

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG093022\
 Data File : BG055045.D
 Acq On : 30 Sep 2022 18:02
 Operator : CG/JU
 Sample : N4892-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TOPSOIL-STORMWATER-DENALI

Quant Time: Oct 01 02:14:15 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG092822.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 28 15:43:39 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 10/01/2022
 Supervised By :mohammad ahmed 10/10/2022

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.348	152	38549	20.000	ng	0.00
21) Naphthalene-d8	11.174	136	163861	20.000	ng	#-0.01
39) Acenaphthene-d10	14.952	164	108894	20.000	ng	0.00
64) Phenanthrene-d10	17.684	188	225053	20.000	ng	0.00
76) Chrysene-d12	21.979	240	208927	20.000	ng	#-0.02
86) Perylene-d12	25.439	264	223701	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.862	112	263428	130.997	ng	0.00
7) Phenol-d6	7.472	99	360181	134.995	ng	0.00
23) Nitrobenzene-d5	9.517	82	217773	85.752	ng	0.00
42) 2,4,6-Tribromophenol	16.426	330	163848	132.603	ng	0.00
45) 2-Fluorobiphenyl	13.583	172	538224	77.802	ng	0.00
79) Terphenyl-d14	20.263	244	731863	73.046	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.725	178	25556	2.200	ng	95
75) Fluoranthene	19.711	202	98095	6.588	ng	95
78) Pyrene	20.075	202	96585	7.225	ng	97
81) Benzo(a)anthracene	21.961	228	62879	4.698	ng	99
83) Chrysene	22.032	228	74167m	5.884	ng	
87) Indeno(1,2,3-cd)pyrene	29.411	276	68312	4.180	ng	94
88) Benzo(b)fluoranthene	24.341	252	122315	9.183	ng	99
89) Benzo(k)fluoranthene	24.399	252	44462m	3.374	ng	
90) Benzo(a)pyrene	25.275	252	82010	7.285	ng	97
92) Benzo(g,h,i)perylene	30.663	276	65967	4.985	ng	# 92

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

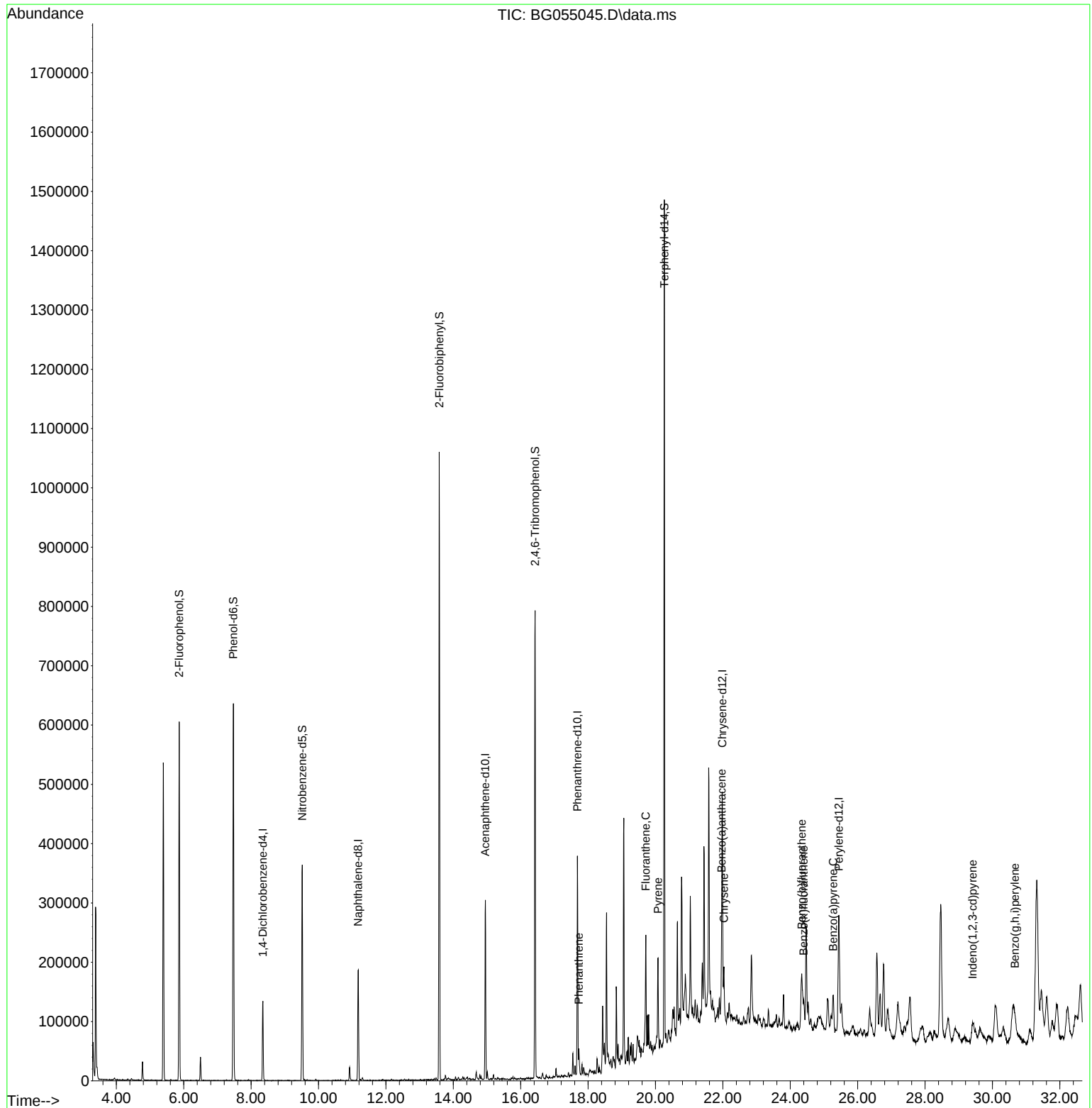
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Data File : BG055045.D
Acq On : 30 Sep 2022 18:02
Operator : CG/JU
Sample : N4892-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

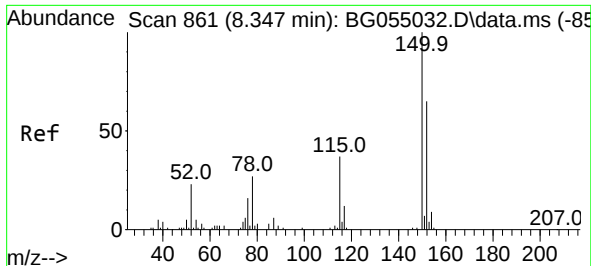
Instrument :
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ClientSampleId :
TOPSOIL-STORMWATER-DENALI

