

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080323\
 Data File : BM041259.D
 Acq On : 03 Aug 2023 13:07
 Operator : MA/JU
 Sample : 03795-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 TOPSOIL-OU3-DENALI-TEMP

Quant Time: Aug 04 01:17:50 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 02 19:20:51 2023
 Response via : Initial Calibration

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

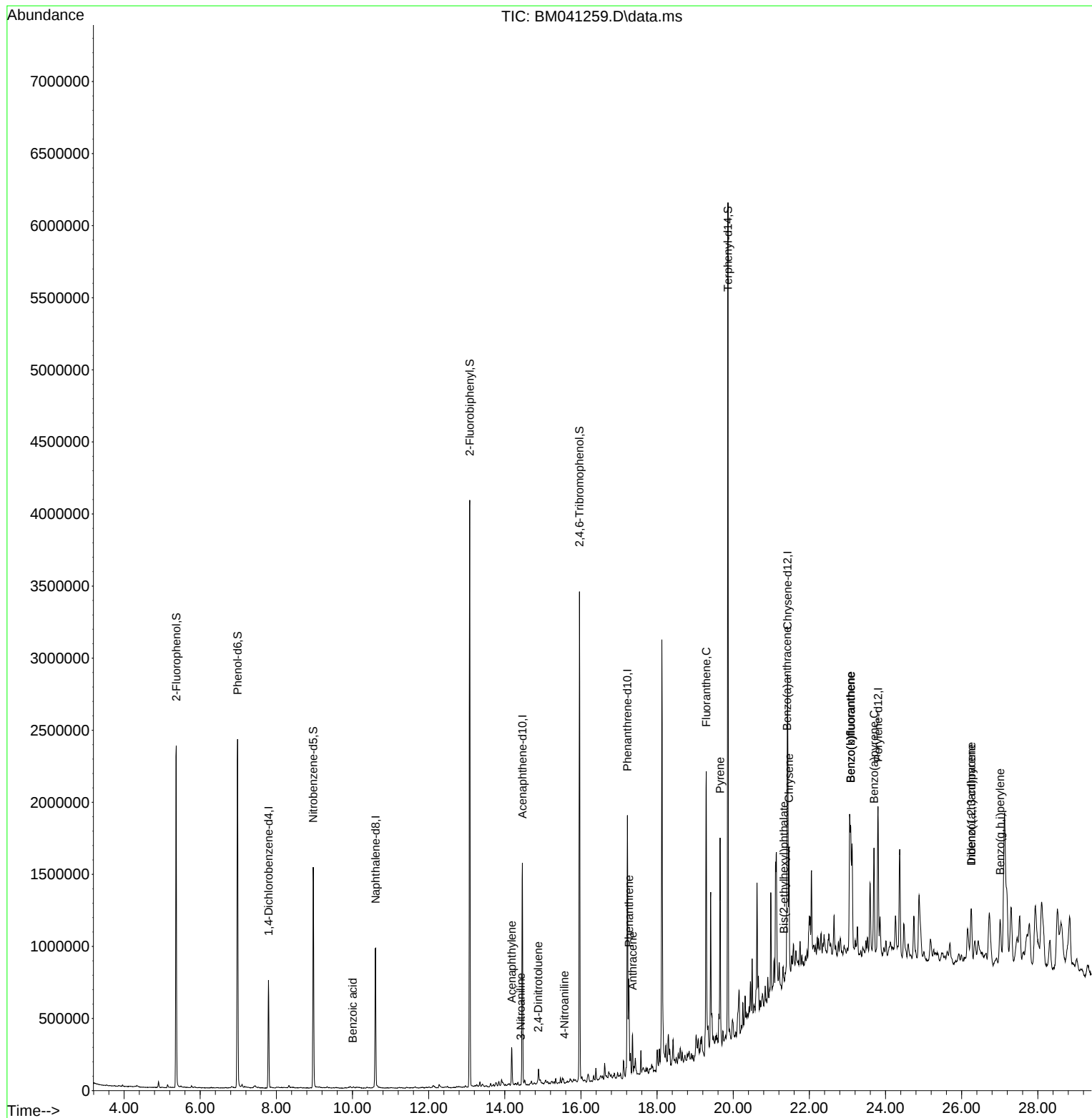
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.793	152	185632	20.000	ng	0.00
21) Naphthalene-d8	10.604	136	790499	20.000	ng	0.00
39) Acenaphthene-d10	14.463	164	502632	20.000	ng	0.00
64) Phenanthrene-d10	17.221	188	1014410	20.000	ng	0.00
76) Chrysene-d12	21.427	240	710415	20.000	ng	0.00
86) Perylene-d12	23.803	264	758320	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	994877	80.101	ng	0.00
7) Phenol-d6	6.981	99	1333693	82.840	ng	0.00
23) Nitrobenzene-d5	8.969	82	858181	50.486	ng	0.00
42) 2,4,6-Tribromophenol	15.963	330	609856	85.781	ng	0.00
45) 2-Fluorobiphenyl	13.081	172	2037574	51.210	ng	0.00
79) Terphenyl-d14	19.862	244	2719005	69.200	ng	0.00
Target Compounds						Qvalue
32) Benzoic acid	10.004	122	909	7.242	ng	# 1
49) Acenaphthylene	14.181	152	200353	4.080	ng	99
53) 3-Nitroaniline	14.422	138	121	2.590	ng	# 67
57) 2,4-Dinitrotoluene	14.875	165	590	2.720	ng	# 68
62) 4-Nitroaniline	15.569	138	61	4.154	ng	# 41
71) Phenanthrene	17.263	178	238390	4.230	ng	99
72) Anthracene	17.357	178	175658	3.151	ng	100
75) Fluoranthene	19.292	202	870008	13.740	ng	99
78) Pyrene	19.657	202	873413	17.581	ng	100
81) Benzo(a)anthracene	21.415	228	504010	10.465	ng	95
83) Chrysene	21.462	228	485066	10.413	ng	97
84) Bis(2-ethylhexyl)phtha...	21.333	149	9854	2.863	ng	# 84
87) Indeno(1,2,3-cd)pyrene	26.250	276	381572	6.844	ng	# 93
88) Benzo(b)fluoranthene	23.086	252	775451	17.214	ng	98
89) Benzo(k)fluoranthene	23.086	252	775451	16.828	ng	98
90) Benzo(a)pyrene	23.698	252	525991	12.152	ng	97
91) Dibenzo(a,h)anthracene	26.256	278	106265	2.285	ng	# 87
92) Benzo(g,h,i)perylene	27.009	276	379393	8.338	ng	97

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

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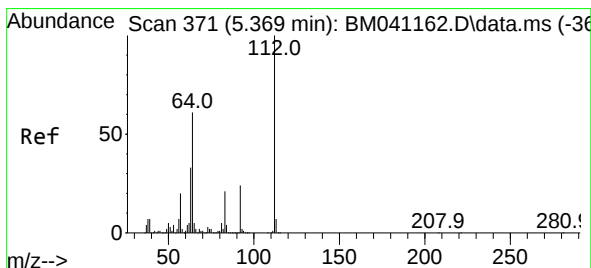
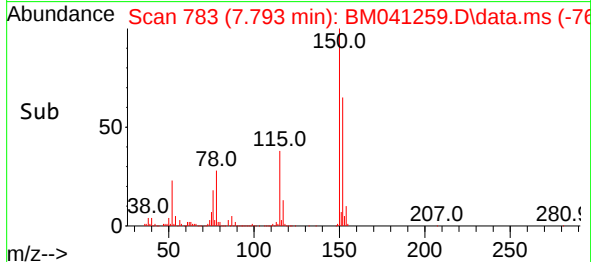
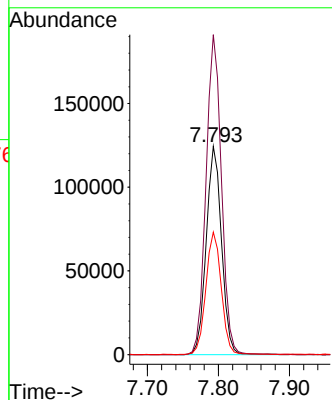
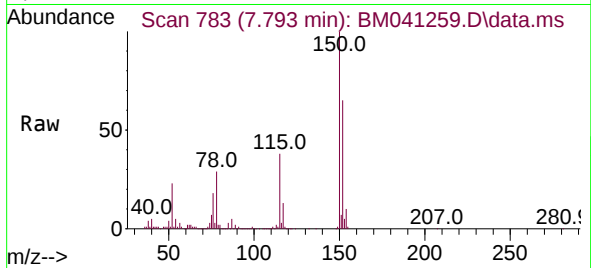




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.793 min Scan# 783
Delta R.T. -0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

