

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF090523\
 Data File : BF135091.D
 Acq On : 05 Sep 2023 12:47
 Operator : CG\JU
 Sample : 04212-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-OU3-DENALI-2

Quant Time: Sep 05 13:16:39 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF083023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 31 03:48:08 2023
 Response via : Initial Calibration

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

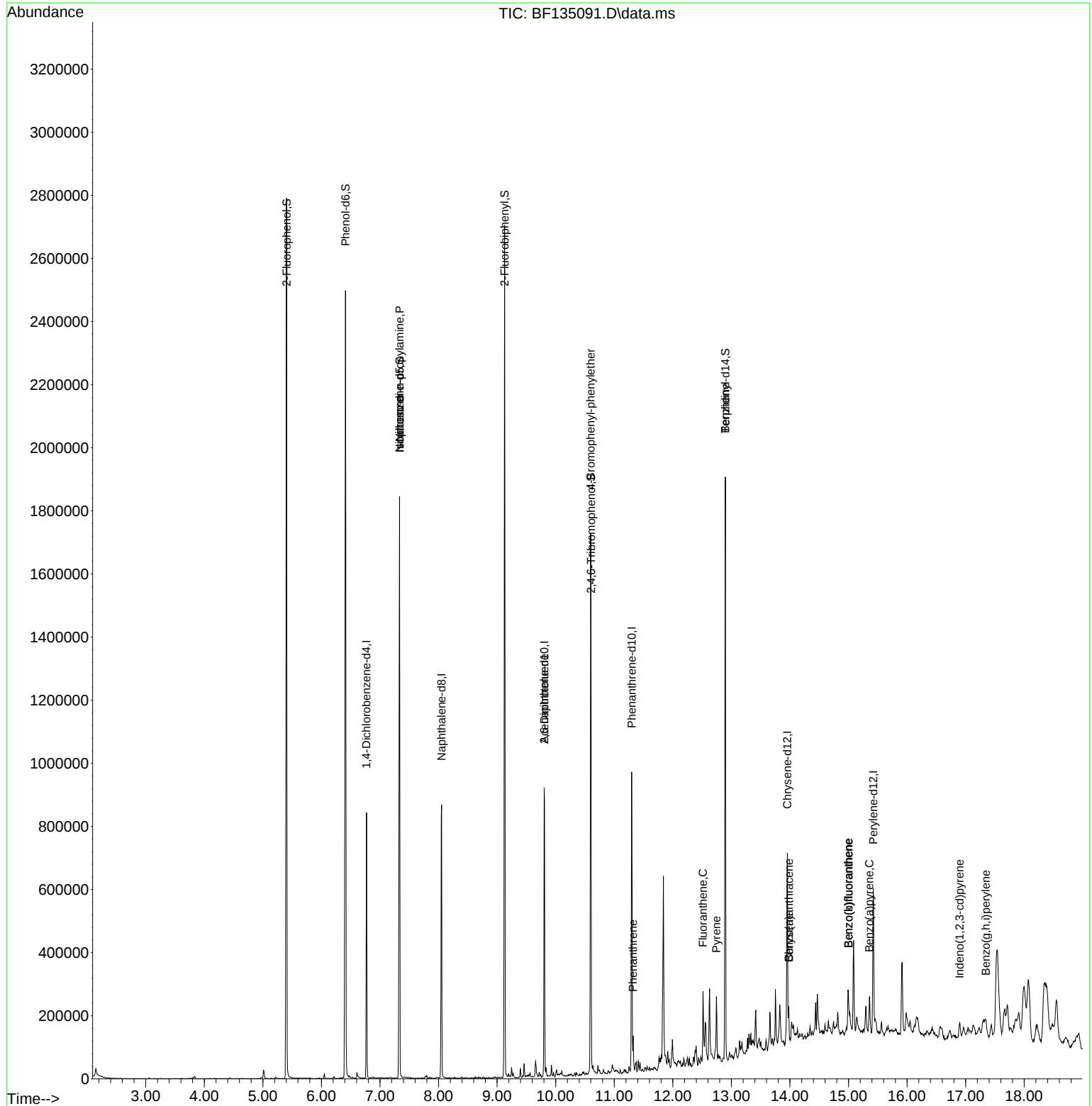
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.769	152	106825	20.000	ng	0.00
21) Naphthalene-d8	8.051	136	395684	20.000	ng	0.00
39) Acenaphthene-d10	9.804	164	190226	20.000	ng	-0.01
64) Phenanthrene-d10	11.298	188	325740	20.000	ng	-0.01
76) Chrysene-d12	13.957	240	182326	20.000	ng	# 0.00
86) Perylene-d12	15.421	264	215121	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	716935	103.664	ng	0.00
7) Phenol-d6	6.410	99	879594	102.038	ng	0.00
23) Nitrobenzene-d5	7.333	82	567513	80.578	ng	-0.01
42) 2,4,6-Tribromophenol	10.604	330	211678	104.900	ng	0.00
45) 2-Fluorobiphenyl	9.127	172	787500	67.401	ng	-0.01
79) Terphenyl-d14	12.898	244	610748	54.665	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.333	70	76400	14.921	ng	# 79
25) Isophorone	7.333	82	566456	42.420	ng	# 65
51) 2,6-Dinitrotoluene	9.804	165	24593	8.414	ng	# 22
67) 4-Bromophenyl-phenylether	10.598	248	13322	3.856	ng	# 1
69) Atrazine	11.157	200	58	Below Cal		# 37
71) Phenanthrene	11.321	178	36620	2.179	ng	97
75) Fluoranthene	12.516	202	85787	5.049	ng	99
77) Benzidine	12.898	184	8236	2.506	ng	# 94
78) Pyrene	12.745	202	79297	4.581	ng	99
81) Benzo(a)anthracene	13.980	228	45554	3.663	ng	99
83) Chrysene	13.980	228	45554	3.727	ng	96
87) Indeno(1,2,3-cd)pyrene	16.898	276	35541	2.453	ng	97
88) Benzo(b)fluoranthene	14.998	252	87259	6.519	ng	# 97
89) Benzo(k)fluoranthene	14.998	252	87259	6.748	ng	# 97
90) Benzo(a)pyrene	15.357	252	46464	3.737	ng	# 95
92) Benzo(g,h,i)perylene	17.345	276	32803	2.688	ng	96

