

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042424\
 Data File : BG061025.D
 Acq On : 24 Apr 2024 14:42
 Operator : MA/JU
 Sample : P2228-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 EXCAVATION-SOIL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/26/2024
 Supervised By :mohammad ahmed 04/27/2024

Quant Time: Apr 24 15:28:54 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 22 04:22:00 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.941	152	26376	20.000	ng	0.00
21) Naphthalene-d8	10.738	136	92696	20.000	ng	0.00
39) Acenaphthene-d10	14.569	164	73909	20.000	ng	0.00
64) Phenanthrene-d10	17.319	188	174523	20.000	ng	0.00
76) Chrysene-d12	21.584	240	179970	20.000	ng	0.00
86) Perylene-d12	24.710	264	225475	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.532	112	157181	120.541	ng	0.00
7) Phenol-d6	7.119	99	209787	108.432	ng	0.01
23) Nitrobenzene-d5	9.099	82	141858	68.757	ng	0.00
42) 2,4,6-Tribromophenol	16.061	330	166174	102.388	ng	0.00
45) 2-Fluorobiphenyl	13.194	172	363151	68.003	ng	0.00
79) Terphenyl-d14	19.945	244	687773	59.320	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	14.633	154	12294	3.147	ng	92
55) Dibenzofuran	14.968	168	16714	2.478	ng	96
58) Fluorene	15.621	166	27929	4.906	ng	97
71) Phenanthrene	17.366	178	403076	45.248	ng	100
72) Anthracene	17.454	178	147872	16.117	ng	99
73) Carbazole	17.718	167	57939	7.604	ng	96
75) Fluoranthene	19.381	202	799440	67.621	ng	97
78) Pyrene	19.739	202	667057	54.435	ng	97
81) Benzo(a)anthracene	21.566	228	388652	30.716	ng	96
83) Chrysene	21.625	228	345484	28.679	ng	96
87) Indeno(1,2,3-cd)pyrene	28.265	276	97724	6.248	ng	# 87
88) Benzo(b)fluoranthene	23.729	252	334068	26.145	ng	97
89) Benzo(k)fluoranthene	23.787	252	159511m	12.366	ng	
90) Benzo(a)pyrene	24.563	252	242002	19.567	ng	96
91) Dibenzo(a,h)anthracene	28.323	278	29535m	2.311	ng	
92) Benzo(g,h,i)perylene	29.357	276	93162m	7.352	ng	

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

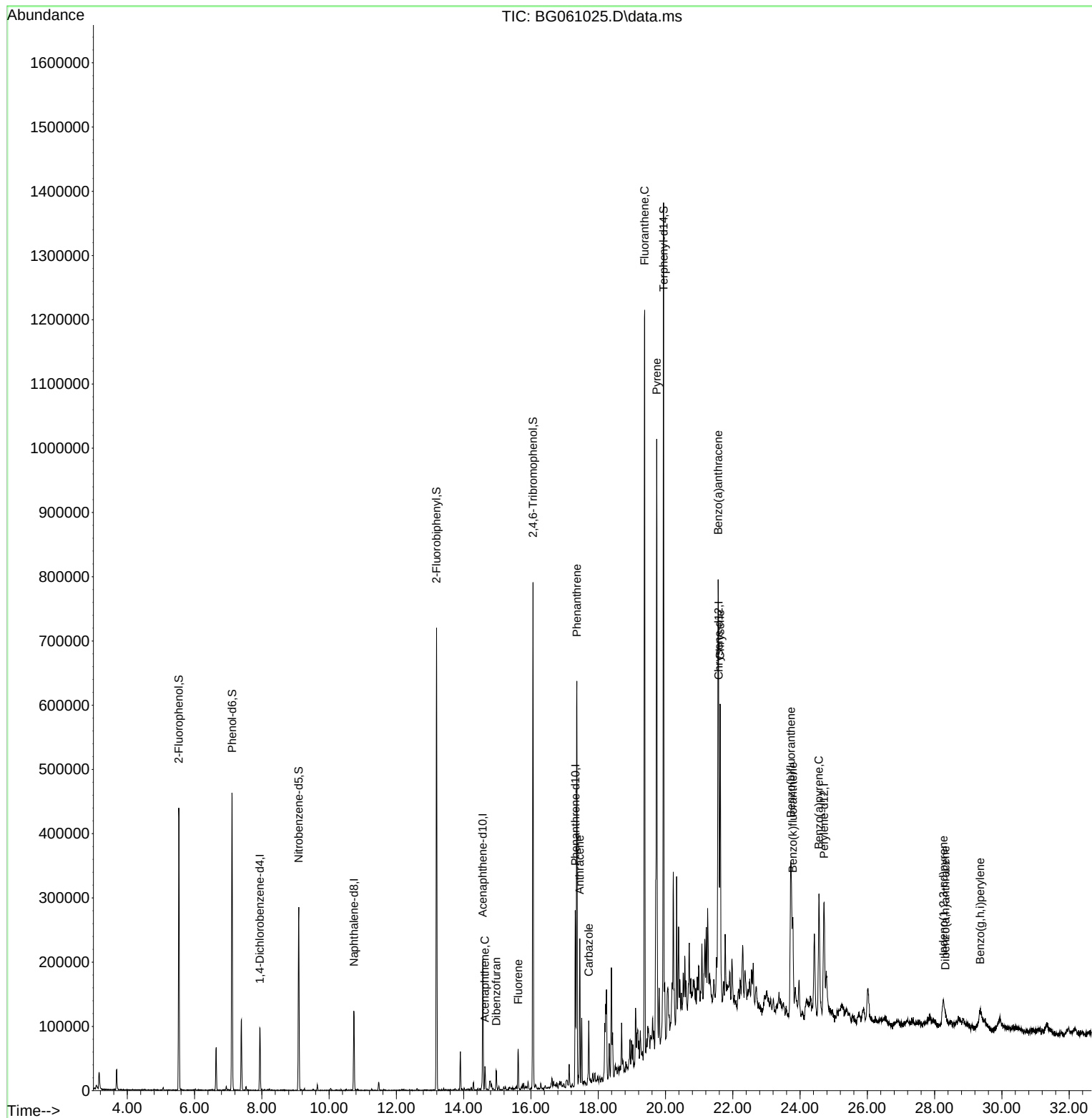
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042424\
Data File : BG061025.D
Acq On : 24 Apr 2024 14:42
Operator : MA/JU
Sample : P2228-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

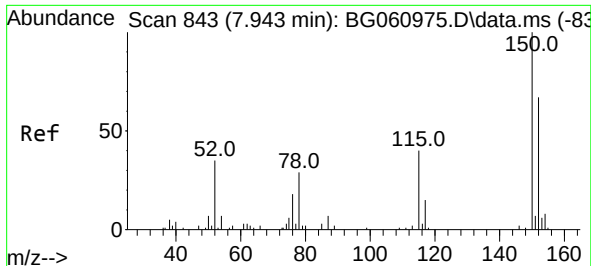
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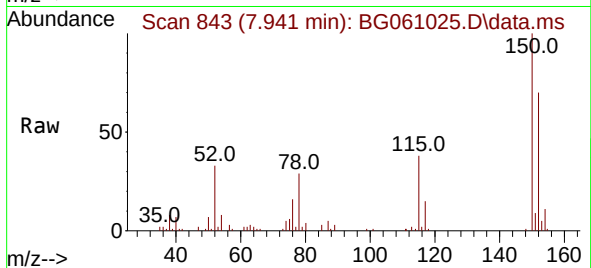
Quant Time: Apr 24 15:28:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 22 04:22:00 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.941 min Scan# 843
Delta R.T. -0.002 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42

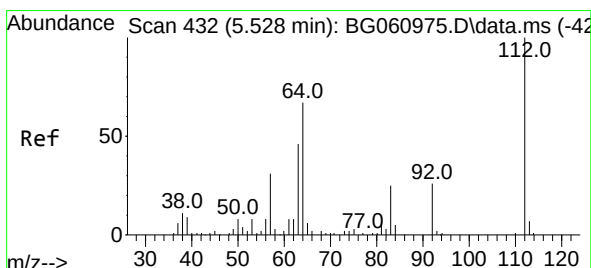
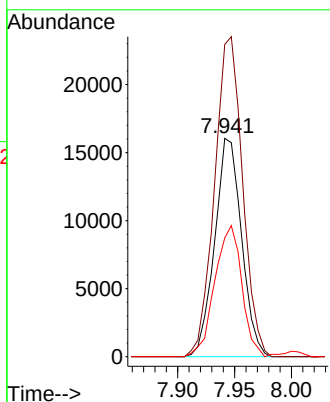
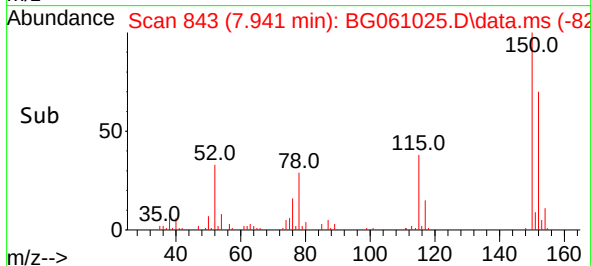
Instrument :
BNA_G
ClientSampleId :
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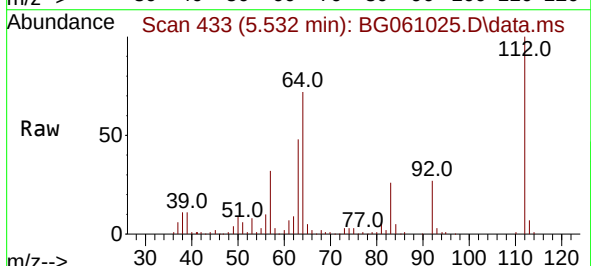
Tgt Ion:152 Resp: 26370
Ion Ratio Lower Upper
152 100
150 143.1 118.6 178.0
115 54.4 47.4 71.0