Quant Time: Oct 01 02:14:15 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG092822.M
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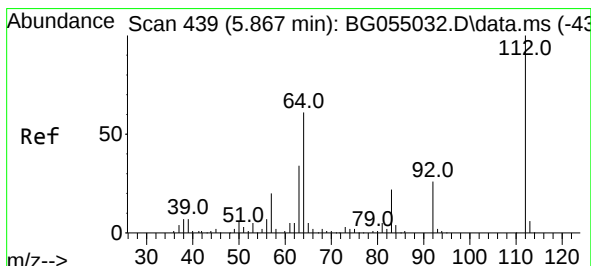
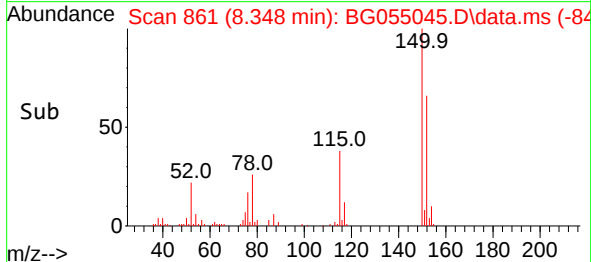
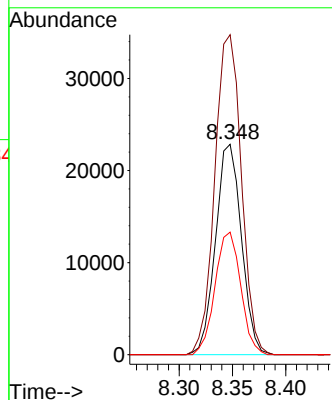
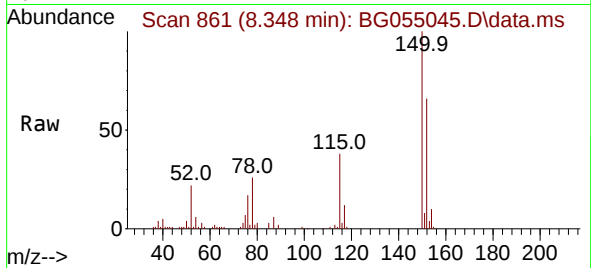
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.348 min Scan# 80
Delta R.T. 0.001 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02

Instrument :
BNA_G
ClientSampleId :
TOPSOIL-STORMWATER-DENALI

Tgt Ion:152 Resp: 38549
Ion Ratio Lower Upper
152 100
150 152.1 125.2 187.8
115 58.3 47.9 71.9

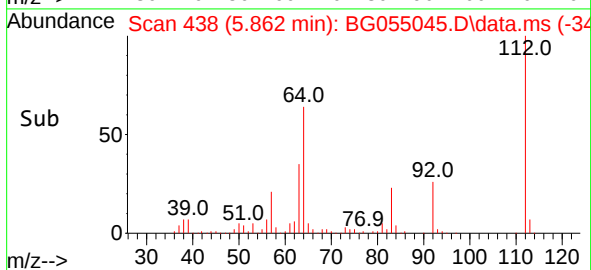
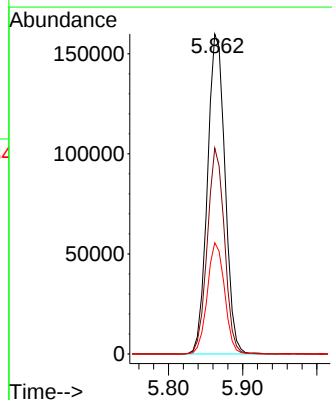
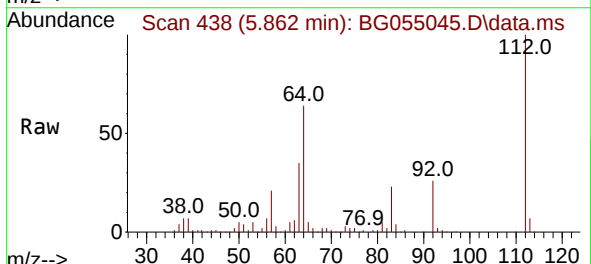
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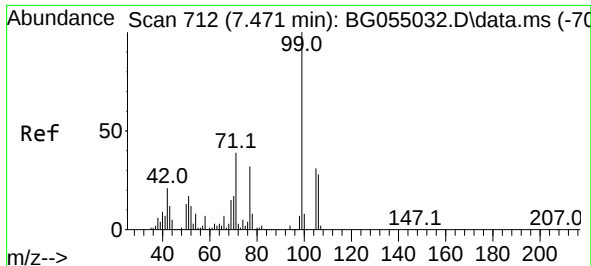
Reviewed By :Jagrut Upadhyay 10/01/2022
Supervised By :mohammad ahmed 10/10/2022



#5
2-Fluorophenol
Concen: 130.997 ng
RT: 5.862 min Scan# 438
Delta R.T. -0.005 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02

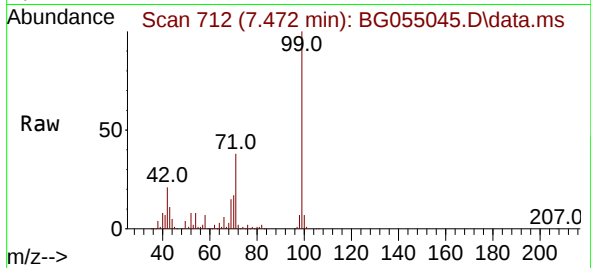
Tgt Ion:112 Resp: 263428
Ion Ratio Lower Upper
112 100
64 64.4 49.3 73.9
63 34.8 26.3 39.5





#7
Phenol-d6
Concen: 134.995 ng
RT: 7.472 min Scan# 712
Delta R.T. 0.001 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02

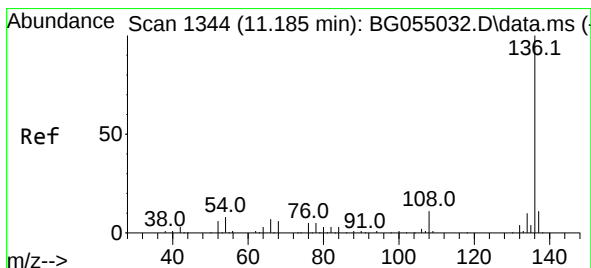
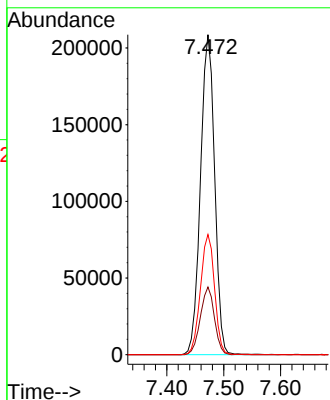
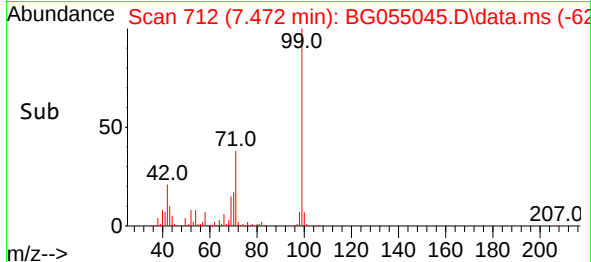
Instrument :
BNA_G
ClientSampleId :
TOPSOIL-STORMWATER-DENALI



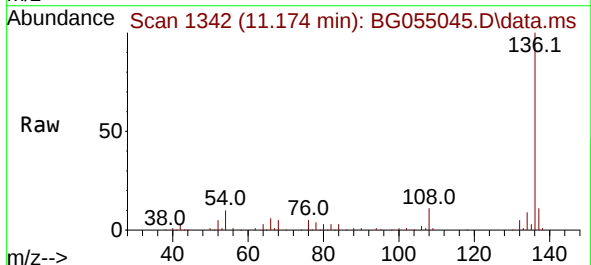
Tgt Ion: 99 Resp: 36018
Ion Ratio Lower Upper
99 100
42 21.2 14.6 22.0
71 37.6 24.6 37.0