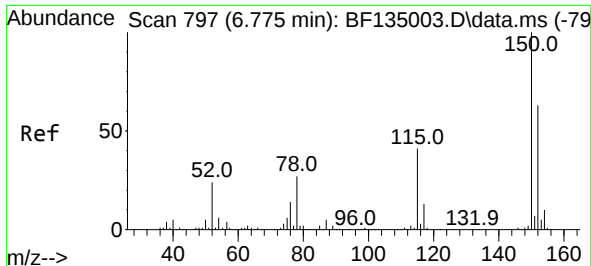
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 05 13:16:39 2023
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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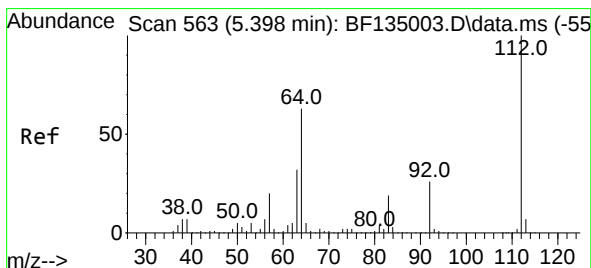
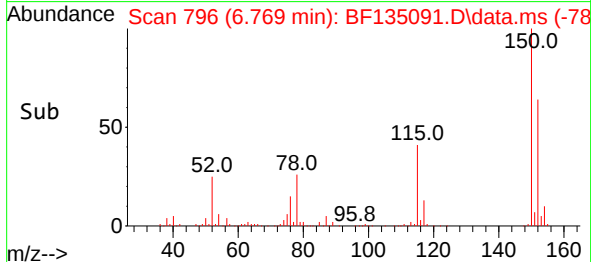
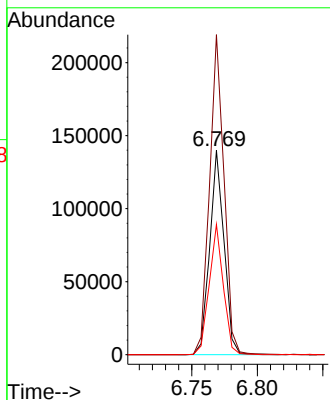
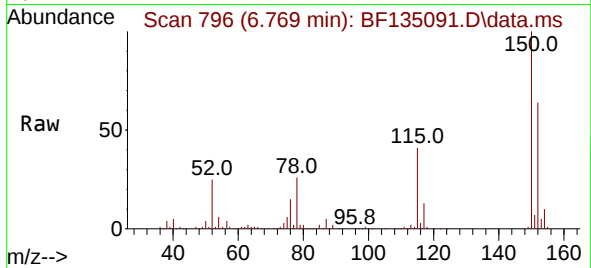