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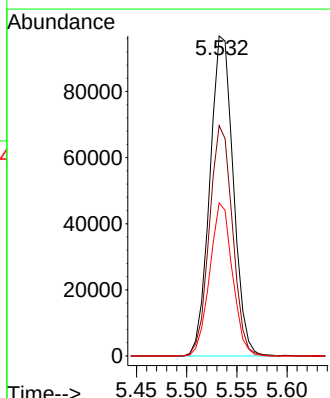
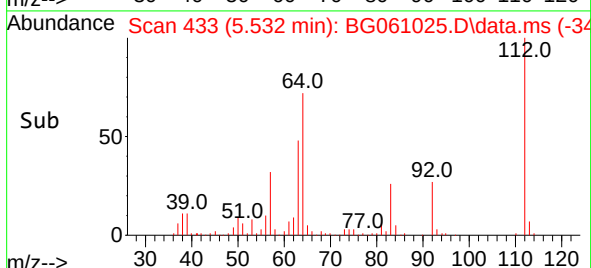
Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024

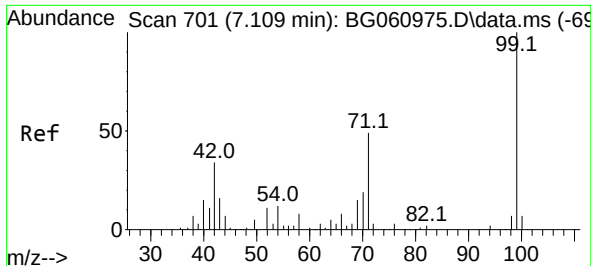


#5
2-Fluorophenol
Concen: 120.541 ng
RT: 5.532 min Scan# 433
Delta R.T. 0.004 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42



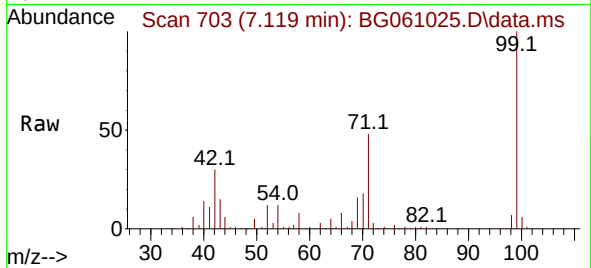
Tgt Ion:112 Resp: 157181
Ion Ratio Lower Upper
112 100
64 72.0 53.7 80.5
63 47.9 37.0 55.6





#7
Phenol-d6
Concen: 108.432 ng
RT: 7.119 min Scan# 703
Delta R.T. 0.010 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42

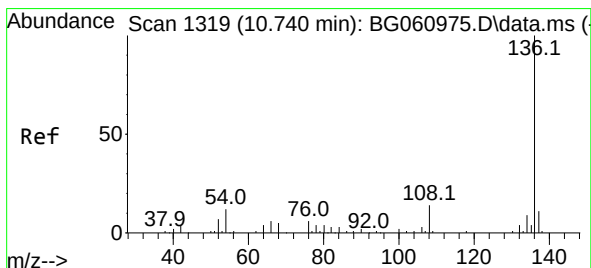
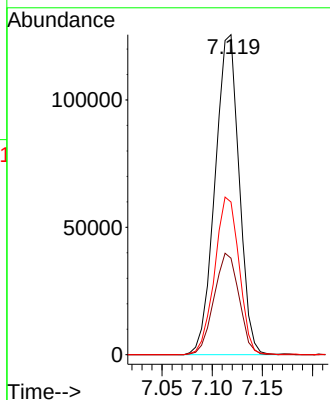
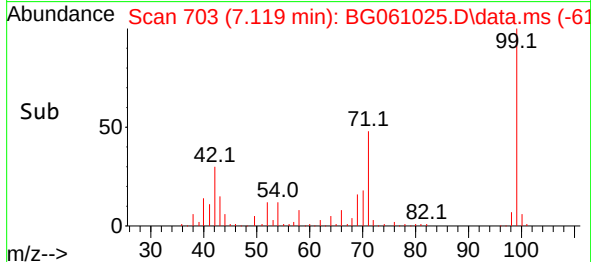
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Tgt Ion: 99 Resp: 20978
Ion Ratio Lower Upper
99 100
42 30.1 27.2 40.8
71 47.7 38.8 58.2

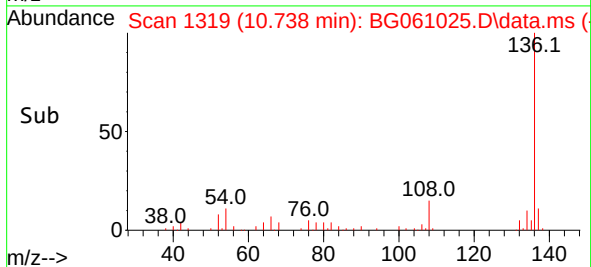
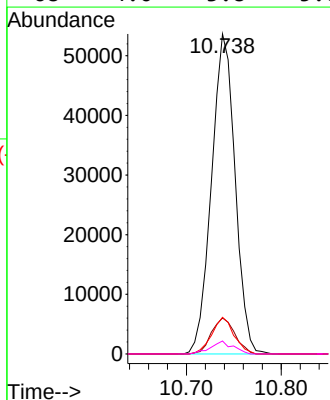
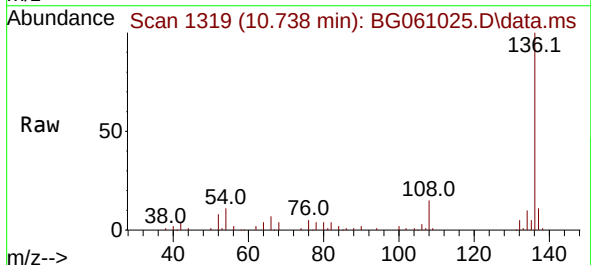
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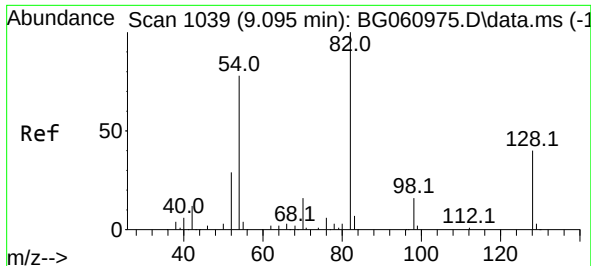
Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.738 min Scan# 1319
Delta R.T. -0.002 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42

Tgt Ion:136 Resp: 92696
Ion Ratio Lower Upper
136 100
137 11.3 8.5 12.7
54 11.5 9.4 14.0
68 4.0 3.8 5.6





#23

Nitrobenzene-d5

Concen: 68.757 ng

RT: 9.099 min Scan# 1039

Delta R.T. 0.004 min

Lab File: BG061025.D

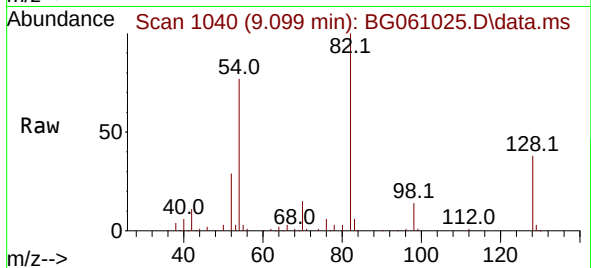
Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL



Tgt Ion: 82 Resp: 141858

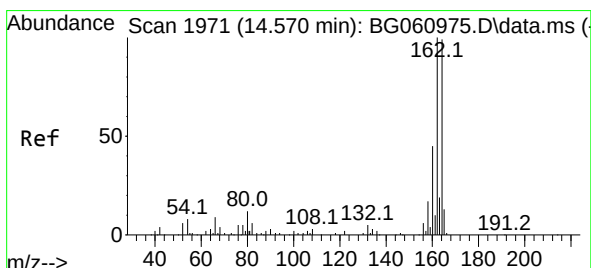
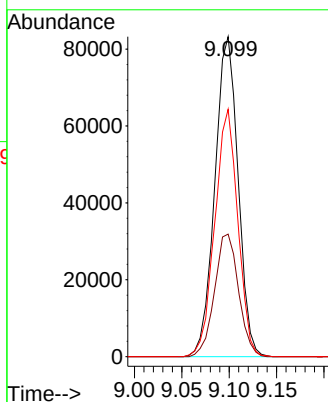
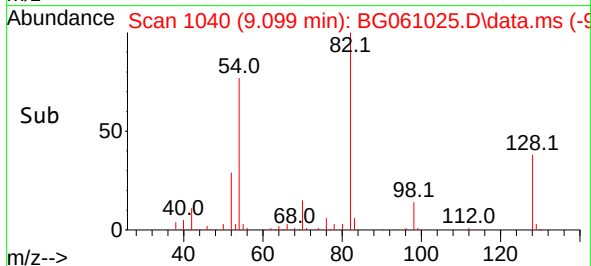
Ion	Ratio	Lower	Upper
82	100		
128	38.3	32.1	48.1
54	77.3	62.3	93.5