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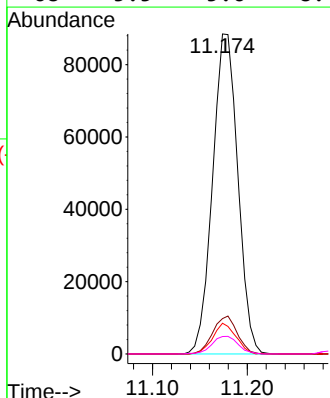
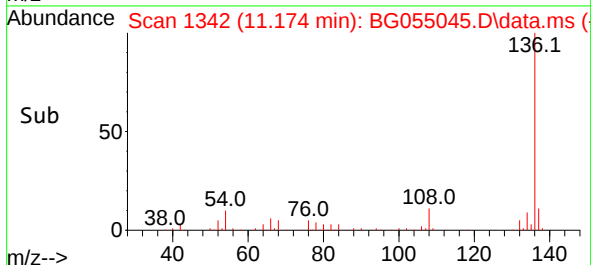
Reviewed By :Jagrut Upadhyay 10/01/2022
Supervised By :mohammad ahmed 10/10/2022

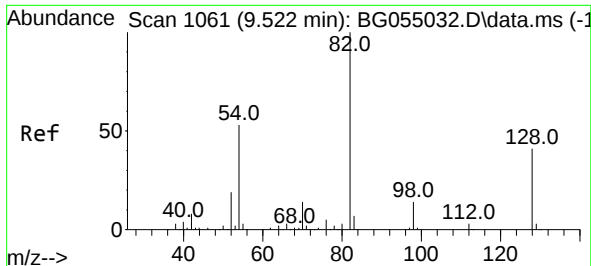


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.174 min Scan# 1342
Delta R.T. -0.011 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02



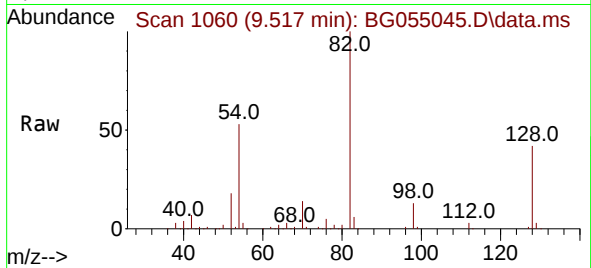
Tgt Ion:136 Resp: 163861
Ion Ratio Lower Upper
136 100
137 11.1 9.2 13.8
54 9.6 7.7 11.5
68 5.5 5.6 8.4





#23
Nitrobenzene-d5
Concen: 85.752 ng
RT: 9.517 min Scan# 1060
Delta R.T. -0.005 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02

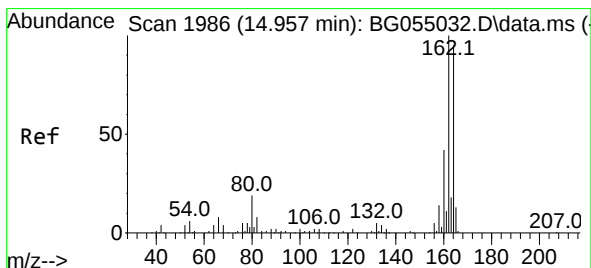
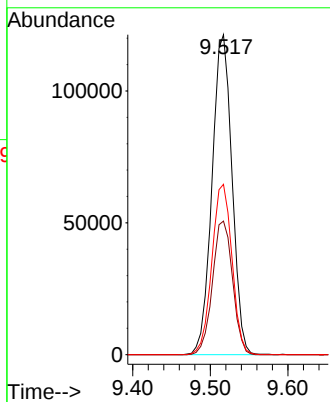
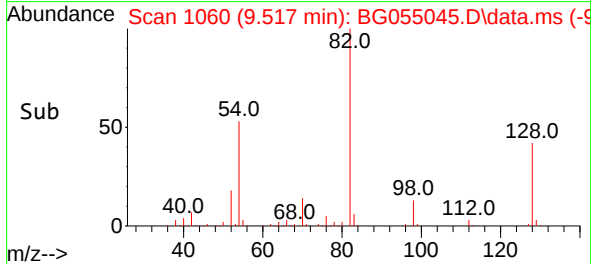
Instrument :
BNA_G
ClientSampleId :
TOPSOIL-STORMWATER-DENALI



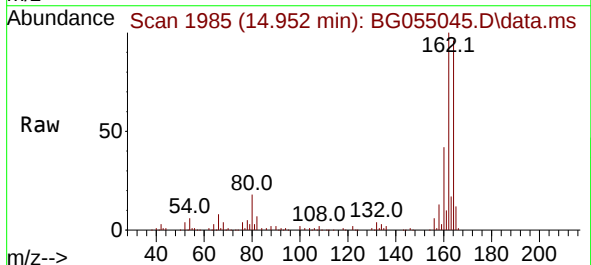
Tgt Ion: 82 Resp: 21777
Ion Ratio Lower Upper
82 100
128 41.7 32.2 48.2
54 53.2 41.4 62.0

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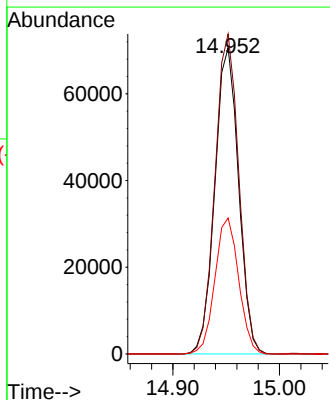
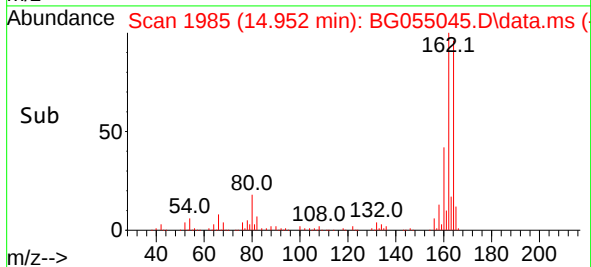
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Supervised By :mohammad ahmed 10/10/2022

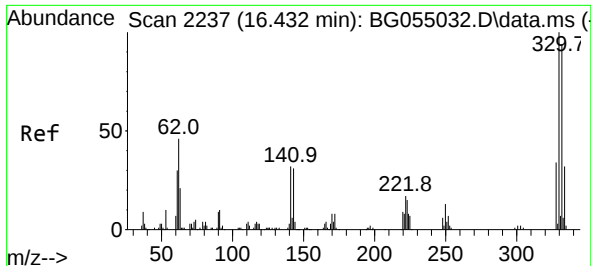


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.952 min Scan# 1985
Delta R.T. -0.005 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02



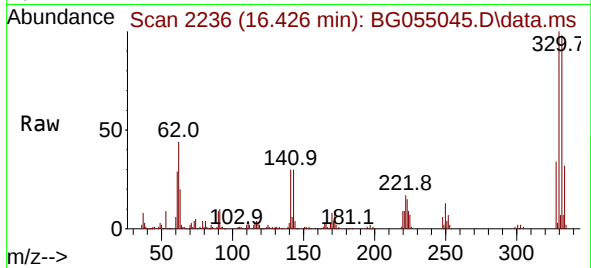
Tgt Ion:164 Resp: 108894
Ion Ratio Lower Upper
164 100
162 104.5 83.0 124.4
160 44.4 38.0 57.0





#42
2,4,6-Tribromophenol
Concen: 132.603 ng
RT: 16.426 min Scan# 21
Delta R.T. -0.005 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02

