

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG112223\
 Data File : BG059845.D
 Acq On : 23 Nov 2023 9:56
 Operator : MA/JU
 Sample : 05445-04
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SOIL-2-1115

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/25/2023
 Supervised By :mohammad ahmed 11/25/2023

Quant Time: Nov 24 00:18:47 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 17 01:51:38 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.332	152	24024	20.000	ng	#-0.01
21) Naphthalene-d8	11.176	136	116182	20.000	ng	#-0.02
39) Acenaphthene-d10	14.959	164	95752	20.000	ng	-0.01
64) Phenanthrene-d10	17.709	188	199225	20.000	ng	#-0.01
76) Chrysene-d12	22.045	240	150000	20.000	ng	0.00
86) Perylene-d12	25.635	264	181938	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.829	112	134889	94.504	ng	0.00
7) Phenol-d6	7.457	99	204383	96.627	ng	0.00
23) Nitrobenzene-d5	9.531	82	211395	69.491	ng	-0.01
42) 2,4,6-Tribromophenol	16.452	330	116529	107.259	ng	0.00
45) 2-Fluorobiphenyl	13.579	172	395709	55.627	ng	-0.02
79) Terphenyl-d14	20.289	244	500822	49.289	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.229	128	35014	5.993	ng	# 95
71) Phenanthrene	17.756	178	140948	13.915	ng	# 91
72) Anthracene	17.844	178	36149	3.435	ng	# 92
73) Carbazole	18.120	167	24113	2.623	ng	# 89
75) Fluoranthene	19.760	202	256789	21.140	ng	94
78) Pyrene	20.118	202	195089	19.115	ng	98
81) Benzo(a)anthracene	22.022	228	118613	11.557	ng	94
83) Chrysene	22.092	228	119455m	12.697	ng	
87) Indeno(1,2,3-cd)pyrene	29.772	276	103497	7.518	ng	# 98
88) Benzo(b)fluoranthene	24.466	252	178145	17.865	ng	# 99
89) Benzo(k)fluoranthene	24.531	252	59489m	6.034	ng	
90) Benzo(a)pyrene	25.459	252	128166m	12.043	ng	
92) Benzo(g,h,i)perylene	31.088	276	94855	8.583	ng	# 89

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

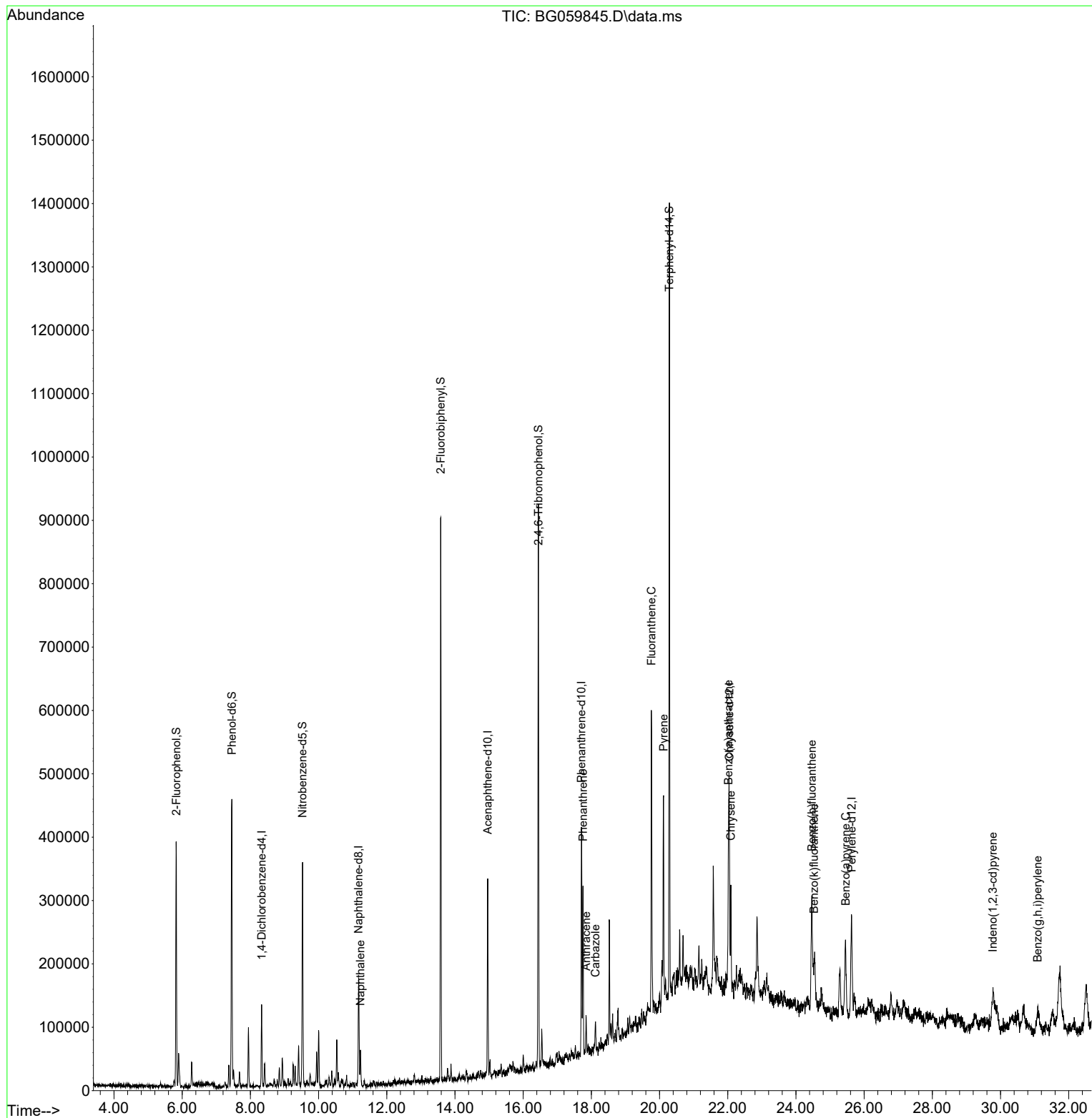
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Data File : BG059845.D
Acq On : 23 Nov 2023 9:56
Operator : MA/JU
Sample : 05445-04
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ALS Vial : 27 Sample Multiplier: 1

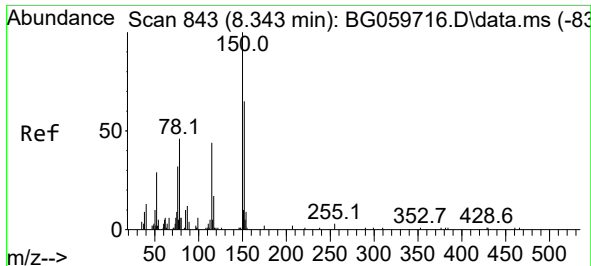
Instrument :
BNA_G
ClientSampleId :
SOIL-2-1115

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Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG11623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 17 01:51:38 2023
Response via : Initial Calibration

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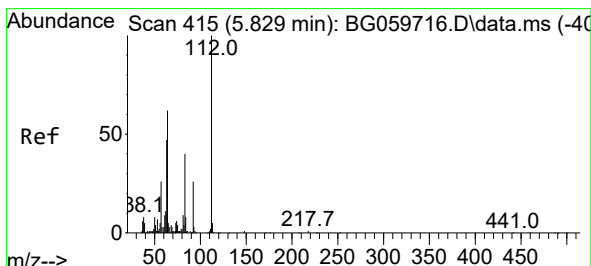
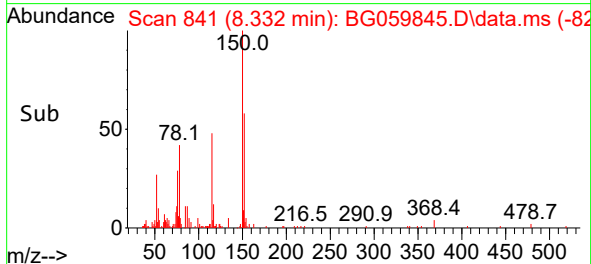
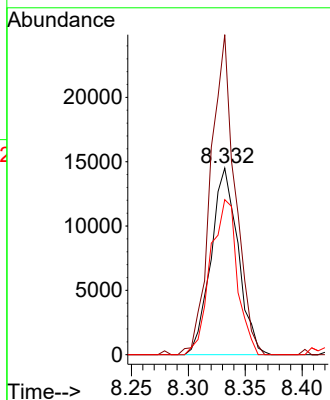
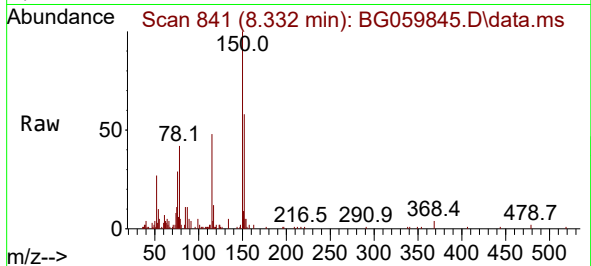
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1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.332 min Scan# 843
Delta R.T. -0.011 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Instrument :
BNA_G
ClientSampleId :
SOIL-2-1115

