

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061923\
 Data File : BF133835.D
 Acq On : 19 Jun 2023 15:56
 Operator : CG\JU
 Sample : 03279-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-OU3-DENALI-1

Quant Time: Jun 20 01:33:02 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 19 16:00:59 2023
 Response via : Initial Calibration

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

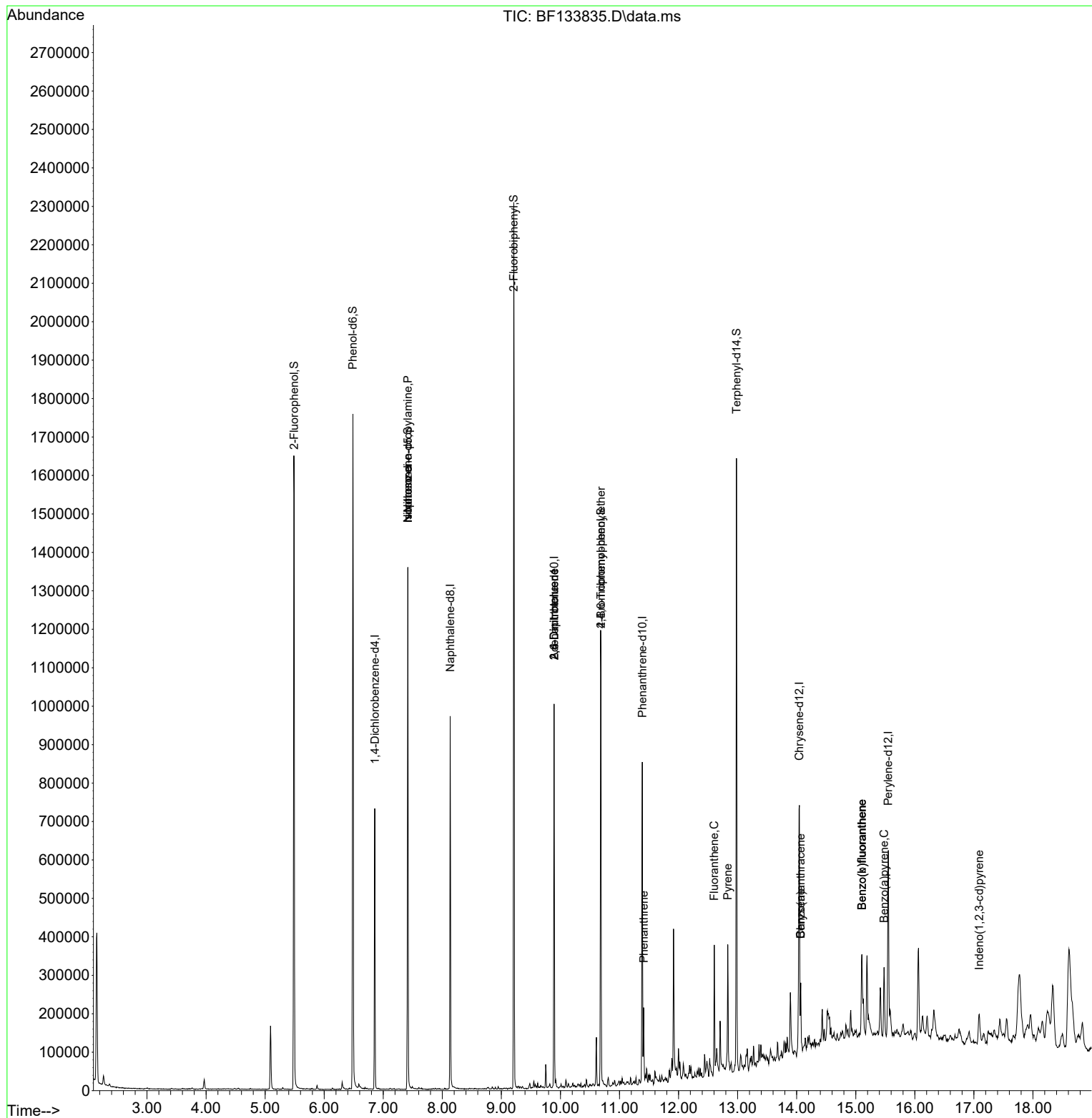
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.857	152	96142	20.000	ng	0.00
21) Naphthalene-d8	8.133	136	365850	20.000	ng	0.00
39) Acenaphthene-d10	9.892	164	172757	20.000	ng	0.00
64) Phenanthrene-d10	11.386	188	285689	20.000	ng	0.00
76) Chrysene-d12	14.045	240	199179	20.000	ng	0.00
86) Perylene-d12	15.551	264	231249	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	438510	79.404	ng	0.00
7) Phenol-d6	6.487	99	521053	72.484	ng	-0.01
23) Nitrobenzene-d5	7.416	82	356398	53.060	ng	-0.01
42) 2,4,6-Tribromophenol	10.686	330	136933	62.618	ng	0.00
45) 2-Fluorobiphenyl	9.210	172	648746	53.381	ng	-0.01
79) Terphenyl-d14	12.980	244	495392	38.485	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.416	70	50973	11.145	ng	# 80
25) Isophorone	7.416	82	356392	28.901	ng	# 65
51) 2,6-Dinitrotoluene	9.892	165	21922	8.236	ng	# 28
57) 2,4-Dinitrotoluene	9.892	165	21922	6.476	ng	# 19
67) 4-Bromophenyl-phenylether	10.686	248	8531	2.675	ng	# 1
71) Phenanthrene	11.410	178	55478	3.828	ng	98
75) Fluoranthene	12.604	202	119548	7.767	ng	98
78) Pyrene	12.833	202	127748	6.885	ng	98
81) Benzo(a)anthracene	14.068	228	66669	4.839	ng	95
83) Chrysene	14.068	228	66669	5.116	ng	97
87) Indeno(1,2,3-cd)pyrene	17.092	276	54444	3.422	ng	99
88) Benzo(b)fluoranthene	15.104	252	151925	10.815	ng	98
89) Benzo(k)fluoranthene	15.104	252	151925	11.103	ng	98
90) Benzo(a)pyrene	15.480	252	82490	6.327	ng	96

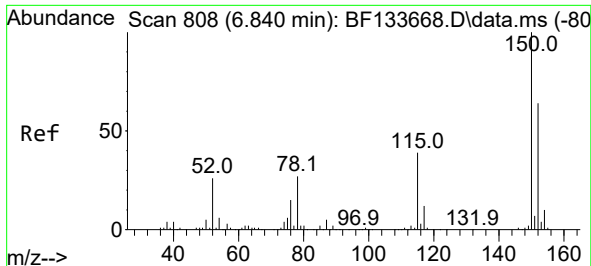
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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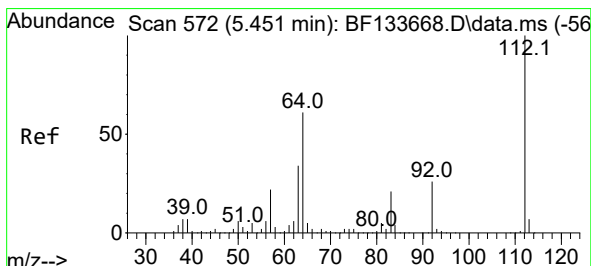
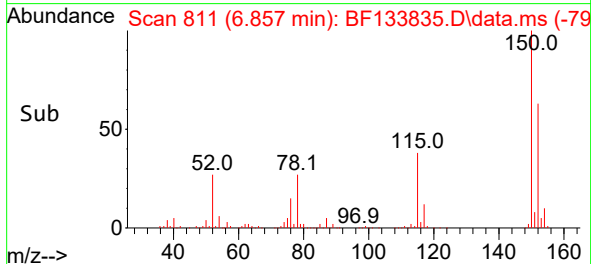
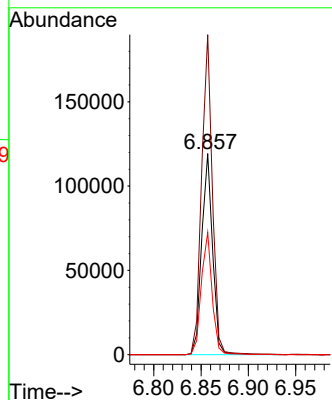
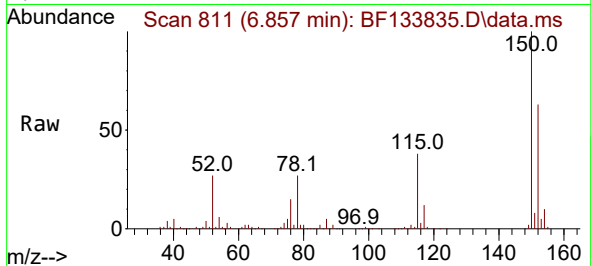




