

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG020323\
 Data File : BG056541.D
 Acq On : 3 Feb 2023 16:31
 Operator : CG/JU
 Sample : 01403-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 NPWAYNE-SOIL-0201

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/06/2023
 Supervised By : Jagrut Upadhyay 02/06/2023

Quant Time: Feb 04 05:12:40 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 01:15:52 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.271	152	43908	20.000	ng	# 0.00
21) Naphthalene-d8	11.103	136	158333	20.000	ng	0.00
39) Acenaphthene-d10	14.892	164	111238	20.000	ng	0.00
64) Phenanthrene-d10	17.630	188	246758	20.000	ng	0.00
76) Chrysene-d12	21.931	240	230793	20.000	ng	0.00
86) Perylene-d12	25.362	264	260727	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.797	112	273376	114.534	ng	0.00
7) Phenol-d6	7.425	99	374971	106.028	ng	0.00
23) Nitrobenzene-d5	9.446	82	202668	72.685	ng	-0.01
42) 2,4,6-Tribromophenol	16.379	330	150600	101.836	ng	0.00
45) 2-Fluorobiphenyl	13.518	172	598480	74.592	ng	0.00
79) Terphenyl-d14	20.210	244	883882	67.265	ng	0.00
Target Compounds						Qvalue
32) Benzoic acid	10.362	122	13522m	8.850	ng	
49) Acenaphthylene	14.622	152	149717	14.592	ng	99
58) Fluorene	15.932	166	31577	3.637	ng	# 94
71) Phenanthrene	17.677	178	587833	45.516	ng	99
72) Anthracene	17.765	178	176570	13.319	ng	99
73) Carbazole	18.030	167	45671	4.045	ng	98
75) Fluoranthene	19.675	202	1901584	116.661	ng	97
78) Pyrene	20.039	202	1652581	100.678	ng	97
81) Benzo(a)anthracene	21.914	228	1059469	65.663	ng	97
83) Chrysene	21.978	228	1004353	66.256	ng	97
87) Indeno(1,2,3-cd)pyrene	29.323	276	535530	28.059	ng	# 96
88) Benzo(b)fluoranthene	24.275	252	1481656	91.556	ng	98
89) Benzo(k)fluoranthene	24.334	252	565966m	34.639	ng	
90) Benzo(a)pyrene	25.204	252	839721	52.676	ng	100
91) Dibenzo(a,h)anthracene	29.352	278	153606	9.588	ng	# 91
92) Benzo(g,h,i)perylene	30.556	276	432539	27.982	ng	98

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

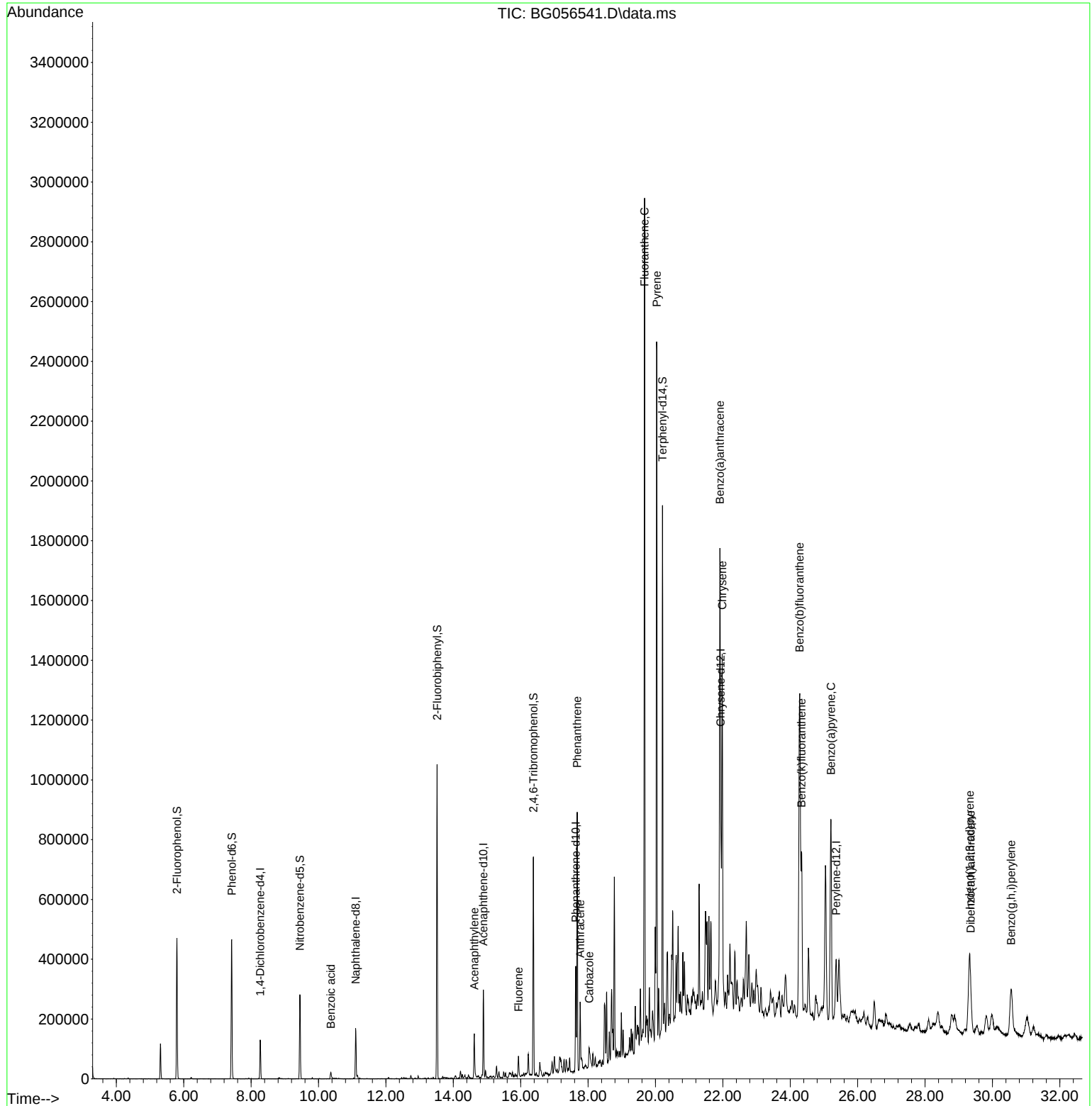
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG020323\
Data File : BG056541.D
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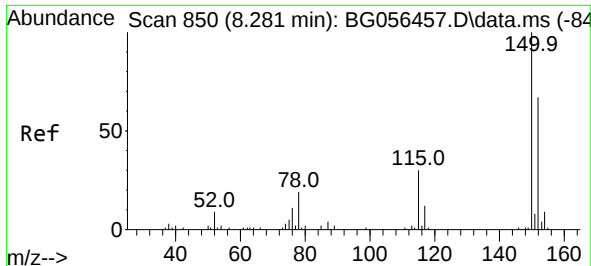
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Quant Time: Feb 04 05:12:40 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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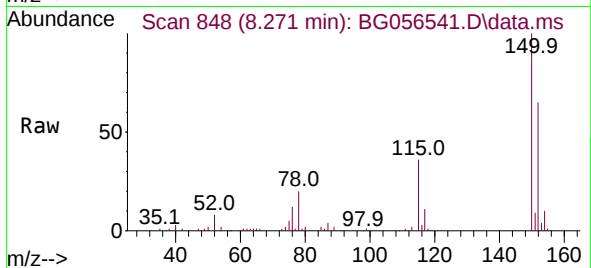
Reviewed By : Christian Giraldo 02/06/2023
Supervised By : Jagrut Upadhyay 02/06/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.271 min Scan# 84
Delta R.T. -0.004 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31

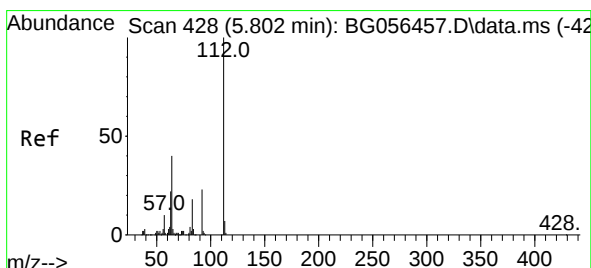
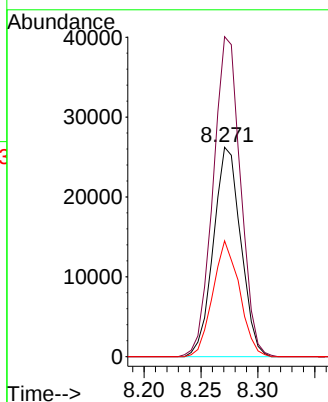
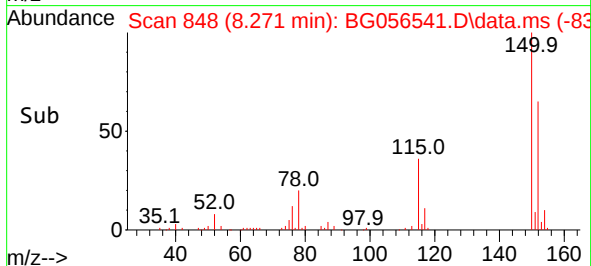
Instrument :
BNA_G
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NPWAYNE-SOIL-0201