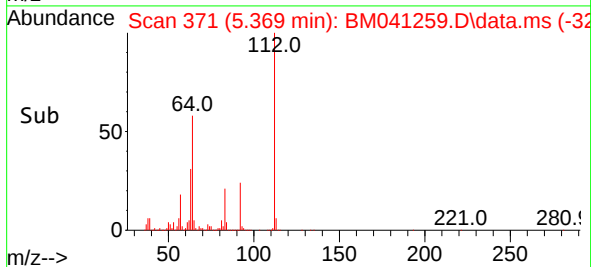
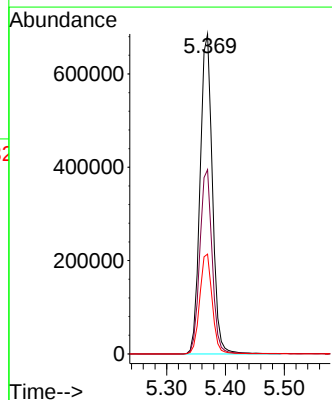
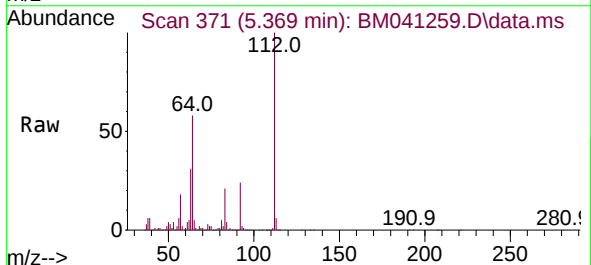
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BNA_M
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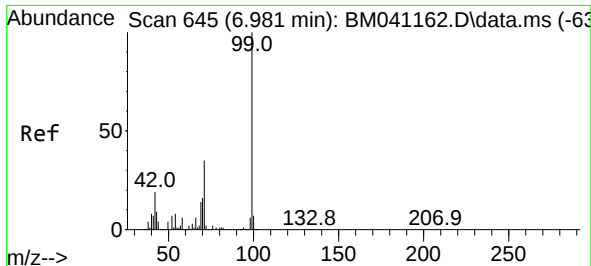
Tgt Ion:152 Resp: 185632
Ion Ratio Lower Upper
152 100
150 153.7 125.5 188.3
115 58.8 48.0 72.0



#5
2-Fluorophenol
Concen: 80.101 ng
RT: 5.369 min Scan# 371
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

Tgt Ion:112 Resp: 994877
Ion Ratio Lower Upper
112 100
64 57.6 48.5 72.7
63 31.2 26.5 39.7

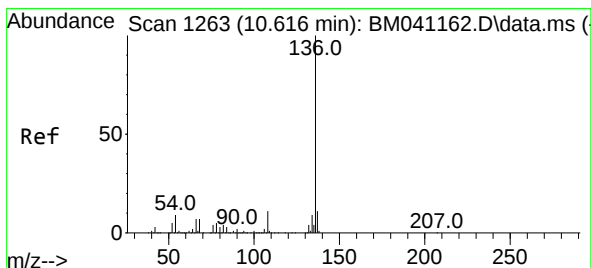
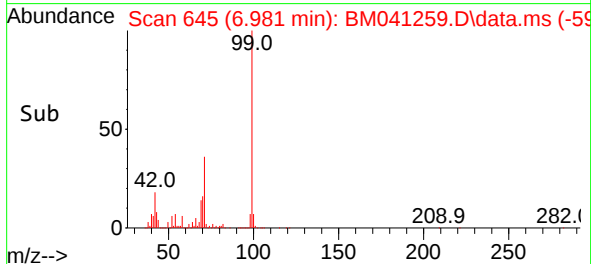
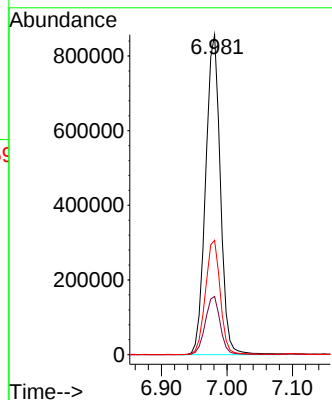
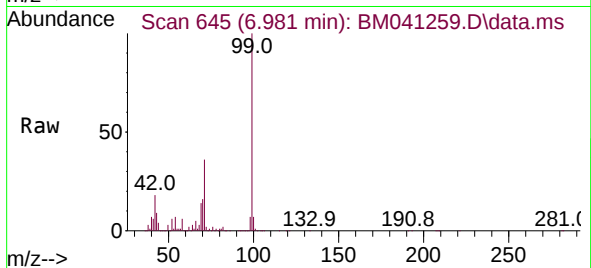




#7
Phenol-d6
Concen: 82.840 ng
RT: 6.981 min Scan# 645
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

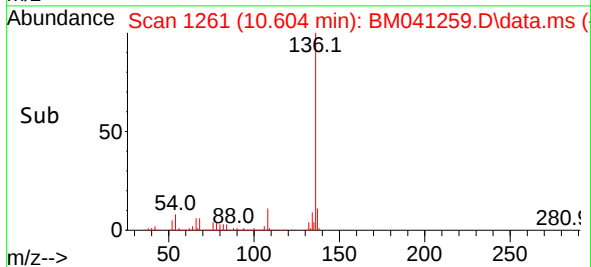
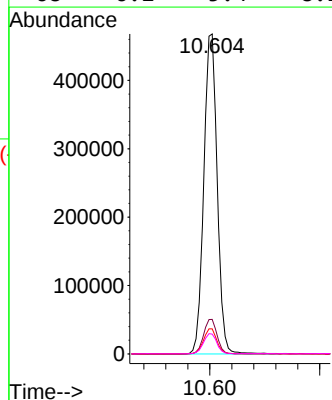
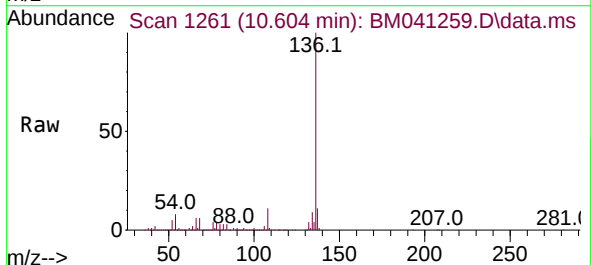
Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP

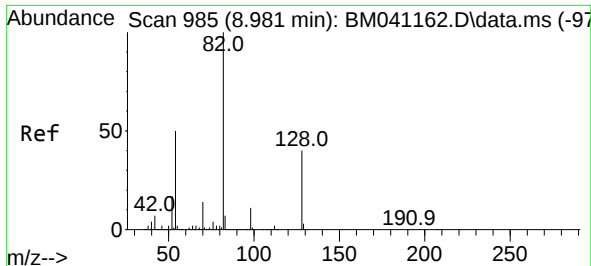
Tgt Ion: 99 Resp: 1333693
Ion Ratio Lower Upper
99 100
42 18.2 15.4 23.0
71 35.7 28.2 42.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.604 min Scan# 1261
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

Tgt Ion:136 Resp: 790499
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 7.8 6.9 10.3
68 6.2 5.4 8.2

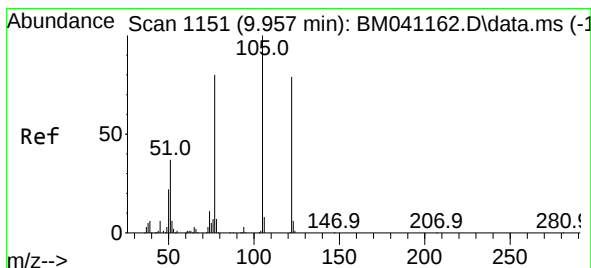
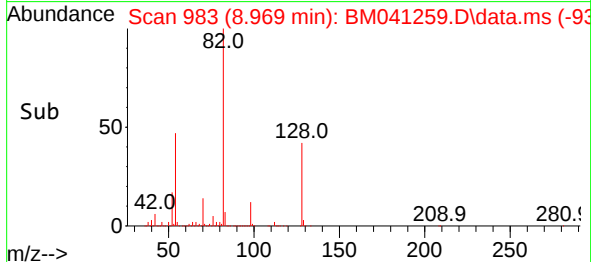
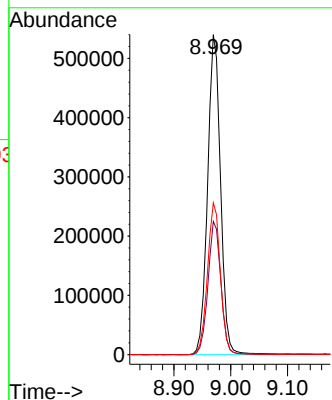
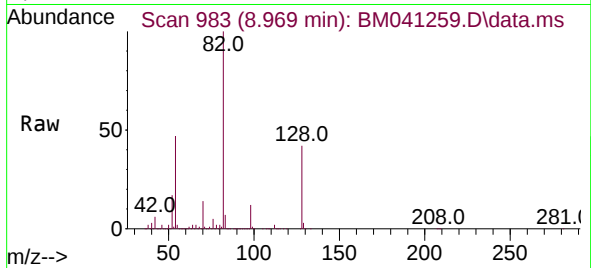




#23
Nitrobenzene-d5
Concen: 50.486 ng
RT: 8.969 min Scan# 985
Delta R.T. -0.006 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

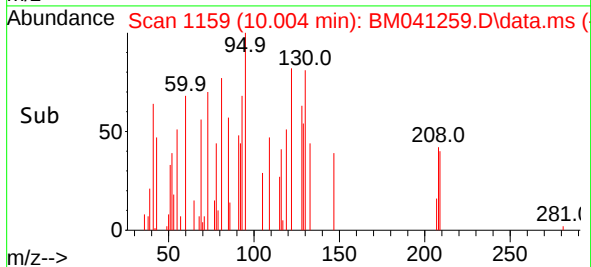
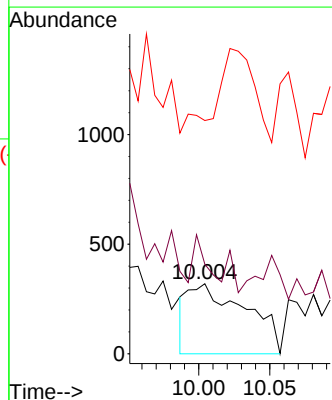
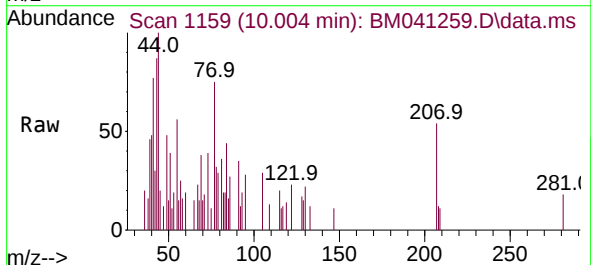
Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP