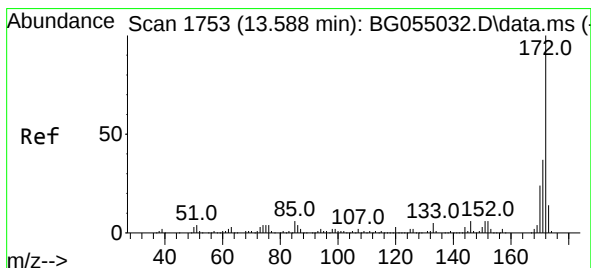
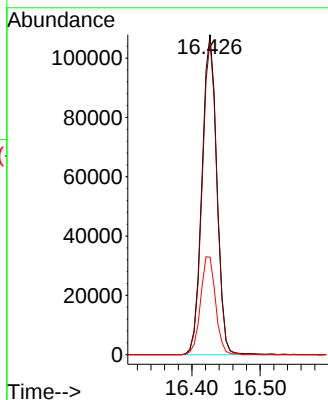
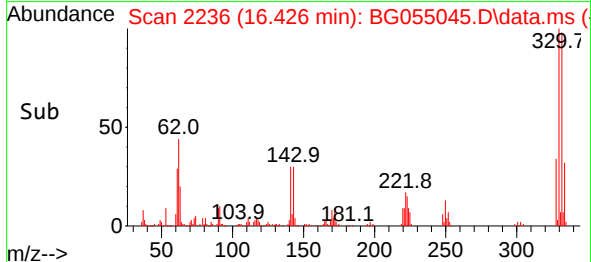
Instrument :
BNA_G
ClientSampleId :
TOPSOIL-STORMWATER-DENALI



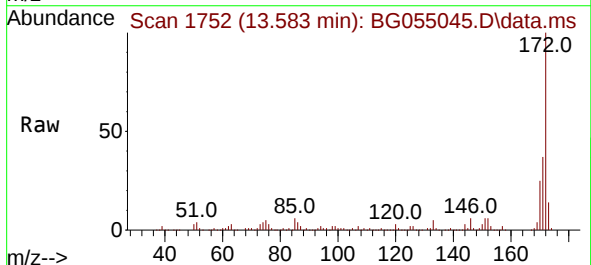
Tgt Ion:330 Resp: 16384
Ion Ratio Lower Upper
330 100
332 96.5 79.8 119.6
141 30.8 26.8 40.2

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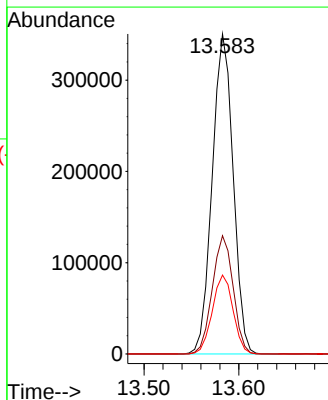
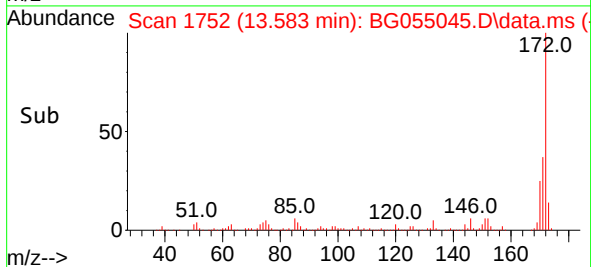
Reviewed By :Jagrut Upadhyay 10/01/2022
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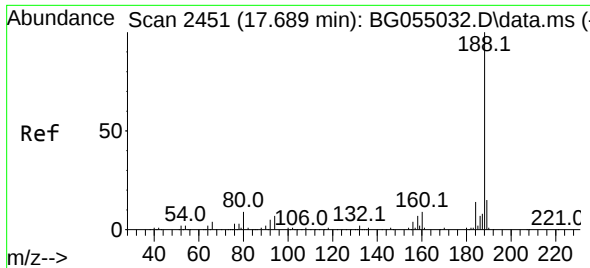


#45
2-Fluorobiphenyl
Concen: 77.802 ng
RT: 13.583 min Scan# 1752
Delta R.T. -0.005 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02



Tgt Ion:172 Resp: 538224
Ion Ratio Lower Upper
172 100
171 37.0 31.2 46.8
170 24.7 20.6 30.8





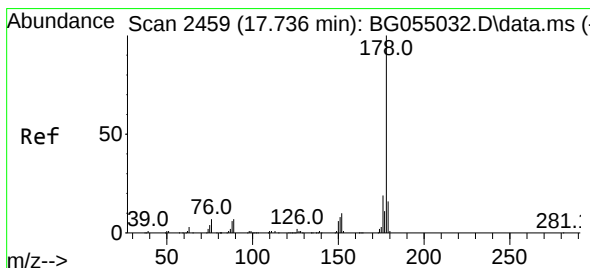
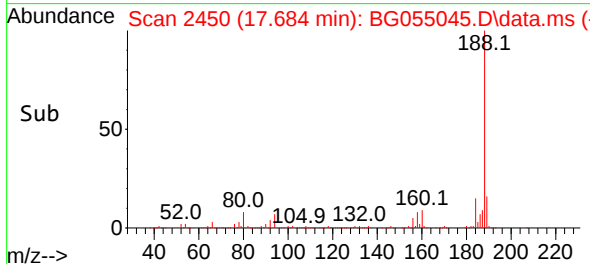
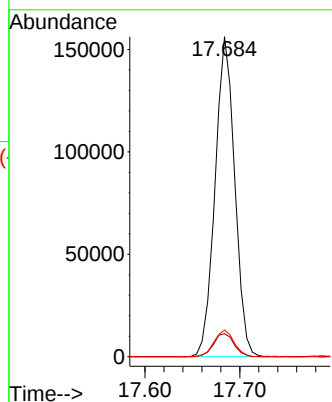
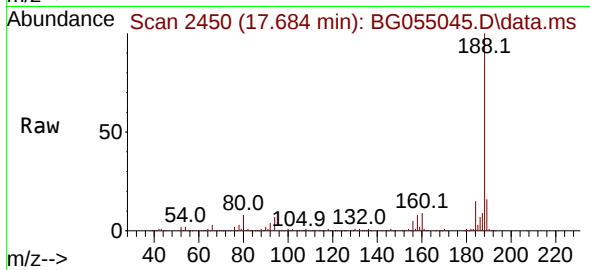
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.684 min Scan# 2451
Delta R.T. -0.005 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02

Instrument :
BNA_G
ClientSampleId :
TOPSOIL-STORMWATER-DENALI

Tgt Ion:188 Resp: 22505
Ion Ratio Lower Upper
188 100
94 7.2 7.0 10.4
80 8.3 7.9 11.9