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Supervised By :mohammad ahmed 04/27/2024



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.569 min Scan# 1971

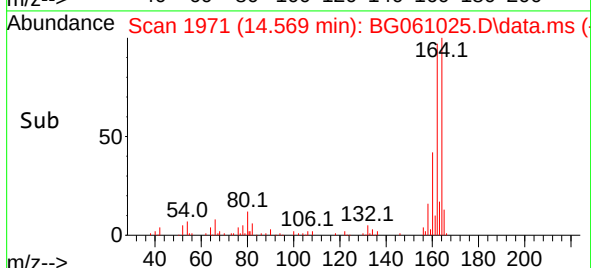
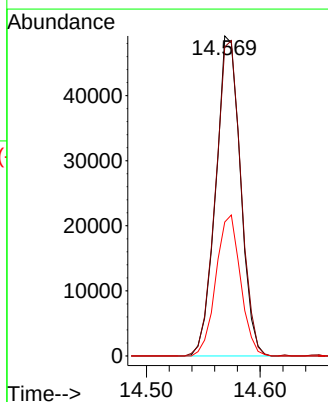
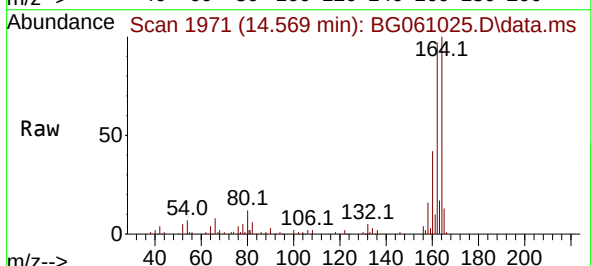
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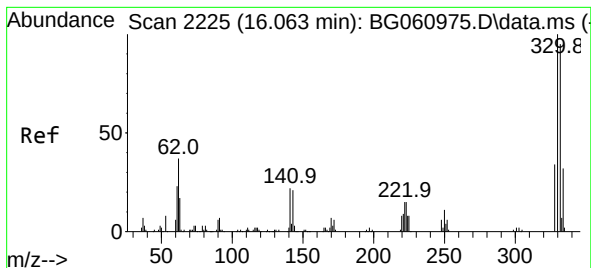
Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Tgt Ion:164 Resp: 73909

Ion	Ratio	Lower	Upper
164	100		
162	96.6	81.2	121.8
160	41.9	36.2	54.2





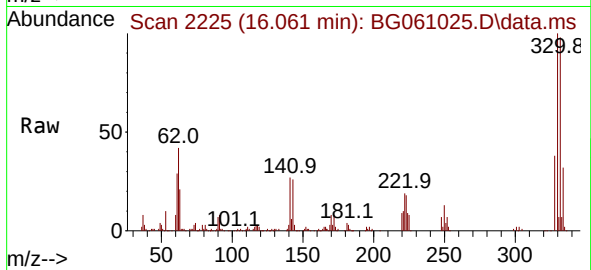
#42
2,4,6-Tribromophenol
Concen: 102.388 ng
RT: 16.061 min Scan# 211
Delta R.T. -0.002 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL



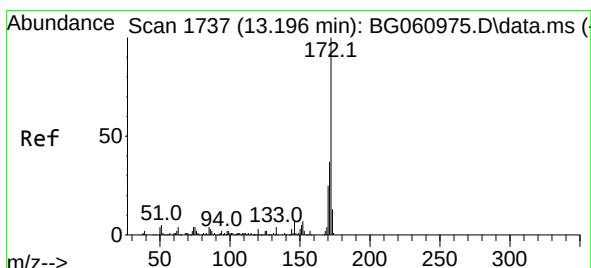
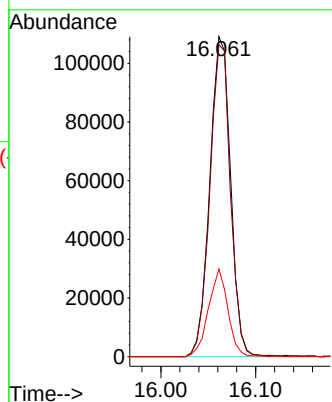
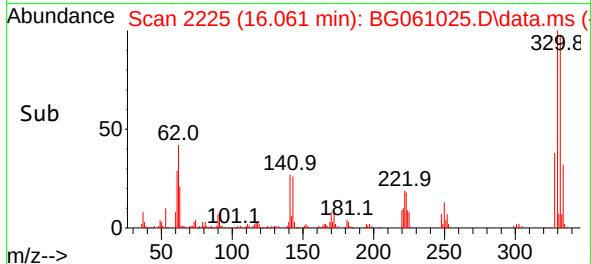
Tgt Ion:330 Resp: 166174
Ion Ratio Lower Upper
330 100
332 96.5 77.1 115.7
141 25.6 20.6 31.0

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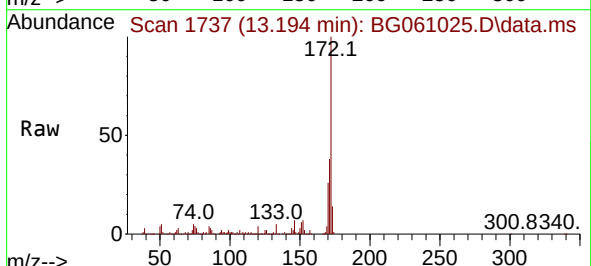
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Reviewed By :Yogesh Patel 04/26/2024

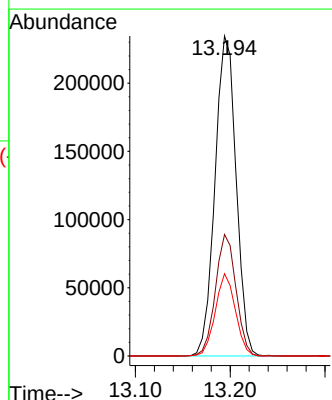
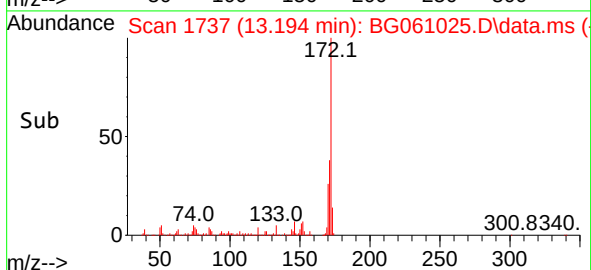
Supervised By :mohammad ahmed 04/27/2024

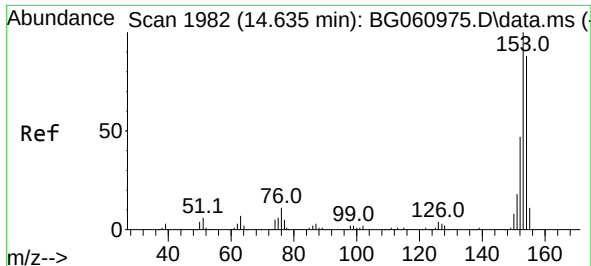


#45
2-Fluorobiphenyl
Concen: 68.003 ng
RT: 13.194 min Scan# 1737
Delta R.T. -0.002 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42



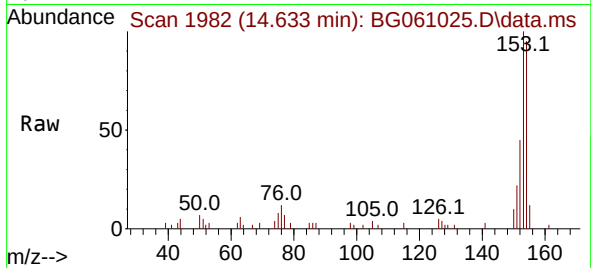
Tgt Ion:172 Resp: 363151
Ion Ratio Lower Upper
172 100
171 38.0 29.3 43.9
170 25.7 20.1 30.1





#52
Acenaphthene
Concen: 3.147 ng
RT: 14.633 min Scan# 1982
Delta R.T. -0.002 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42