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.769 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

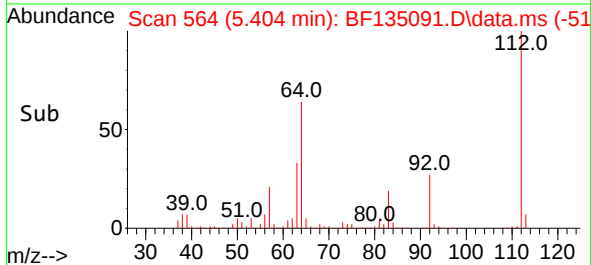
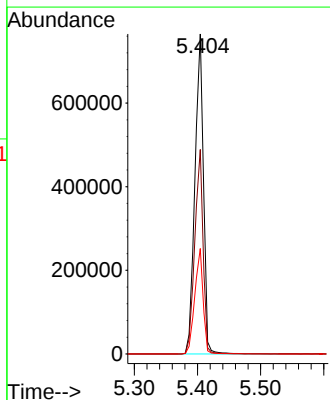
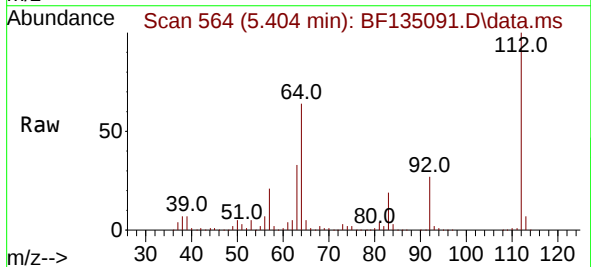
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2

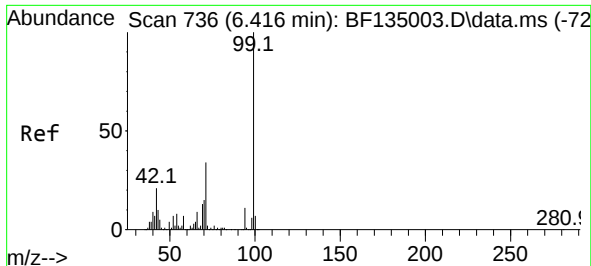
Tgt Ion:152 Resp: 106825
Ion Ratio Lower Upper
152 100
150 156.6 126.2 189.4
115 63.8 51.2 76.8



#5
2-Fluorophenol
Concen: 103.664 ng
RT: 5.404 min Scan# 564
Delta R.T. 0.006 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

Tgt Ion:112 Resp: 716935
Ion Ratio Lower Upper
112 100
64 63.9 50.5 75.7
63 33.0 25.9 38.9