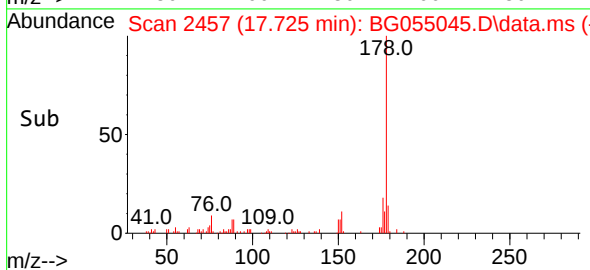
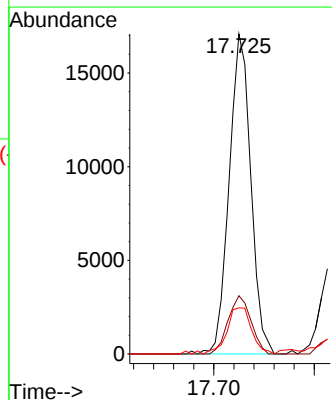
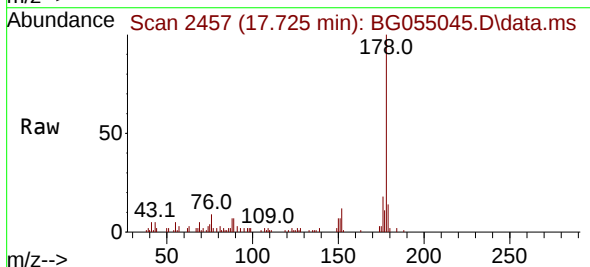
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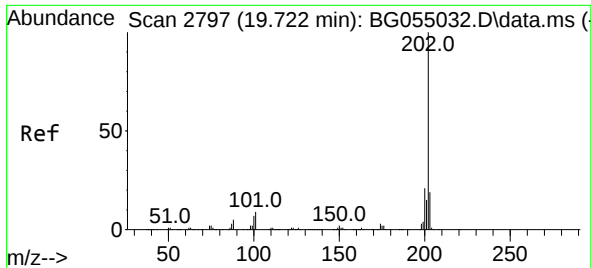
Reviewed By :Jagrut Upadhyay 10/01/2022
Supervised By :mohammad ahmed 10/10/2022



#71
Phenanthrene
Concen: 2.200 ng
RT: 17.725 min Scan# 2457
Delta R.T. -0.011 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02

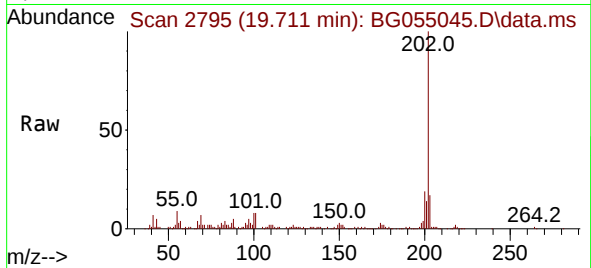
Tgt Ion:178 Resp: 25556
Ion Ratio Lower Upper
178 100
176 18.2 16.6 25.0
179 14.4 12.8 19.2





#75
Fluoranthene
Concen: 6.588 ng
RT: 19.711 min Scan# 21
Delta R.T. -0.011 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02

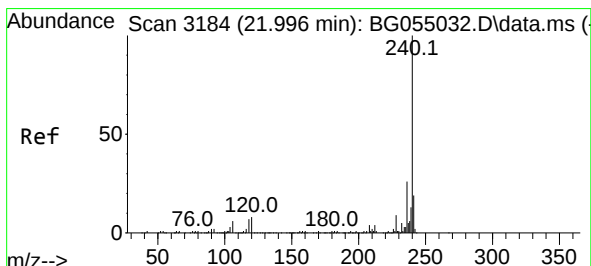
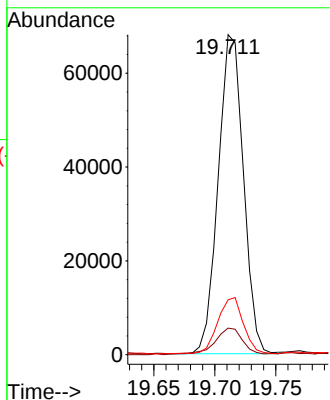
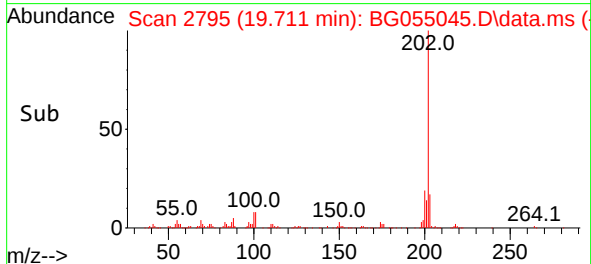
Instrument :
BNA_G
ClientSampleId :
TOPSOIL-STORMWATER-DENALI



Tgt Ion:202 Resp: 9809
Ion Ratio Lower Upper
202 100
101 8.3 0.0 31.4
203 17.2 0.0 38.6

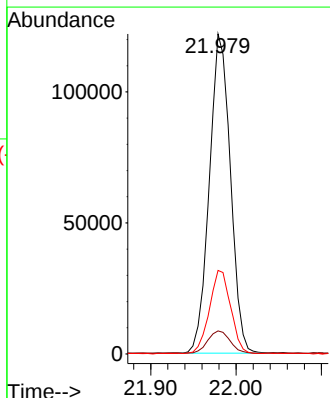
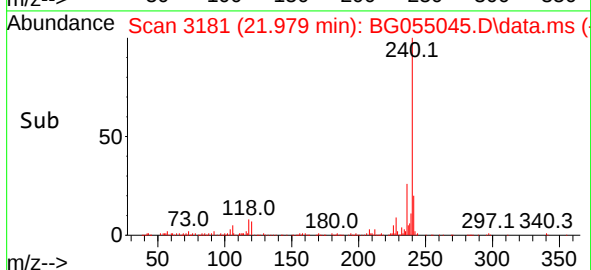
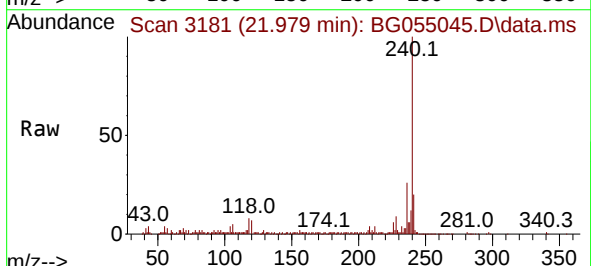
Manual Integrations
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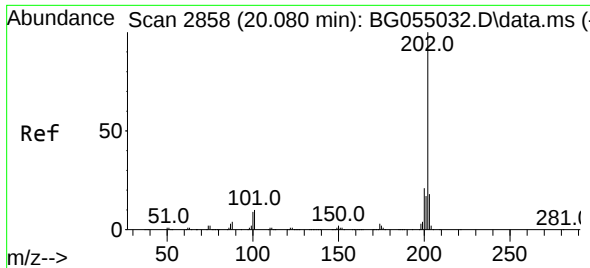
Reviewed By :Jagrut Upadhyay 10/01/2022
Supervised By :mohammad ahmed 10/10/2022



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.979 min Scan# 3181
Delta R.T. -0.017 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02

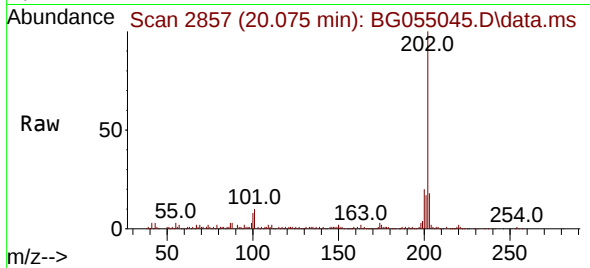
Tgt Ion:240 Resp: 208927
Ion Ratio Lower Upper
240 100
120 7.2 8.2 12.4#
236 26.1 21.2 31.8





#78
 Pyrene
 Concen: 7.225 ng
 RT: 20.075 min Scan# 2858
 Delta R.T. -0.005 min
 Lab File: BG055045.D
 Acq: 30 Sep 2022 18:02