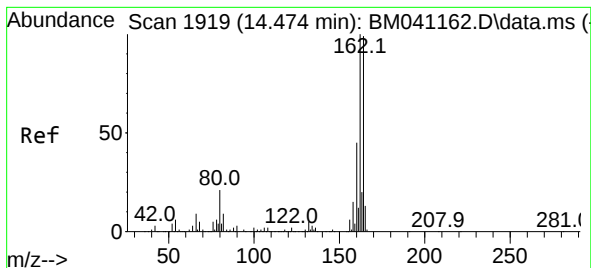
Tgt Ion: 82 Resp: 858181
Ion Ratio Lower Upper
82 100
128 41.6 31.8 47.6
54 47.4 40.1 60.1



#32
Benzoic acid
Concen: 7.242 ng
RT: 10.004 min Scan# 1159
Delta R.T. 0.047 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

Tgt Ion: 122 Resp: 909
Ion Ratio Lower Upper
122 100
105 127.8 104.0 144.0
77 332.5 79.9 119.9#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.463 min Scan# 1919

Delta R.T. 0.000 min

Lab File: BM041259.D

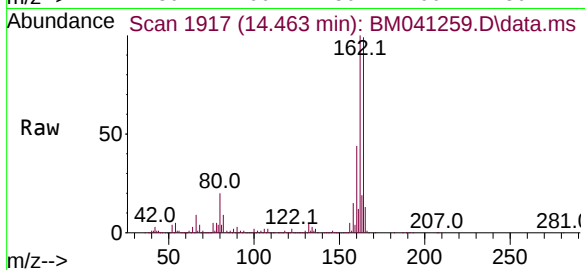
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Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP



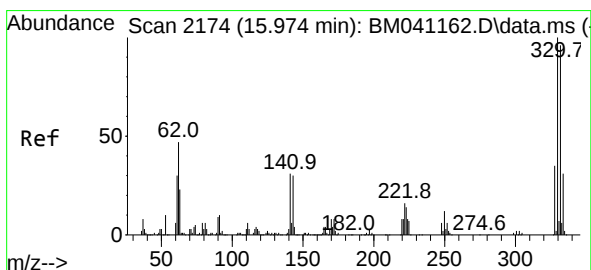
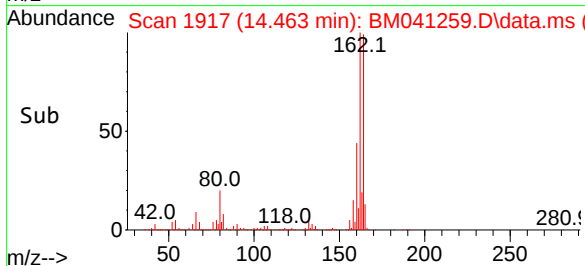
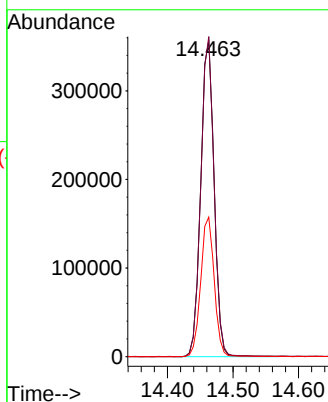
Tgt Ion:164 Resp: 502632

Ion Ratio Lower Upper

164 100

162 101.2 80.4 120.6

160 44.1 36.2 54.2



#42

2,4,6-Tribromophenol

Concen: 85.781 ng

RT: 15.963 min Scan# 2172

Delta R.T. -0.006 min

Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

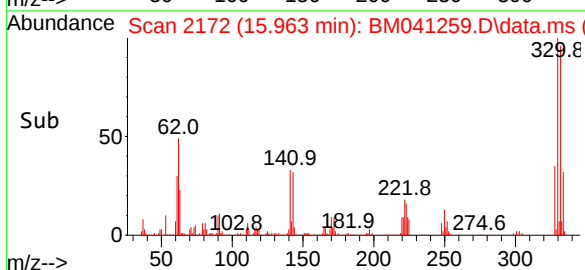
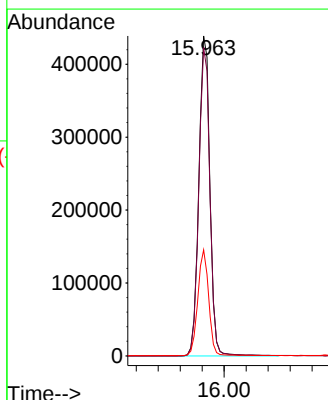
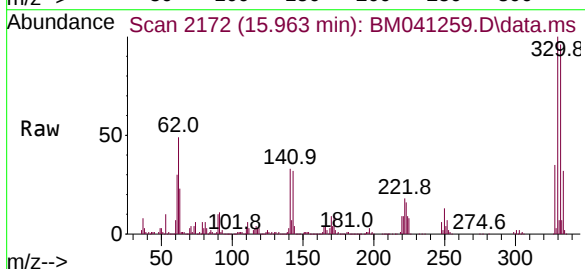
Tgt Ion:330 Resp: 609856

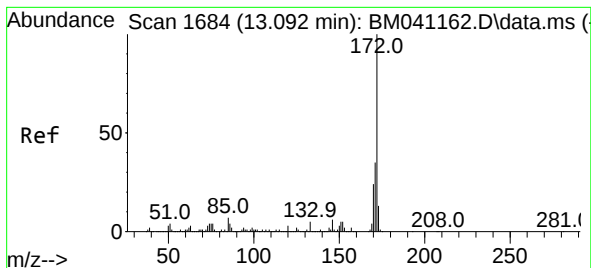
Ion Ratio Lower Upper

330 100

332 96.9 77.7 116.5

141 32.4 28.3 42.5





#45

2-Fluorobiphenyl

Concen: 51.210 ng

RT: 13.081 min Scan# 1

Delta R.T. 0.000 min

Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP

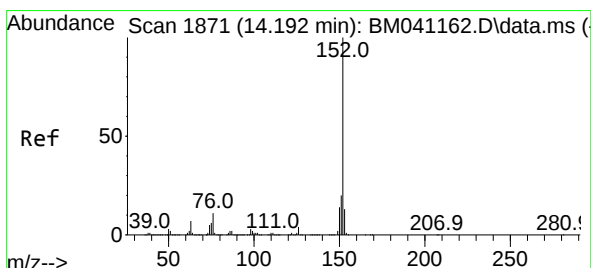
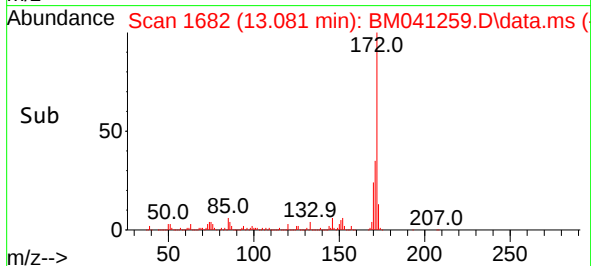
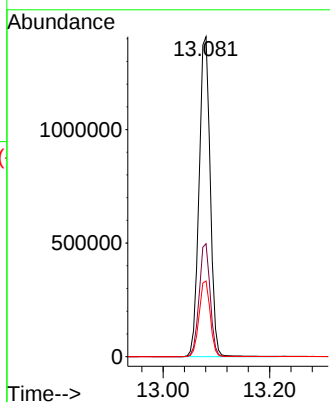
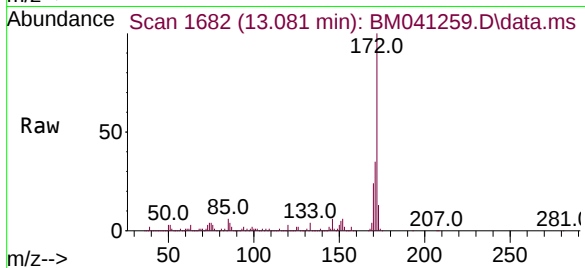
Tgt Ion:172 Resp: 2037574