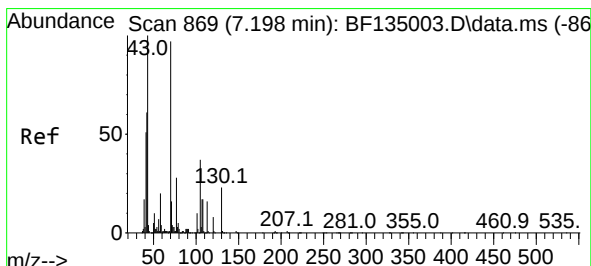
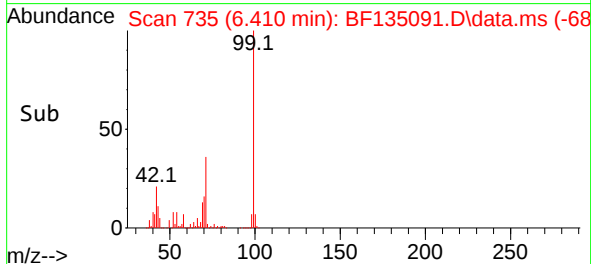
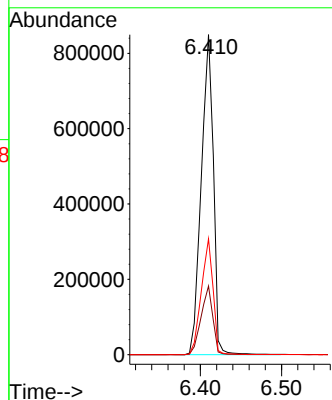
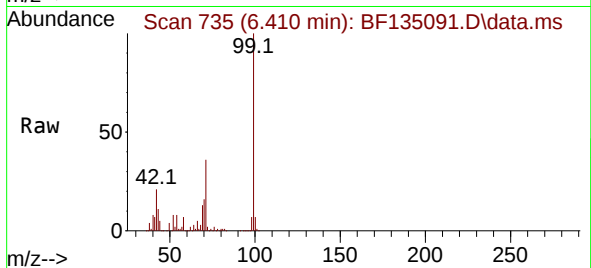




#7
Phenol-d6
Concen: 102.038 ng
RT: 6.410 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

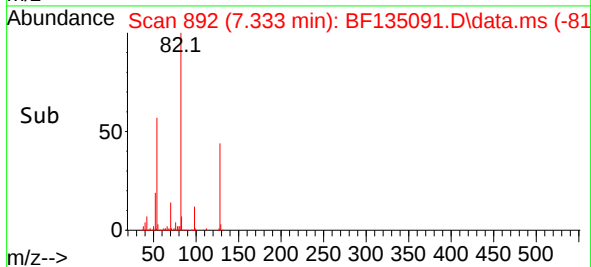
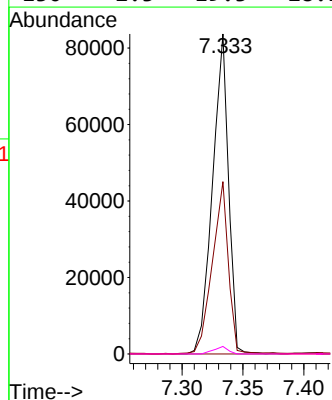
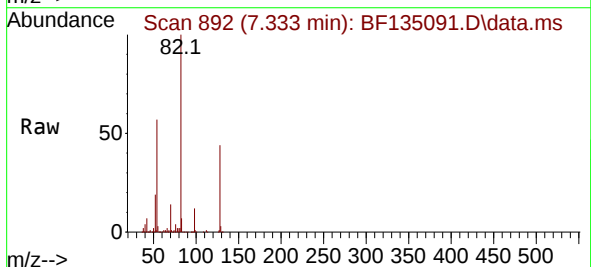
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2

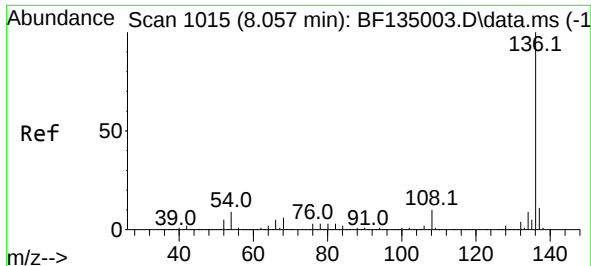
Tgt Ion: 99 Resp: 879594
Ion Ratio Lower Upper
99 100
42 21.4 16.6 25.0
71 36.2 27.0 40.6



#19
n-Nitroso-di-n-propylamine
Concen: 14.921 ng
RT: 7.333 min Scan# 892
Delta R.T. 0.135 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

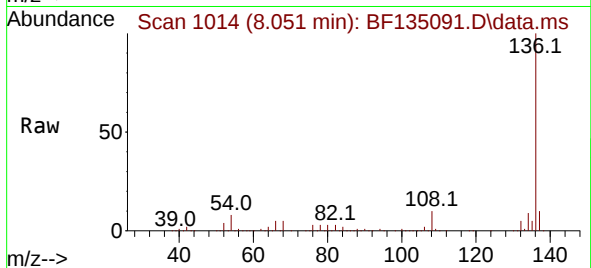
Tgt Ion: 70 Resp: 76400
Ion Ratio Lower Upper
70 100
42 53.9 50.2 75.4
101 0.0 8.1 12.1#
130 2.3 19.3 28.9#