Tgt Ion:152 Resp: 43908
Ion Ratio Lower Upper
152 100
150 152.8 120.2 180.4
115 55.3 36.3 54.5

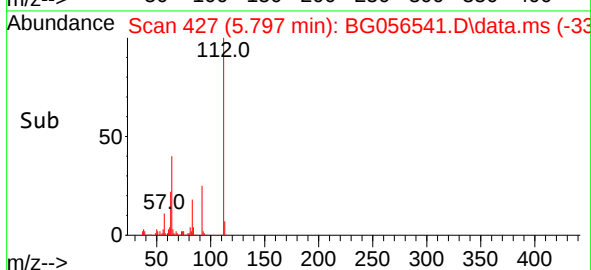
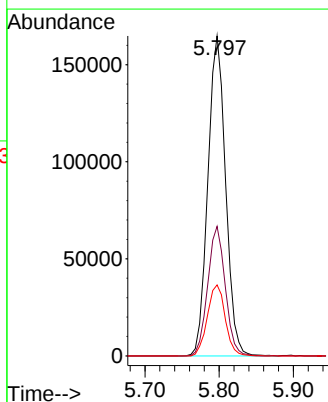
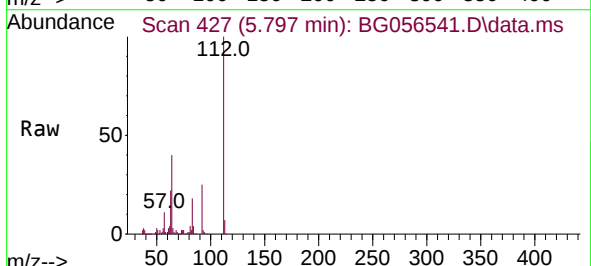
Manual Integrations
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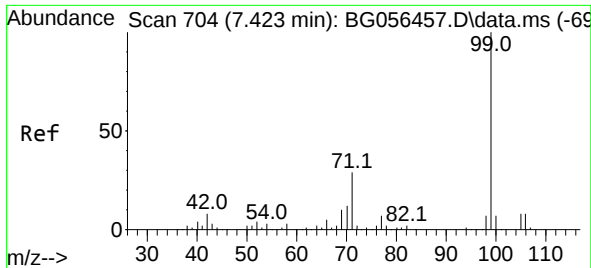
Reviewed By :Christian Giraldo 02/06/2023
Supervised By :Jagrut Upadhyay 02/06/2023



#5
2-Fluorophenol
Concen: 114.534 ng
RT: 5.797 min Scan# 427
Delta R.T. 0.001 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31

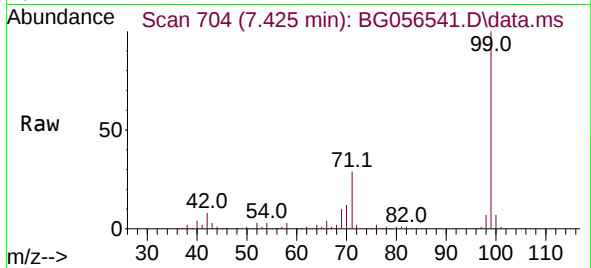
Tgt Ion:112 Resp: 273376
Ion Ratio Lower Upper
112 100
64 40.5 31.9 47.9
63 22.2 17.4 26.0





#7
Phenol-d6
Concen: 106.028 ng
RT: 7.425 min Scan# 704
Delta R.T. 0.007 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31

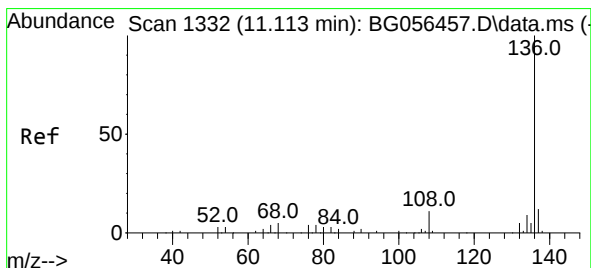
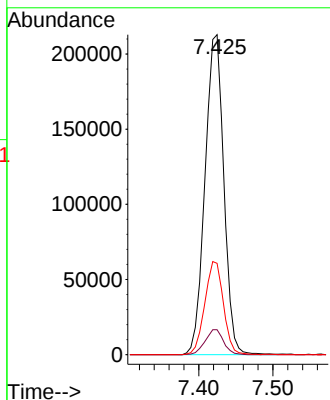
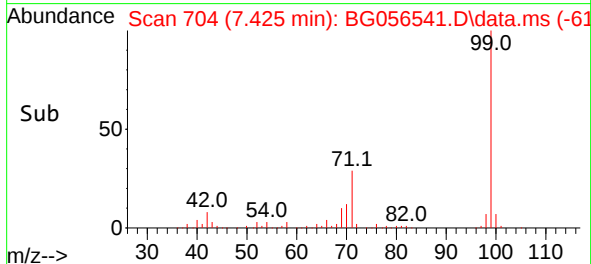
Instrument :
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ClientSampleId :
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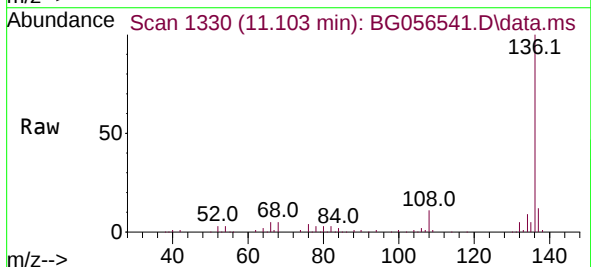
Tgt Ion: 99 Resp: 37497
Ion Ratio Lower Upper
99 100
42 7.8 6.6 10.0
71 28.5 23.4 35.0

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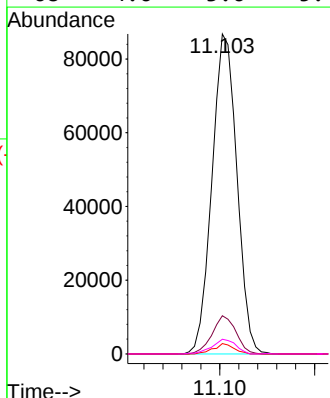
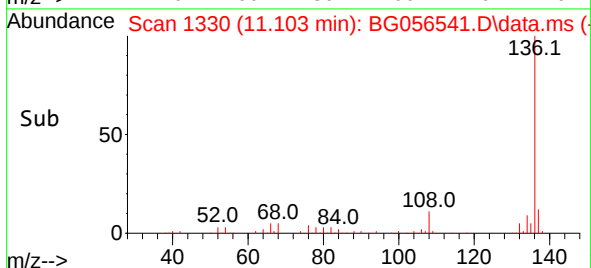
Reviewed By :Christian Giraldo 02/06/2023
Supervised By :Jagrut Upadhyay 02/06/2023

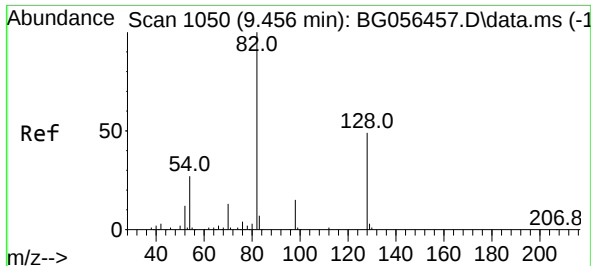


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.103 min Scan# 1330
Delta R.T. -0.005 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31



Tgt Ion:136 Resp: 158333
Ion Ratio Lower Upper
136 100
137 11.9 9.4 14.0
54 3.2 2.2 3.4
68 4.6 3.6 5.4





#23

Nitrobenzene-d5

Concen: 72.685 ng

RT: 9.446 min Scan# 1048

Delta R.T. -0.011 min

Lab File: BG056541.D

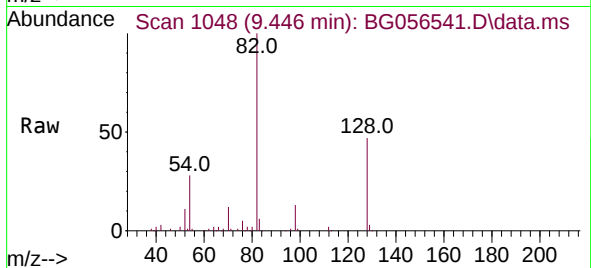
Acq: 3 Feb 2023 16:31

Instrument :

BNA_G

ClientSampleId :

NPWAYNE-SOIL-0201



Tgt Ion: 82 Resp: 202668

Ion Ratio Lower Upper

82 100

128 46.9 39.4 59.2

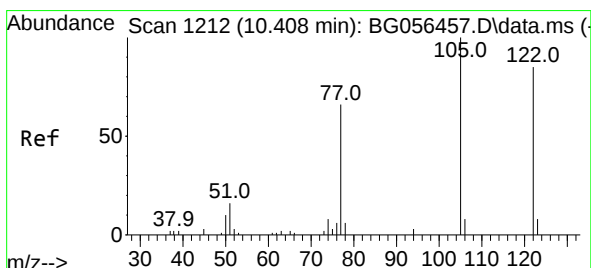
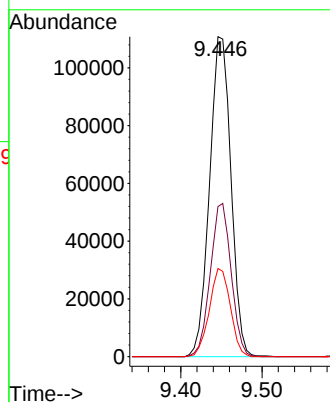
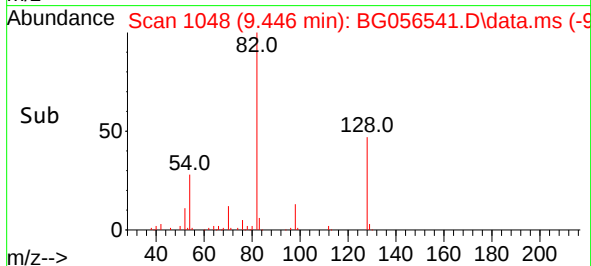
54 27.5 21.4 32.2