Ion Ratio Lower Upper

172 100

171 35.3 28.1 42.1

170 23.6 18.9 28.3



#49

Acenaphthylene

Concen: 4.080 ng

RT: 14.181 min Scan# 1869

Delta R.T. -0.006 min

Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

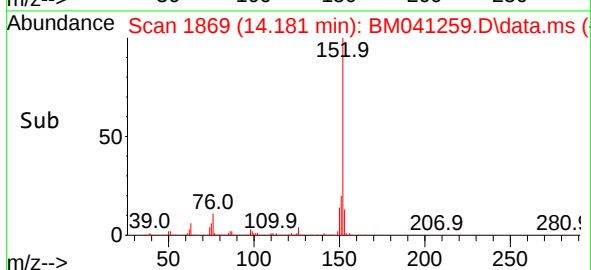
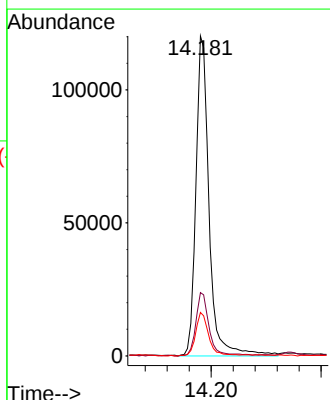
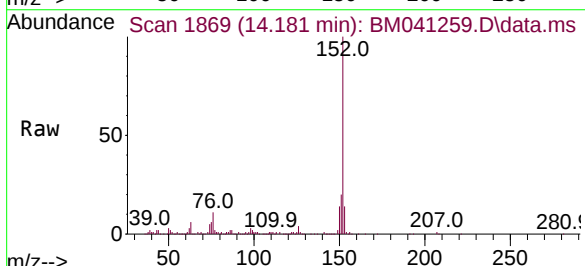
Tgt Ion:152 Resp: 200353

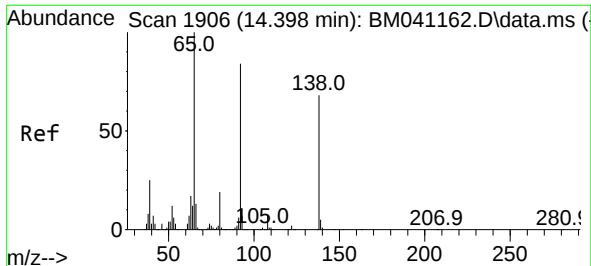
Ion Ratio Lower Upper

152 100

151 19.8 16.1 24.1

153 13.6 10.5 15.7

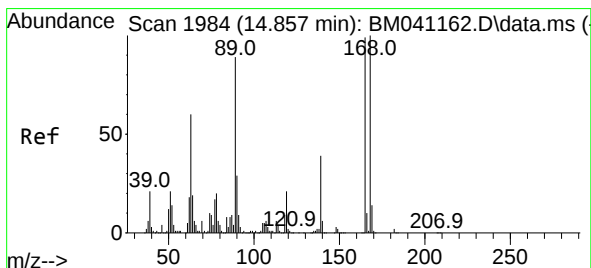
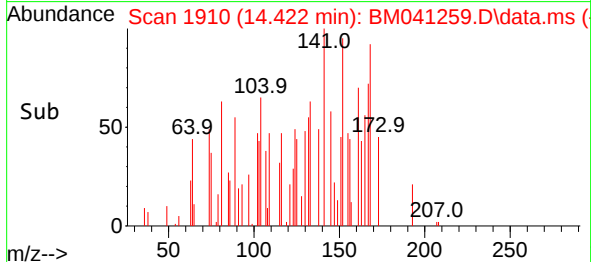
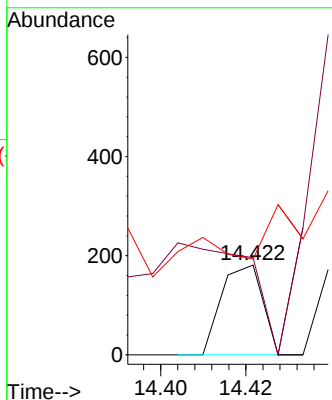
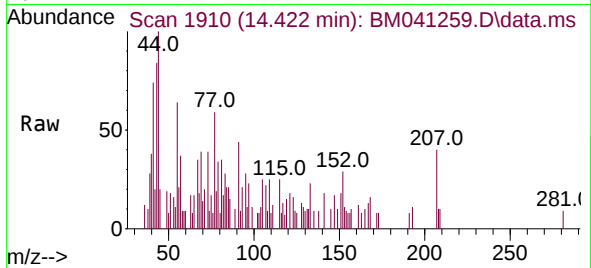




#53
3-Nitroaniline
Concen: 2.590 ng
RT: 14.422 min Scan# 1906
Delta R.T. 0.029 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

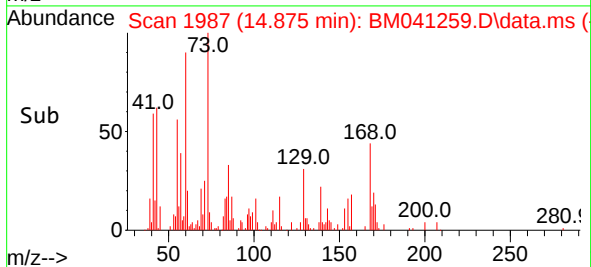
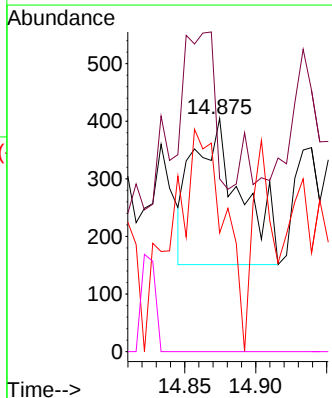
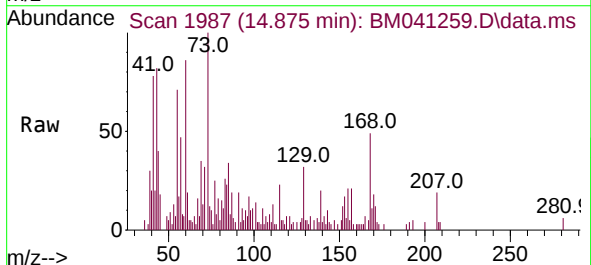
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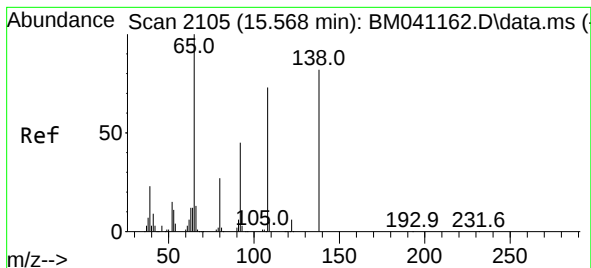
Tgt Ion:138 Resp: 121
Ion Ratio Lower Upper
138 100
108 108.3 7.6 11.4#
92 106.6 98.9 148.3



#57
2,4-Dinitrotoluene
Concen: 2.720 ng
RT: 14.875 min Scan# 1987
Delta R.T. 0.018 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

Tgt Ion:165 Resp: 590
Ion Ratio Lower Upper
165 100
63 74.1 48.3 72.5#
89 50.9 71.8 107.8#
182 0.0 2.0 3.0#

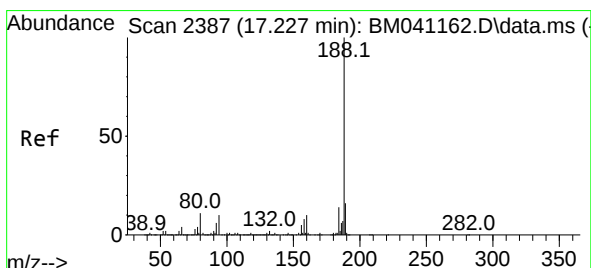
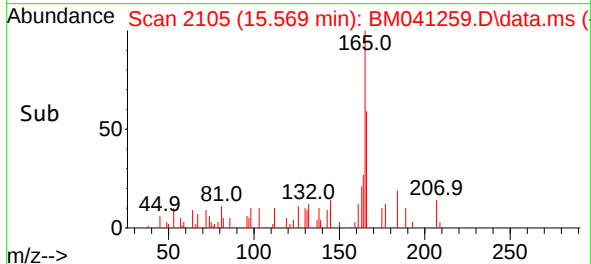
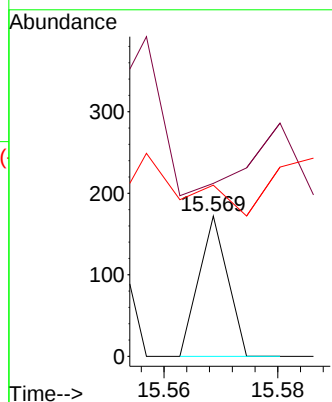
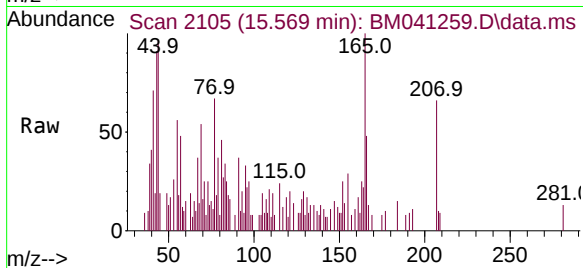




#62
4-Nitroaniline
Concen: 4.154 ng
RT: 15.569 min Scan# 2105
Delta R.T. 0.006 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