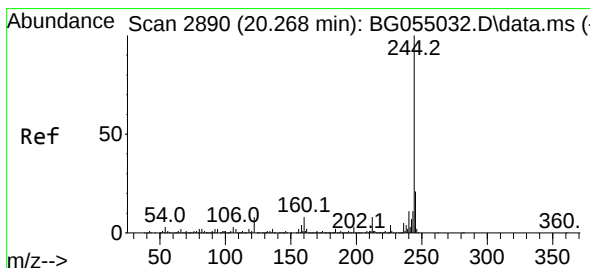
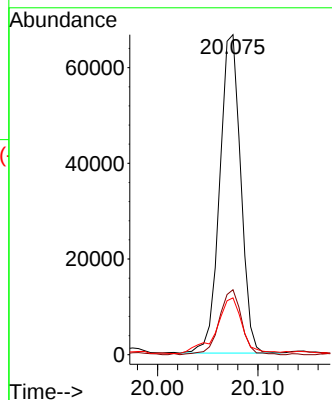
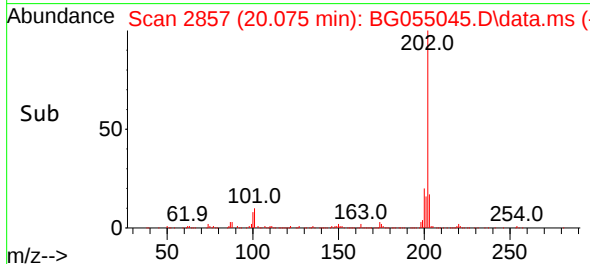
Instrument : BNA_G
 ClientSampleId : TOPSOIL-STORMWATER-DENALI



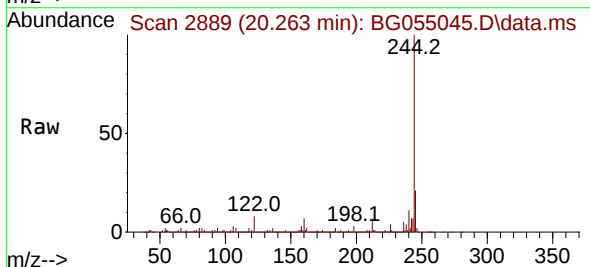
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 Ion Ratio Lower Upper
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 200 20.3 17.8 26.6
 203 17.8 14.6 21.8

Manual Integrations
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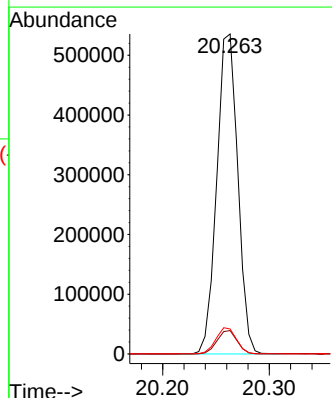
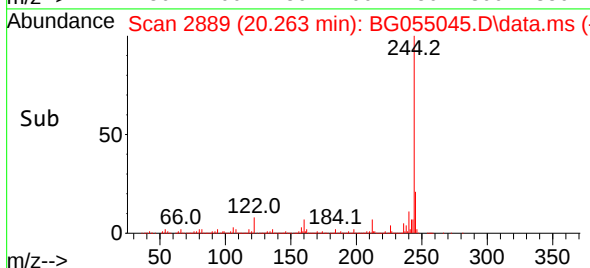
Reviewed By :Jagrut Upadhyay 10/01/2022
 Supervised By :mohammad ahmed 10/10/2022

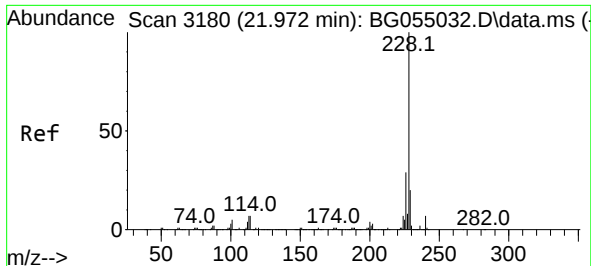


#79
 Terphenyl-d14
 Concen: 73.046 ng
 RT: 20.263 min Scan# 2889
 Delta R.T. -0.005 min
 Lab File: BG055045.D
 Acq: 30 Sep 2022 18:02



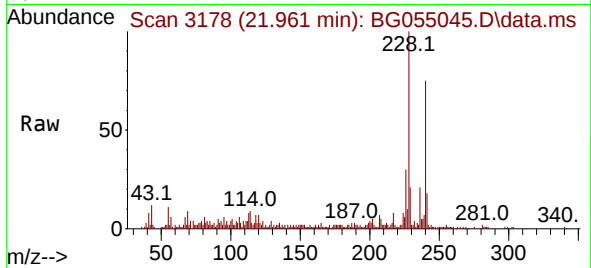
Tgt Ion:244 Resp: 731863
 Ion Ratio Lower Upper
 244 100
 212 7.3 6.2 9.2
 122 7.8 9.0 13.6#





#81
Benzo(a)anthracene
Concen: 4.698 ng
RT: 21.961 min Scan# 3180
Delta R.T. -0.011 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02

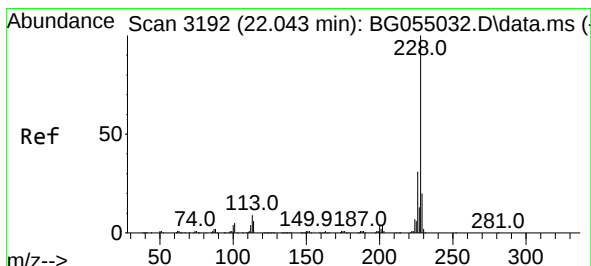
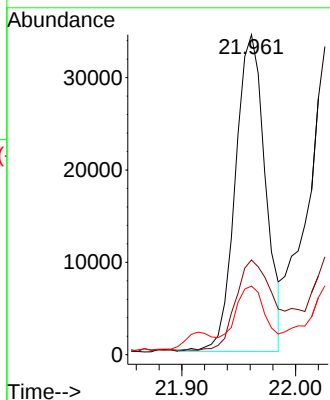
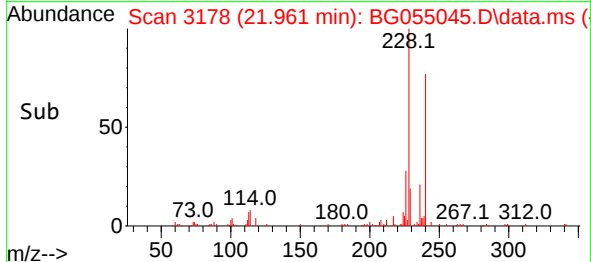
Instrument : BNA_G
ClientSampleId : TOPSOIL-STORMWATER-DENALI



Tgt Ion:228 Resp: 62879
Ion Ratio Lower Upper
228 100
226 29.6 23.4 35.2
229 21.5 16.5 24.7