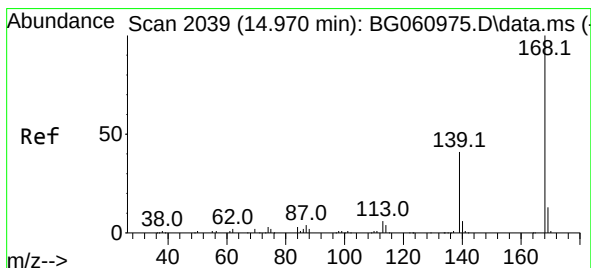
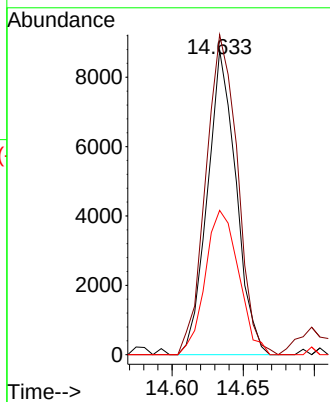
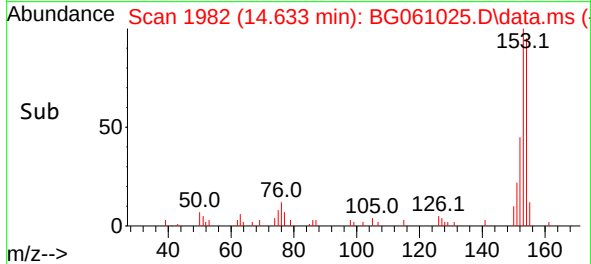
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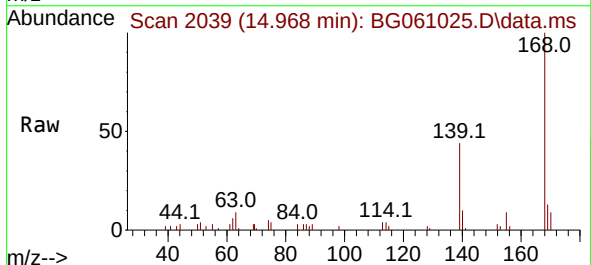
Tgt Ion:154 Resp: 12294
Ion Ratio Lower Upper
154 100
153 105.1 91.2 136.8
152 47.4 42.7 64.1

Manual Integrations
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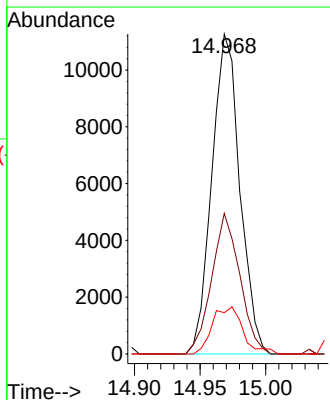
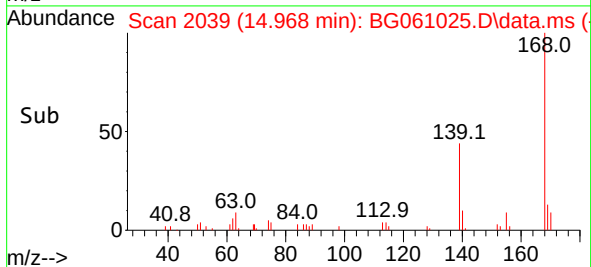
Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024

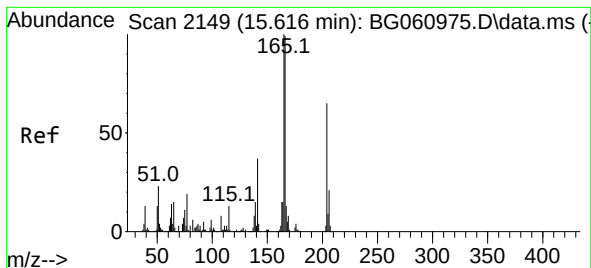


#55
Dibenzofuran
Concen: 2.478 ng
RT: 14.968 min Scan# 2039
Delta R.T. -0.002 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42



Tgt Ion:168 Resp: 16714
Ion Ratio Lower Upper
168 100
139 43.9 32.4 48.6
169 12.9 10.6 15.8





#58

Fluorene

Concen: 4.906 ng

RT: 15.621 min Scan# 2149

Delta R.T. 0.004 min

Lab File: BG061025.D

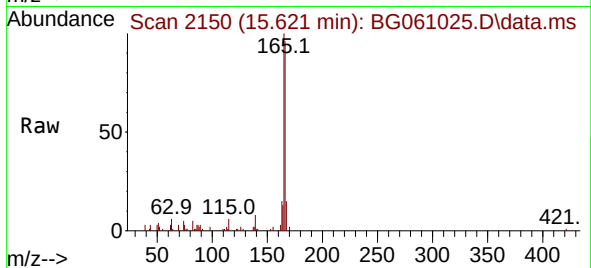
Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL



Tgt Ion:166 Resp: 27929

Ion Ratio Lower Upper

166 100

165 104.1 80.9 121.3

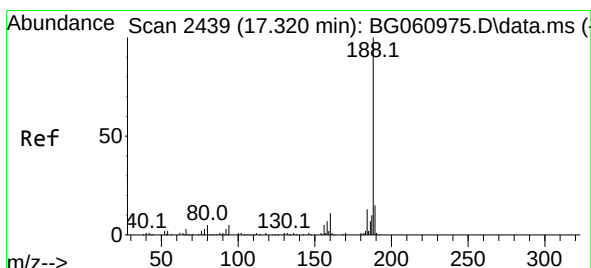
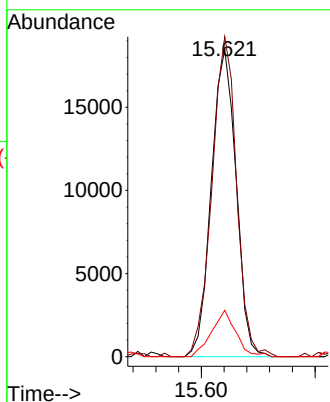
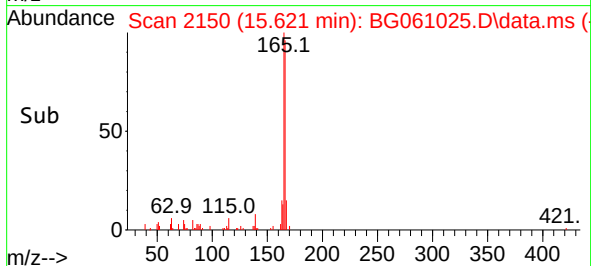
167 15.1 10.5 15.7

Manual Integrations

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Reviewed By :Yogesh Patel 04/26/2024

Supervised By :mohammad ahmed 04/27/2024



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.319 min Scan# 2439

Delta R.T. -0.002 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

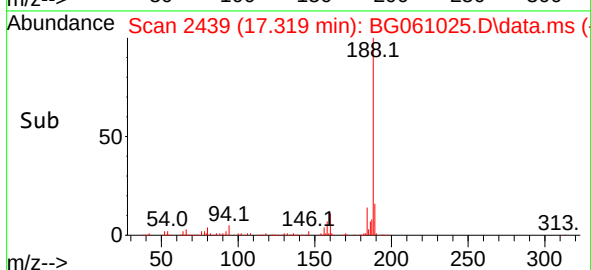
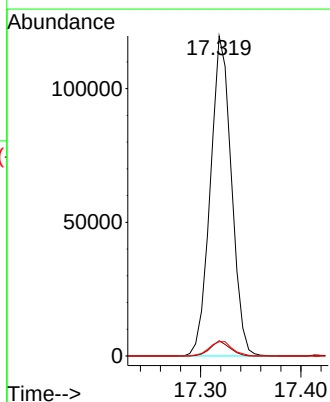
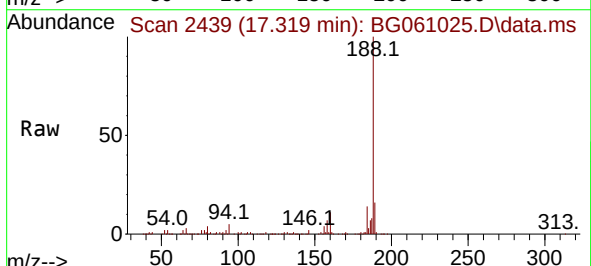
Tgt Ion:188 Resp: 174523

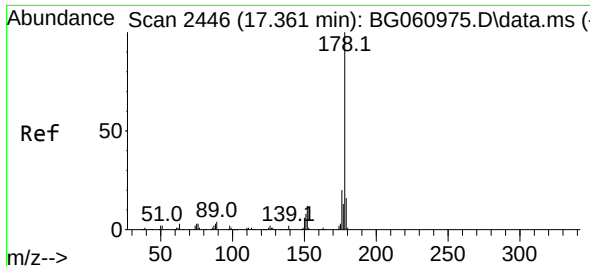
Ion Ratio Lower Upper

188 100

94 4.8 4.1 6.1

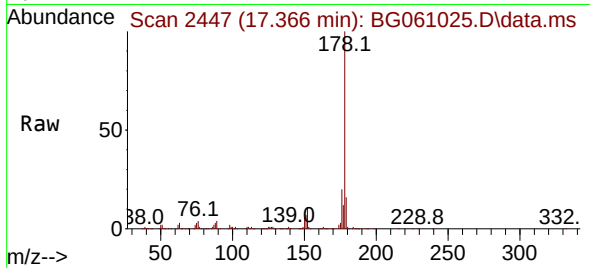
80 4.9 4.0 6.0





#71
Phenanthrene
Concen: 45.248 ng
RT: 17.366 min Scan# 2446
Delta R.T. 0.005 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42