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.857 min Scan# 811
Delta R.T. -0.006 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

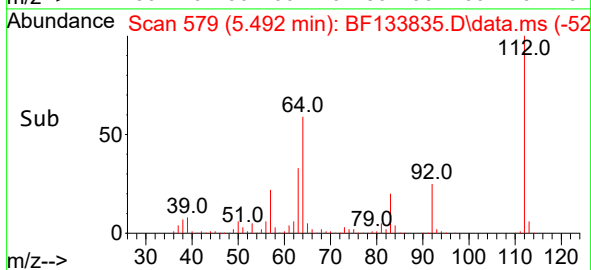
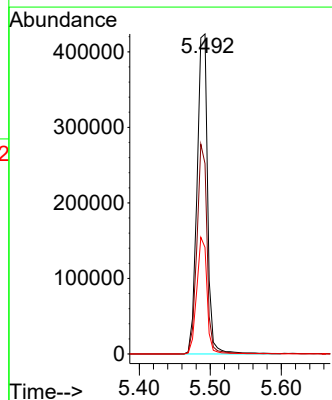
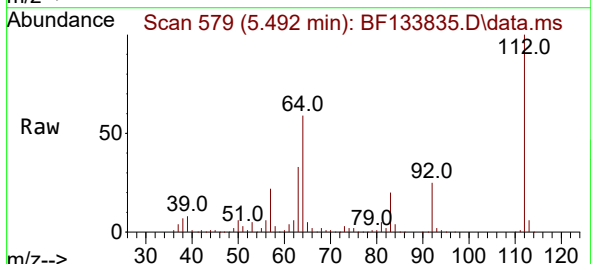
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-1

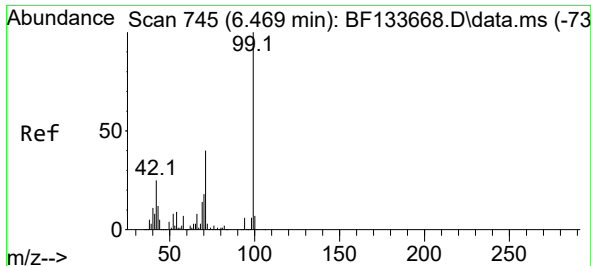
Tgt Ion:152 Resp: 96142
Ion Ratio Lower Upper
152 100
150 159.2 124.3 186.5
115 60.8 48.5 72.7



#5
2-Fluorophenol
Concen: 79.404 ng
RT: 5.492 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

Tgt Ion:112 Resp: 438510
Ion Ratio Lower Upper
112 100
64 59.5 49.0 73.4
63 33.3 26.8 40.2

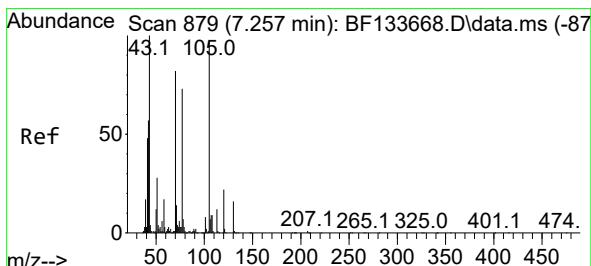
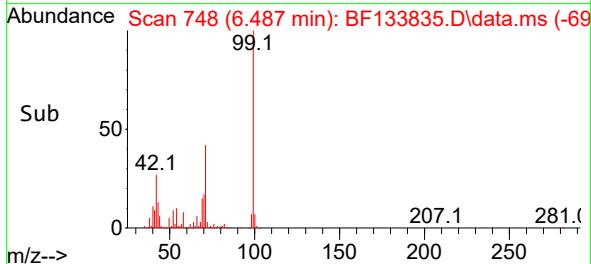
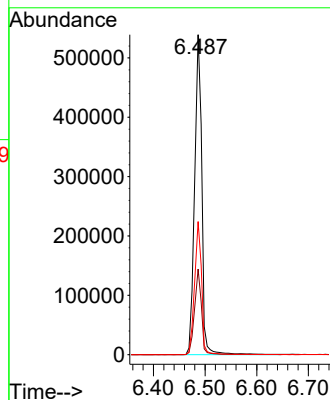
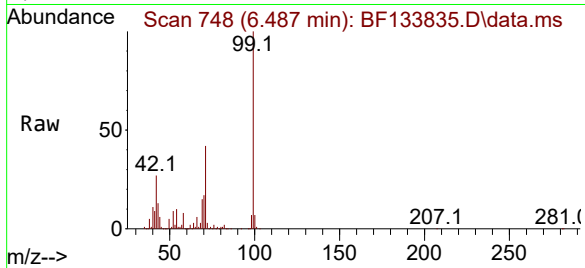




#7
Phenol-d6
Concen: 72.484 ng
RT: 6.487 min Scan# 745
Delta R.T. -0.012 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

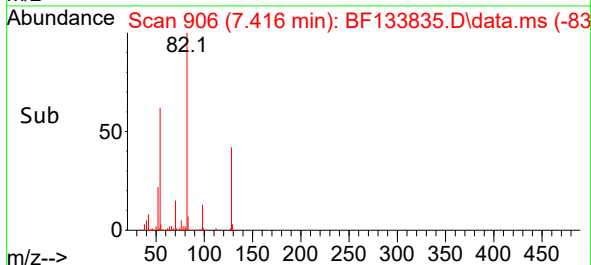
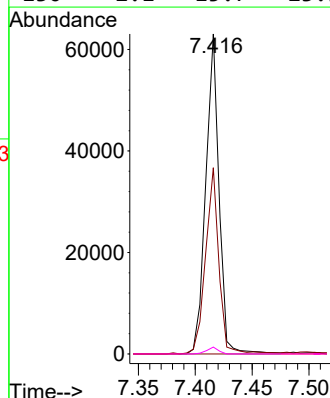
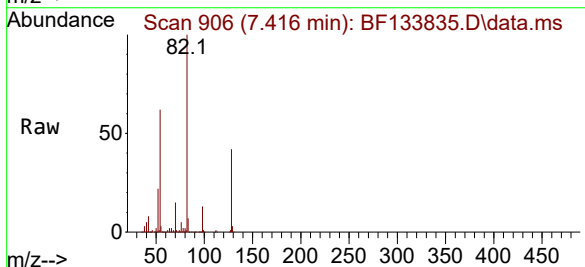
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-1

Tgt Ion: 99 Resp: 521053
Ion Ratio Lower Upper
99 100
42 26.7 19.9 29.9
71 41.6 32.2 48.4



#19
n-Nitroso-di-n-propylamine
Concen: 11.145 ng
RT: 7.416 min Scan# 906
Delta R.T. 0.141 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

Tgt Ion: 70 Resp: 50973
Ion Ratio Lower Upper
70 100
42 58.2 55.8 83.8
101 0.0 8.1 12.1#
130 2.1 15.7 23.5#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.133 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133835.D