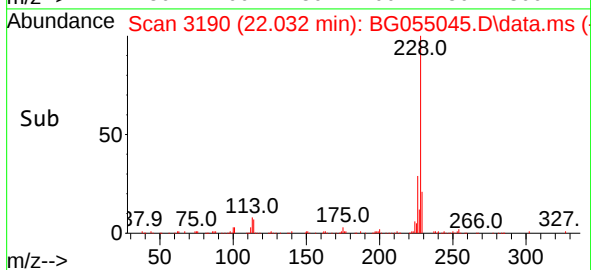
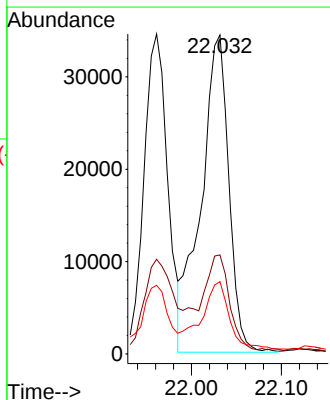
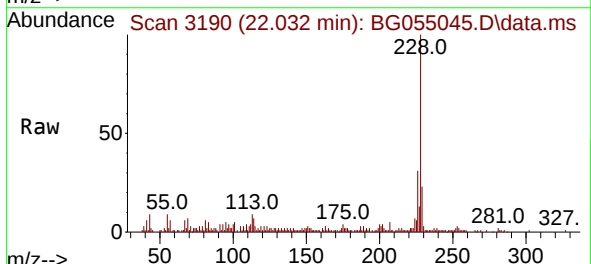
Manual Integrations
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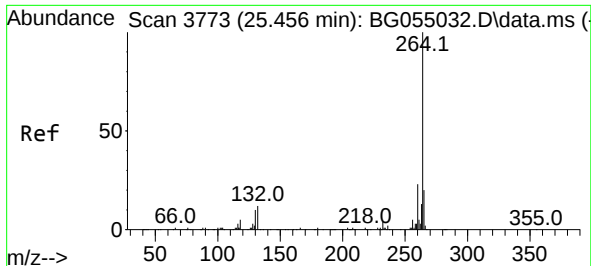
Reviewed By :Jagrut Upadhyay 10/01/2022
Supervised By :mohammad ahmed 10/10/2022



#83
Chrysene
Concen: 5.884 ng m
RT: 22.032 min Scan# 3190
Delta R.T. -0.011 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02

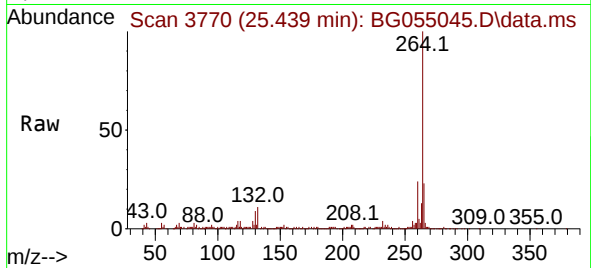
Tgt Ion:228 Resp: 74167
Ion Ratio Lower Upper
228 100
226 31.1 25.5 38.3
229 22.7 16.8 25.2





#86
Perylene-d12
Concen: 20.000 ng
RT: 25.439 min Scan# 31
Delta R.T. -0.017 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02

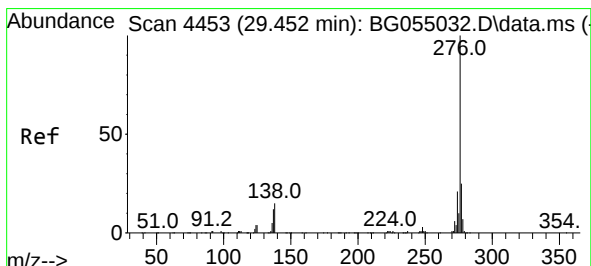
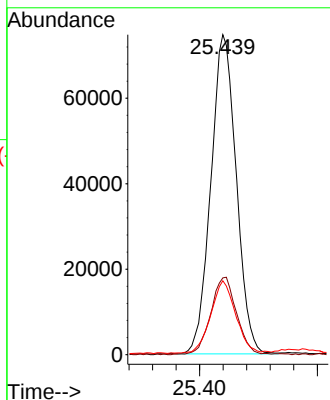
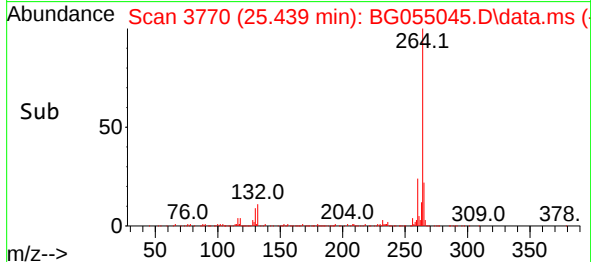
Instrument :
BNA_G
ClientSampleId :
TOPSOIL-STORMWATER-DENALI



Tgt Ion:264 Resp: 22370
Ion Ratio Lower Upper
264 100
260 24.0 19.9 29.9
265 23.1 16.9 25.3

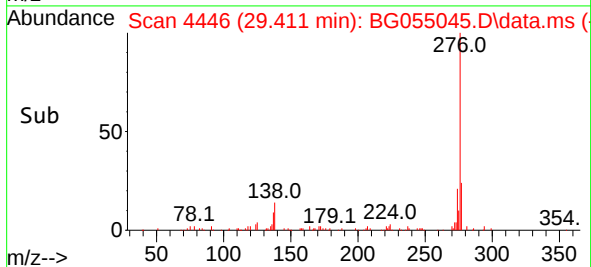
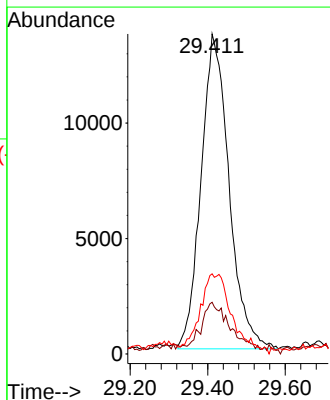
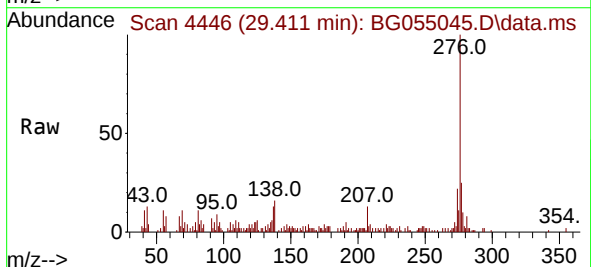
Manual Integrations
APPROVED

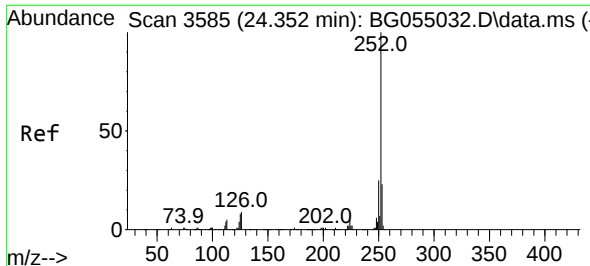
Reviewed By :Jagrut Upadhyay 10/01/2022
Supervised By :mohammad ahmed 10/10/2022



#87
Indeno(1,2,3-cd)pyrene
Concen: 4.180 ng
RT: 29.411 min Scan# 4446
Delta R.T. -0.040 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02

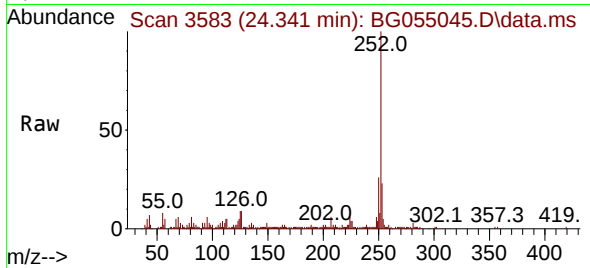
Tgt Ion:276 Resp: 68312
Ion Ratio Lower Upper
276 100
138 14.6 12.0 18.0
277 29.4 20.2 30.4





#88
Benzo(b)fluoranthene
Concen: 9.183 ng
RT: 24.341 min Scan# 3585
Delta R.T. -0.011 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02