Tgt Ion:152 Resp: 24024
Ion Ratio Lower Upper
152 100
150 171.5 122.2 183.4
115 83.1 54.2 81.4

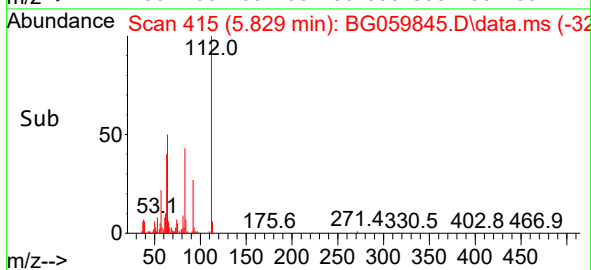
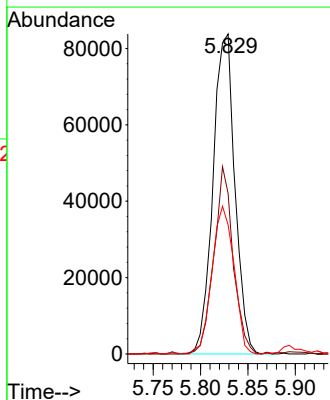
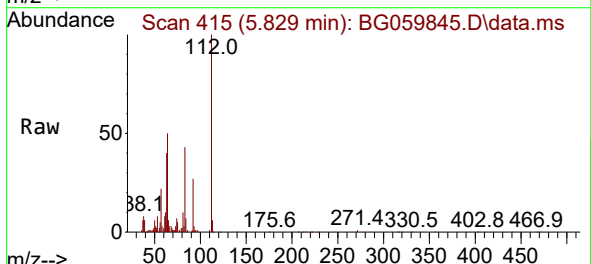
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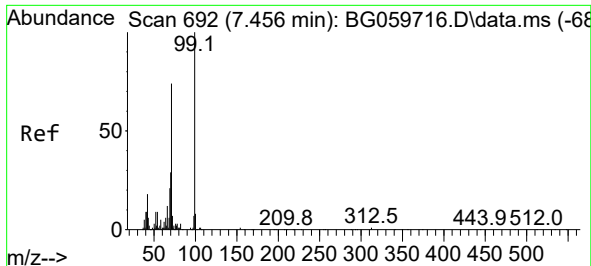
Reviewed By :Yogesh Patel 11/25/2023
Supervised By :mohammad ahmed 11/25/2023



#5
2-Fluorophenol
Concen: 94.504 ng
RT: 5.829 min Scan# 415
Delta R.T. 0.000 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

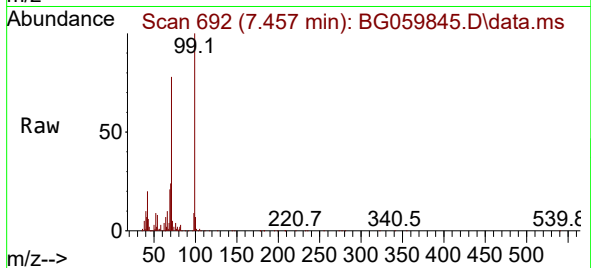
Tgt Ion:112 Resp: 134889
Ion Ratio Lower Upper
112 100
64 50.2 49.5 74.3
63 40.4 37.4 56.2





#7
Phenol-d6
Concen: 96.627 ng
RT: 7.457 min Scan# 692
Delta R.T. 0.000 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

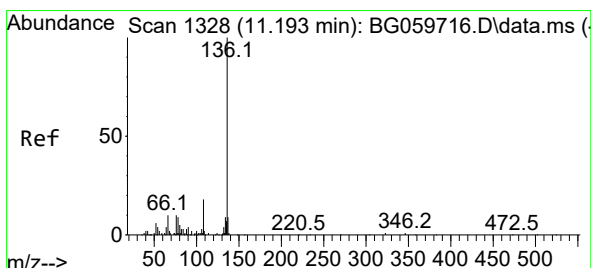
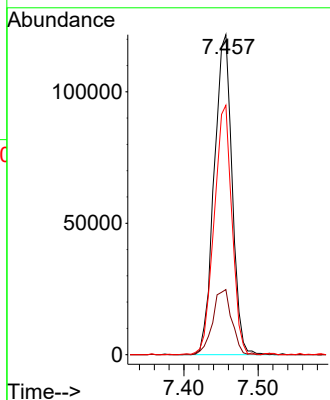
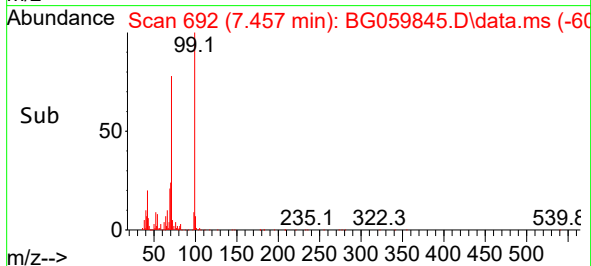
Instrument :
BNA_G
ClientSampleId :
SOIL-2-1115



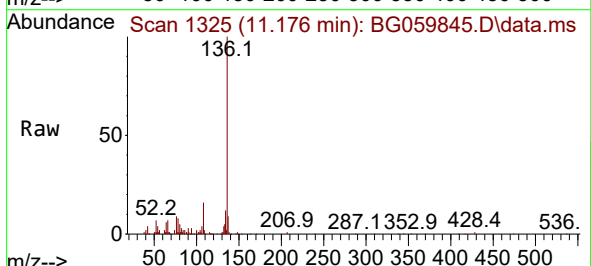
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Ion Ratio Lower Upper
99 100
42 20.4 14.3 21.5
71 78.0 59.3 88.9

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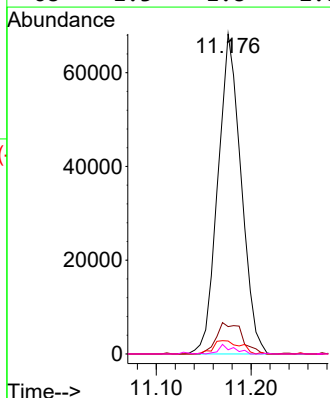
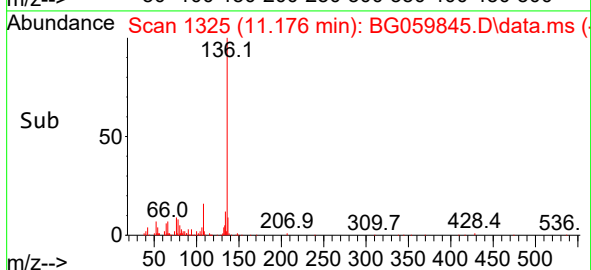
Reviewed By :Yogesh Patel 11/25/2023
Supervised By :mohammad ahmed 11/25/2023

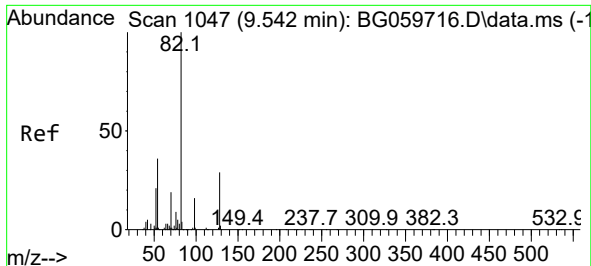


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.176 min Scan# 1325
Delta R.T. -0.017 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56