Acq: 19 Jun 2023 15:56

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-1

Tgt Ion:136 Resp: 365850

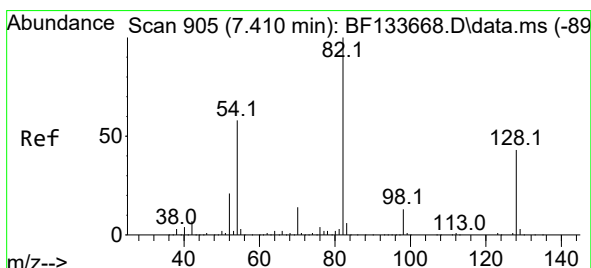
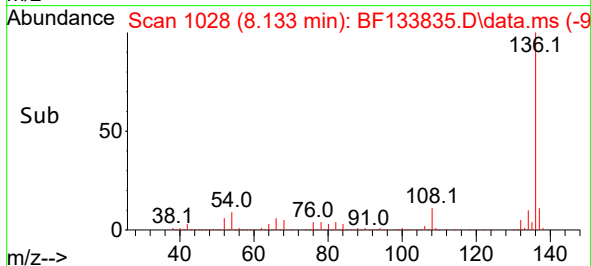
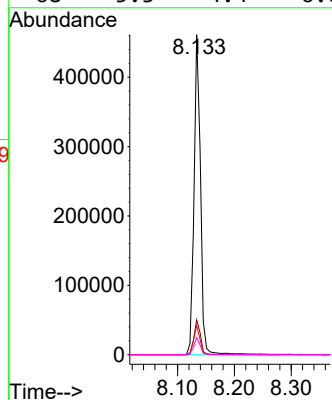
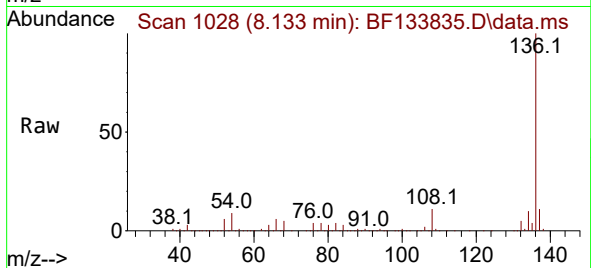
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 9.1 7.4 11.0

68 5.3 4.4 6.6



#23

Nitrobenzene-d5

Concen: 53.060 ng

RT: 7.416 min Scan# 906

Delta R.T. -0.012 min

Lab File: BF133835.D

Acq: 19 Jun 2023 15:56

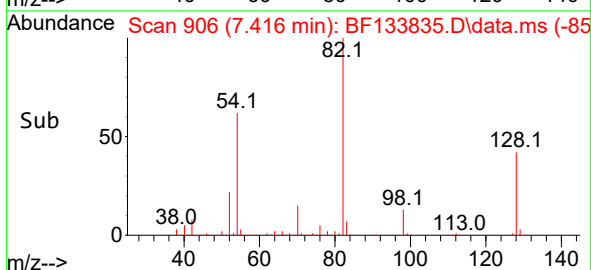
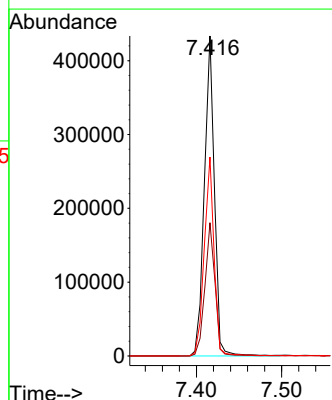
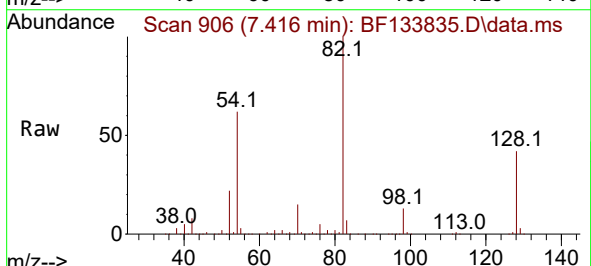
Tgt Ion: 82 Resp: 356398

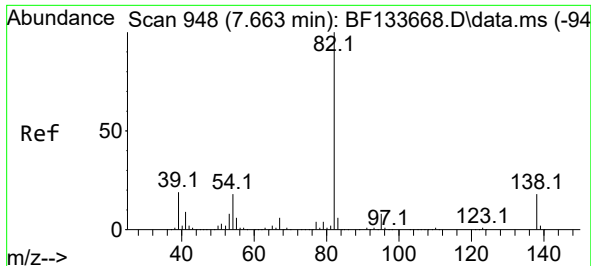
Ion Ratio Lower Upper

82 100

128 41.6 34.2 51.2

54 62.2 46.5 69.7

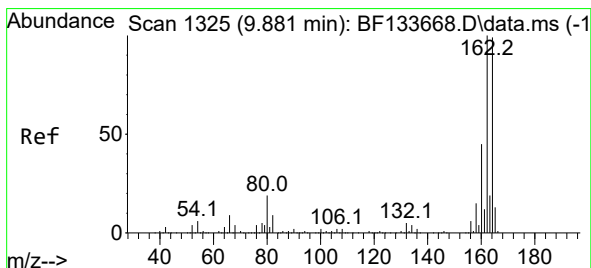
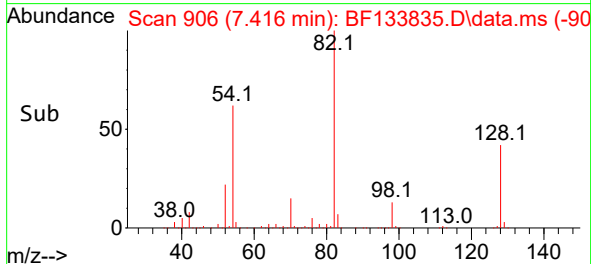
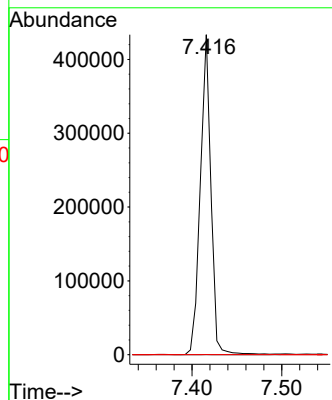
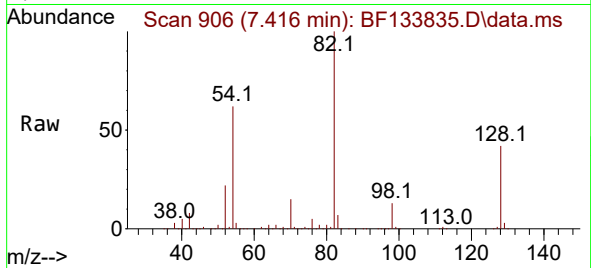




#25
Isophorone
Concen: 28.901 ng
RT: 7.416 min Scan# 90
Delta R.T. -0.265 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

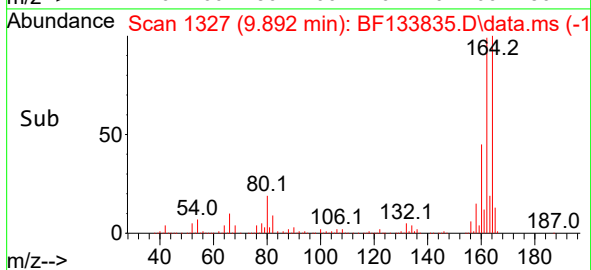
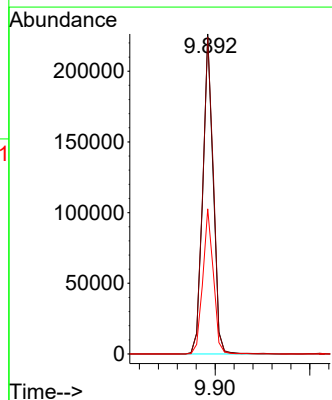
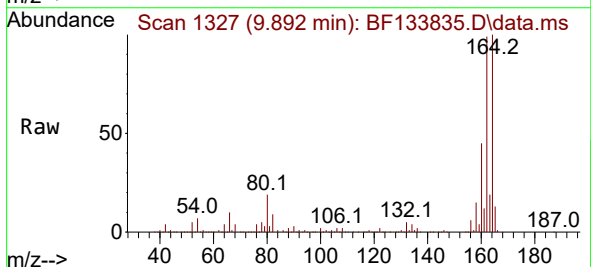
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-1

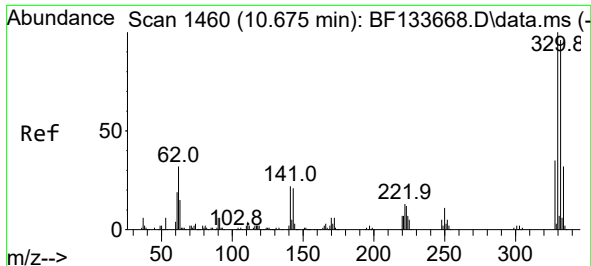
Tgt Ion: 82 Resp: 356392
Ion Ratio Lower Upper
82 100
95 0.0 6.0 9.0#
138 0.0 14.2 21.2#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.892 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