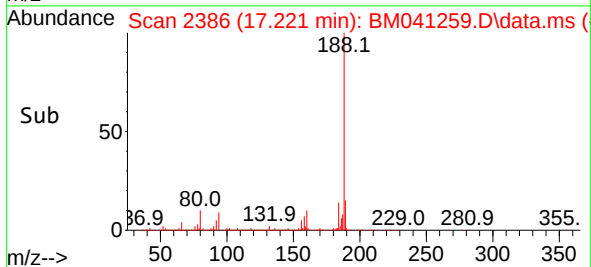
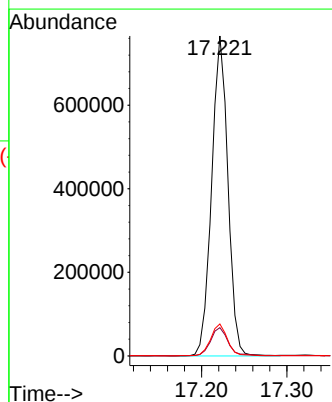
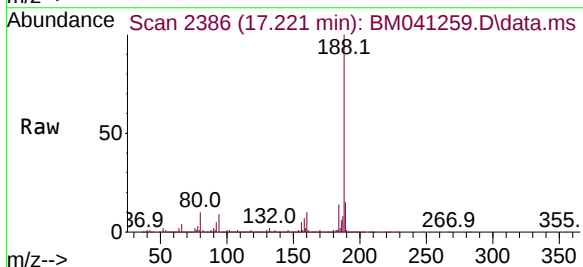
Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP

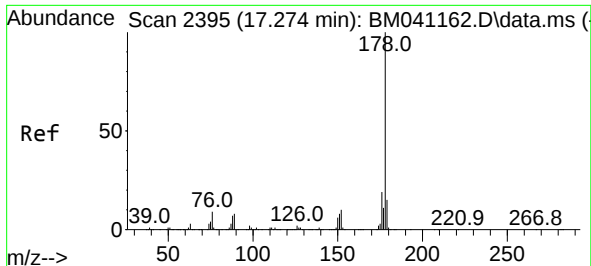
Tgt Ion:138 Resp: 61
Ion Ratio Lower Upper
138 100
92 123.3 35.1 75.1#
108 122.1 67.8 107.8#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.221 min Scan# 2386
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

Tgt Ion:188 Resp: 1014410
Ion Ratio Lower Upper
188 100
94 8.8 8.2 12.2
80 10.0 8.6 13.0

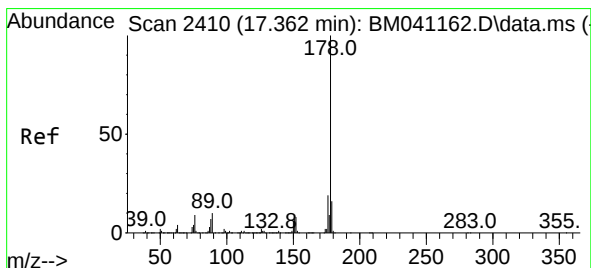
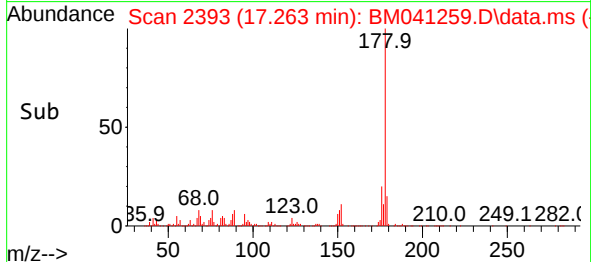
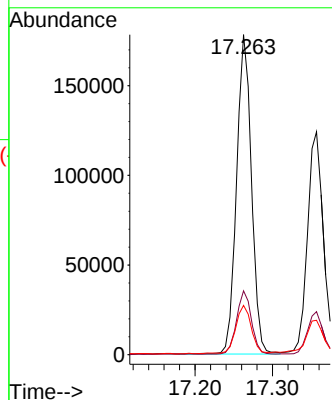
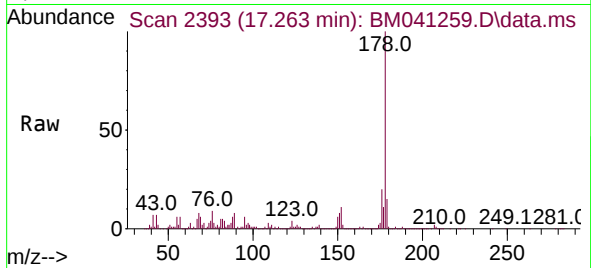




#71
Phenanthrene
Concen: 4.230 ng
RT: 17.263 min Scan# 2395
Delta R.T. -0.006 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

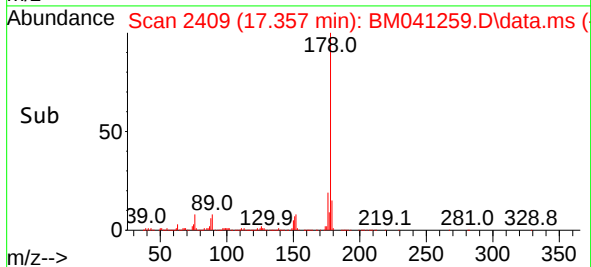
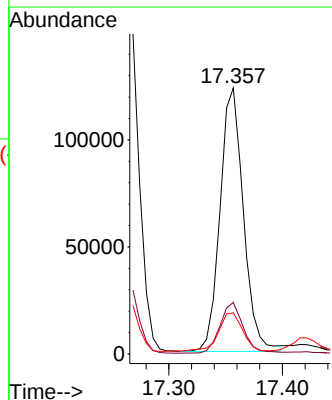
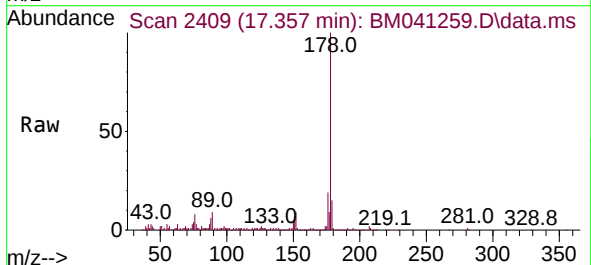
Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP

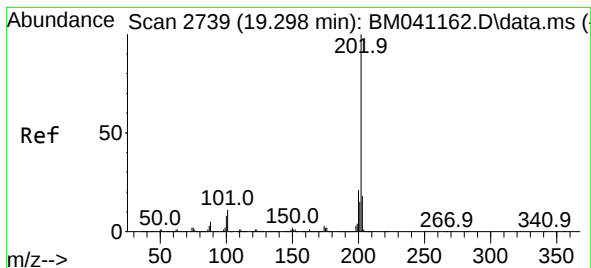
Tgt Ion:178 Resp: 238390
Ion Ratio Lower Upper
178 100
176 19.9 15.6 23.4
179 15.4 12.1 18.1



#72
Anthracene
Concen: 3.151 ng
RT: 17.357 min Scan# 2409
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

Tgt Ion:178 Resp: 175658
Ion Ratio Lower Upper
178 100
176 19.3 15.2 22.8
179 15.4 12.4 18.6





#75

Fluoranthene

Concen: 13.740 ng

RT: 19.292 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP

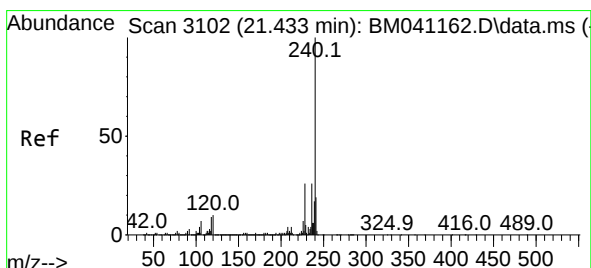
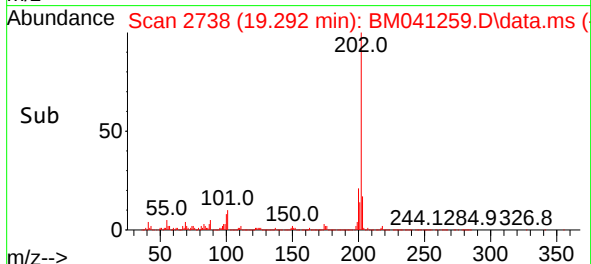
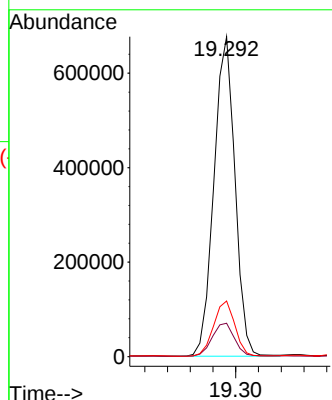
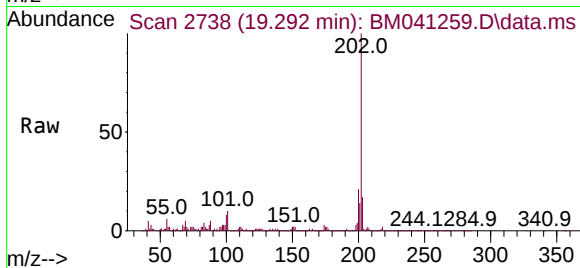
Tgt Ion:202 Resp: 870008

Ion Ratio Lower Upper

202 100

101 10.4 0.0 30.8

203 17.4 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.427 min Scan# 3101