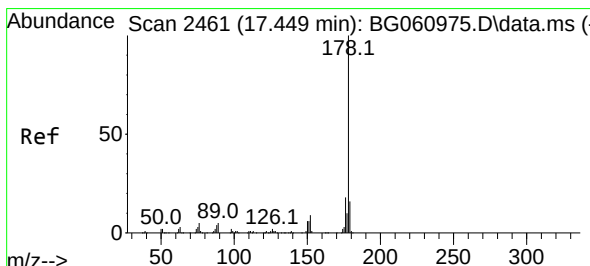
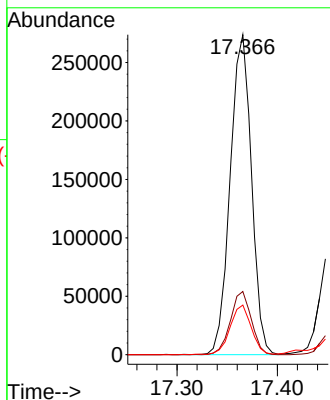
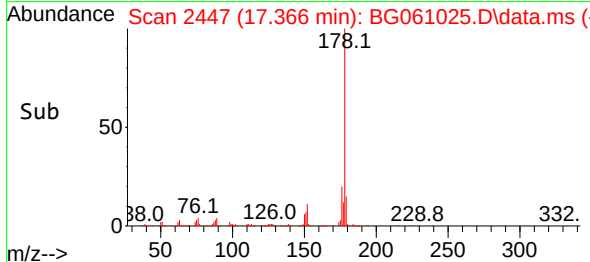
Instrument :
BNA_G
ClientSampleId :
EXCAVATION-SOIL



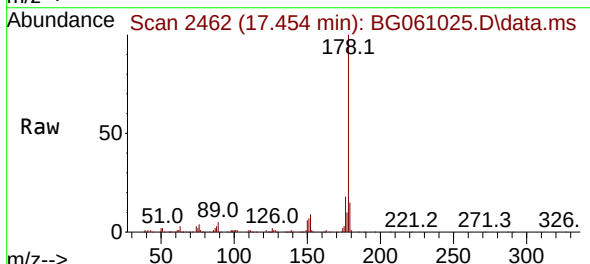
Tgt Ion:178 Resp: 403070
Ion Ratio Lower Upper
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176 19.8 16.0 24.0
179 15.5 12.5 18.7

Manual Integrations
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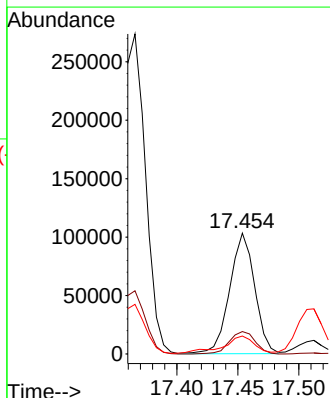
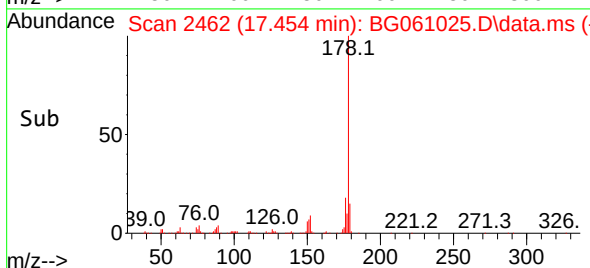
Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024

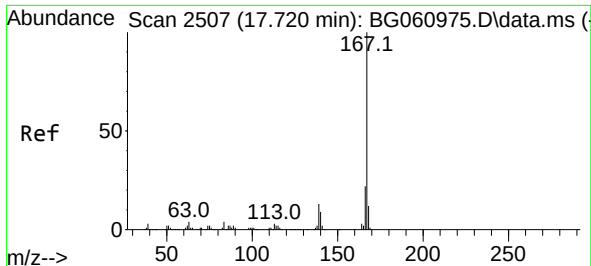


#72
Anthracene
Concen: 16.117 ng
RT: 17.454 min Scan# 2462
Delta R.T. 0.004 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42



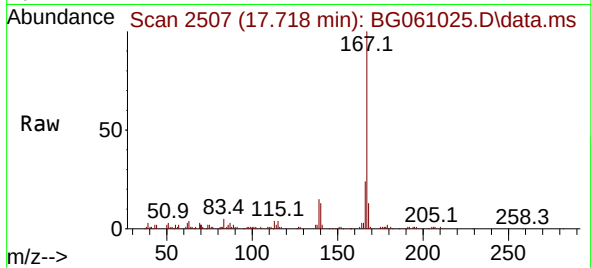
Tgt Ion:178 Resp: 147872
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 14.9 12.4 18.6





#73
 Carbazole
 Concen: 7.604 ng
 RT: 17.718 min Scan# 21
 Delta R.T. -0.002 min
 Lab File: BG061025.D
 Acq: 24 Apr 2024 14:42

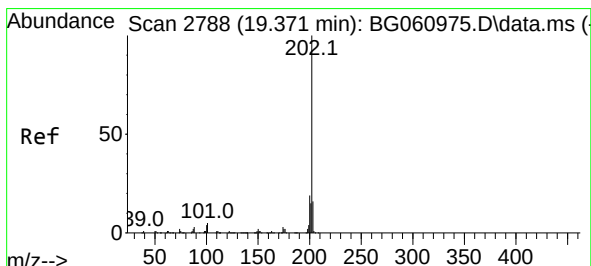
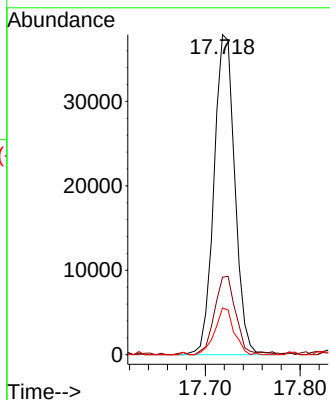
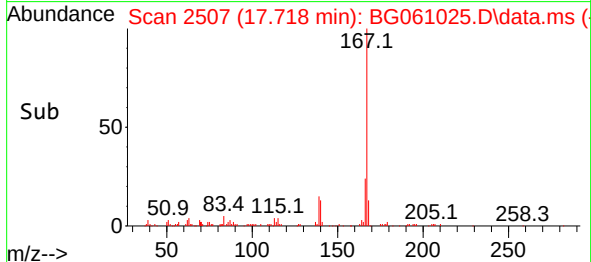
Instrument :
 BNA_G
 ClientSampleId :
 EXCAVATION-SOIL



Tgt Ion:167 Resp: 57939
 Ion Ratio Lower Upper
 167 100
 166 24.2 17.8 26.8
 139 14.6 10.2 15.2

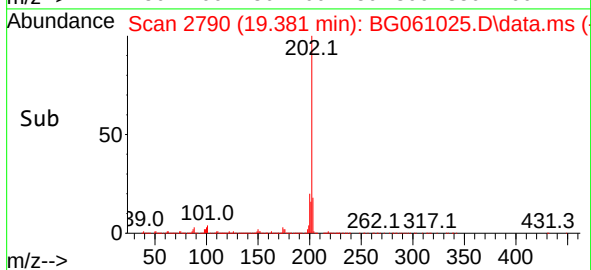
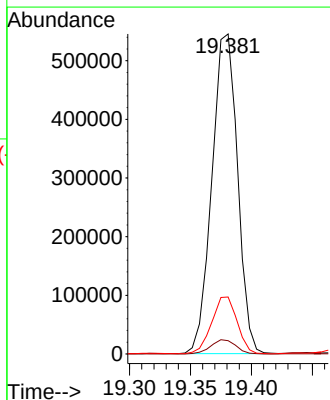
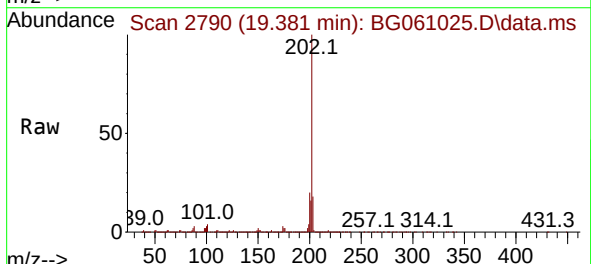
Manual Integrations
 APPROVED

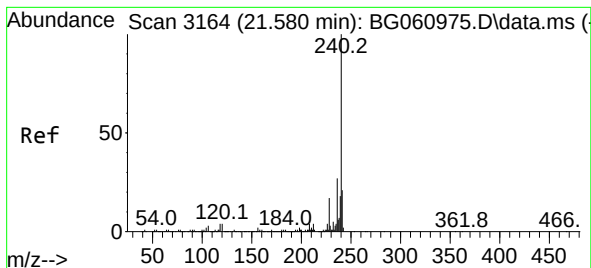
Reviewed By :Yogesh Patel 04/26/2024
 Supervised By :mohammad ahmed 04/27/2024



#75
 Fluoranthene
 Concen: 67.621 ng
 RT: 19.381 min Scan# 2790
 Delta R.T. 0.010 min
 Lab File: BG061025.D
 Acq: 24 Apr 2024 14:42