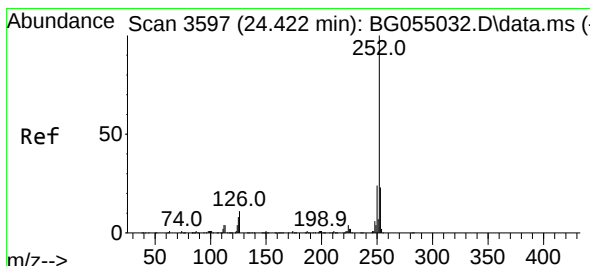
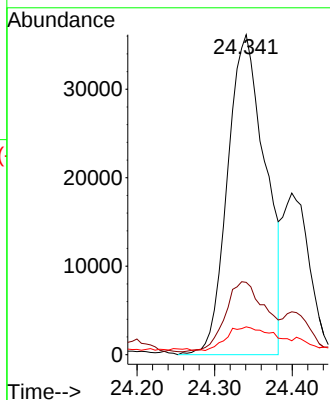
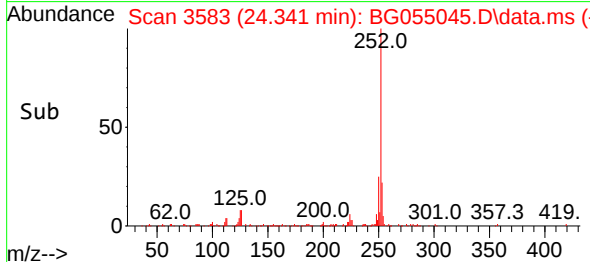
Instrument : BNA_G
ClientSampleId : TOPSOIL-STORMWATER-DENALI



Tgt Ion:252 Resp: 122315
Ion Ratio Lower Upper
252 100
253 22.6 18.0 27.0
125 8.7 8.1 12.1

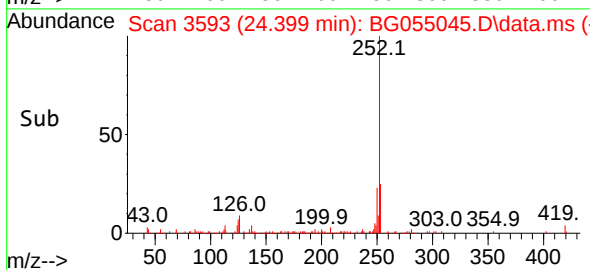
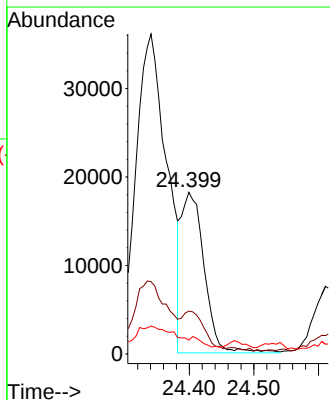
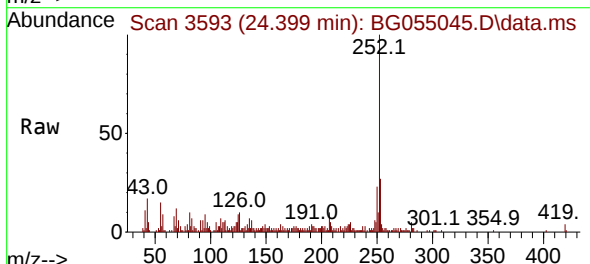
Manual Integrations
APPROVED

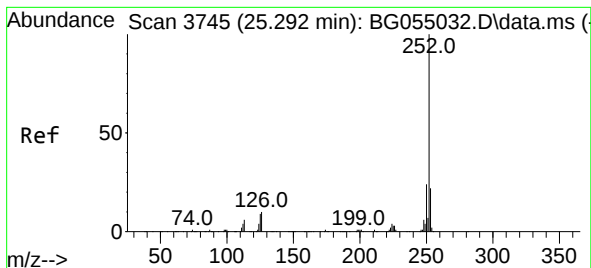
Reviewed By :Jagrut Upadhyay 10/01/2022
Supervised By :mohammad ahmed 10/10/2022



#89
Benzo(k)fluoranthene
Concen: 3.374 ng m
RT: 24.399 min Scan# 3593
Delta R.T. -0.023 min
Lab File: BG055045.D
Acq: 30 Sep 2022 18:02

Tgt Ion:252 Resp: 44462
Ion Ratio Lower Upper
252 100
253 26.5 17.8 26.8
125 8.6 8.2 12.4





#90

Benzo(a)pyrene

Concen: 7.285 ng

RT: 25.275 min Scan# 31

Delta R.T. -0.017 min

Lab File: BG055045.D

Acq: 30 Sep 2022 18:02

Instrument :

BNA_G

ClientSampleId :

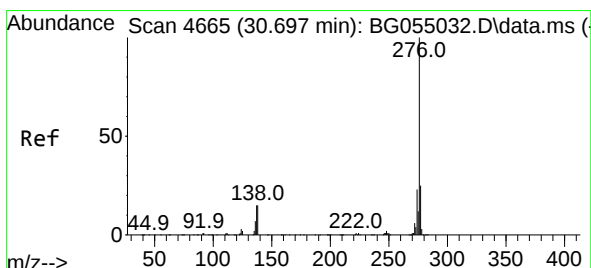
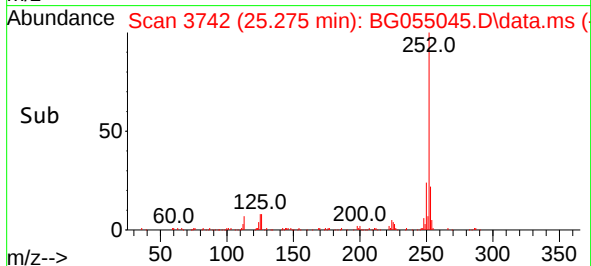
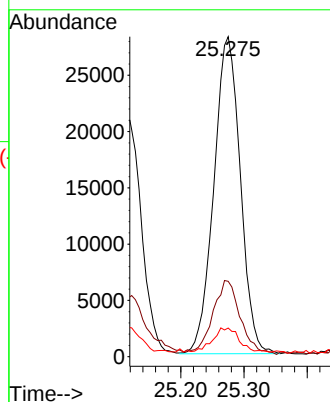
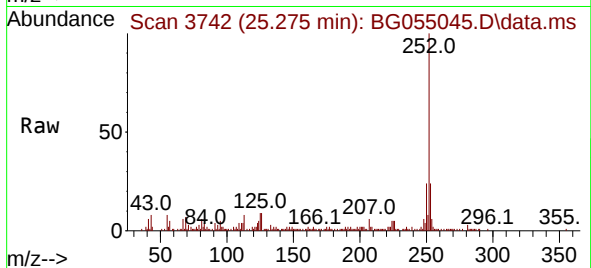
TOPSOIL-STORMWATER-DENALI

Tgt Ion:252 Resp: 82010
 Ion Ratio Lower Upper
 252 100
 253 23.6 18.3 27.5
 125 9.0 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 10/01/2022
 Supervised By :mohammad ahmed 10/10/2022



#92

Benzo(g,h,i)perylene

Concen: 4.985 ng

RT: 30.663 min Scan# 4659

Delta R.T. -0.034 min

Lab File: BG055045.D

Acq: 30 Sep 2022 18:02

Tgt Ion:276 Resp: 65967
 Ion Ratio Lower Upper
 276 100
 277 22.0 19.4 29.0
 138 15.4 16.6 25.0#