Delta R.T. -0.006 min

Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

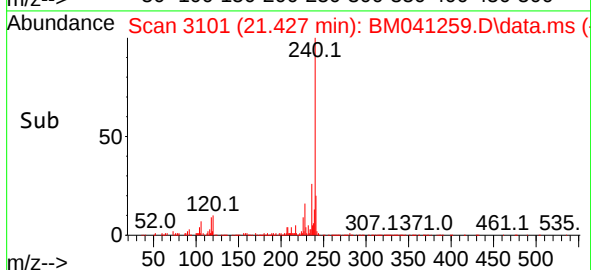
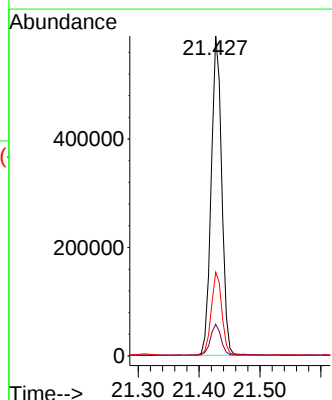
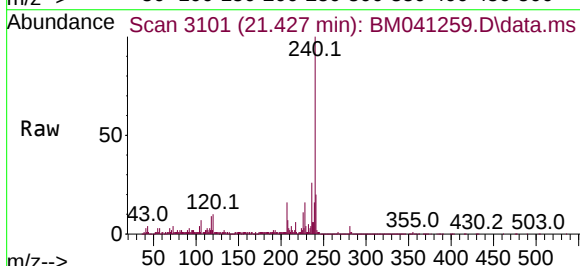
Tgt Ion:240 Resp: 710415

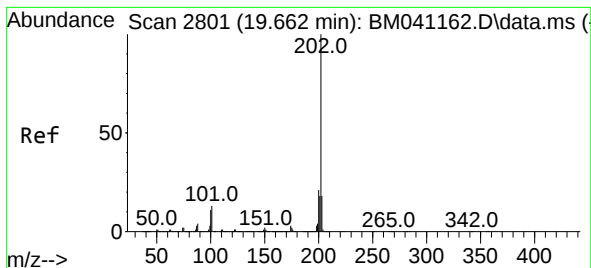
Ion Ratio Lower Upper

240 100

120 9.9 8.3 12.5

236 26.1 20.6 30.8





#78

Pyrene

Concen: 17.581 ng

RT: 19.657 min Scan# 2800

Delta R.T. 0.000 min

Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP

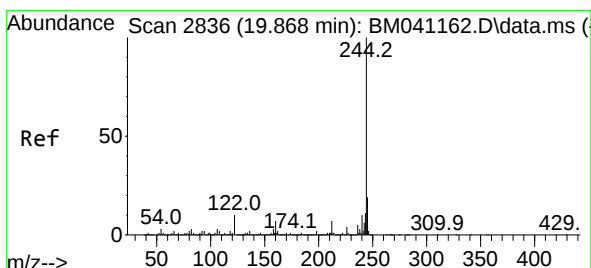
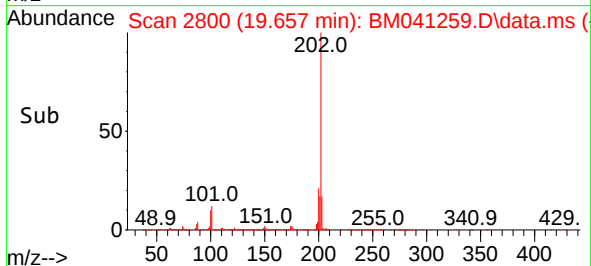
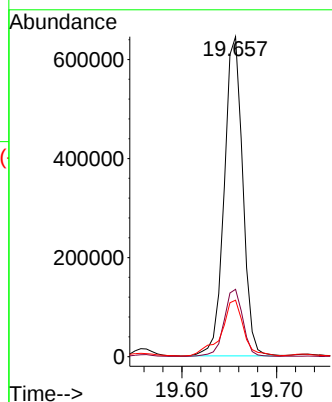
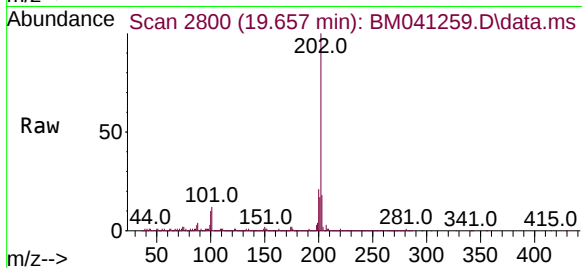
Tgt Ion:202 Resp: 873413

Ion Ratio Lower Upper

202 100

200 21.0 16.9 25.3

203 17.6 14.1 21.1



#79

Terphenyl-d14

Concen: 69.200 ng

RT: 19.862 min Scan# 2835

Delta R.T. 0.000 min

Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

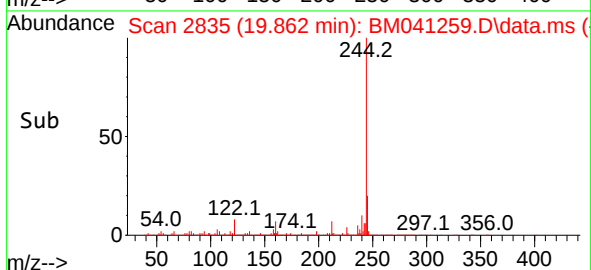
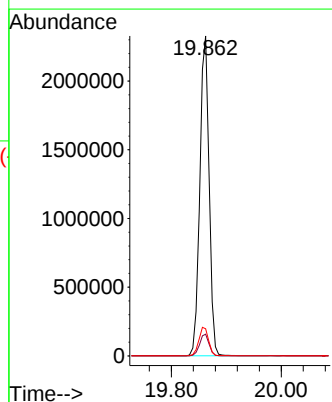
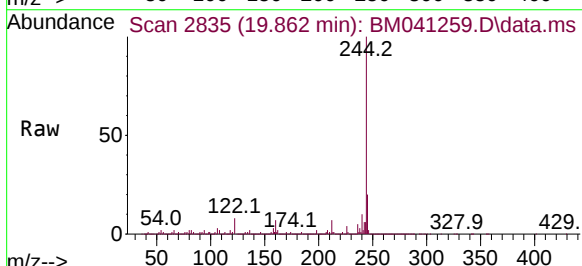
Tgt Ion:244 Resp: 2719005

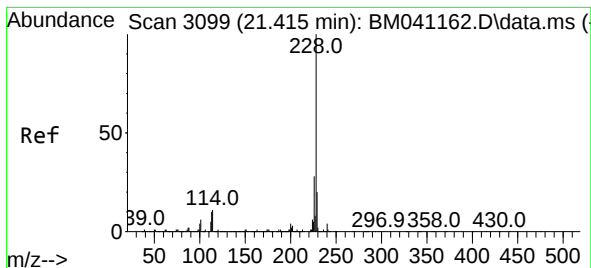
Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.2

122 8.5 7.8 11.6





#81

Benzo(a)anthracene

Concen: 10.465 ng

RT: 21.415 min Scan# 3099

Delta R.T. 0.000 min

Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP

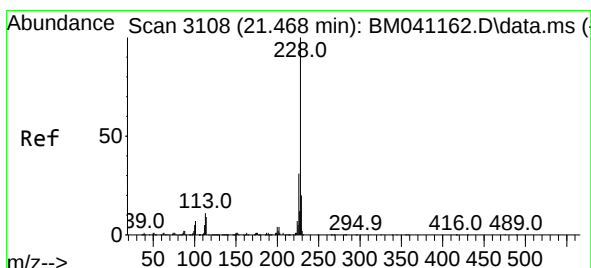
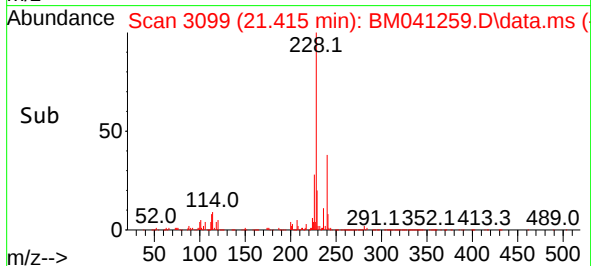
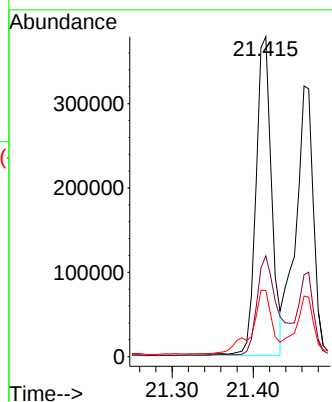
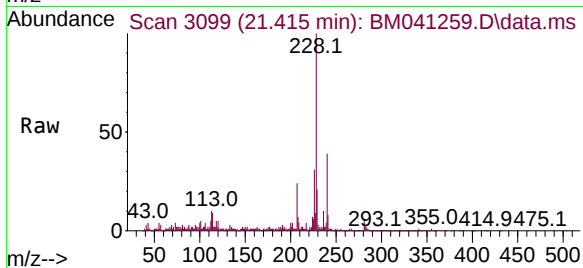
Tgt Ion:228 Resp: 504010