Manual Integrations

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Supervised By :Jagrut Upadhyay 02/06/2023



#32

Benzoic acid

Concen: 8.850 ng m

RT: 10.362 min Scan# 1204

Delta R.T. -0.040 min

Lab File: BG056541.D

Acq: 3 Feb 2023 16:31

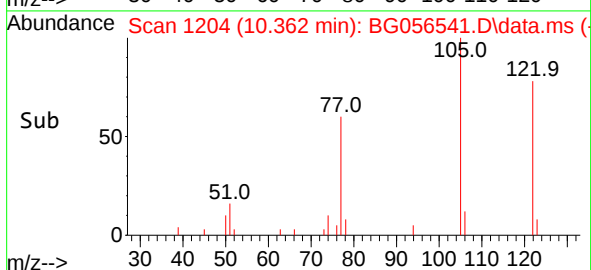
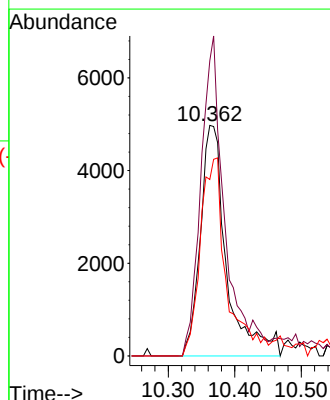
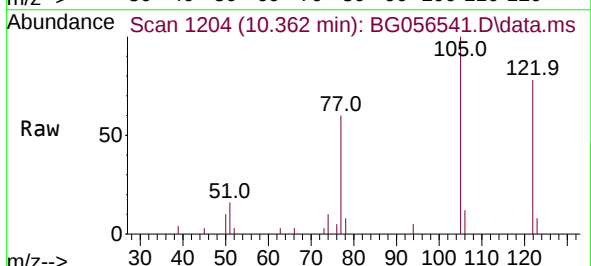
Tgt Ion:122 Resp: 13522

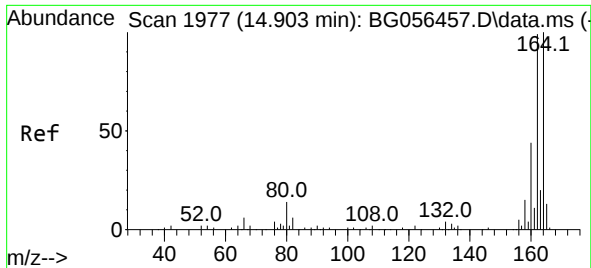
Ion Ratio Lower Upper

122 100

105 128.0 96.5 136.5

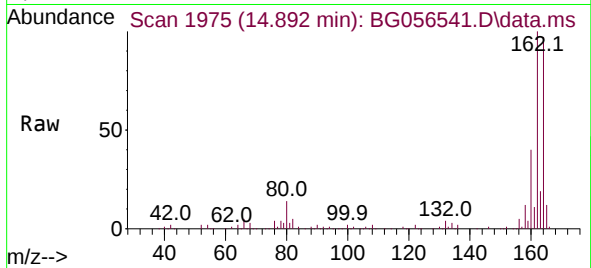
77 76.5 57.3 97.3





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.892 min Scan# 1975
Delta R.T. -0.005 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31

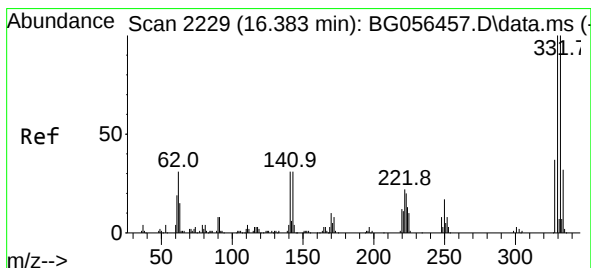
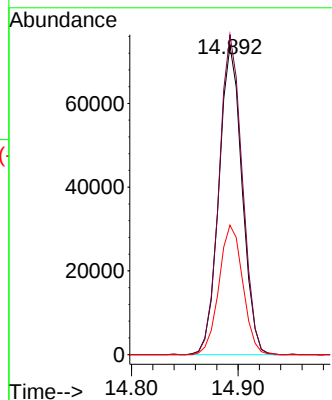
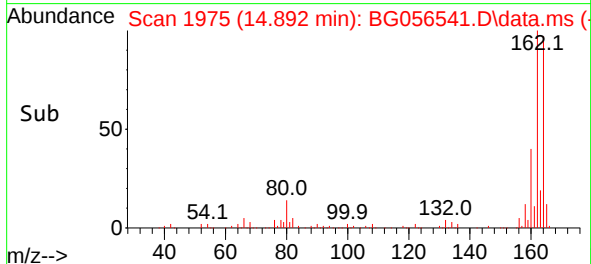
Instrument :
BNA_G
ClientSampleId :
NPWAYNE-SOIL-0201



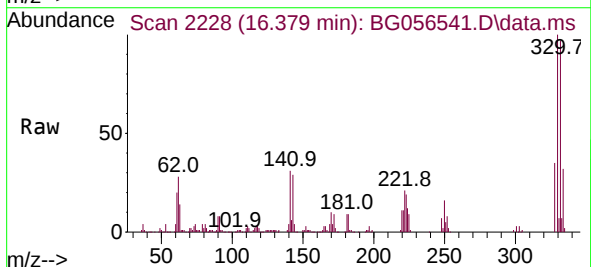
Tgt Ion:164 Resp: 111238
Ion Ratio Lower Upper
164 100
162 103.5 79.6 119.4
160 41.9 34.9 52.3

Manual Integrations
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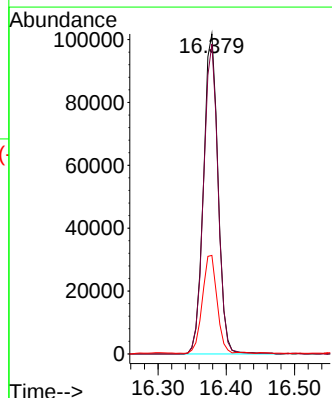
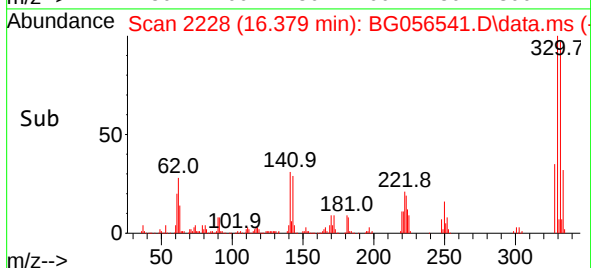
Reviewed By :Christian Giraldo 02/06/2023
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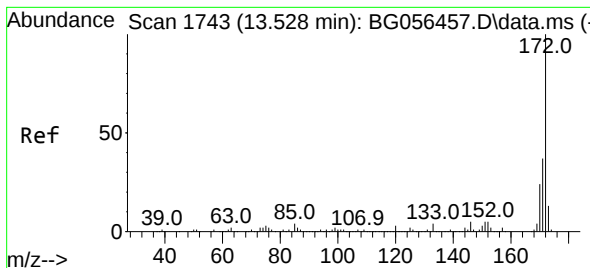


#42
2,4,6-Tribromophenol
Concen: 101.836 ng
RT: 16.379 min Scan# 2228
Delta R.T. 0.001 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31



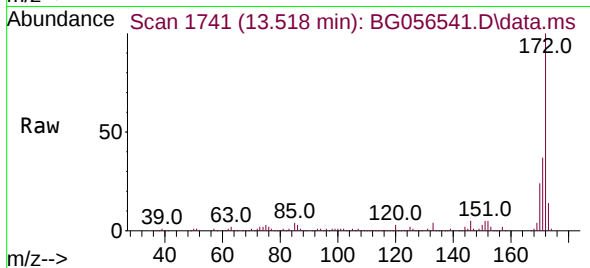
Tgt Ion:330 Resp: 150600
Ion Ratio Lower Upper
330 100
332 97.0 79.0 118.6
141 31.0 24.2 36.4





#45
2-Fluorobiphenyl
Concen: 74.592 ng
RT: 13.518 min Scan# 1741
Delta R.T. -0.005 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31