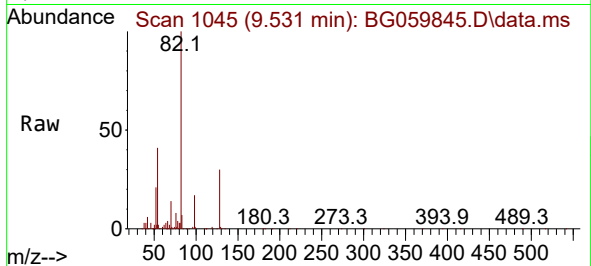
Tgt Ion:136 Resp: 116182
Ion Ratio Lower Upper
136 100
137 8.5 7.4 11.0
54 4.0 3.1 4.7
68 1.3 1.8 2.8





#23
Nitrobenzene-d5
Concen: 69.491 ng
RT: 9.531 min Scan# 1045
Delta R.T. -0.011 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

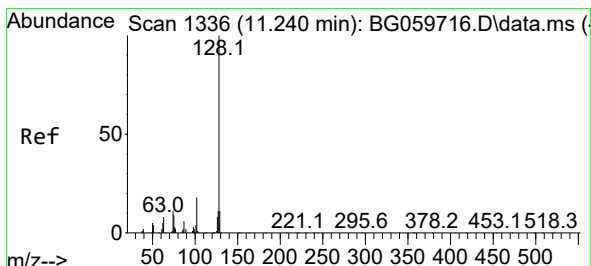
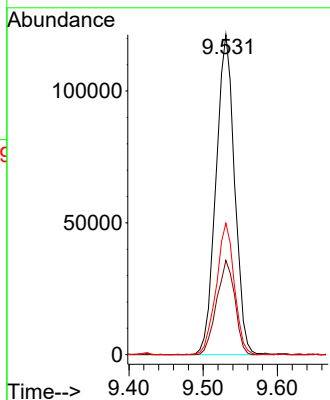
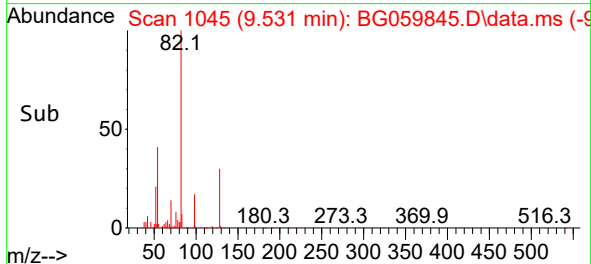
Instrument :
BNA_G
ClientSampleId :
SOIL-2-1115



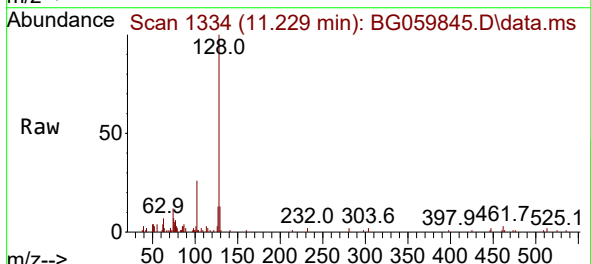
Tgt Ion: 82 Resp: 21139
Ion Ratio Lower Upper
82 100
128 29.5 23.0 34.6
54 41.1 28.7 43.1

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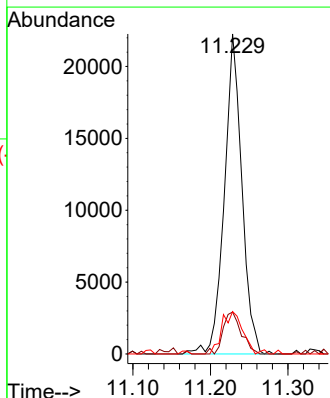
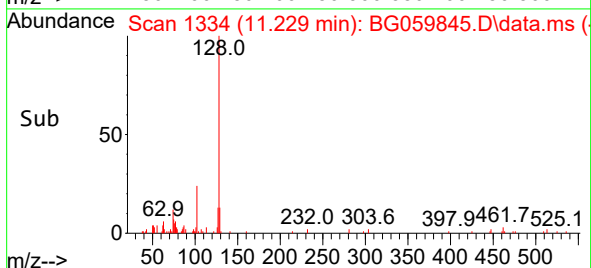
Reviewed By :Yogesh Patel 11/25/2023
Supervised By :mohammad ahmed 11/25/2023

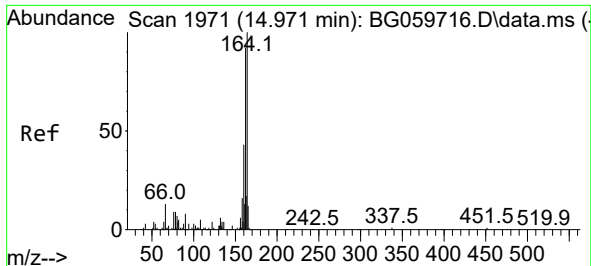


#31
Naphthalene
Concen: 5.993 ng
RT: 11.229 min Scan# 1334
Delta R.T. -0.011 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56



Tgt Ion:128 Resp: 35014
Ion Ratio Lower Upper
128 100
129 13.1 8.7 13.1#
127 13.2 9.2 13.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.959 min Scan# 1971
Delta R.T. -0.011 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Instrument :

BNA_G

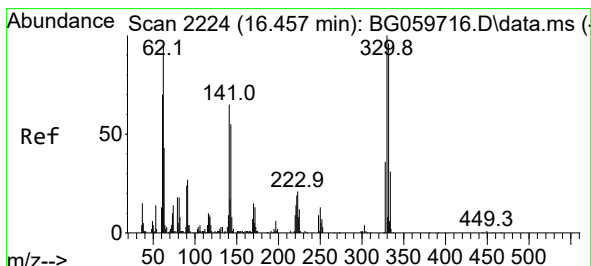
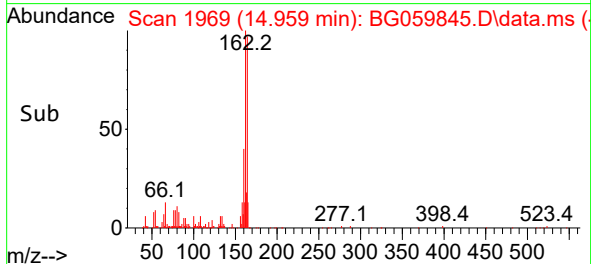
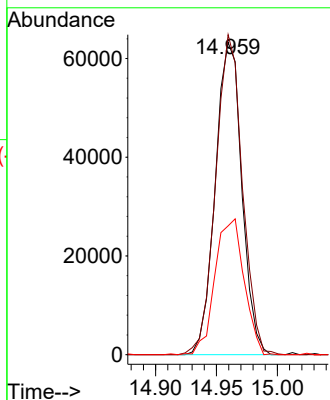
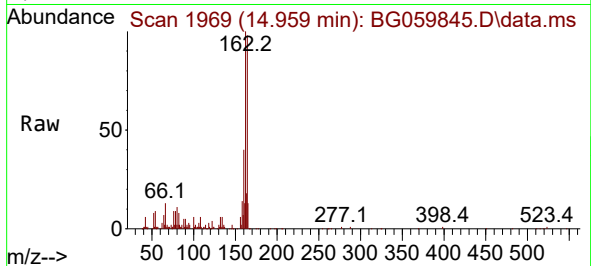
ClientSampleId :

SOIL-2-1115

Tgt Ion:164 Resp: 95752
Ion Ratio Lower Upper
164 100
162 102.4 73.3 109.9
160 41.3 34.1 51.1

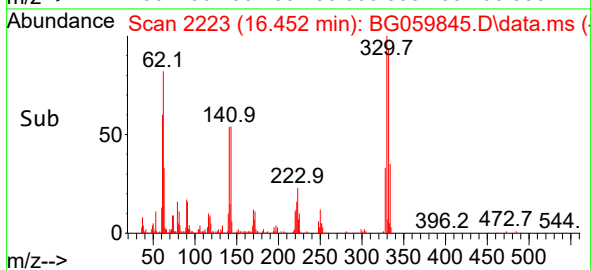
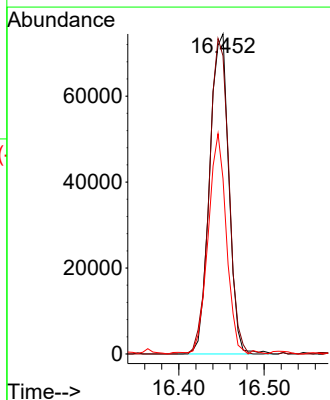
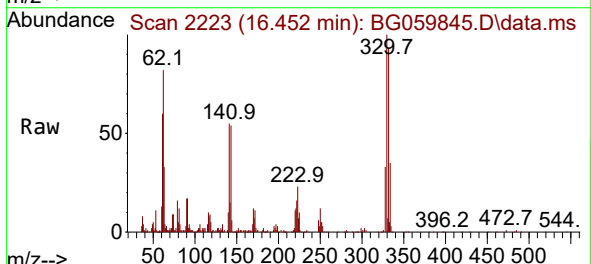
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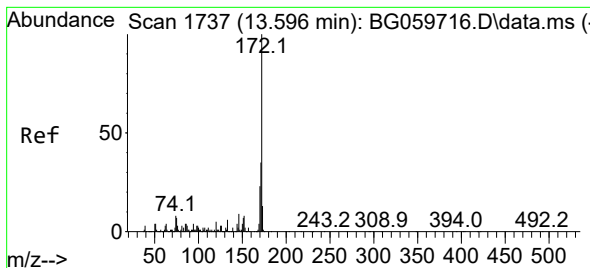
Reviewed By :Yogesh Patel 11/25/2023
Supervised By :mohammad ahmed 11/25/2023