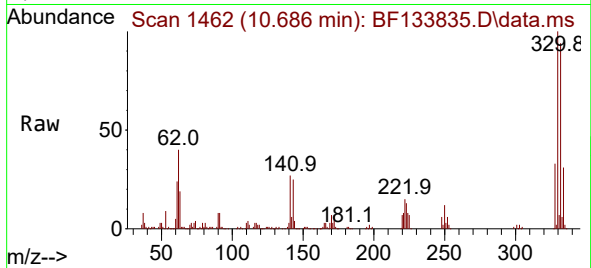
Tgt Ion:164 Resp: 172757
Ion Ratio Lower Upper
164 100
162 99.1 80.8 121.2
160 45.3 36.7 55.1



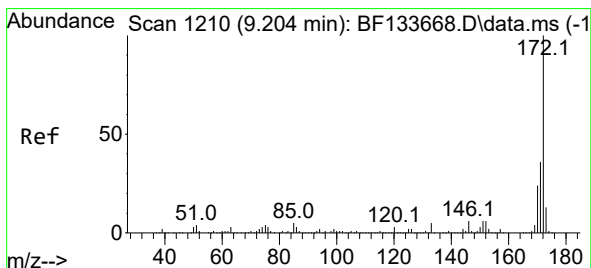
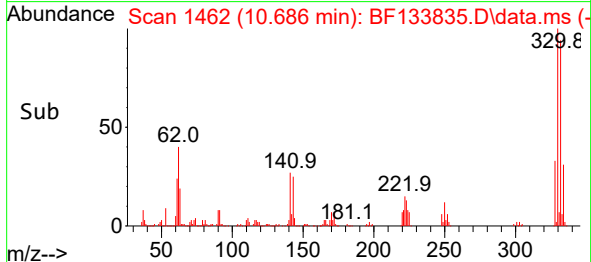
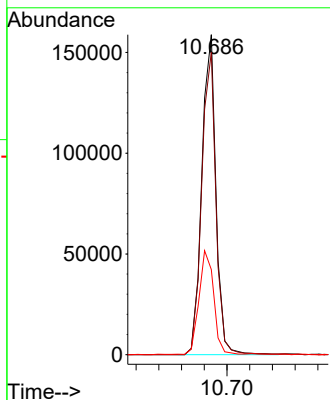


#42
2,4,6-Tribromophenol
Concen: 62.618 ng
RT: 10.686 min Scan# 1462
Delta R.T. -0.006 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-1

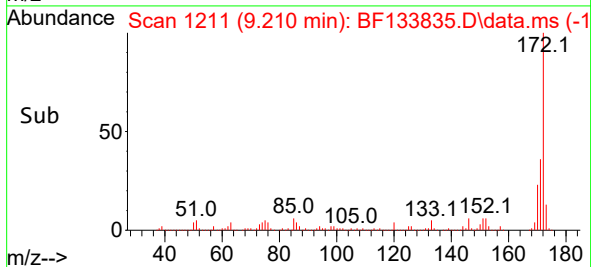
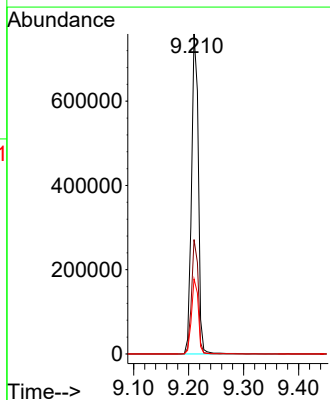
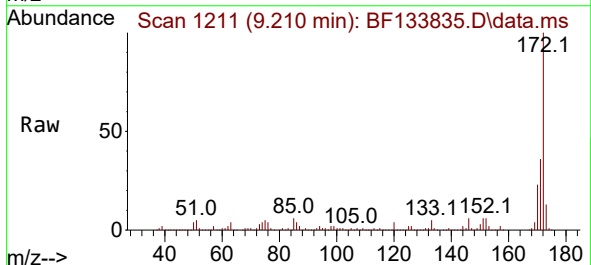


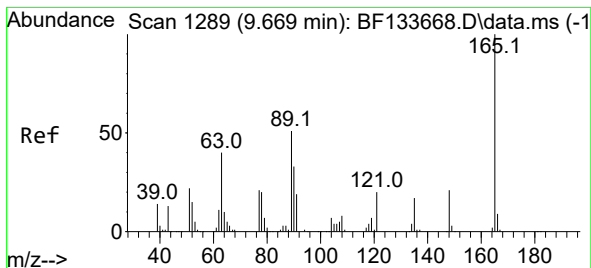
Tgt Ion:330 Resp: 136933
Ion Ratio Lower Upper
330 100
332 95.1 77.2 115.8
141 34.2 24.9 37.3



#45
2-Fluorobiphenyl
Concen: 53.381 ng
RT: 9.210 min Scan# 1211
Delta R.T. -0.012 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

Tgt Ion:172 Resp: 648746
Ion Ratio Lower Upper
172 100
171 35.7 28.6 43.0
170 23.4 19.1 28.7





#51

2,6-Dinitrotoluene

Concen: 8.236 ng

RT: 9.892 min Scan# 1327

Delta R.T. 0.206 min

Lab File: BF133835.D

Acq: 19 Jun 2023 15:56

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-1

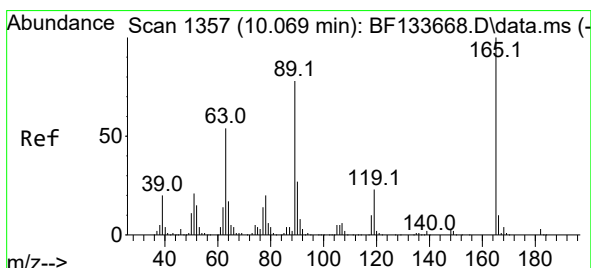
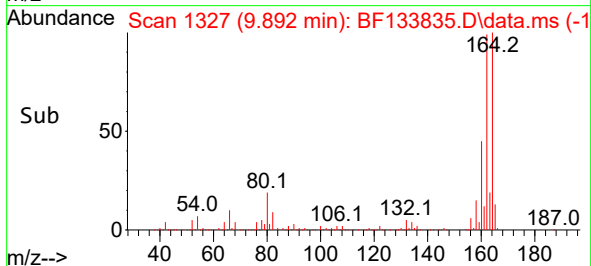
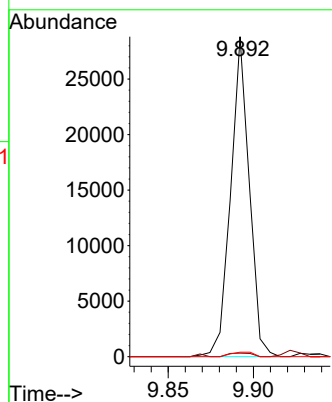
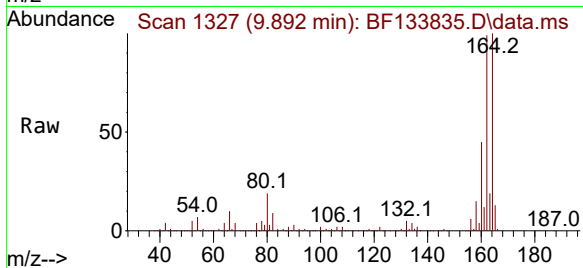
Tgt Ion:165 Resp: 21922

Ion Ratio Lower Upper

165 100

63 1.1 42.1 63.1#

89 1.4 40.9 61.3#



#57

2,4-Dinitrotoluene

Concen: 6.476 ng

RT: 9.892 min Scan# 1327

Delta R.T. -0.200 min

Lab File: BF133835.D

Acq: 19 Jun 2023 15:56

Tgt Ion:165 Resp: 21922

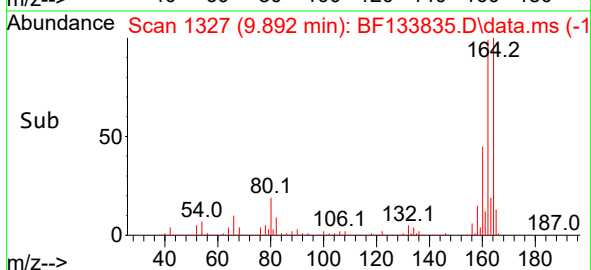
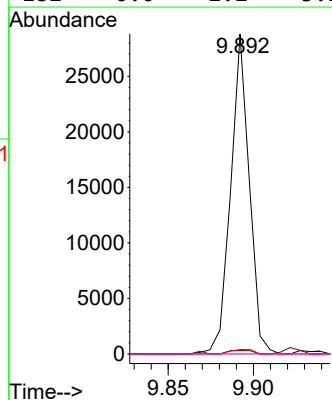
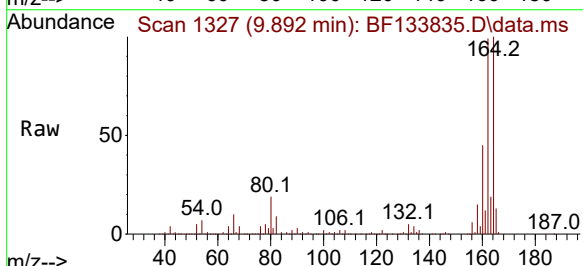
Ion Ratio Lower Upper