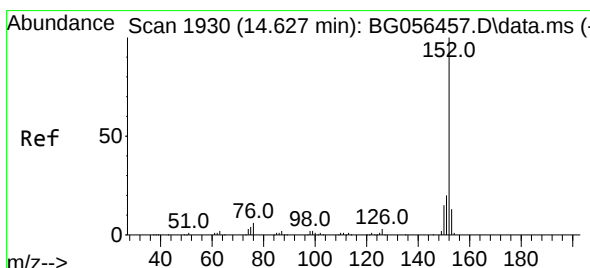
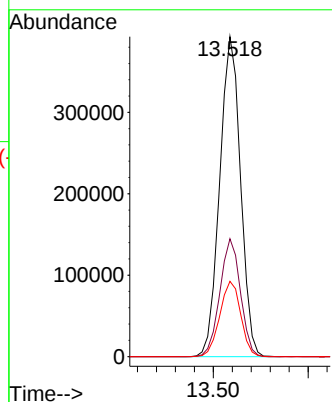
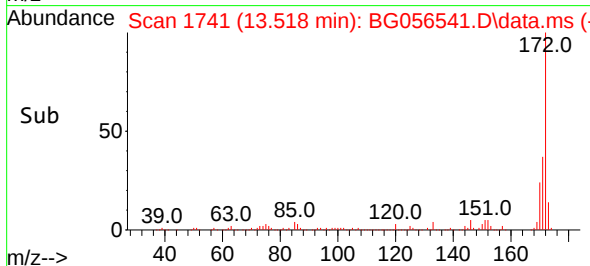
Instrument :
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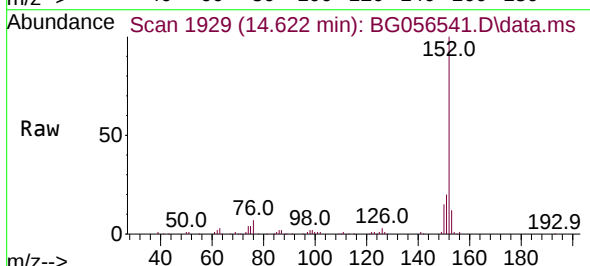
Tgt Ion:172 Resp: 598486
Ion Ratio Lower Upper
172 100
171 36.8 29.5 44.3
170 23.5 19.2 28.8

Manual Integrations
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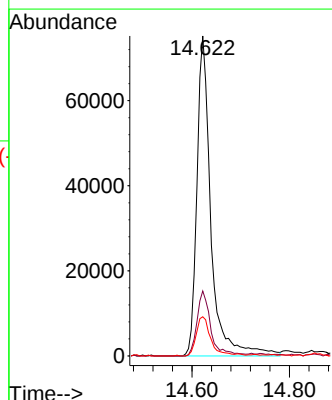
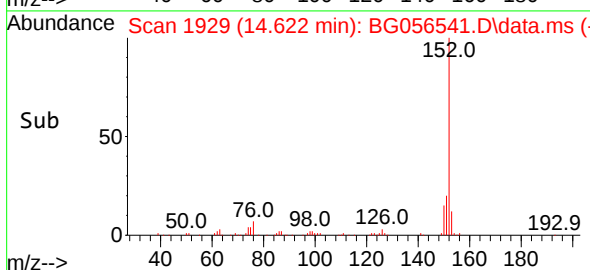
Reviewed By :Christian Giraldo 02/06/2023
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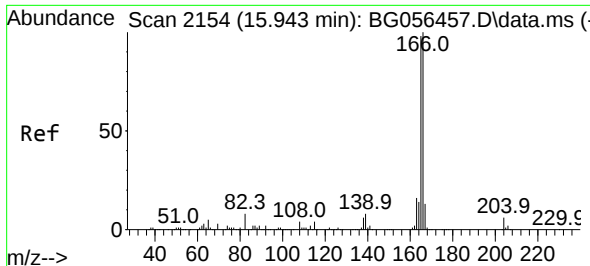


#49
Acenaphthylene
Concen: 14.592 ng
RT: 14.622 min Scan# 1929
Delta R.T. -0.005 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31



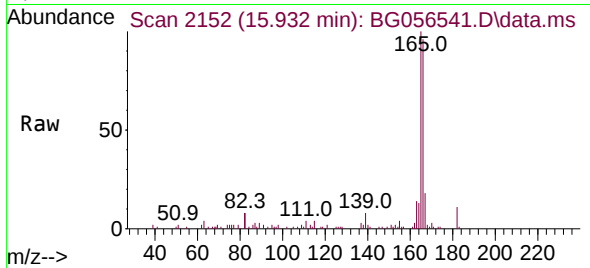
Tgt Ion:152 Resp: 149717
Ion Ratio Lower Upper
152 100
151 20.3 15.9 23.9
153 12.2 10.5 15.7





#58
Fluorene
Concen: 3.637 ng
RT: 15.932 min Scan# 2154
Delta R.T. -0.005 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31

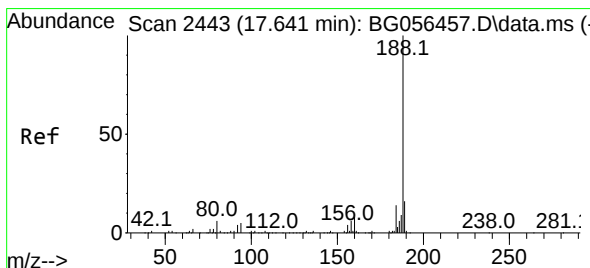
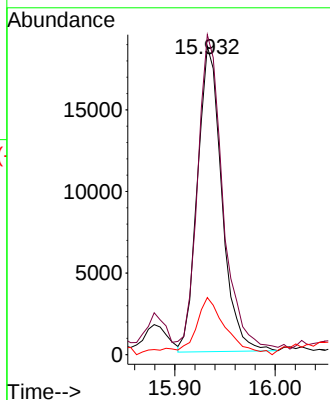
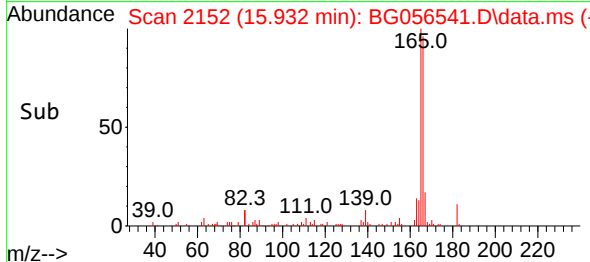
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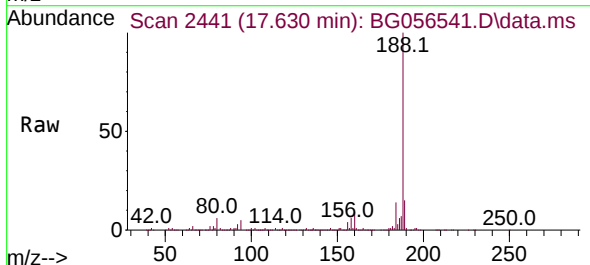
Tgt Ion:166 Resp: 31572
Ion Ratio Lower Upper
166 100
165 103.8 78.8 118.2
167 18.5 10.6 15.8

Manual Integrations
APPROVED

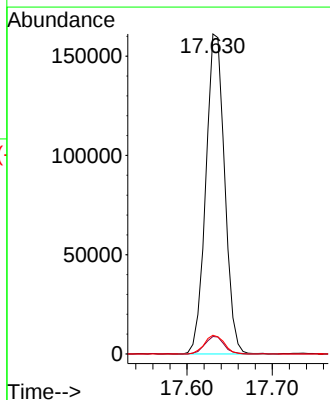
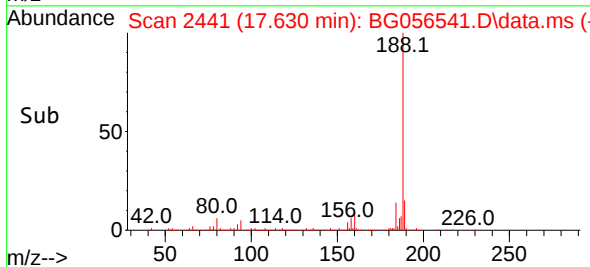
Reviewed By :Christian Giraldo 02/06/2023
Supervised By :Jagrut Upadhyay 02/06/2023

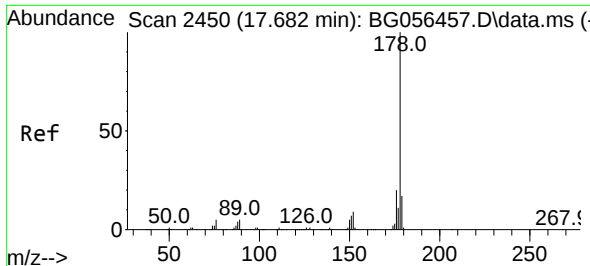


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.630 min Scan# 2441
Delta R.T. -0.005 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31



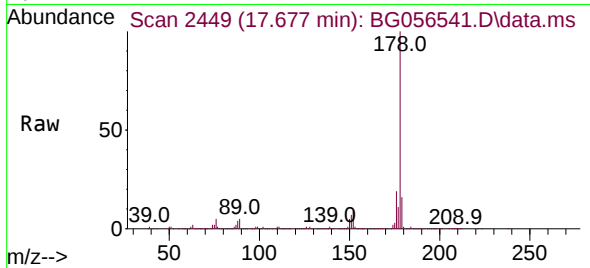
Tgt Ion:188 Resp: 246758
Ion Ratio Lower Upper
188 100
94 5.4 4.1 6.1
80 5.8 5.0 7.4





#71
Phenanthrene
Concen: 45.516 ng
RT: 17.677 min Scan# 2449
Delta R.T. 0.001 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31