#42
2,4,6-Tribromophenol
Concen: 107.259 ng
RT: 16.452 min Scan# 2223
Delta R.T. -0.006 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Tgt Ion:330 Resp: 116529
Ion Ratio Lower Upper
330 100
332 100.2 73.3 109.9
141 65.2 52.1 78.1





#45
2-Fluorobiphenyl
Concen: 55.627 ng
RT: 13.579 min Scan# 1734
Delta R.T. -0.017 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Instrument :

BNA_G

ClientSampleId :

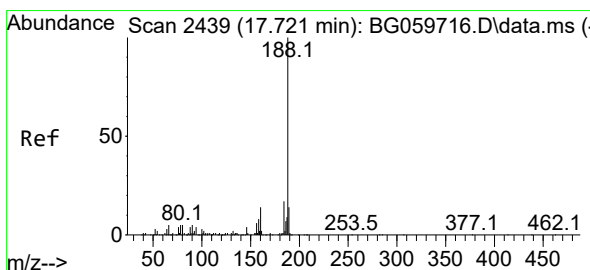
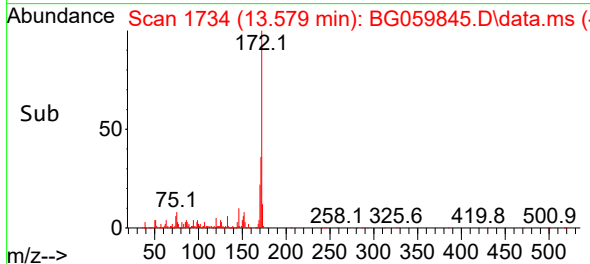
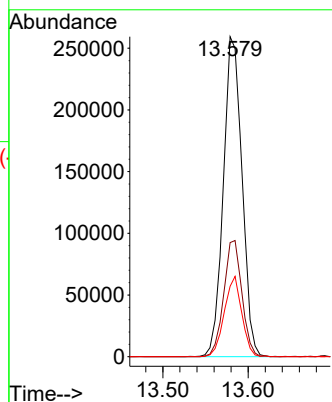
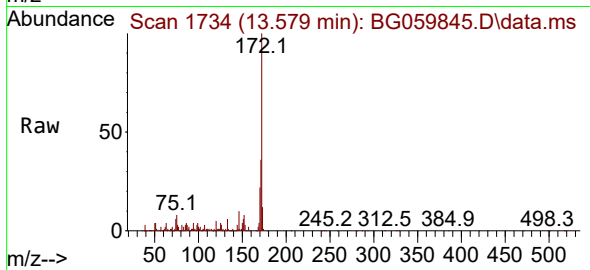
SOIL-2-1115

Tgt Ion:172 Resp: 395709
Ion Ratio Lower Upper
172 100
171 35.6 27.7 41.5
170 22.0 18.4 27.6

Manual Integrations

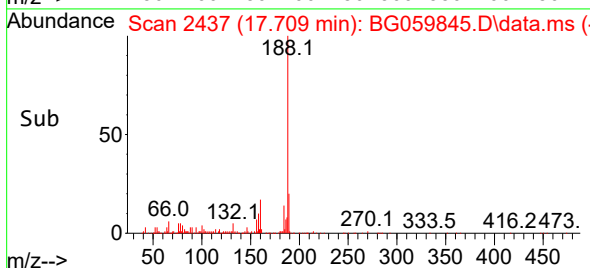
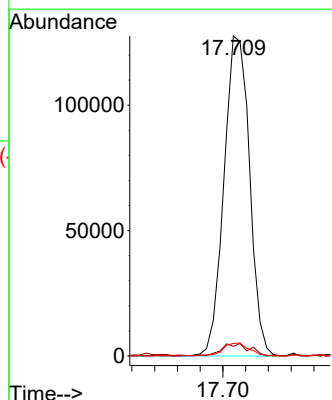
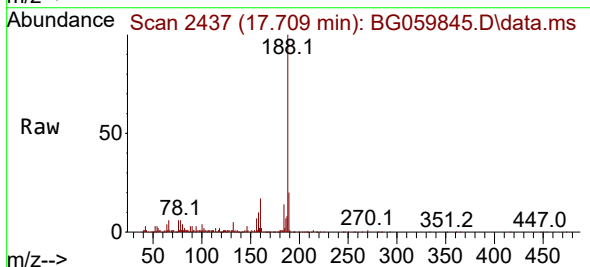
APPROVED

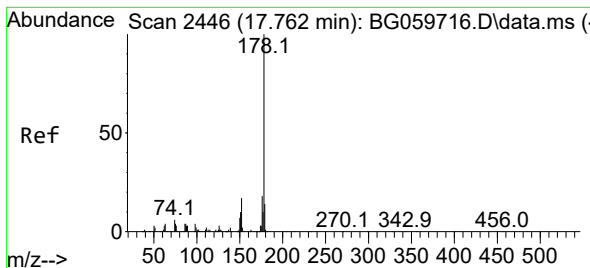
Reviewed By :Yogesh Patel 11/25/2023
Supervised By :mohammad ahmed 11/25/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.709 min Scan# 2437
Delta R.T. -0.011 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Tgt Ion:188 Resp: 199225
Ion Ratio Lower Upper
188 100
94 3.0 3.0 4.4
80 3.9 4.2 6.4





#71

Phenanthrene

Concen: 13.915 ng

RT: 17.756 min Scan# 24

Delta R.T. -0.006 min

Lab File: BG059845.D

Acq: 23 Nov 2023 9:56

Instrument :

BNA_G

ClientSampleId :

SOIL-2-1115

Tgt Ion:178 Resp: 14094

Ion Ratio Lower Upper

178 100

176 23.6 14.5 21.7

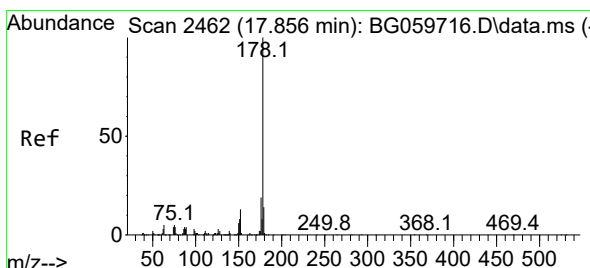
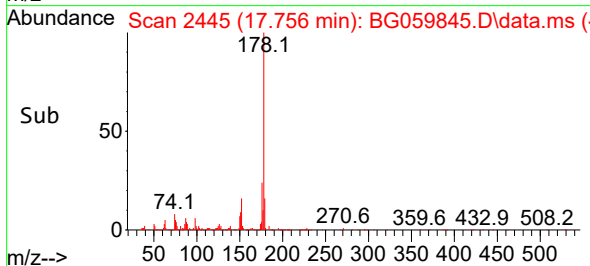
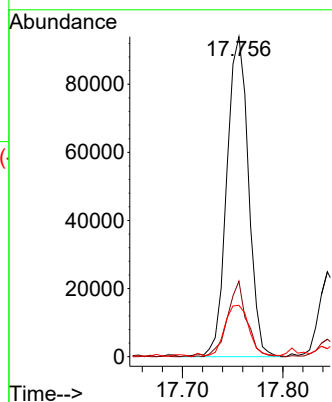
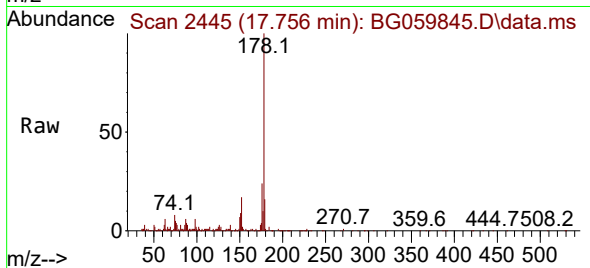
179 16.1 11.2 16.8