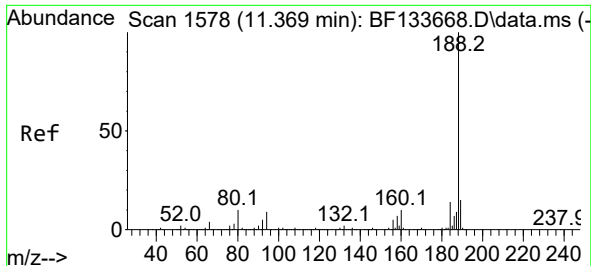
165 100

63 1.1 43.0 64.6#

89 1.4 62.6 93.8#

182 0.0 2.2 3.2#

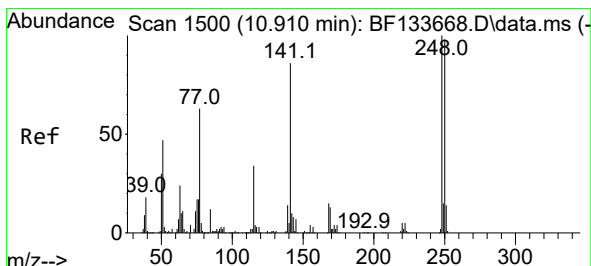
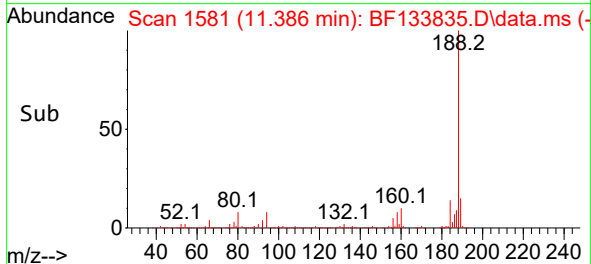
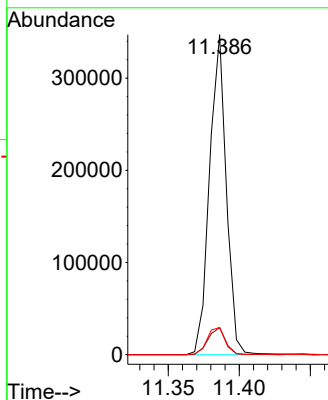
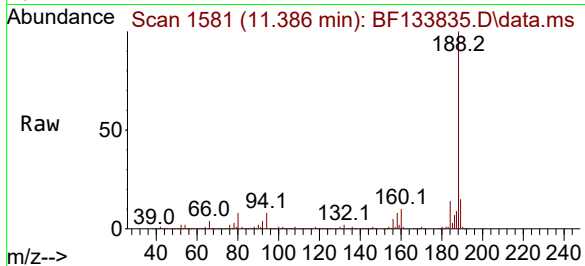




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.386 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

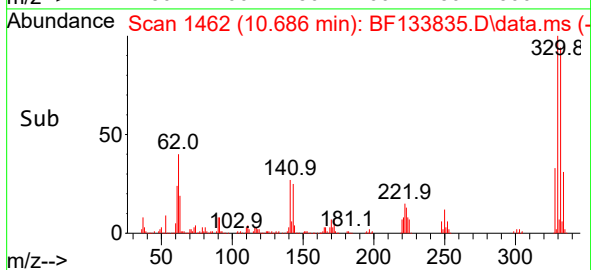
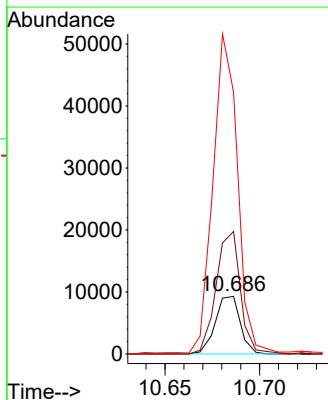
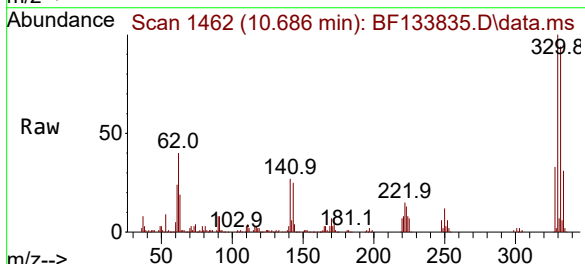
Instrument :
BNA_F
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TOPSOIL-OU3-DENALI-1

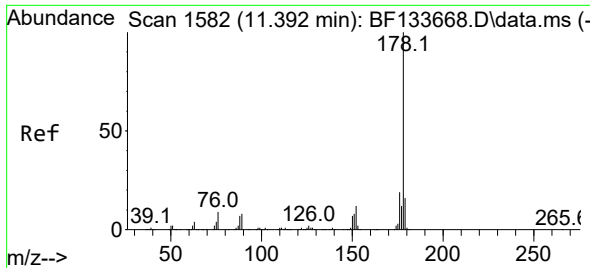
Tgt Ion:188 Resp: 285689
Ion Ratio Lower Upper
188 100
94 8.5 6.8 10.2
80 8.5 7.8 11.6



#67
4-Bromophenyl-phenylether
Concen: 2.675 ng
RT: 10.686 min Scan# 1462
Delta R.T. -0.247 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

Tgt Ion:248 Resp: 8531
Ion Ratio Lower Upper
248 100
250 212.5 78.3 117.5#
141 454.0 69.0 103.6#

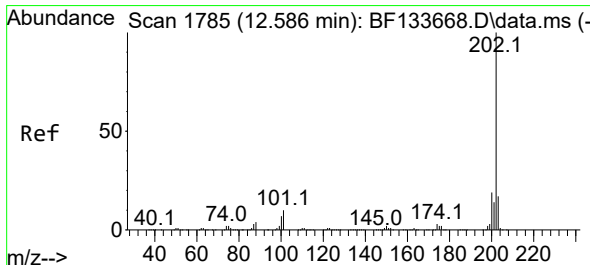
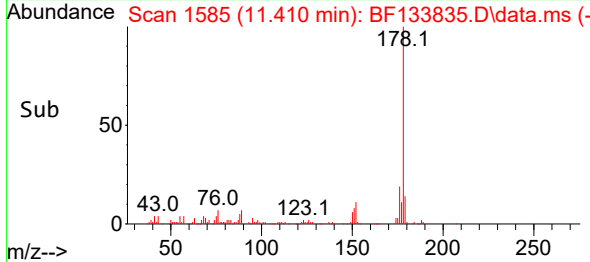
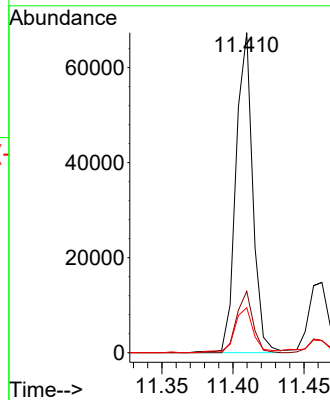
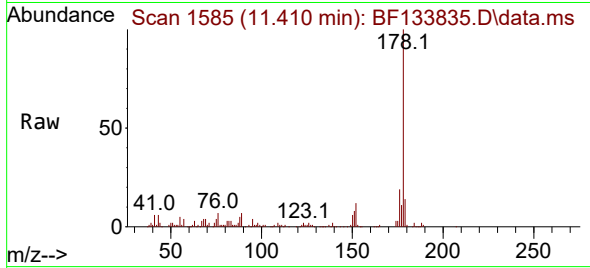