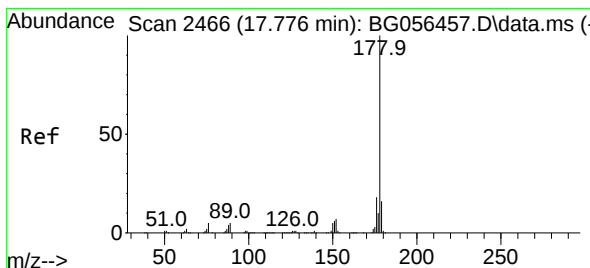
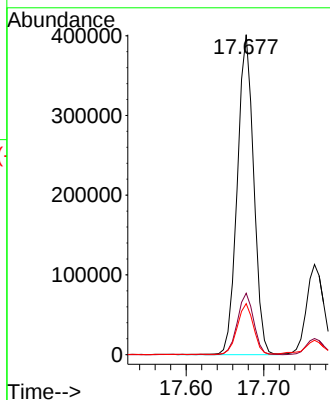
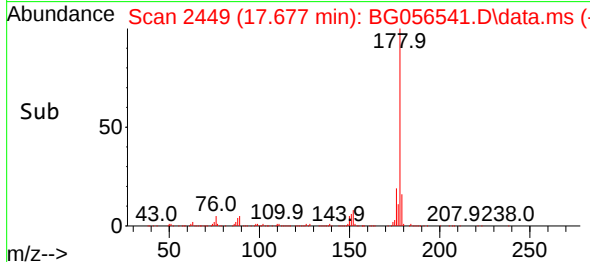
Instrument :
BNA_G
ClientSampleId :
NPWAYNE-SOIL-0201



Tgt Ion:178 Resp: 587833
Ion Ratio Lower Upper
178 100
176 19.2 15.6 23.4
179 15.9 13.3 19.9

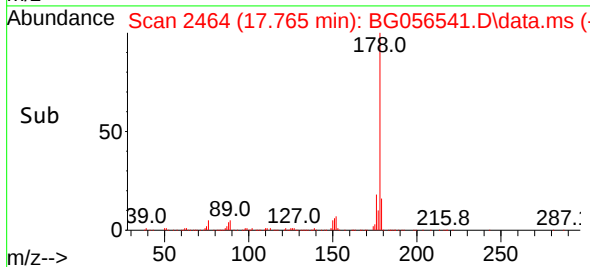
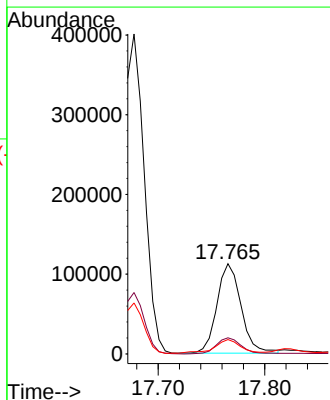
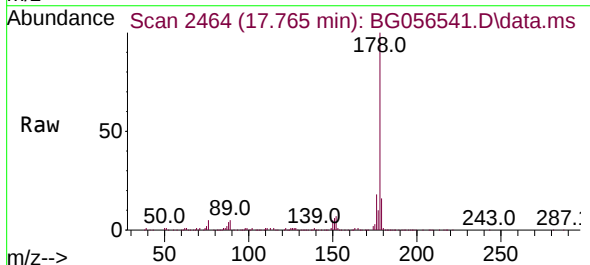
Manual Integrations
APPROVED

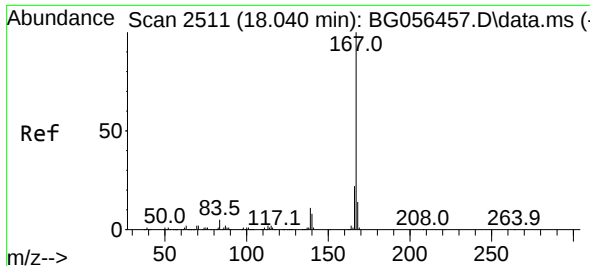
Reviewed By :Christian Giraldo 02/06/2023
Supervised By :Jagrut Upadhyay 02/06/2023



#72
Anthracene
Concen: 13.319 ng
RT: 17.765 min Scan# 2464
Delta R.T. -0.005 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31

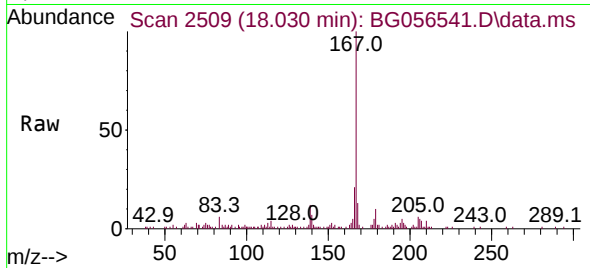
Tgt Ion:178 Resp: 176570
Ion Ratio Lower Upper
178 100
176 17.8 14.5 21.7
179 15.9 12.5 18.7





#73
 Carbazole
 Concen: 4.045 ng
 RT: 18.030 min Scan# 2511
 Delta R.T. -0.005 min
 Lab File: BG056541.D
 Acq: 3 Feb 2023 16:31

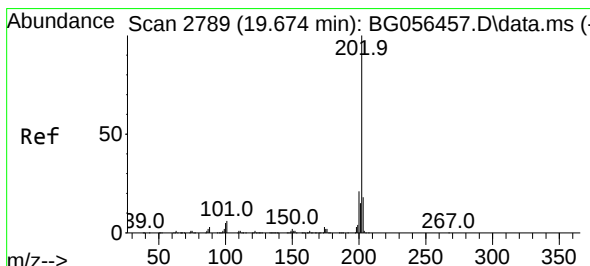
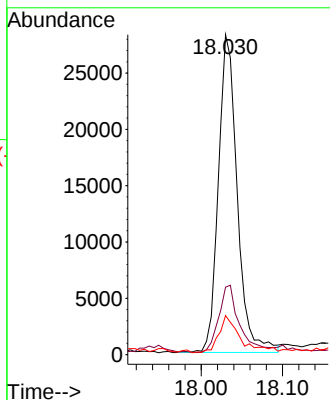
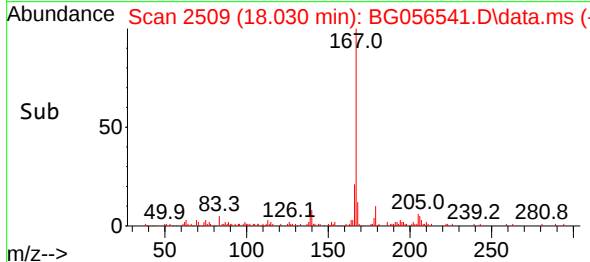
Instrument :
 BNA_G
 ClientSampleId :
 NPWAYNE-SOIL-0201



Tgt Ion:167 Resp: 45671
 Ion Ratio Lower Upper
 167 100
 166 21.1 17.8 26.6
 139 12.2 8.9 13.3

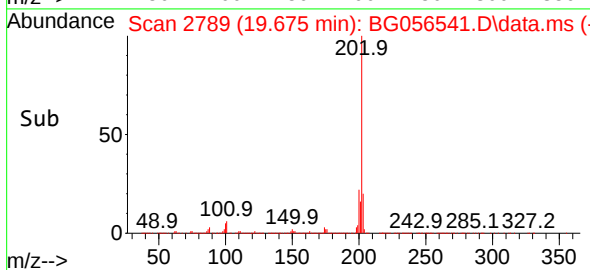
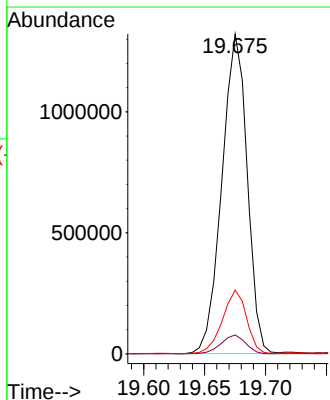
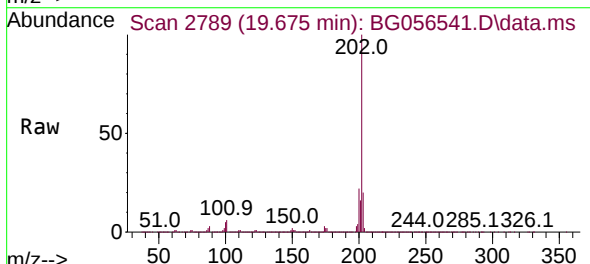
Manual Integrations
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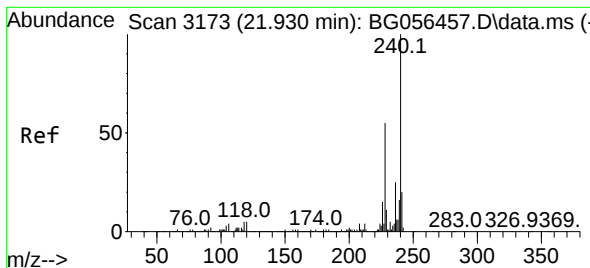
Reviewed By :Christian Giraldo 02/06/2023
 Supervised By :Jagrut Upadhyay 02/06/2023



#75
 Fluoranthene
 Concen: 116.661 ng
 RT: 19.675 min Scan# 2789
 Delta R.T. 0.007 min
 Lab File: BG056541.D
 Acq: 3 Feb 2023 16:31

Tgt Ion:202 Resp: 1901584
 Ion Ratio Lower Upper
 202 100
 101 5.9 0.0 25.6
 203 19.9 0.0 38.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.931 min Scan# 3173