Manual Integrations

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Reviewed By :Yogesh Patel 11/25/2023

Supervised By :mohammad ahmed 11/25/2023



#72

Anthracene

Concen: 3.435 ng

RT: 17.844 min Scan# 2460

Delta R.T. -0.011 min

Lab File: BG059845.D

Acq: 23 Nov 2023 9:56

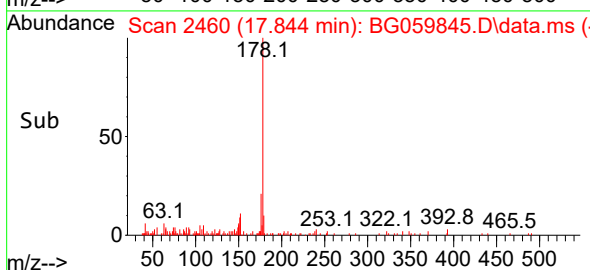
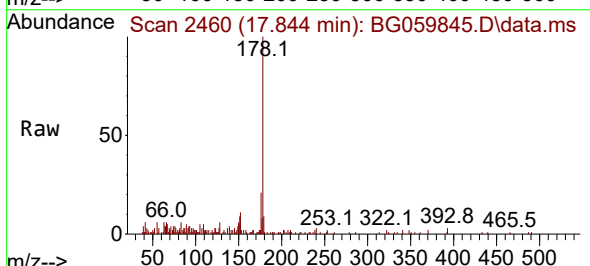
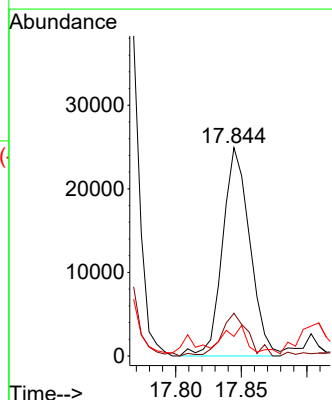
Tgt Ion:178 Resp: 36149

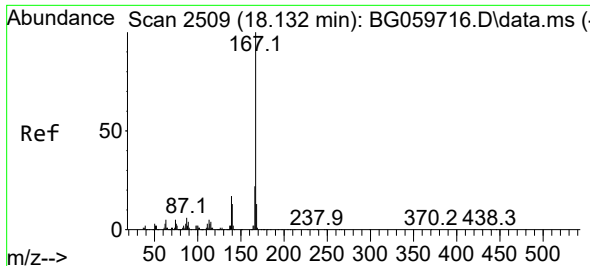
Ion Ratio Lower Upper

178 100

176 20.5 15.0 22.4

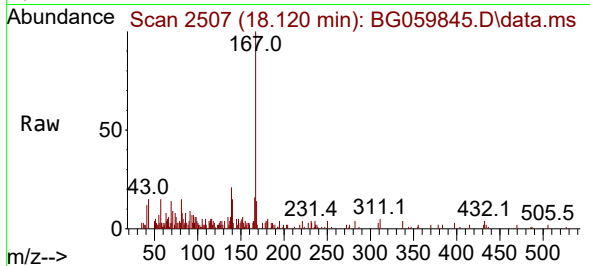
179 9.4 11.5 17.3#





#73
 Carbazole
 Concen: 2.623 ng
 RT: 18.120 min Scan# 2507
 Delta R.T. -0.011 min
 Lab File: BG059845.D
 Acq: 23 Nov 2023 9:56

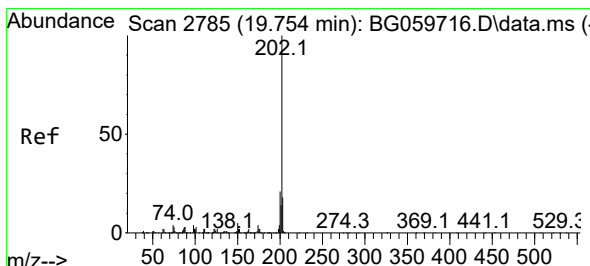
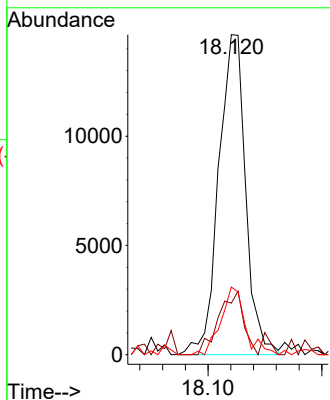
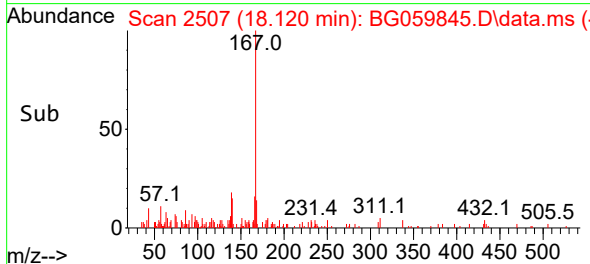
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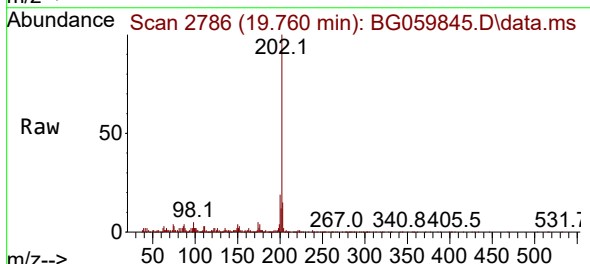
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 Ion Ratio Lower Upper
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 166 16.1 17.4 26.0
 139 21.2 13.2 19.8

Manual Integrations
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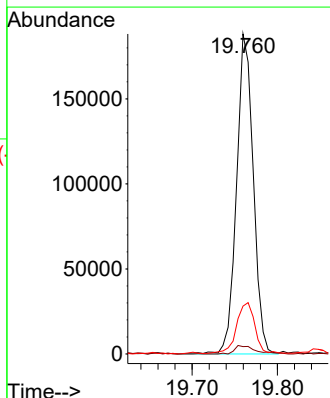
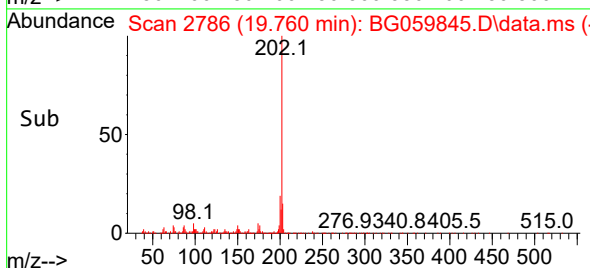
Reviewed By :Yogesh Patel 11/25/2023
 Supervised By :mohammad ahmed 11/25/2023

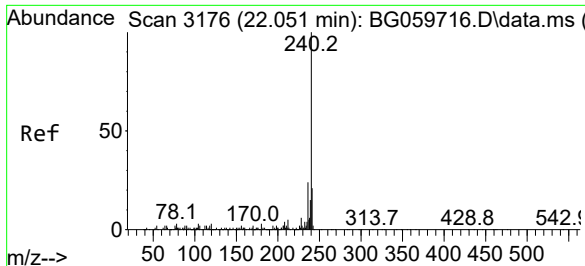


#75
 Fluoranthene
 Concen: 21.140 ng
 RT: 19.760 min Scan# 2786
 Delta R.T. 0.006 min
 Lab File: BG059845.D
 Acq: 23 Nov 2023 9:56



Tgt Ion:202 Resp: 256789
 Ion Ratio Lower Upper
 202 100
 101 2.3 0.0 22.7
 203 15.0 0.0 38.2