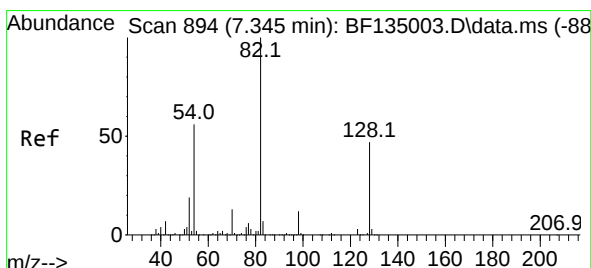
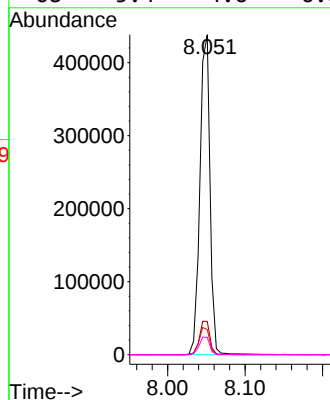
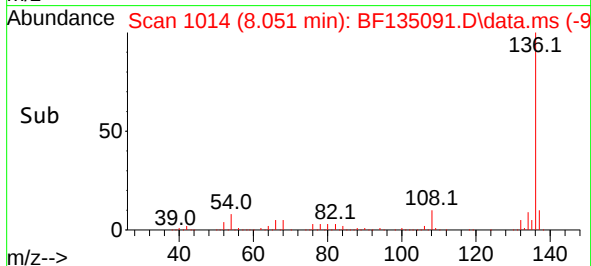


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.051 min Scan# 1014
Delta R.T. -0.006 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

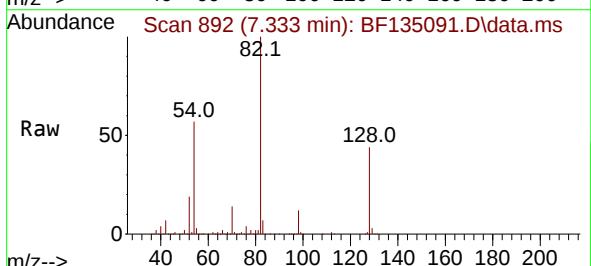
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2



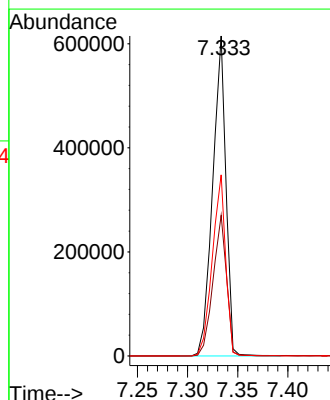
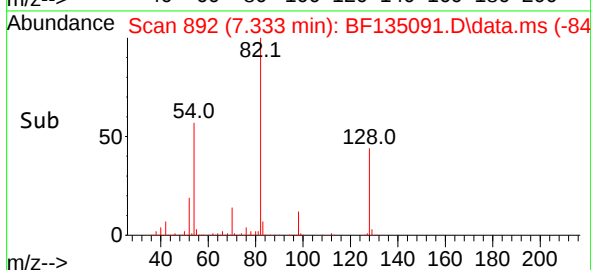
Tgt Ion:	136	Resp:	395684
Ion	Ratio	Lower	Upper
136	100		
137	10.4	8.8	13.2
54	7.9	7.0	10.4
68	5.4	4.6	6.8

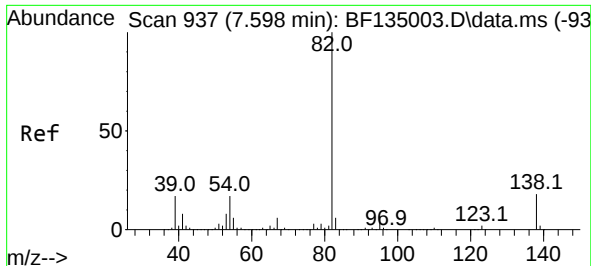


#23
Nitrobenzene-d5
Concen: 80.578 ng
RT: 7.333 min Scan# 892
Delta R.T. -0.012 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47