Delta R.T. 0.007 min

Lab File: BG056541.D

Acq: 3 Feb 2023 16:31

Instrument :

BNA_G

ClientSampleId :

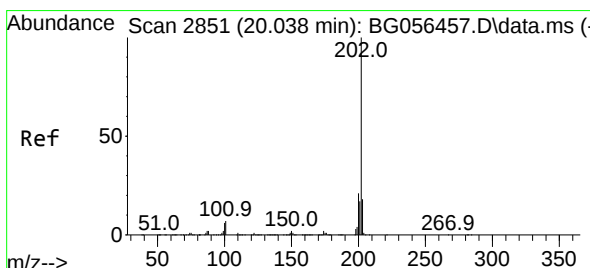
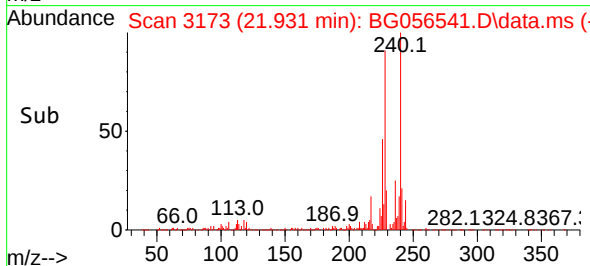
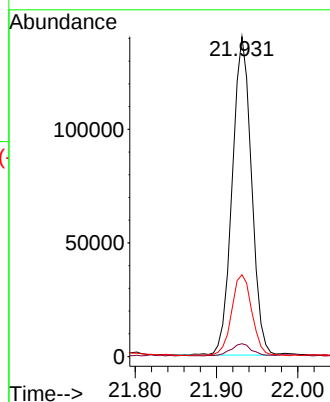
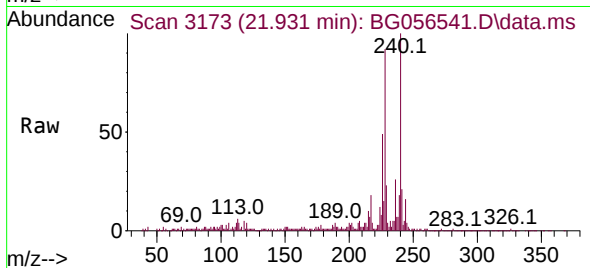
NPWAYNE-SOIL-0201

Tgt Ion:240 Resp: 230793
 Ion Ratio Lower Upper
 240 100
 120 4.0 3.8 5.8
 236 25.6 20.2 30.2

Manual Integrations

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Reviewed By :Christian Giraldo 02/06/2023
 Supervised By :Jagrut Upadhyay 02/06/2023



#78

Pyrene

Concen: 100.678 ng

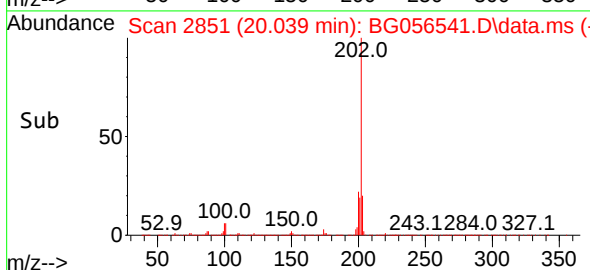
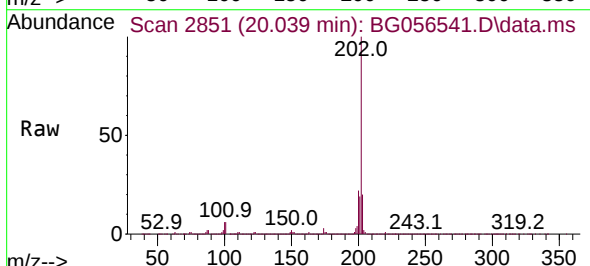
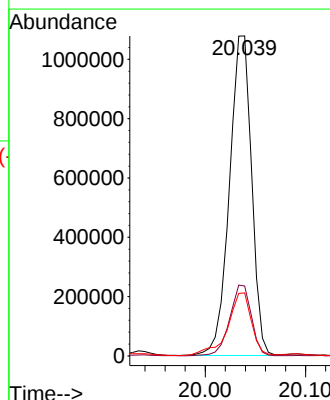
RT: 20.039 min Scan# 2851

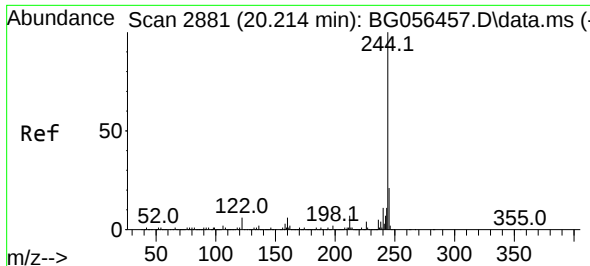
Delta R.T. 0.007 min

Lab File: BG056541.D

Acq: 3 Feb 2023 16:31

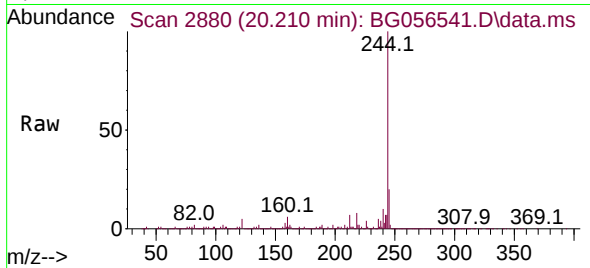
Tgt Ion:202 Resp: 1652581
 Ion Ratio Lower Upper
 202 100
 200 21.8 16.7 25.1
 203 19.7 14.4 21.6





#79
Terphenyl-d14
Concen: 67.265 ng
RT: 20.210 min Scan# 2881
Delta R.T. 0.001 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31

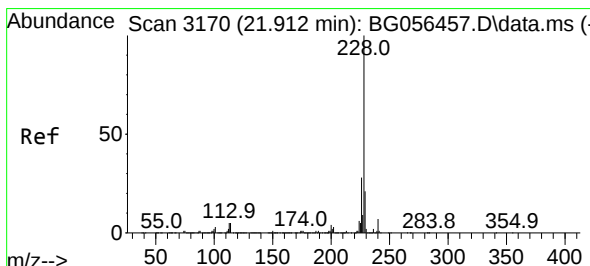
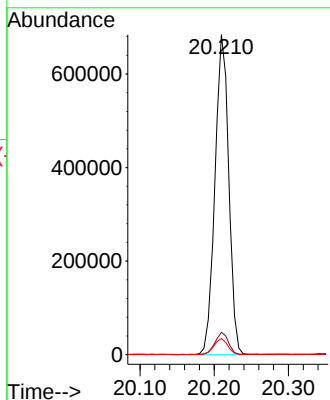
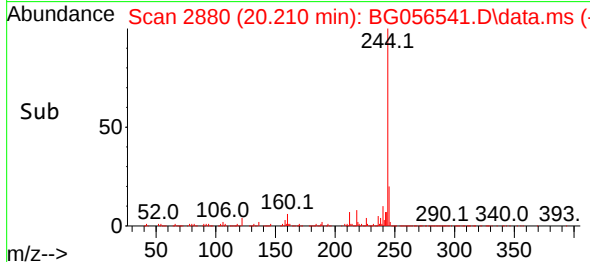
Instrument :
BNA_G
ClientSampleId :
NPWAYNE-SOIL-0201



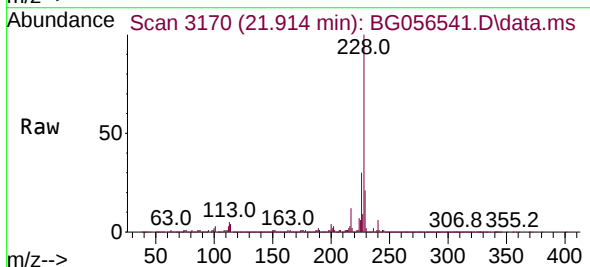
Tgt Ion:244 Resp: 883882
Ion Ratio Lower Upper
244 100
212 7.0 5.5 8.3
122 5.0 4.4 6.6

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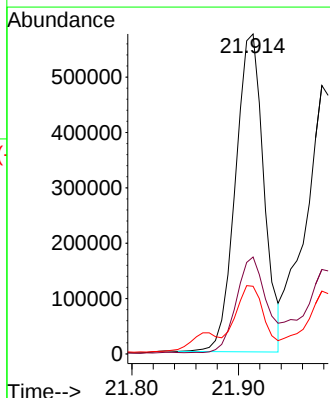
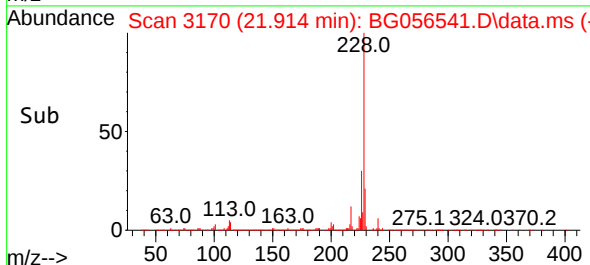
Reviewed By :Christian Giraldo 02/06/2023
Supervised By :Jagrut Upadhyay 02/06/2023