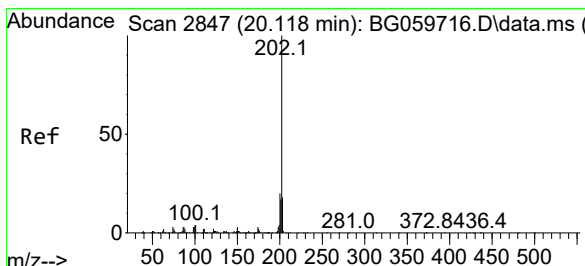
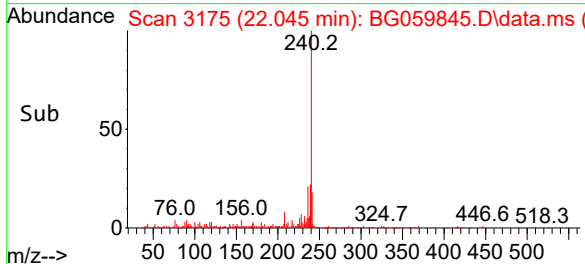
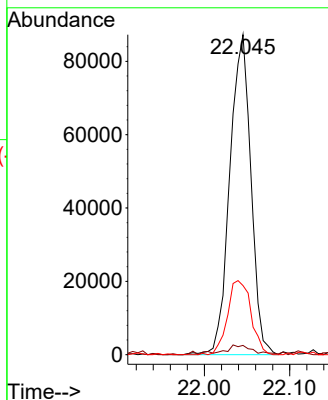
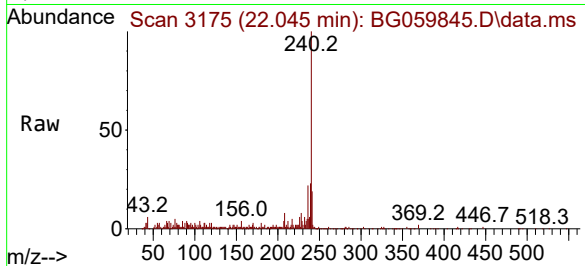
#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.045 min Scan# 3176
Delta R.T. -0.006 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Instrument :
BNA_G
ClientSampleId :
SOIL-2-1115

Tgt Ion:240 Resp: 150000
Ion Ratio Lower Upper
240 100
120 2.9 2.2 3.2
236 21.6 19.4 29.2

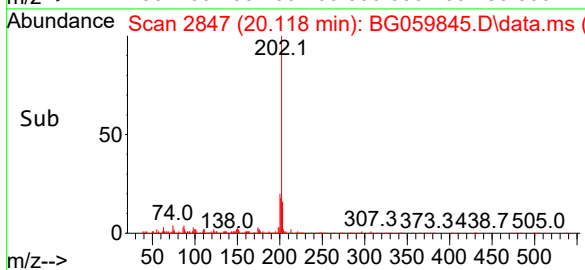
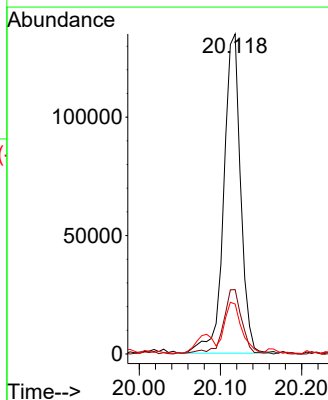
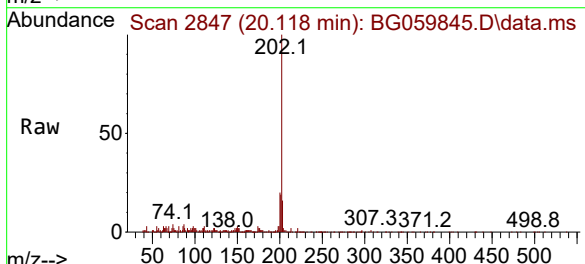
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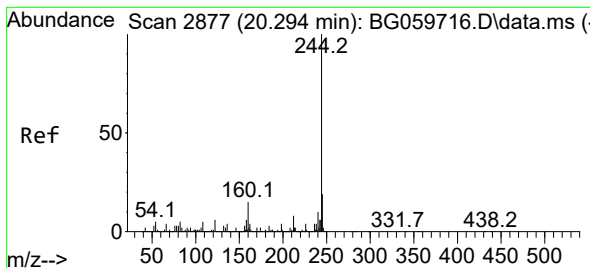
Reviewed By :Yogesh Patel 11/25/2023
Supervised By :mohammad ahmed 11/25/2023



#78
Pyrene
Concen: 19.115 ng
RT: 20.118 min Scan# 2847
Delta R.T. 0.000 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Tgt Ion:202 Resp: 195089
Ion Ratio Lower Upper
202 100
200 20.1 16.2 24.4
203 15.6 14.0 21.0





#79

Terphenyl-d14

Concen: 49.289 ng

RT: 20.289 min Scan# 21

Delta R.T. -0.006 min

Lab File: BG059845.D

Acq: 23 Nov 2023 9:56

Instrument :

BNA_G

ClientSampleId :

SOIL-2-1115

Tgt Ion:244 Resp: 50082

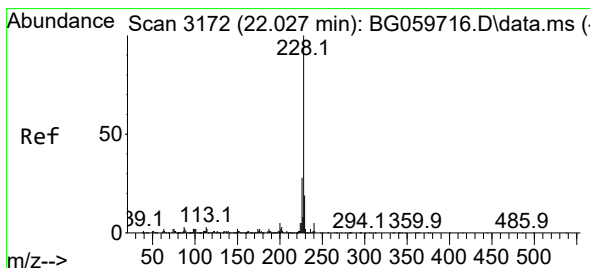
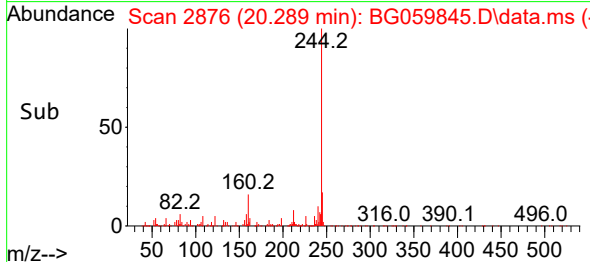
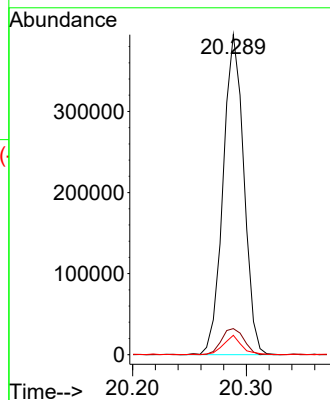
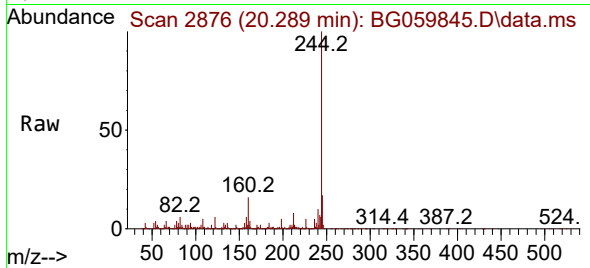
Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.6	10.0
122	6.0	4.4	6.6

Manual Integrations

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Reviewed By :Yogesh Patel 11/25/2023

Supervised By :mohammad ahmed 11/25/2023



#81

Benzo(a)anthracene

Concen: 11.557 ng

RT: 22.022 min Scan# 3171

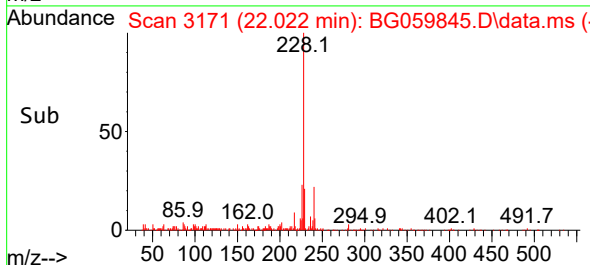
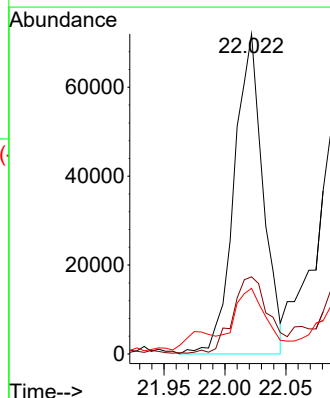
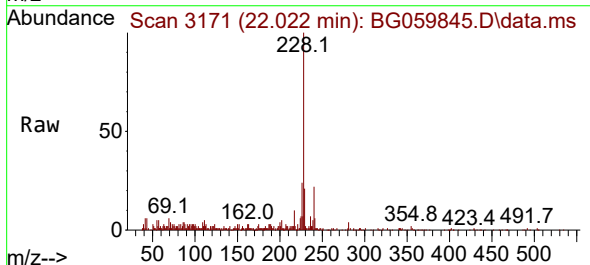
Delta R.T. -0.006 min

