8 26.8
125 7.9 7.1 10.7





#89
Benzo(k)fluoranthene
Concen: 16.206 ng m
RT: 23.800 min Scan# 3546
Delta R.T. -0.025 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18

Instrument :
BNA_G
ClientSampleId :
TP-4



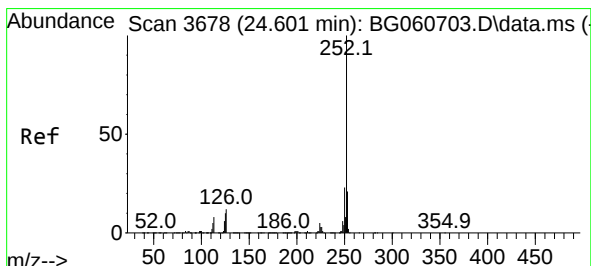
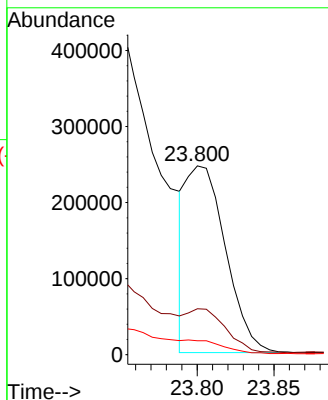
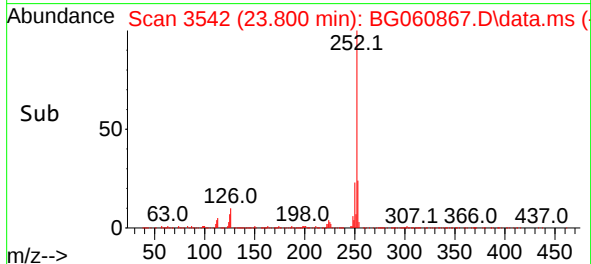
Tgt Ion:252 Resp: 43687
Ion Ratio Lower Upper
252 100
253 24.3 17.6 26.4
125 7.4 7.5 11.3

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Patel

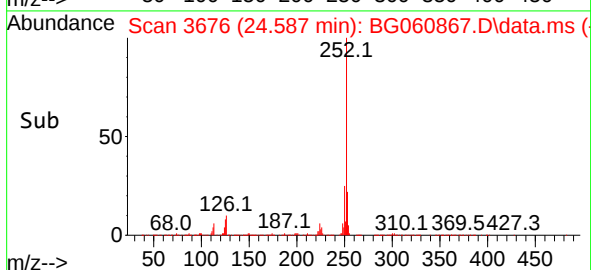
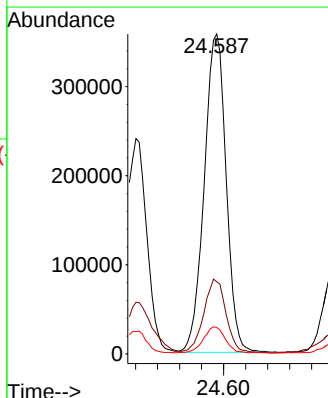
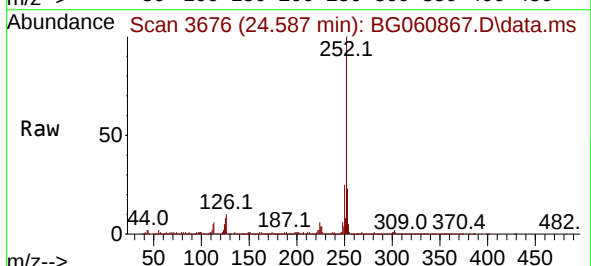
04/12/2024
Supervised By :mohammad
ahmed