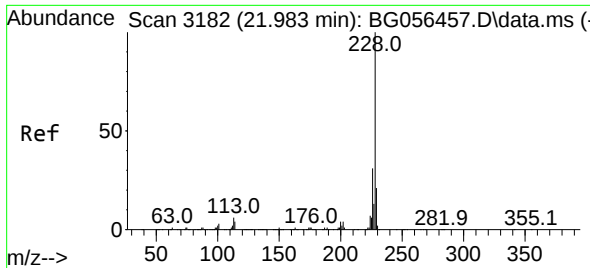


#81
Benzo(a)anthracene
Concen: 65.663 ng
RT: 21.914 min Scan# 3170
Delta R.T. 0.013 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31



Tgt Ion:228 Resp: 1059469
Ion Ratio Lower Upper
228 100
226 30.3 22.4 33.6
229 21.1 16.5 24.7





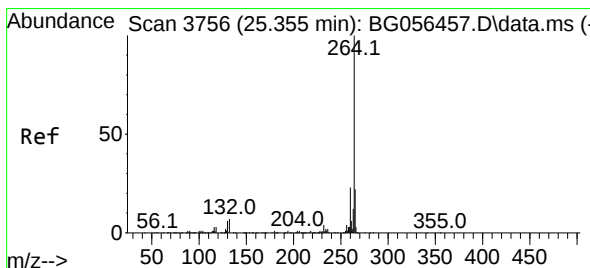
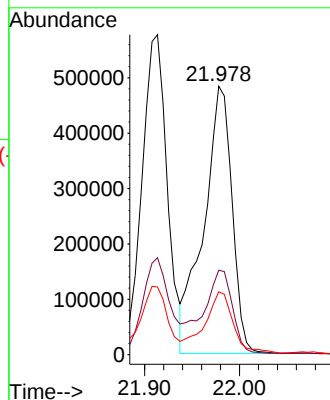
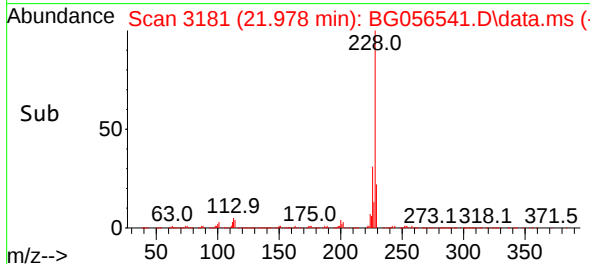
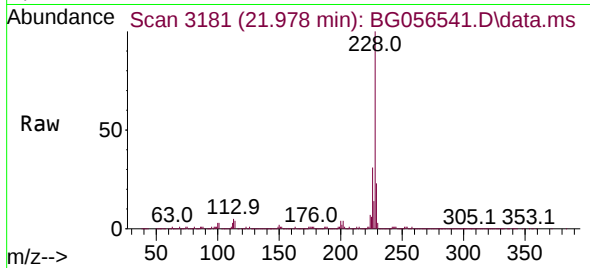
#83
Chrysene
Concen: 66.256 ng
RT: 21.978 min Scan# 3182
Delta R.T. 0.001 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31

Instrument :
BNA_G
ClientSampleId :
NPWAYNE-SOIL-0201

Tgt Ion:228 Resp: 100435
Ion Ratio Lower Upper
228 100
226 31.4 25.0 37.4
229 23.4 16.4 24.6

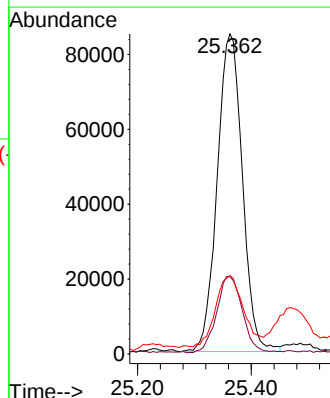
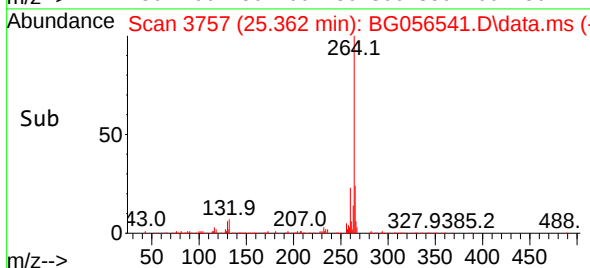
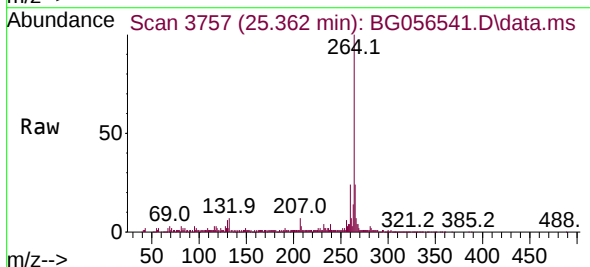
Manual Integrations
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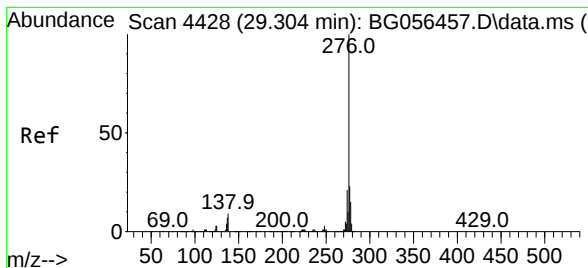
Reviewed By :Christian Giraldo 02/06/2023
Supervised By :Jagrut Upadhyay 02/06/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.362 min Scan# 3757
Delta R.T. 0.019 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31

Tgt Ion:264 Resp: 260727
Ion Ratio Lower Upper
264 100
260 24.1 18.2 27.4
265 24.5 18.1 27.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 28.059 ng

RT: 29.323 min Scan# 4428

Delta R.T. 0.042 min

Lab File: BG056541.D

Acq: 3 Feb 2023 16:31

Instrument :

BNA_G

ClientSampleId :

NPWAYNE-SOIL-0201

Tgt Ion:276 Resp: 535530

Ion Ratio Lower Upper

276 100

138 8.6 9.4 14.2

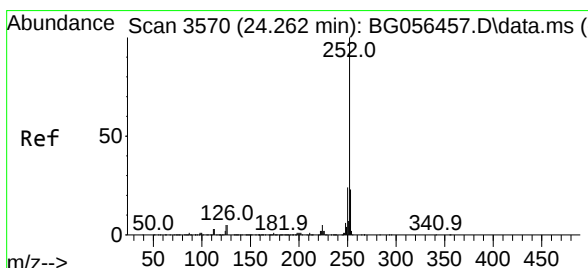
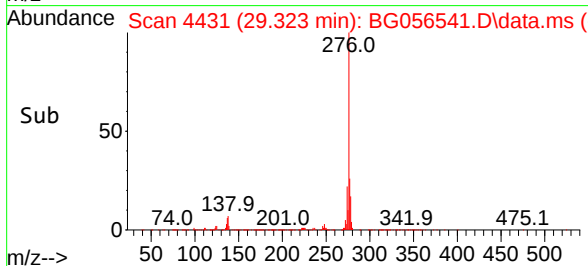
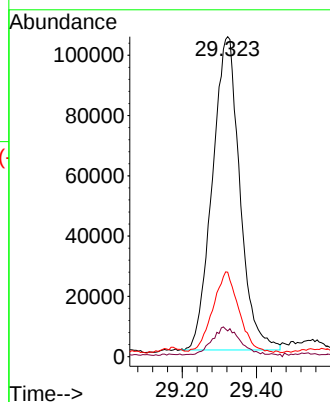
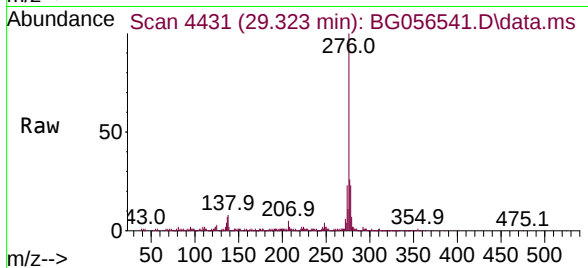
277 24.5 20.3 30.5

Manual Integrations

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Reviewed By :Christian Giraldo 02/06/2023

Supervised By :Jagrut Upadhyay 02/06/2023



#88

Benzo(b)fluoranthene

Concen: 91.556 ng

RT: 24.275 min Scan# 3572

Delta R.T. 0.025 min

Lab File: BG056541.D

Acq: 3 Feb 2023 16:31

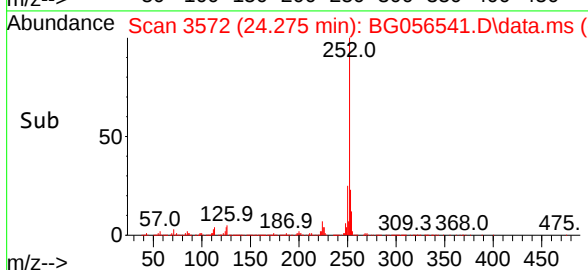
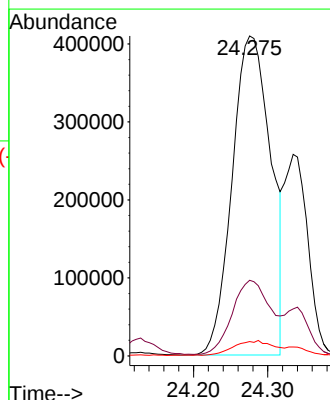
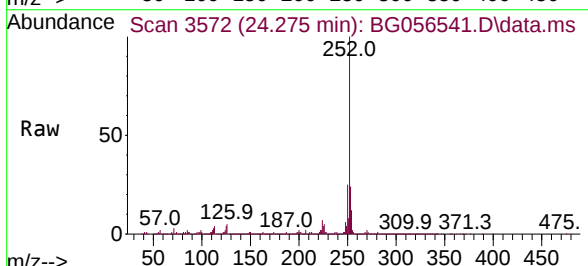
Tgt Ion:252 Resp: 1481656