Ion Ratio Lower Upper

228 100

226 31.4 22.4 33.6

229 20.7 15.8 23.8



#83

Chrysene

Concen: 10.413 ng

RT: 21.462 min Scan# 3107

Delta R.T. -0.006 min

Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

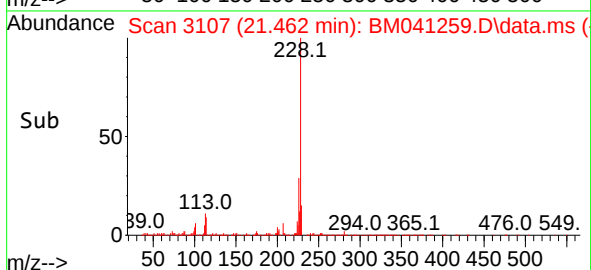
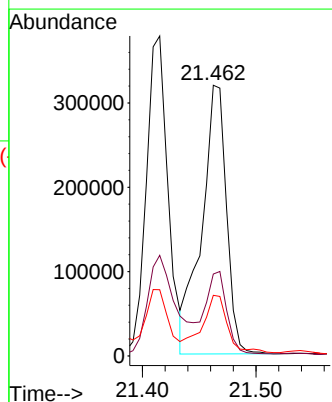
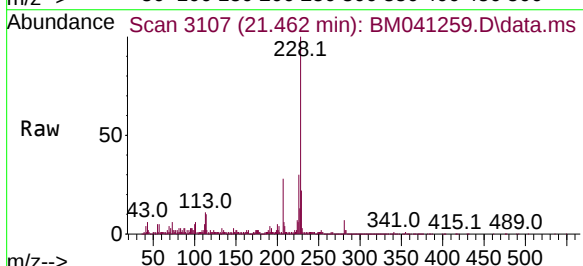
Tgt Ion:228 Resp: 485066

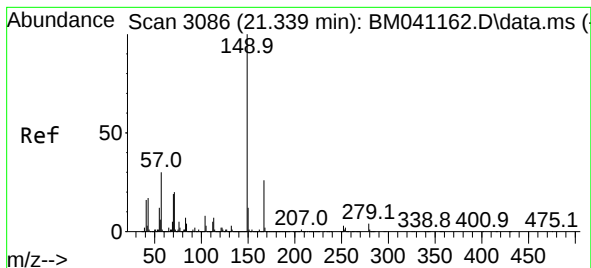
Ion Ratio Lower Upper

228 100

226 30.2 24.5 36.7

229 22.4 15.8 23.8

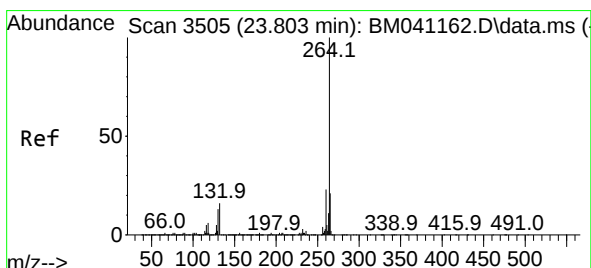
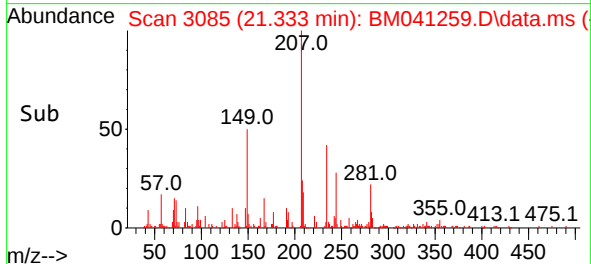
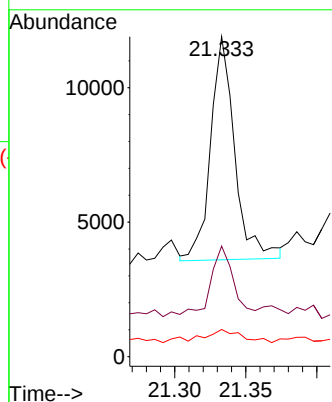
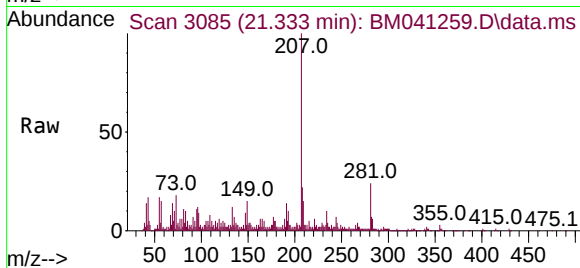




#84
Bis(2-ethylhexyl)phthalate
Concen: 2.863 ng
RT: 21.333 min Scan# 3085
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

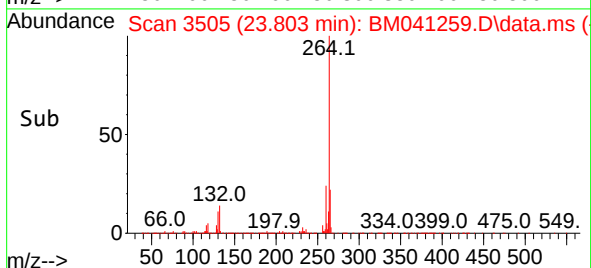
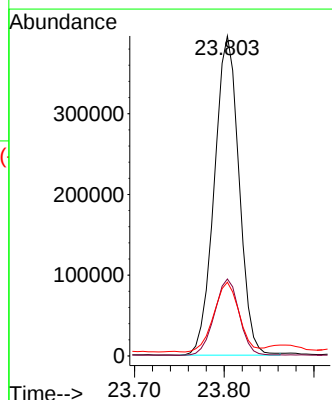
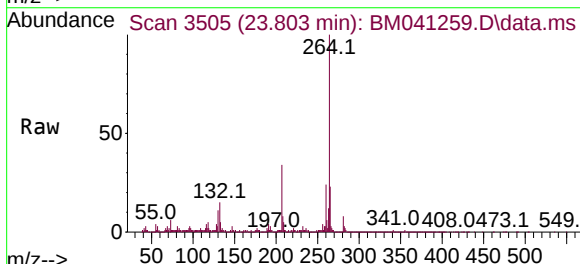
Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP

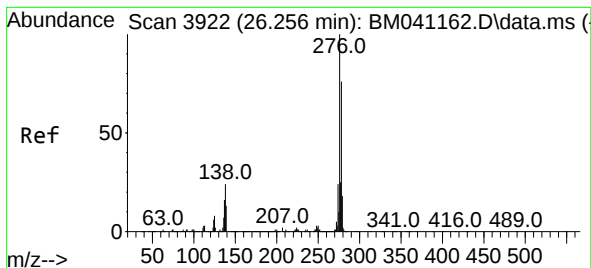
Tgt Ion:149 Resp: 9854
Ion Ratio Lower Upper
149 100
167 34.5 21.0 31.6#
279 8.5 3.1 4.7#



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.803 min Scan# 3505
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

Tgt Ion:264 Resp: 758320
Ion Ratio Lower Upper
264 100
260 24.0 18.5 27.7
265 23.0 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.844 ng

RT: 26.250 min Scan# 3922

Delta R.T. -0.012 min

Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP

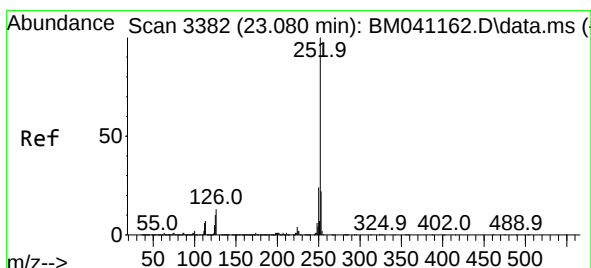
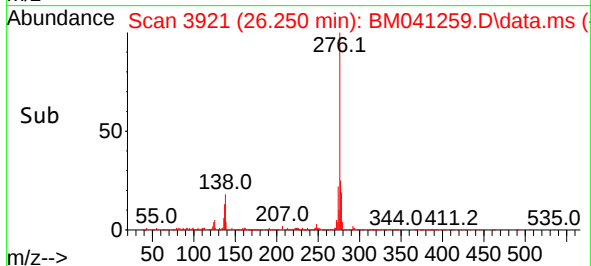
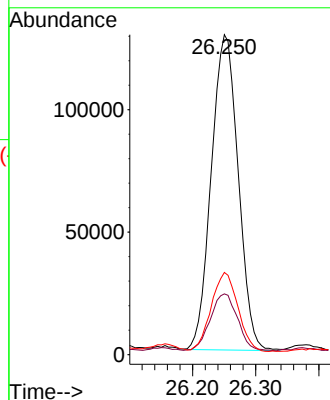
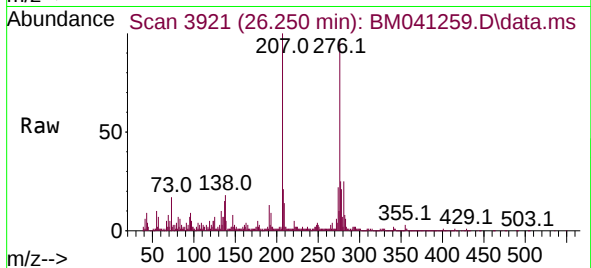
Tgt Ion:276 Resp: 381572

Ion Ratio Lower Upper

276 100

138 18.4 20.0 30.0#

277 24.9 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 17.214 ng

RT: 23.086 min Scan# 3383

Delta R.T. 0.000 min

Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

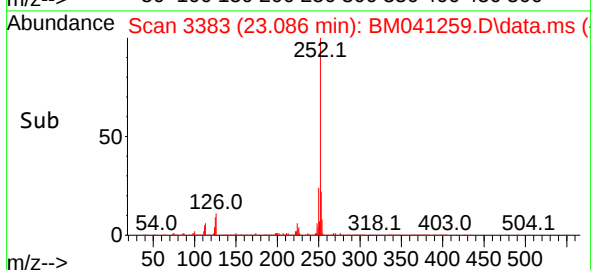
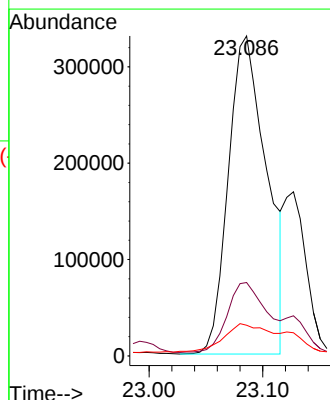
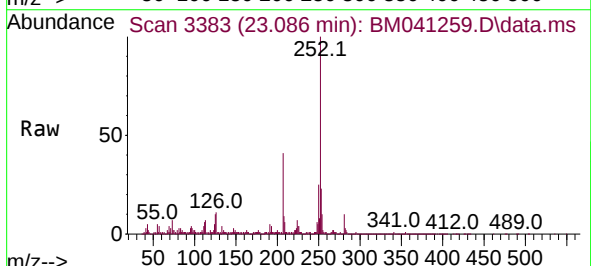
Tgt Ion:252 Resp: 775451