#71
Phenanthrene
Concen: 3.828 ng
RT: 11.410 min Scan# 1585
Delta R.T. -0.012 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

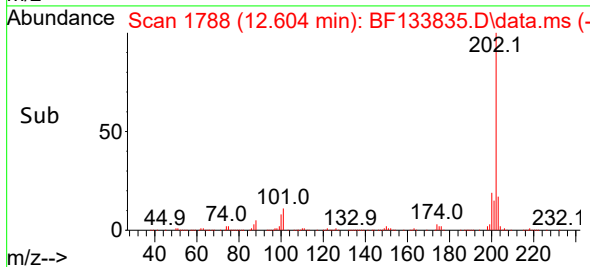
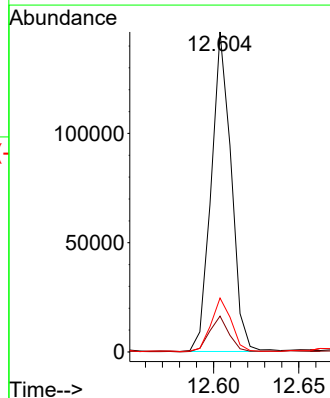
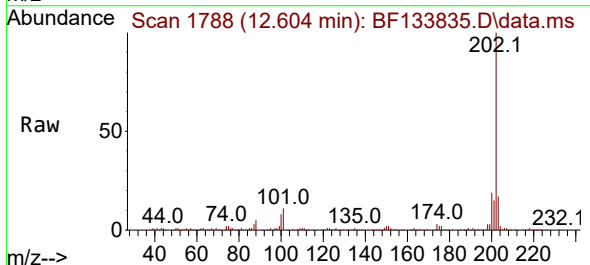
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-1

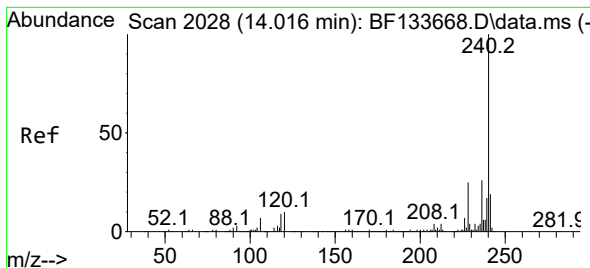
Tgt Ion:178	Resp:	55478
Ion Ratio	Lower	Upper
178	100	
176	19.2	15.6 23.4
179	14.0	12.4 18.6



#75
Fluoranthene
Concen: 7.767 ng
RT: 12.604 min Scan# 1788
Delta R.T. -0.012 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

Tgt Ion:202	Resp:	119548
Ion Ratio	Lower	Upper
202	100	
101	11.2	0.0 29.6
203	16.8	0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.045 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF133835.D

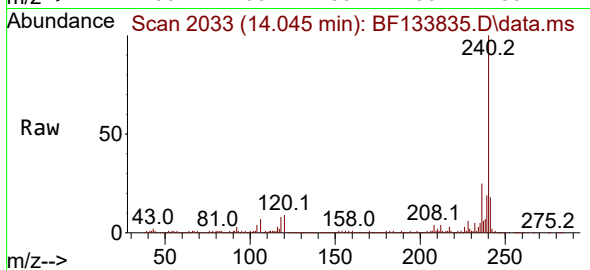
Acq: 19 Jun 2023 15:56

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-1



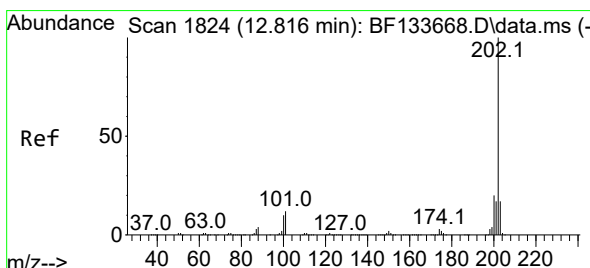
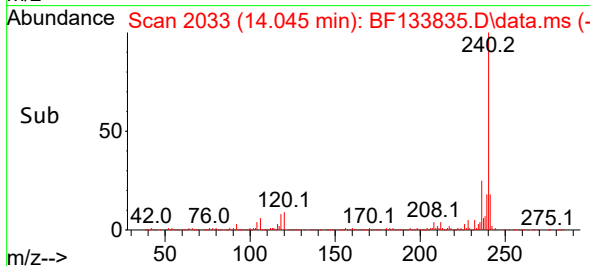
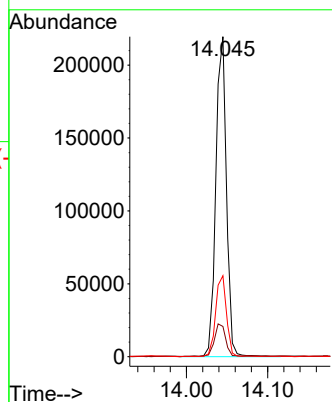
Tgt Ion:240 Resp: 199179

Ion Ratio Lower Upper

240 100

120 9.4 8.1 12.1

236 25.3 20.5 30.7



#78

Pyrene

Concen: 6.885 ng

RT: 12.833 min Scan# 1827

Delta R.T. -0.012 min

Lab File: BF133835.D

Acq: 19 Jun 2023 15:56

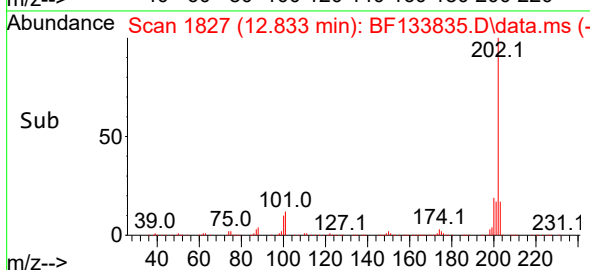
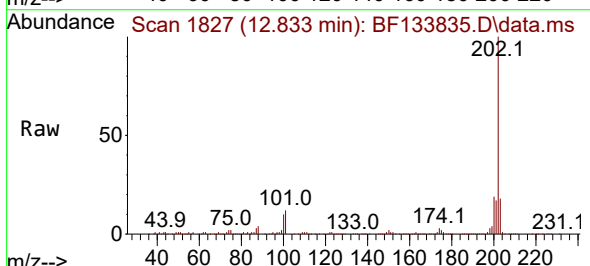
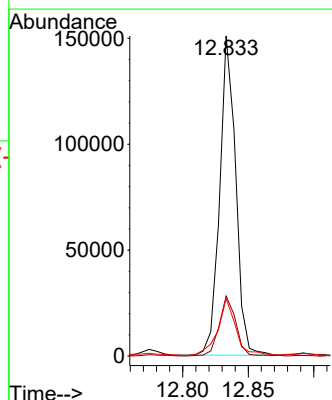
Tgt Ion:202 Resp: 127748