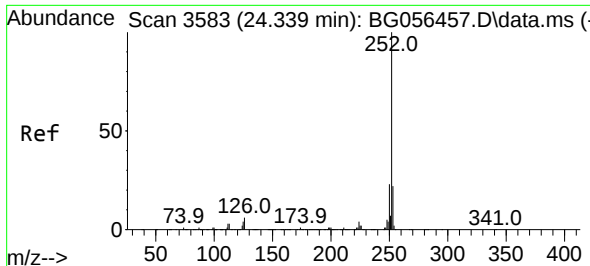
Ion Ratio Lower Upper

252 100

253 23.6 18.1 27.1

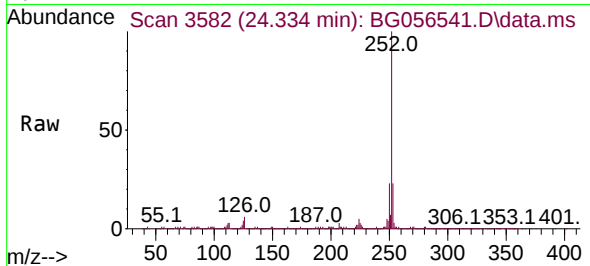
125 4.5 3.9 5.9





#89
Benzo(k)fluoranthene
Concen: 34.639 ng m
RT: 24.334 min Scan# 3583
Delta R.T. 0.013 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31

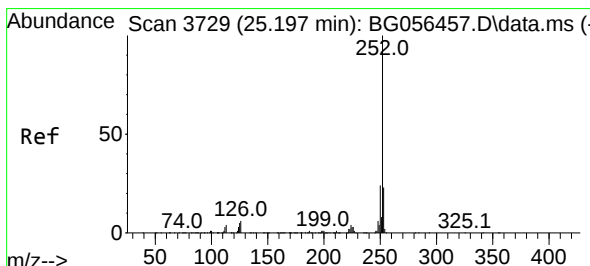
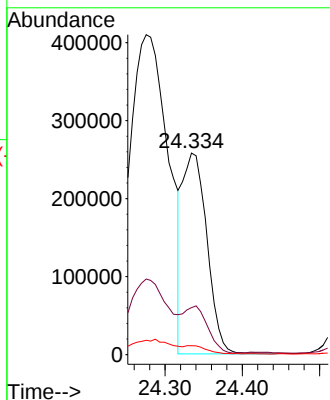
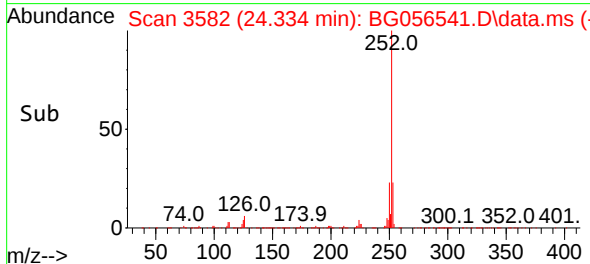
Instrument :
BNA_G
ClientSampleId :
NPWAYNE-SOIL-0201



Tgt Ion:252 Resp: 565966
Ion Ratio Lower Upper
252 100
253 23.3 17.5 26.3
125 4.4 3.4 5.0

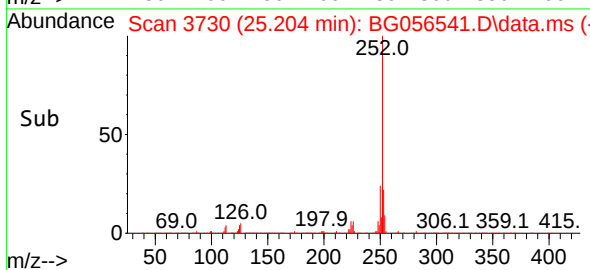
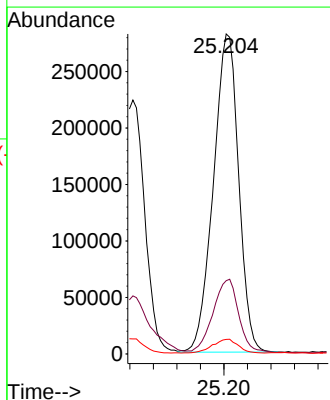
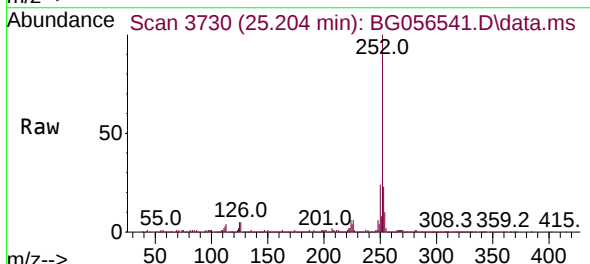
Manual Integrations
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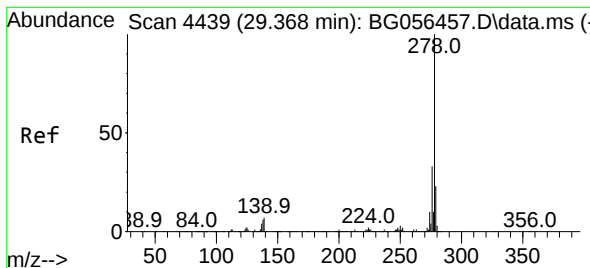
Reviewed By :Christian Giraldo 02/06/2023
Supervised By :Jagrut Upadhyay 02/06/2023



#90
Benzo(a)pyrene
Concen: 52.676 ng
RT: 25.204 min Scan# 3730
Delta R.T. 0.019 min
Lab File: BG056541.D
Acq: 3 Feb 2023 16:31

Tgt Ion:252 Resp: 839721
Ion Ratio Lower Upper
252 100
253 22.9 18.4 27.6
125 4.6 4.1 6.1





#91

Dibenzo(a,h)anthracene

Concen: 9.588 ng

RT: 29.352 min Scan# 4439

Delta R.T. 0.007 min

Lab File: BG056541.D

Acq: 3 Feb 2023 16:31

Instrument :

BNA_G

ClientSampleId :

NPWAYNE-SOIL-0201

Tgt Ion:278 Resp: 153600

Ion Ratio Lower Upper

278 100

139 8.1 5.5 8.3

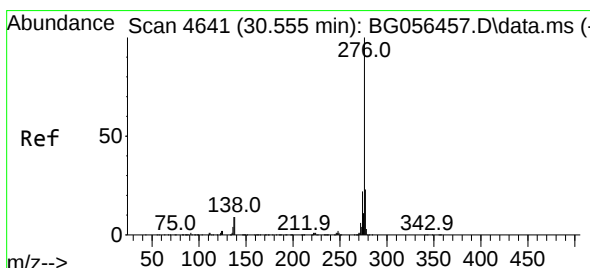
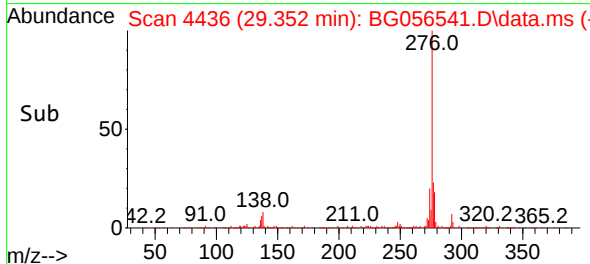
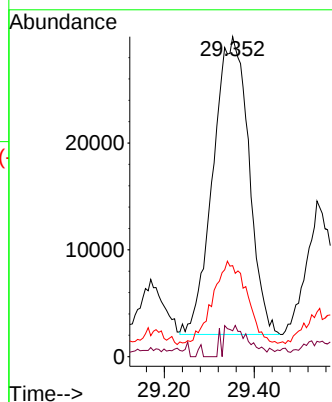
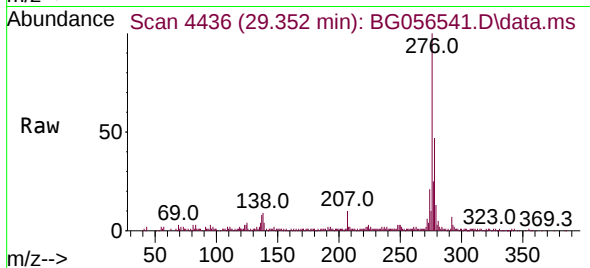
279 28.4 18.8 28.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/06/2023

Supervised By :Jagrut Upadhyay 02/06/2023



#92

Benzo(g,h,i)perylene

Concen: 27.982 ng

RT: 30.556 min Scan# 4641

Delta R.T. 0.031 min

Lab File: BG056541.D

Acq: 3 Feb 2023 16:31

Tgt Ion:276 Resp: 432539

Ion Ratio Lower Upper

276 100

277 24.5 18.5 27.7

138 9.3 7.4 11.0