Tgt Ion:202 Resp: 799440
 Ion Ratio Lower Upper
 202 100
 101 4.2 0.0 24.9
 203 17.8 0.0 36.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.584 min Scan# 3164

Delta R.T. 0.004 min

Lab File: BG061025.D

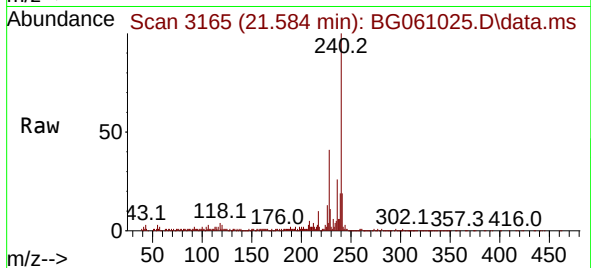
Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL



Tgt Ion:240 Resp: 179970

Ion Ratio Lower Upper

240 100

120 3.3 3.0 4.6

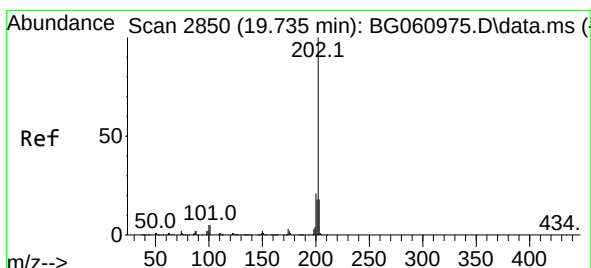
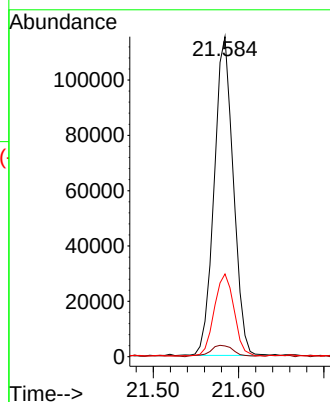
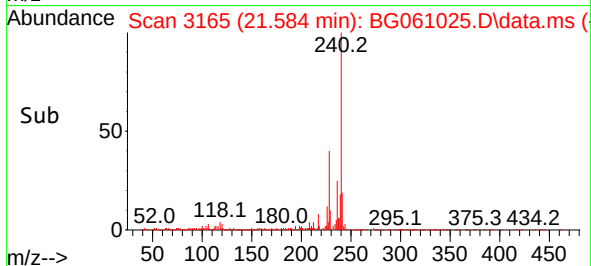
236 25.9 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/26/2024

Supervised By :mohammad ahmed 04/27/2024



#78

Pyrene

Concen: 54.435 ng

RT: 19.739 min Scan# 2851

Delta R.T. 0.004 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

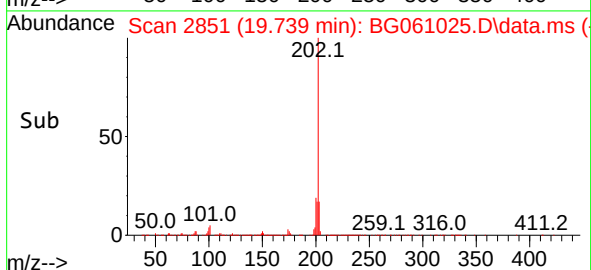
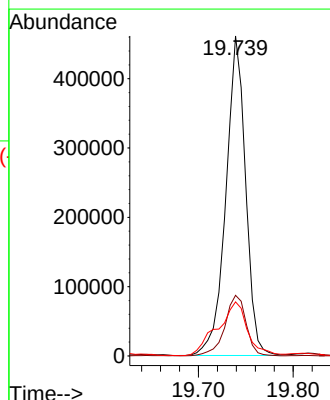
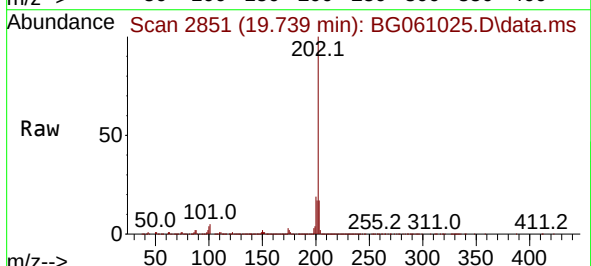
Tgt Ion:202 Resp: 667057

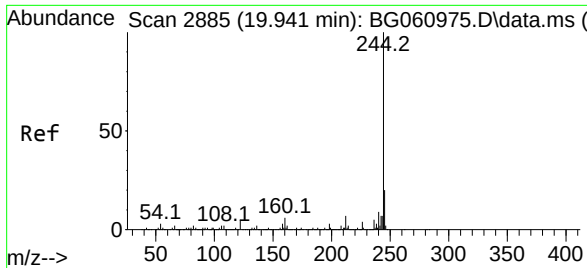
Ion Ratio Lower Upper

202 100

200 19.0 16.8 25.2

203 16.9 14.2 21.2





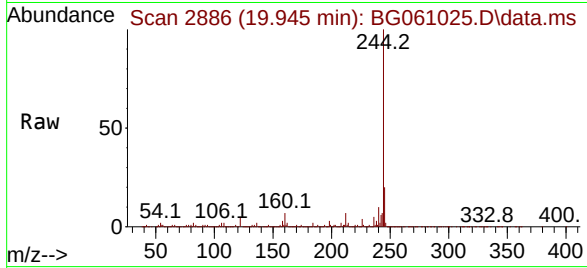
#79
 Terphenyl-d14
 Concen: 59.320 ng
 RT: 19.945 min Scan# 21
 Delta R.T. 0.004 min
 Lab File: BG061025.D
 Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL



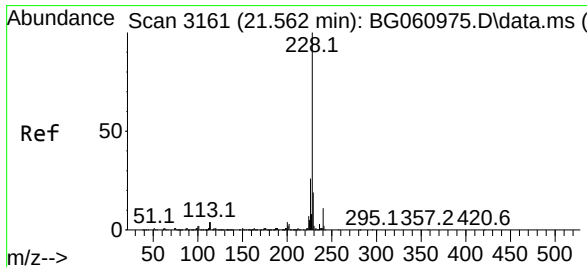
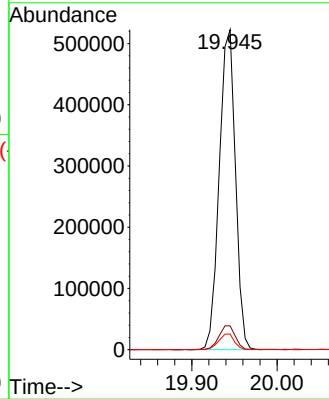
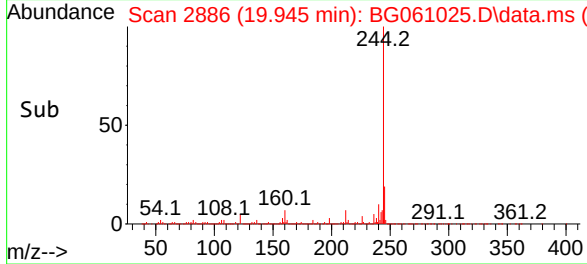
Tgt Ion:244 Resp: 68777
 Ion Ratio Lower Upper
 244 100
 212 7.4 5.9 8.9
 122 4.9 4.2 6.2

Manual Integrations

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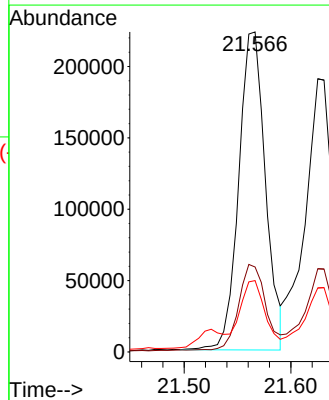
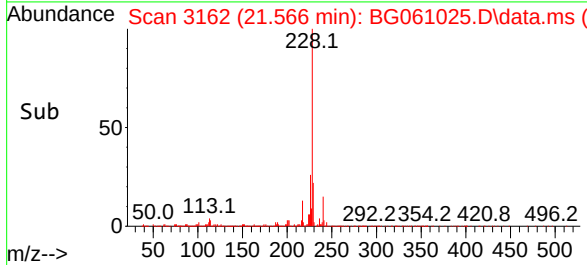
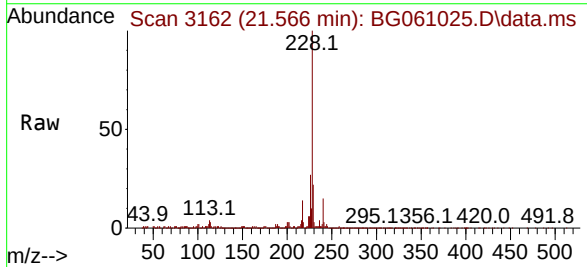
Reviewed By :Yogesh Patel 04/26/2024

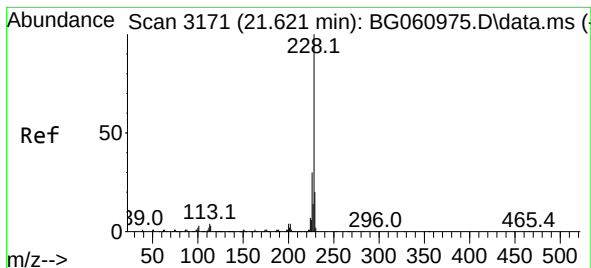
Supervised By :mohammad ahmed 04/27/2024