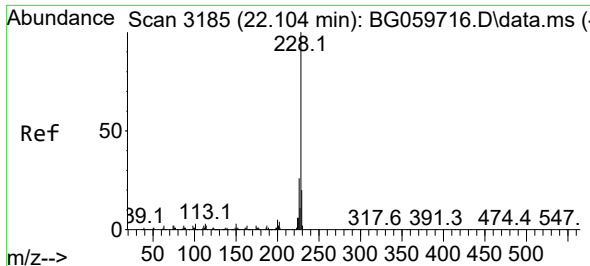
Lab File: BG059845.D

Acq: 23 Nov 2023 9:56

Tgt Ion:228 Resp: 118613

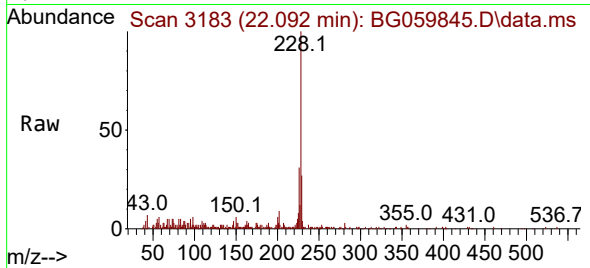
Ion	Ratio	Lower	Upper
228	100		
226	24.1	22.1	33.1
229	20.5	14.9	22.3





#83
Chrysene
Concen: 12.697 ng m
RT: 22.092 min Scan# 3183
Delta R.T. -0.011 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

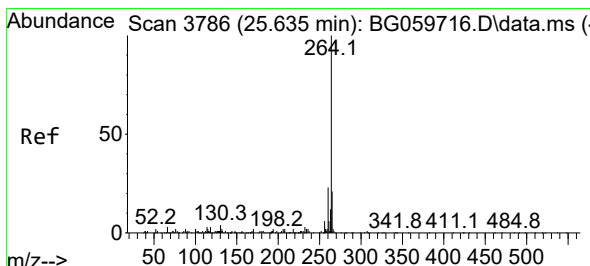
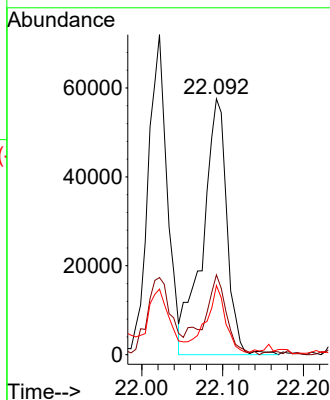
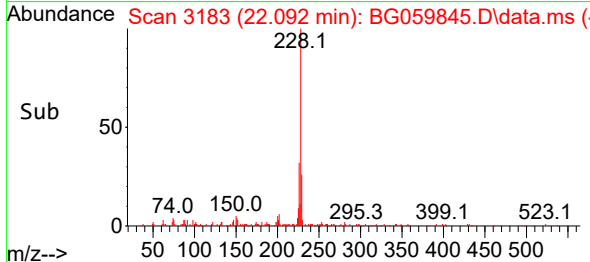
Instrument :
BNA_G
ClientSampleId :
SOIL-2-1115



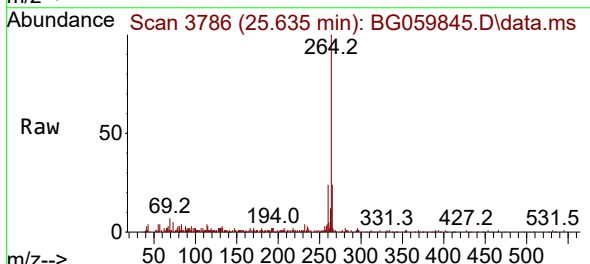
Tgt Ion:228 Resp: 11945
Ion Ratio Lower Upper
228 100
226 31.2 21.1 31.7
229 27.0 16.2 24.4

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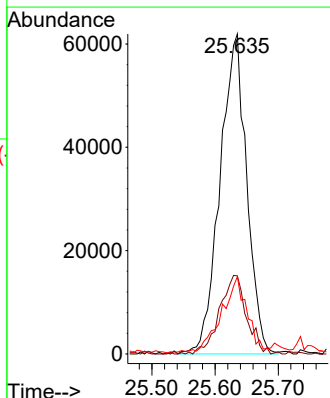
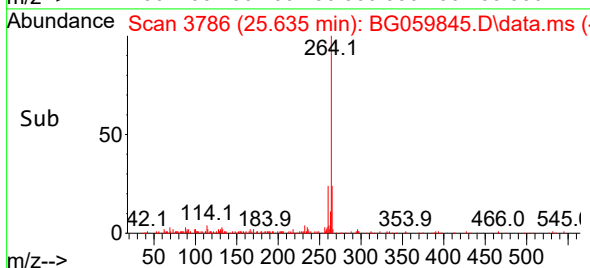
Reviewed By :Yogesh Patel 11/25/2023
Supervised By :mohammad ahmed 11/25/2023

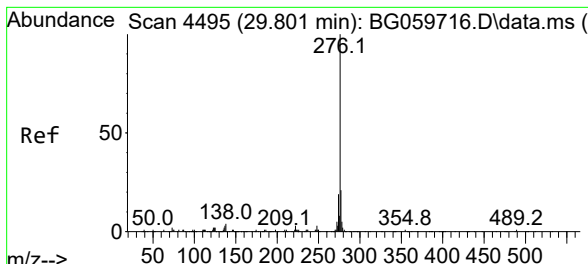


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.635 min Scan# 3786
Delta R.T. 0.000 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56



Tgt Ion:264 Resp: 181938
Ion Ratio Lower Upper
264 100
260 24.4 18.5 27.7
265 24.2 17.0 25.6





#87
 Indeno(1,2,3-cd)pyrene
 Concen: 7.518 ng
 RT: 29.772 min Scan# 4495
 Delta R.T. -0.029 min
 Lab File: BG059845.D
 Acq: 23 Nov 2023 9:56

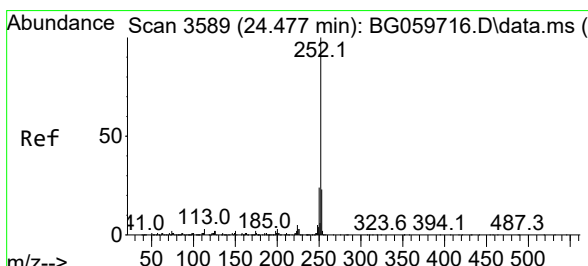
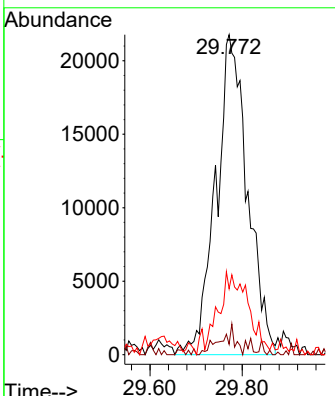
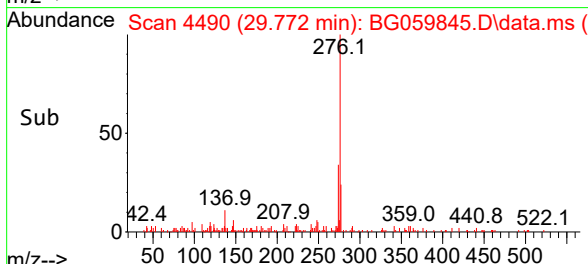
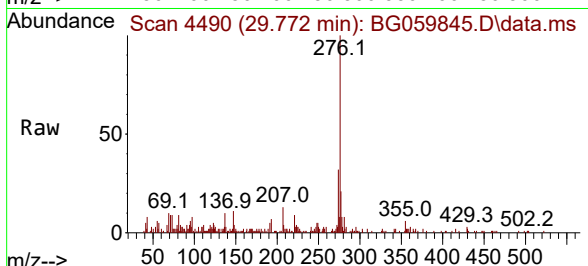
Instrument : BNA_G
 ClientSampleId : SOIL-2-1115