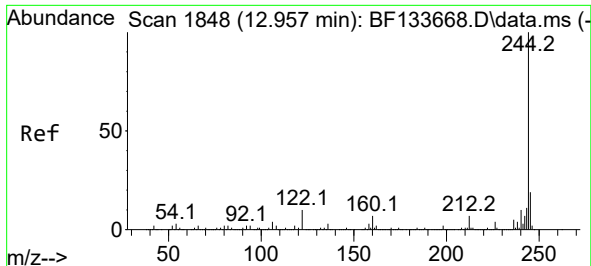
Ion Ratio Lower Upper

202 100

200 18.8 16.2 24.2

203 18.0 13.9 20.9

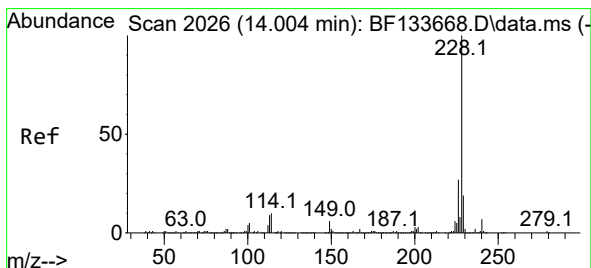
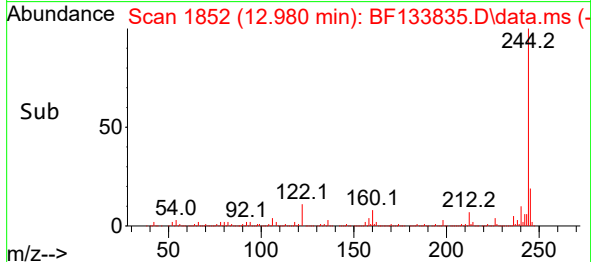
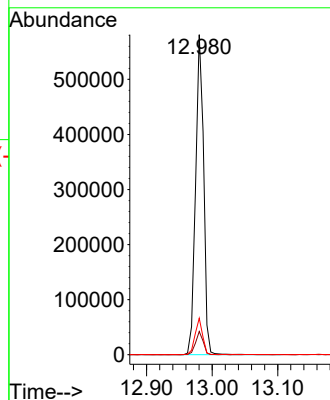
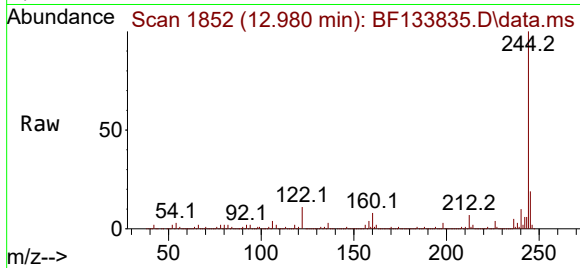




#79
 Terphenyl-d14
 Concen: 38.485 ng
 RT: 12.980 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF133835.D
 Acq: 19 Jun 2023 15:56

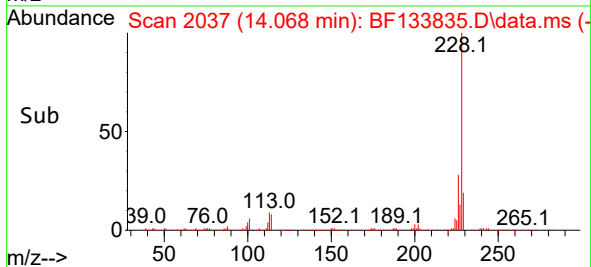
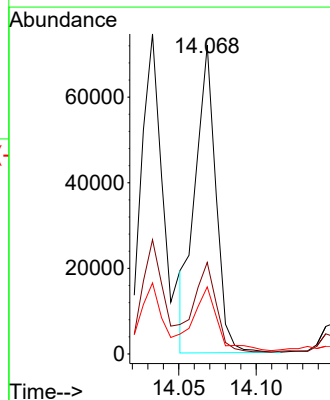
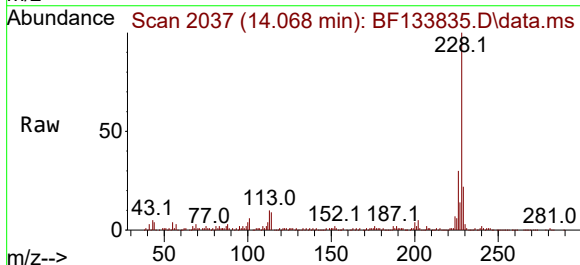
Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-OU3-DENALI-1

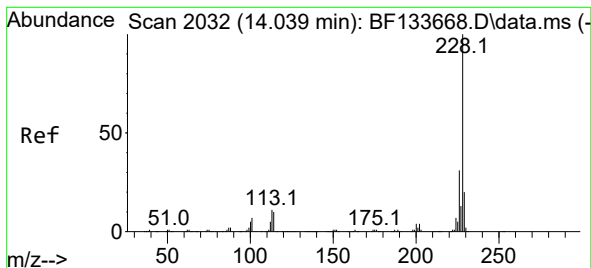
Tgt Ion:244 Resp: 495392
 Ion Ratio Lower Upper
 244 100
 212 7.3 5.4 8.2
 122 11.4 8.1 12.1



#81
 Benzo(a)anthracene
 Concen: 4.839 ng
 RT: 14.068 min Scan# 2037
 Delta R.T. 0.029 min
 Lab File: BF133835.D
 Acq: 19 Jun 2023 15:56

Tgt Ion:228 Resp: 66669
 Ion Ratio Lower Upper
 228 100
 226 29.7 21.7 32.5
 229 21.7 15.4 23.2





#83

Chrysene

Concen: 5.116 ng

RT: 14.068 min Scan# 2032

Delta R.T. -0.012 min

Lab File: BF133835.D

Acq: 19 Jun 2023 15:56

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-1

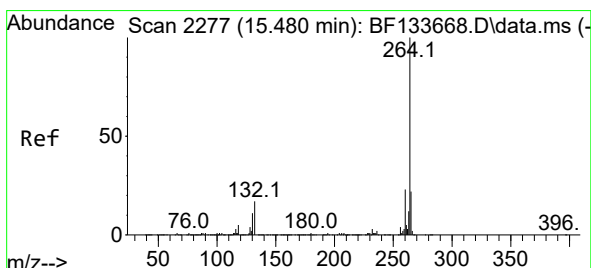
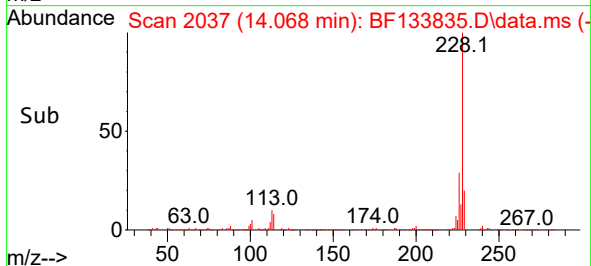
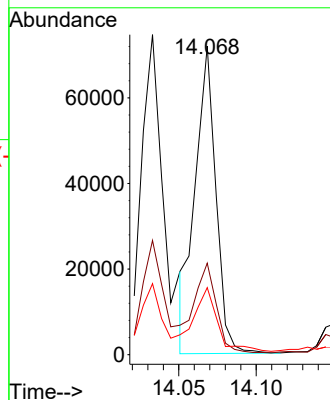
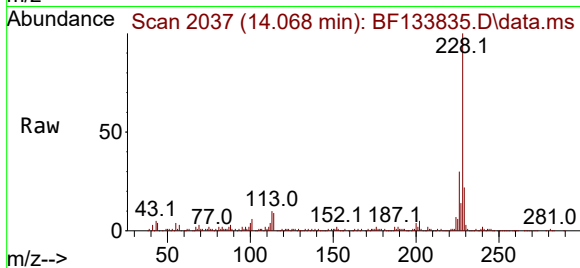
Tgt Ion:228 Resp: 66669

Ion Ratio Lower Upper

228 100

226 29.7 25.0 37.6

229 21.7 15.8 23.8



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 2289

Delta R.T. -0.006 min

Lab File: BF133835.D

Acq: 19 Jun 2023 15:56

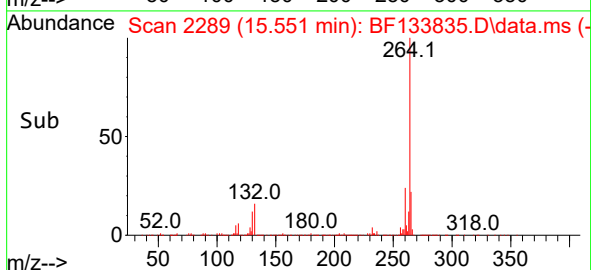
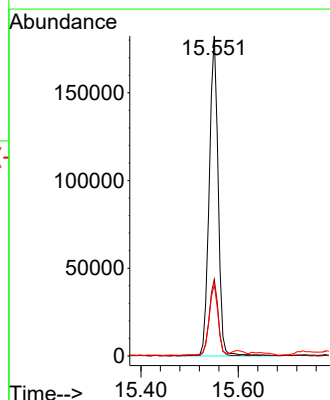
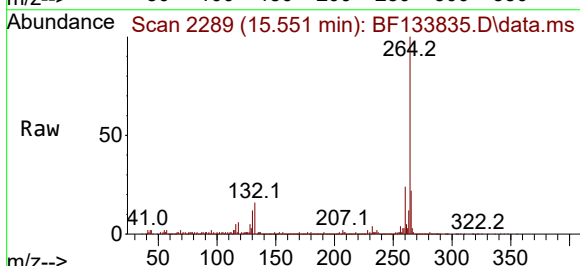
Tgt Ion:264 Resp: 231249