Tgt Ion:	82	Resp:	567513
Ion	Ratio	Lower	Upper
82	100		
128	44.0	37.8	56.8
54	56.6	45.0	67.6

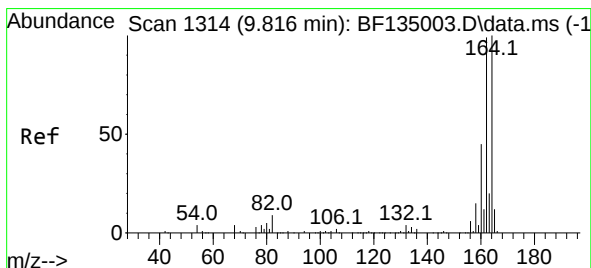
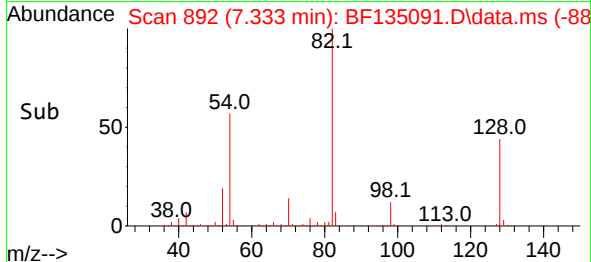
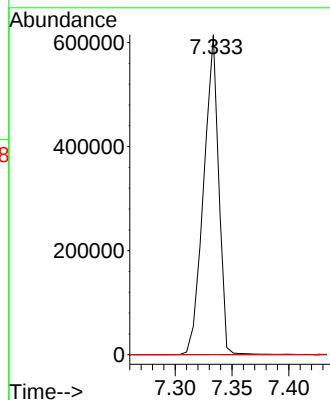
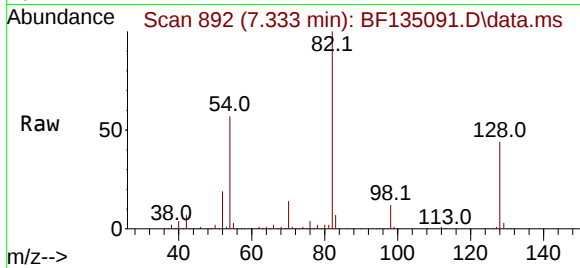




#25
Isophorone
Concen: 42.420 ng
RT: 7.333 min Scan# 89
Delta R.T. -0.265 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

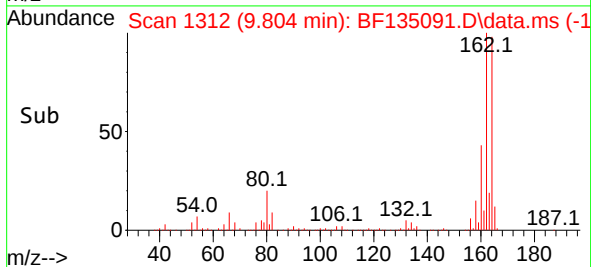
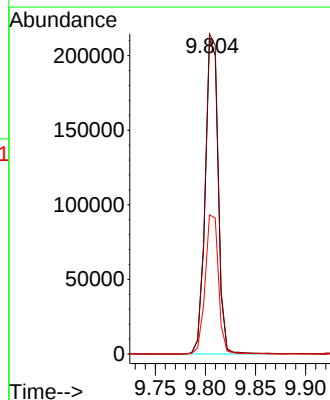
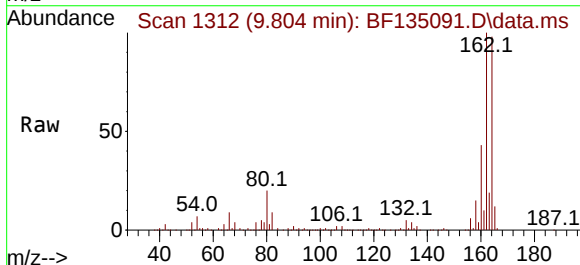
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2