Tgt Ion: 276 Resp: 10349

Ion	Ratio	Lower	Upper
276	100		
138	2.8	1.8	2.6
277	12.9	9.8	14.6

Manual Integrations
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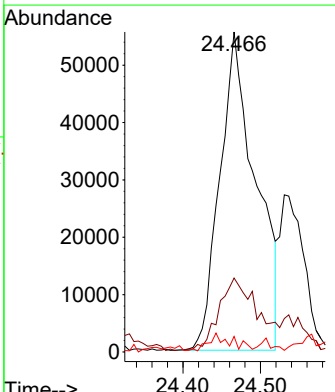
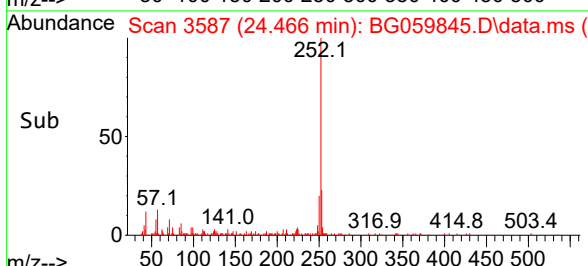
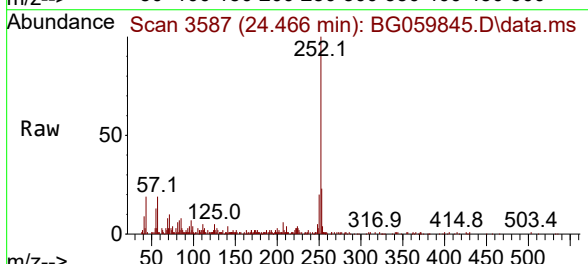
Reviewed By :Yogesh Patel 11/25/2023
 Supervised By :mohammad ahmed 11/25/2023

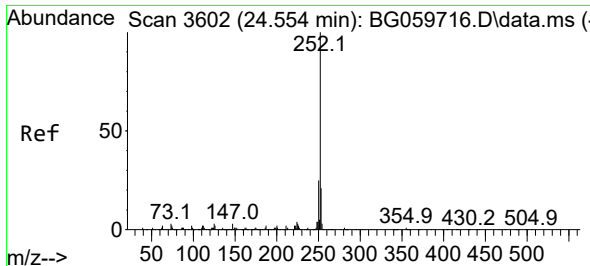


#88
 Benzo(b)fluoranthene
 Concen: 17.865 ng
 RT: 24.466 min Scan# 3587
 Delta R.T. -0.011 min
 Lab File: BG059845.D
 Acq: 23 Nov 2023 9:56

Tgt Ion: 252 Resp: 178145

Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.3	27.5
125	4.9	1.4	2.0





#89
Benzo(k)fluoranthene
Concen: 6.034 ng m
RT: 24.531 min Scan# 3598
Delta R.T. -0.023 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Instrument :

BNA_G

ClientSampleId :

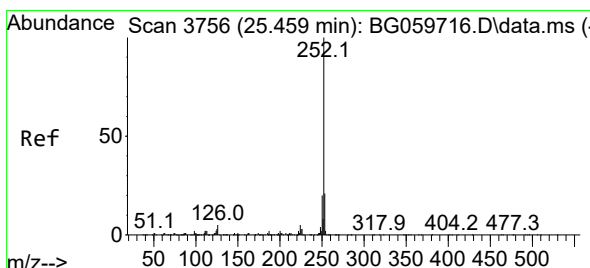
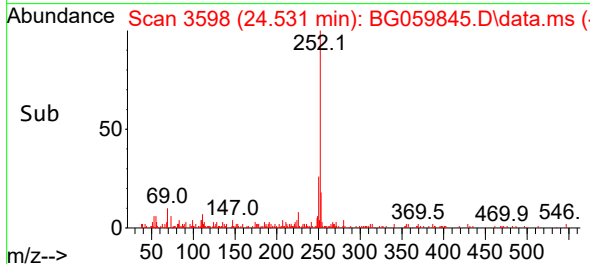
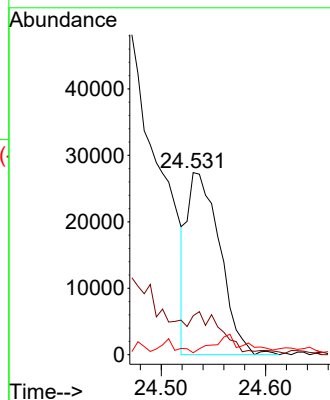
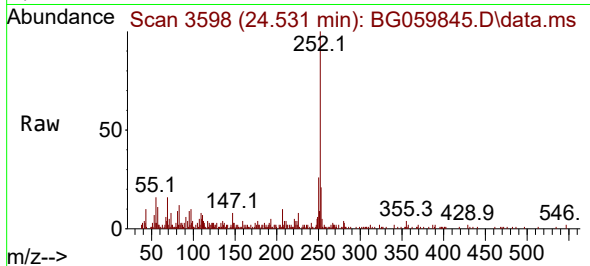
SOIL-2-1115

Tgt Ion:252 Resp: 59489
Ion Ratio Lower Upper
252 100
253 21.3 17.1 25.7
125 1.1 2.2 3.2

Manual Integrations

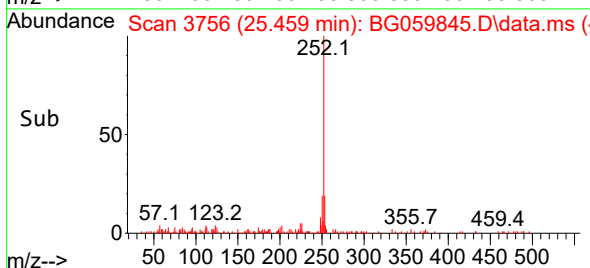
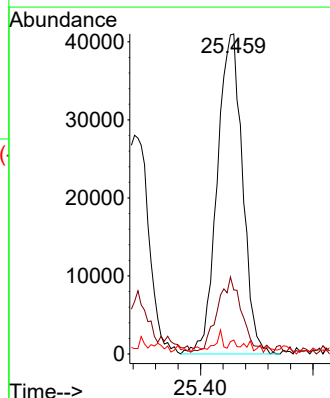
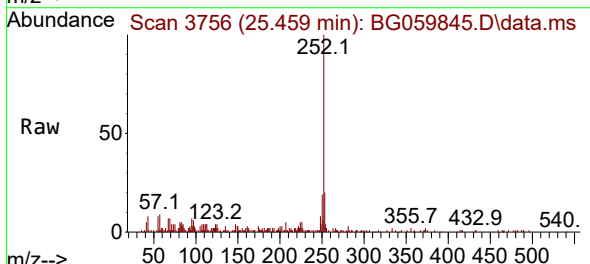
APPROVED

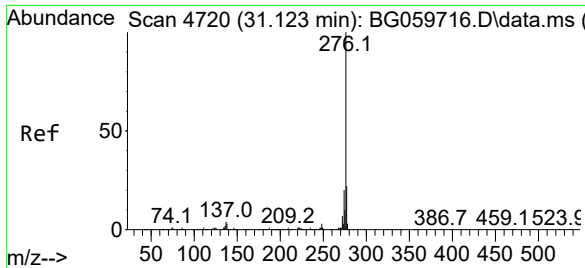
Reviewed By :Yogesh Patel 11/25/2023
Supervised By :mohammad ahmed 11/25/2023



#90
Benzo(a)pyrene
Concen: 12.043 ng m
RT: 25.459 min Scan# 3756
Delta R.T. 0.000 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

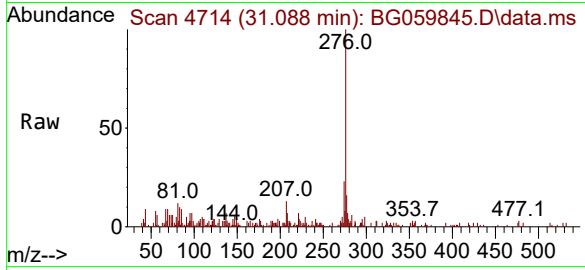
Tgt Ion:252 Resp: 128166
Ion Ratio Lower Upper
252 100
253 20.0 16.8 25.2
125 4.4 2.0 3.0





#92
Benzo(g,h,i)perylene
Concen: 8.583 ng
RT: 31.088 min Scan# 41
Delta R.T. -0.035 min
Lab File: BG059845.D
Acq: 23 Nov 2023 9:56

Instrument :
BNA_G
ClientSampleId :
SOIL-2-1115



Tgt Ion:276 Resp: 9485
Ion Ratio Lower Upper
276 100
277 15.6 17.3 25.9
138 3.4 2.6 4.0

Manual Integrations
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Reviewed By :Yogesh Patel 11/25/2023
Supervised By :mohammad ahmed 11/25/2023