#81
 Benzo(a)anthracene
 Concen: 30.716 ng
 RT: 21.566 min Scan# 3162
 Delta R.T. 0.004 min
 Lab File: BG061025.D
 Acq: 24 Apr 2024 14:42

Tgt Ion:228 Resp: 388652
 Ion Ratio Lower Upper
 228 100
 226 26.6 21.0 31.4
 229 22.3 15.0 22.4





#83

Chrysene

Concen: 28.679 ng

RT: 21.625 min Scan# 3172

Delta R.T. 0.004 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

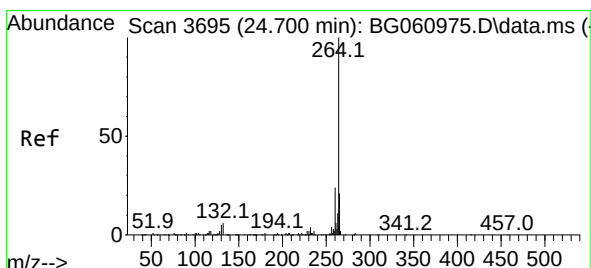
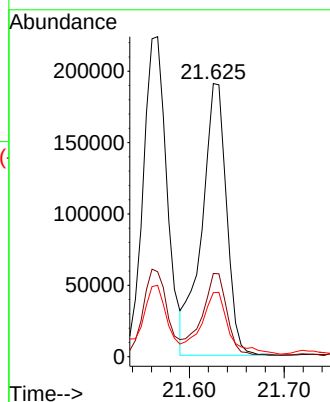
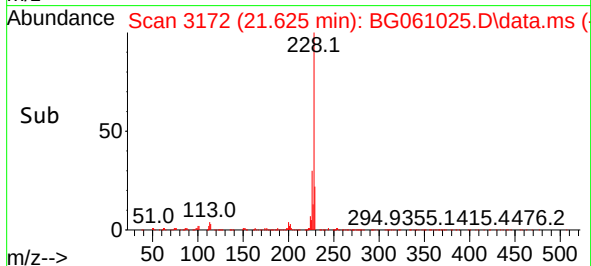
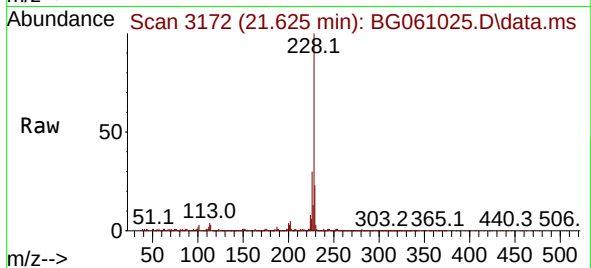
EXCAVATION-SOIL

Tgt Ion:228 Resp: 345484
Ion Ratio Lower Upper
228 100
226 30.5 24.2 36.2
229 23.4 15.7 23.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024



#86

Perylene-d12

Concen: 20.000 ng

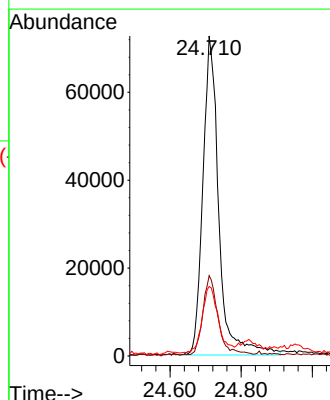
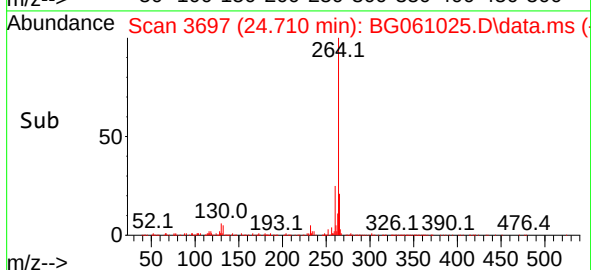
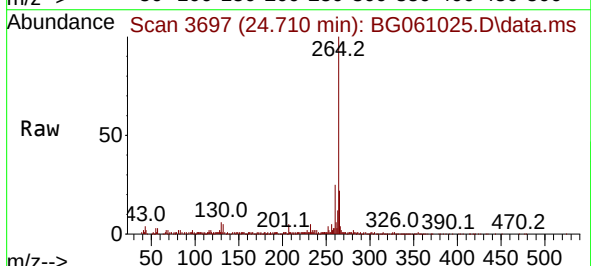
RT: 24.710 min Scan# 3697

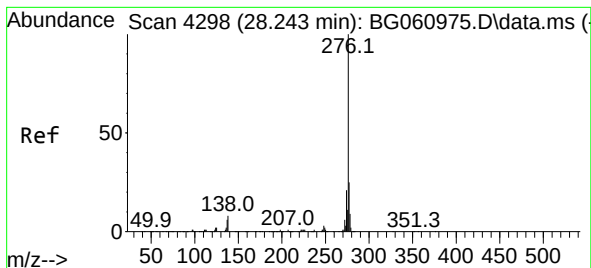
Delta R.T. 0.010 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Tgt Ion:264 Resp: 225475
Ion Ratio Lower Upper
264 100
260 25.1 19.4 29.2
265 21.7 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.248 ng

RT: 28.265 min Scan# 41

Delta R.T. 0.022 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Instrument :

BNA_G

ClientSampleId :

EXCAVATION-SOIL

Tgt Ion: 276 Resp: 97724

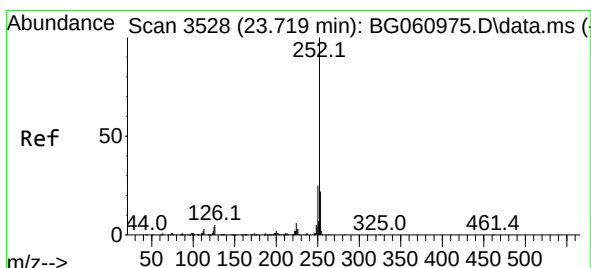
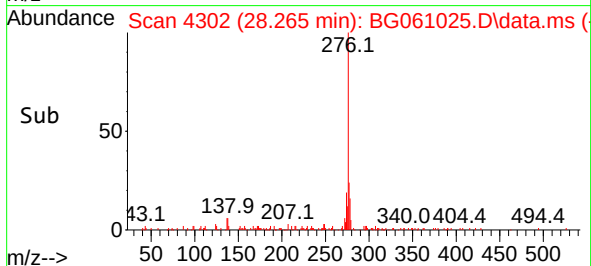
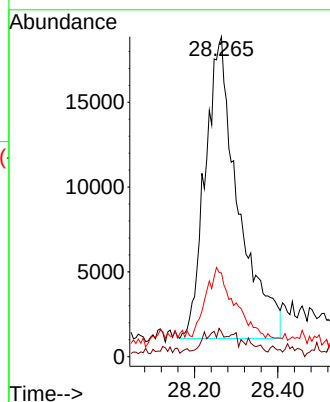
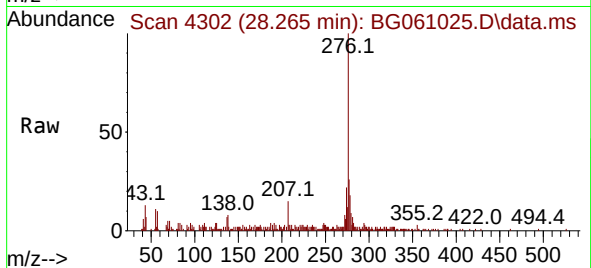
Ion	Ratio	Lower	Upper
276	100		
138	0.0	5.3	7.9
277	19.9	20.6	30.8

Manual Integrations

APPROVED

Reviewed By : Yogesh Patel 04/26/2024

Supervised By : mohammad ahmed 04/27/2024



#88

Benzo(b)fluoranthene

Concen: 26.145 ng

RT: 23.729 min Scan# 3530

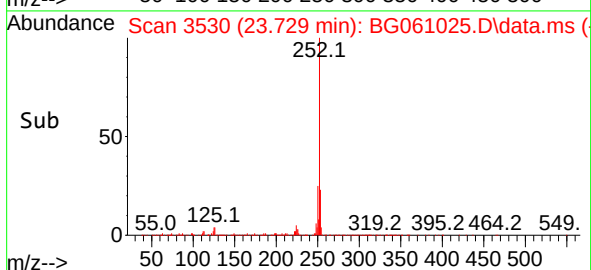
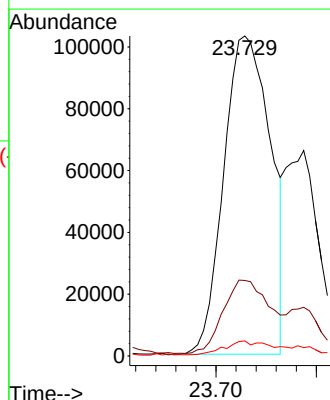
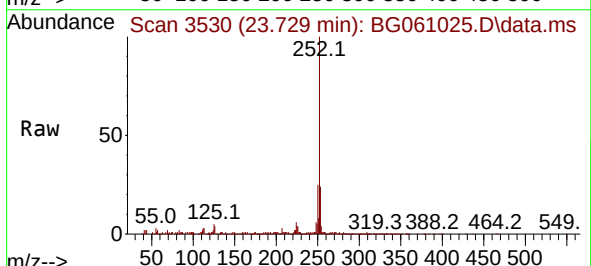
Delta R.T. 0.010 min