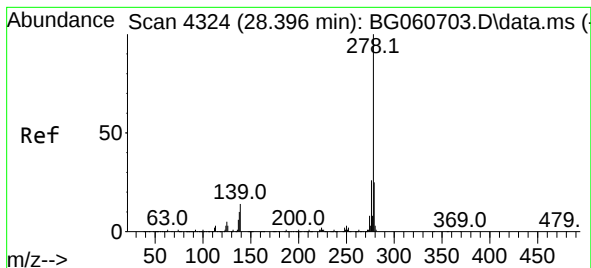
04/17/2024



#90
Benzo(a)pyrene
Concen: 38.642 ng
RT: 24.587 min Scan# 3676
Delta R.T. -0.013 min
Lab File: BG060867.D
Acq: 11 Apr 2024 20:18

Tgt Ion:252 Resp: 989082
Ion Ratio Lower Upper
252 100
253 22.5 16.8 25.2
125 8.3 7.6 11.4





#91

Dibenzo(a,h)anthracene

Concen: 6.374 ng

RT: 28.330 min Scan# 41

Delta R.T. -0.066 min

Lab File: BG060867.D

Acq: 11 Apr 2024 20:18

Instrument :

BNA_G

ClientSampleId :

TP-4

Tgt Ion:278 Resp: 17346

Ion Ratio Lower Upper

278 100

139 13.8 11.1 16.7

279 29.1 19.8 29.6

Manual Integrations

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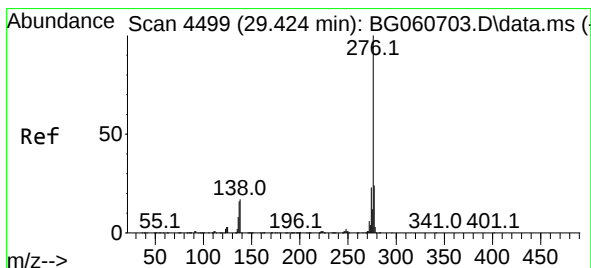
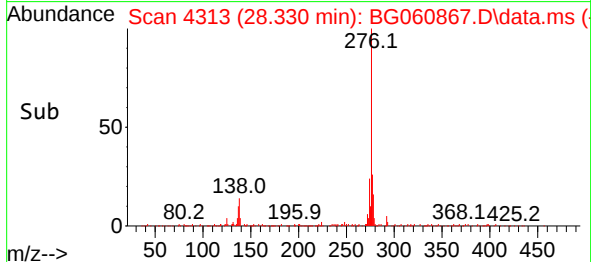
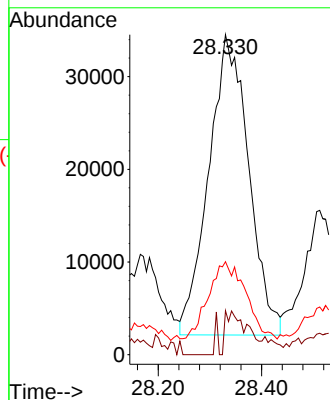
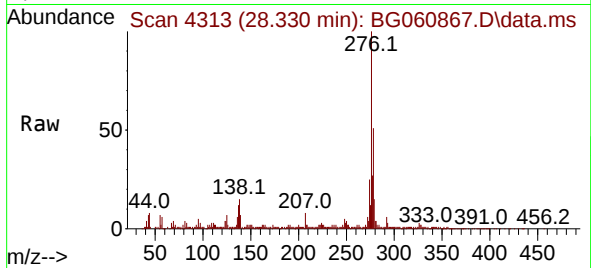
Reviewed By :Yogesh

Patel

04/12/2024

Supervised By :mohammad
ahmed

04/17/2024



#92

Benzo(g,h,i)perylene

Concen: 23.752 ng

RT: 29.399 min Scan# 4495

Delta R.T. -0.025 min

Lab File: BG060867.D

Acq: 11 Apr 2024 20:18

Tgt Ion:276 Resp: 628804

Ion Ratio Lower Upper

276 100

277 24.5 18.9 28.3

138 15.5 14.0 21.0