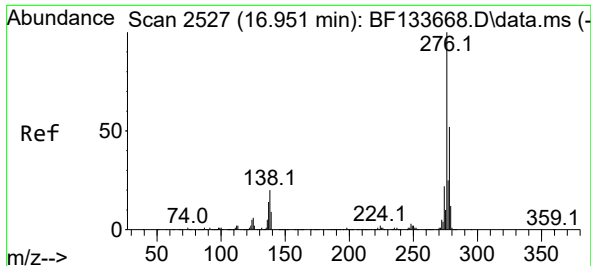
Ion Ratio Lower Upper

264 100

260 23.9 18.2 27.2

265 22.4 17.8 26.6

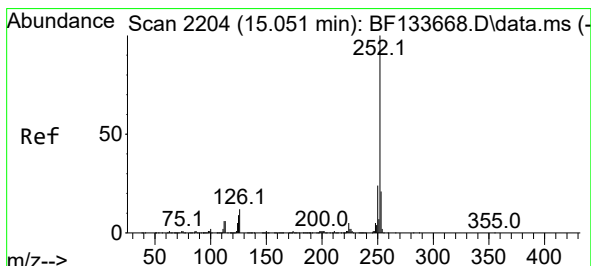
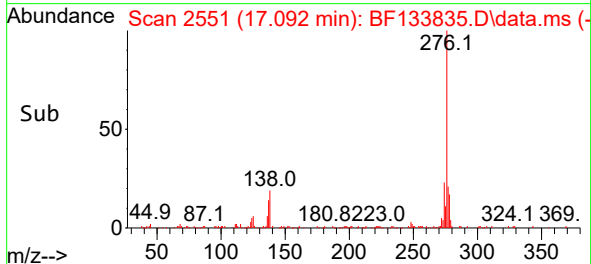
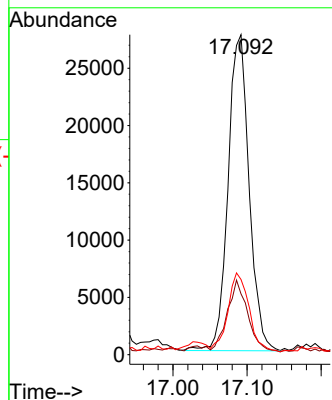
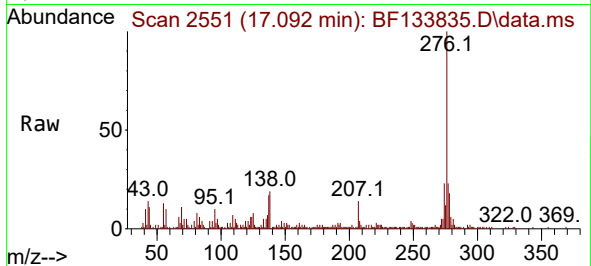




#87
Indeno(1,2,3-cd)pyrene
Concen: 3.422 ng
RT: 17.092 min Scan# 2113
Delta R.T. -0.018 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

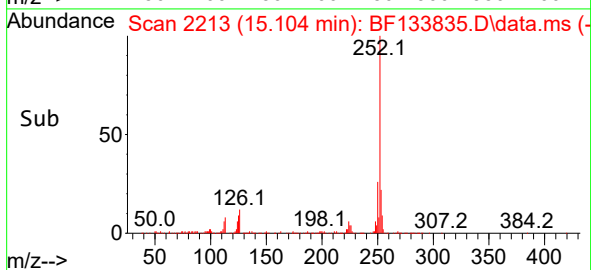
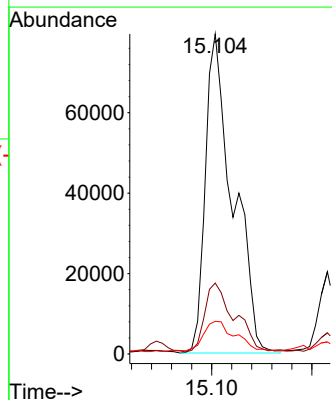
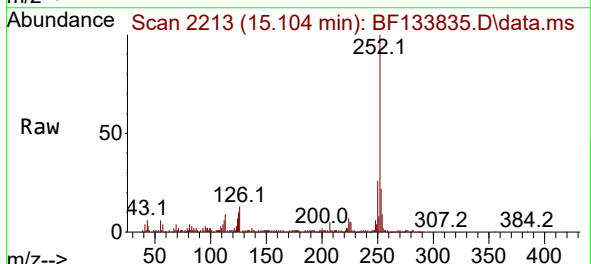
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-1

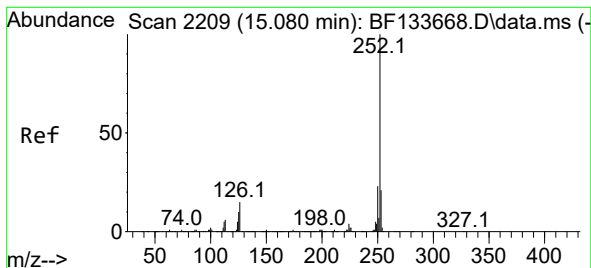
Tgt Ion:276 Resp: 54444
Ion Ratio Lower Upper
276 100
138 22.1 17.9 26.9
277 24.7 20.3 30.5



#88
Benzo(b)fluoranthene
Concen: 10.815 ng
RT: 15.104 min Scan# 2213
Delta R.T. -0.006 min
Lab File: BF133835.D
Acq: 19 Jun 2023 15:56

Tgt Ion:252 Resp: 151925
Ion Ratio Lower Upper
252 100
253 22.2 17.0 25.6
125 10.2 7.3 10.9





#89

Benzo(k)fluoranthene

Concen: 11.103 ng

RT: 15.104 min Scan# 21

Delta R.T. -0.035 min

Lab File: BF133835.D

Acq: 19 Jun 2023 15:56

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-1

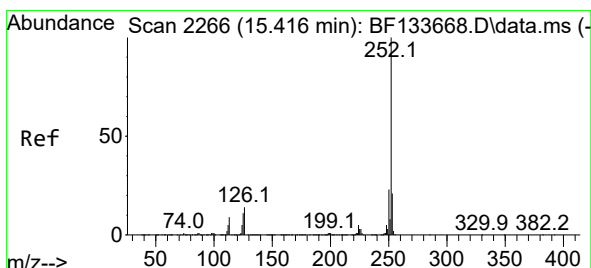
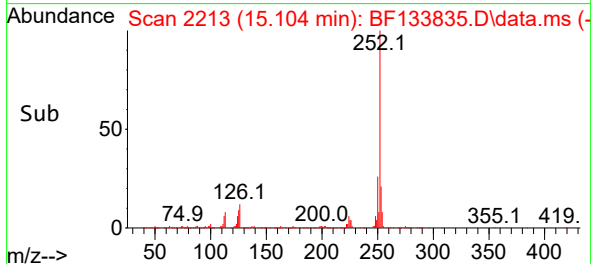
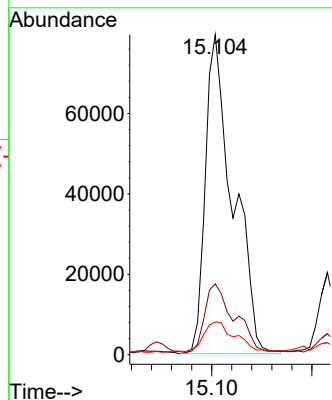
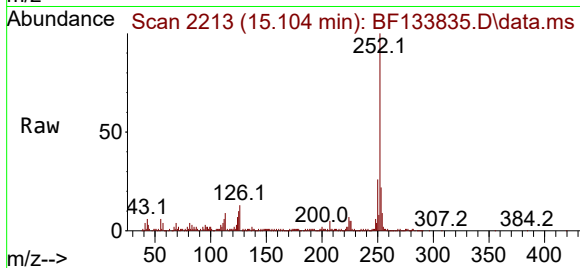
Tgt Ion:252 Resp: 151925

Ion Ratio Lower Upper

252 100

253 22.2 17.0 25.4

125 10.2 7.8 11.6



#90

Benzo(a)pyrene

Concen: 6.327 ng

RT: 15.480 min Scan# 2277

Delta R.T. -0.012 min

Lab File: BF133835.D

Acq: 19 Jun 2023 15:56

Tgt Ion:252 Resp: 82490

Ion Ratio Lower Upper

252 100

253 23.1 17.1 25.7

125 12.3 8.6 13.0