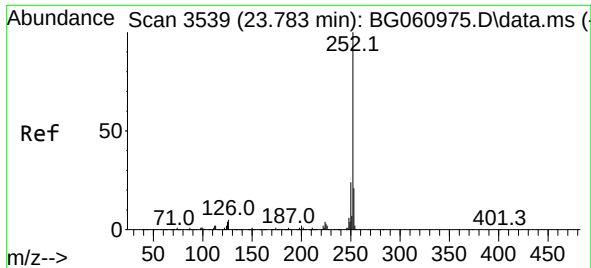
Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Tgt Ion: 252 Resp: 334068

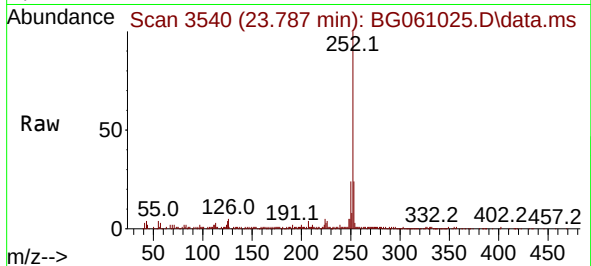
Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.5	26.3
125	4.7	3.3	4.9





#89
Benzo(k)fluoranthene
Concen: 12.366 ng m
RT: 23.787 min Scan# 3539
Delta R.T. 0.004 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42

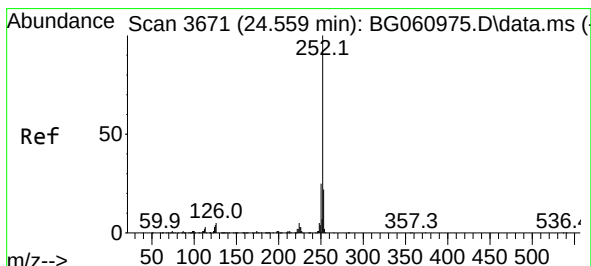
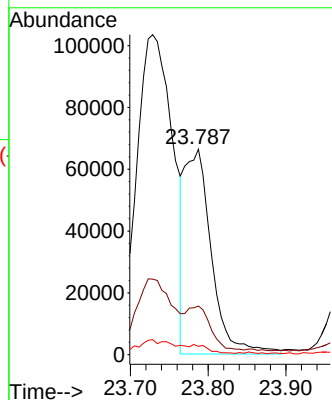
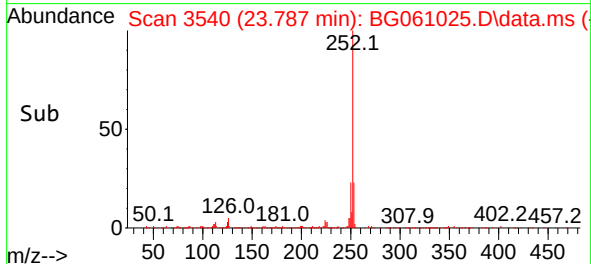
Instrument :
BNA_G
ClientSampleId :
EXCAVATION-SOIL



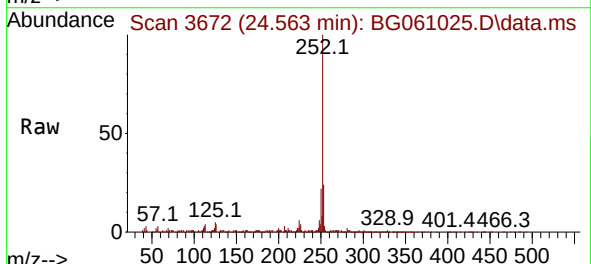
Tgt Ion:252 Resp: 15951
Ion Ratio Lower Upper
252 100
253 23.7 16.6 25.0
125 4.0 3.3 4.9

Manual Integrations
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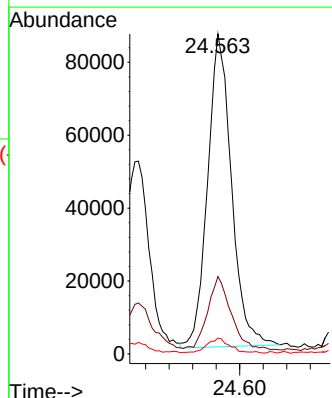
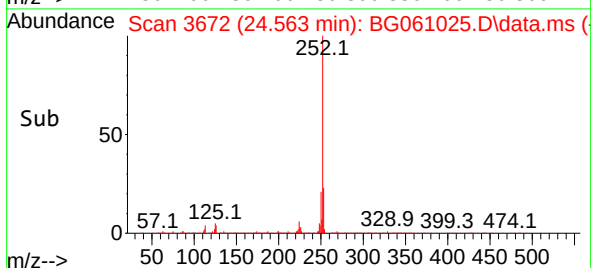
Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024

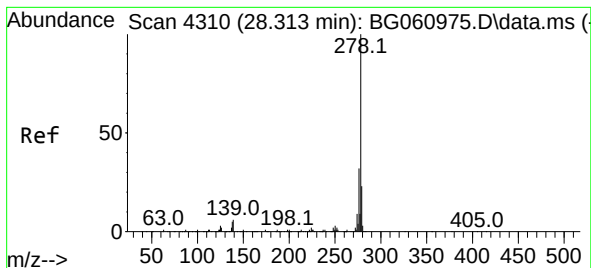


#90
Benzo(a)pyrene
Concen: 19.567 ng
RT: 24.563 min Scan# 3672
Delta R.T. 0.004 min
Lab File: BG061025.D
Acq: 24 Apr 2024 14:42



Tgt Ion:252 Resp: 242002
Ion Ratio Lower Upper
252 100
253 24.2 17.7 26.5
125 4.9 3.6 5.4





#91

Dibenzo(a,h)anthracene

Concen: 2.311 ng m

RT: 28.323 min Scan# 4310

Delta R.T. 0.010 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Instrument :

BNL_G

ClientSampleId :

EXCAVATION-SOIL

Tgt Ion:278 Resp: 2953

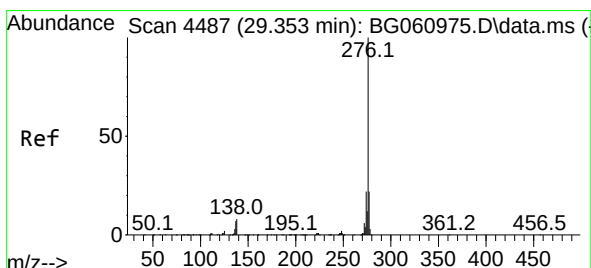
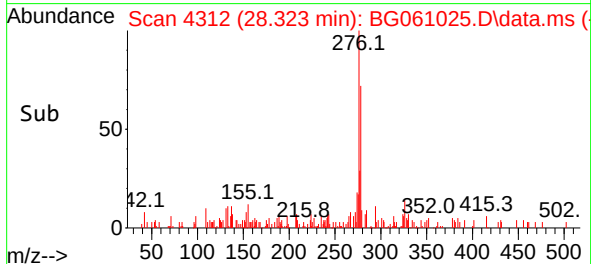
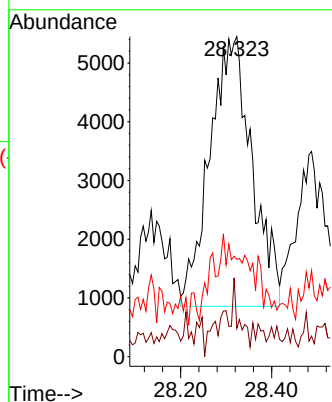
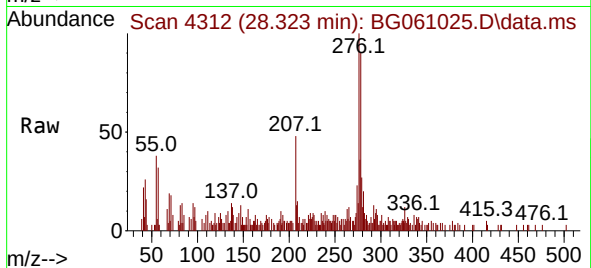
Ion	Ratio	Lower	Upper
278	100		
139	8.9	4.7	7.1
279	30.4	18.2	27.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/26/2024

Supervised By :mohammad ahmed 04/27/2024



#92

Benzo(g,h,i)perylene

Concen: 7.352 ng m

RT: 29.357 min Scan# 4488

Delta R.T. 0.004 min

Lab File: BG061025.D

Acq: 24 Apr 2024 14:42

Tgt Ion:276 Resp: 93162

Ion	Ratio	Lower	Upper
276	100		
277	27.4	18.0	27.0
138	9.7	6.5	9.7