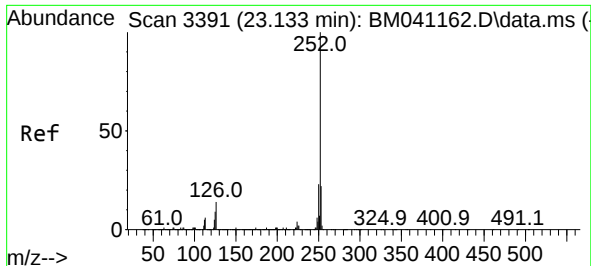
Ion Ratio Lower Upper

252 100

253 23.0 17.7 26.5

125 9.6 8.2 12.4

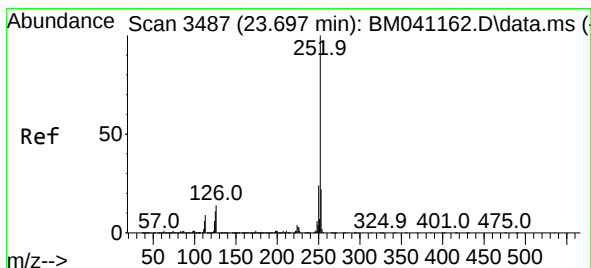
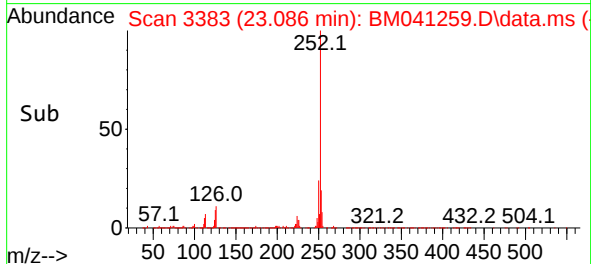
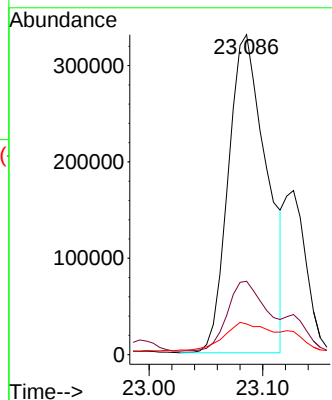
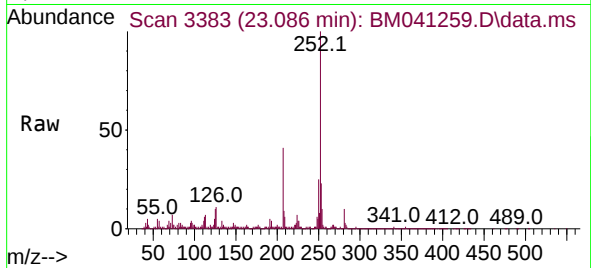




#89
Benzo(k)fluoranthene
Concen: 16.828 ng
RT: 23.086 min Scan# 3391
Delta R.T. -0.047 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

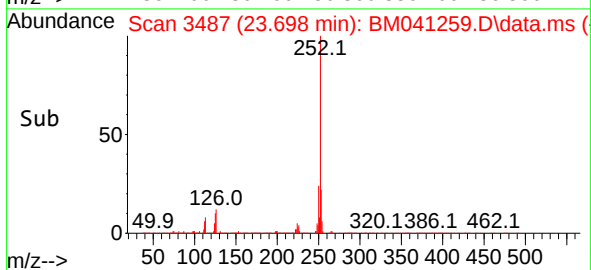
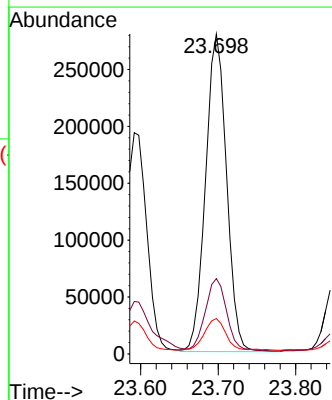
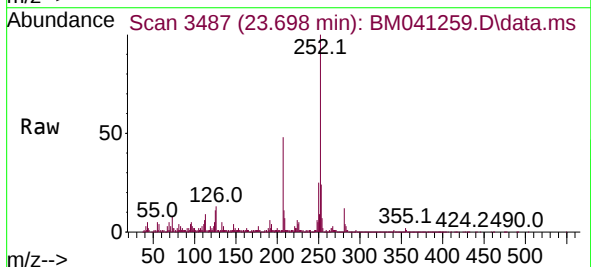
Instrument :
BNA_M
ClientSampleId :
TOPSOIL-OU3-DENALI-TEMP

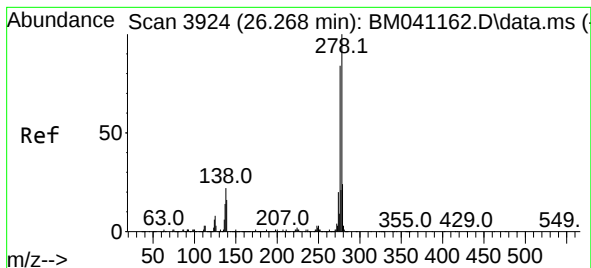
Tgt Ion:252 Resp: 775451
Ion Ratio Lower Upper
252 100
253 23.0 17.4 26.0
125 9.6 7.6 11.4



#90
Benzo(a)pyrene
Concen: 12.152 ng
RT: 23.698 min Scan# 3487
Delta R.T. 0.000 min
Lab File: BM041259.D
Acq: 03 Aug 2023 13:07

Tgt Ion:252 Resp: 525991
Ion Ratio Lower Upper
252 100
253 23.5 17.3 25.9
125 11.0 9.0 13.4





#91

Dibenzo(a,h)anthracene

Concen: 2.285 ng

RT: 26.256 min Scan# 39

Delta R.T. -0.018 min

Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

Instrument :

BNA_M

ClientSampleId :

TOPSOIL-OU3-DENALI-TEMP

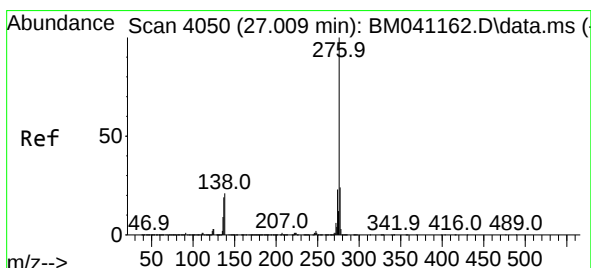
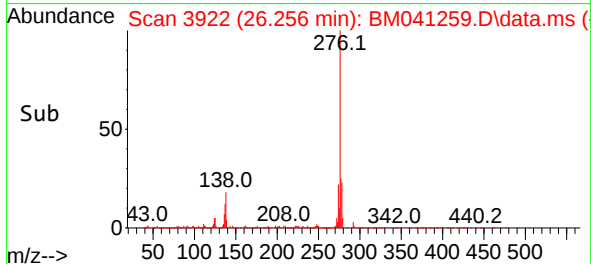
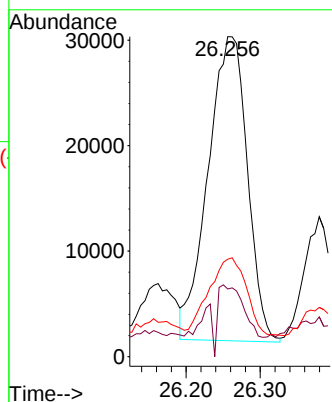
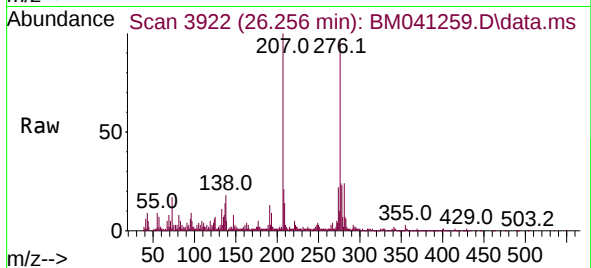
Tgt Ion:278 Resp: 106265

Ion Ratio Lower Upper

278 100

139 21.2 12.7 19.1#

279 30.5 19.1 28.7#



#92

Benzo(g,h,i)perylene

Concen: 8.338 ng

RT: 27.009 min Scan# 4050

Delta R.T. -0.006 min

Lab File: BM041259.D

Acq: 03 Aug 2023 13:07

Tgt Ion:276 Resp: 379393

Ion Ratio Lower Upper

276 100

277 25.0 19.1 28.7

138 19.7 17.1 25.7