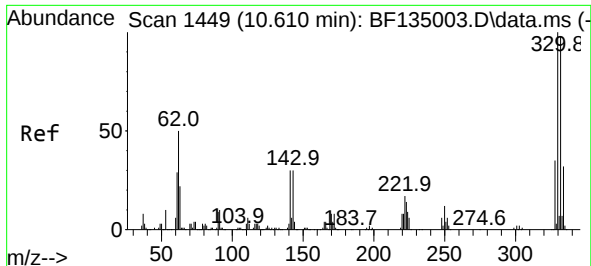
Tgt Ion: 82 Resp: 566456
Ion Ratio Lower Upper
82 100
95 0.0 5.6 8.4#
138 0.0 14.7 22.1#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.804 min Scan# 1312
Delta R.T. -0.012 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

Tgt Ion:164 Resp: 190226
Ion Ratio Lower Upper
164 100
162 101.6 79.5 119.3
160 44.1 36.0 54.0





#42

2,4,6-Tribromophenol

Concen: 104.900 ng

RT: 10.604 min Scan# 1449

Delta R.T. -0.006 min

Lab File: BF135091.D

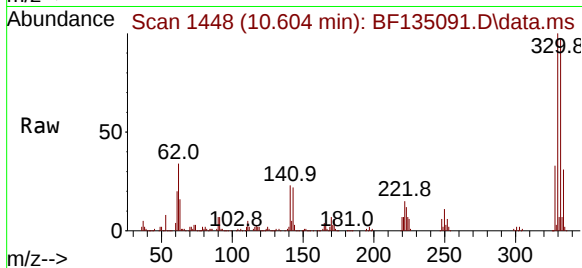
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Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-2



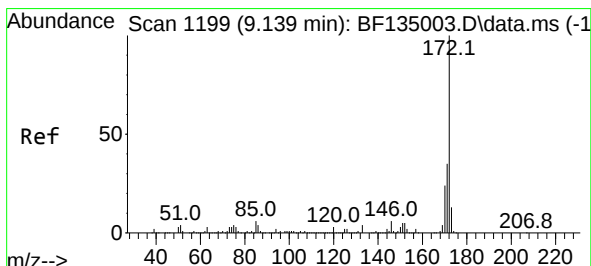
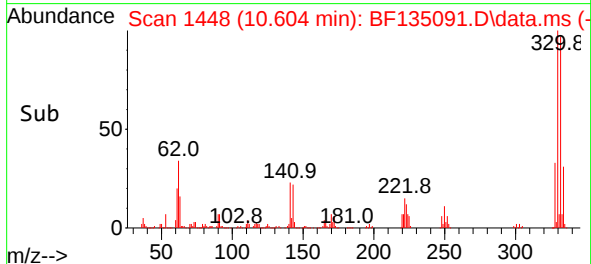
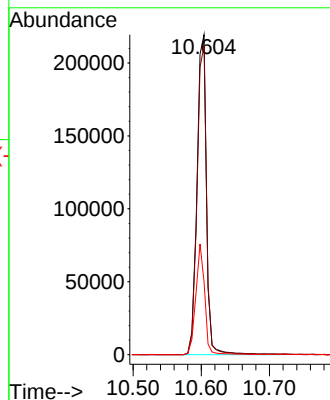
Tgt Ion:330 Resp: 211678

Ion Ratio Lower Upper

330 100

332 96.3 77.6 116.4

141 32.5 26.3 39.5



#45

2-Fluorobiphenyl

Concen: 67.401 ng

RT: 9.127 min Scan# 1197

Delta R.T. -0.012 min

Lab File: BF135091.D

Acq: 05 Sep 2023 12:47

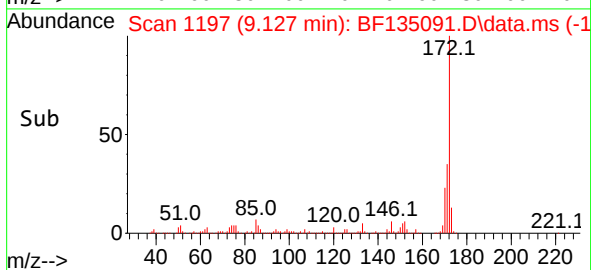
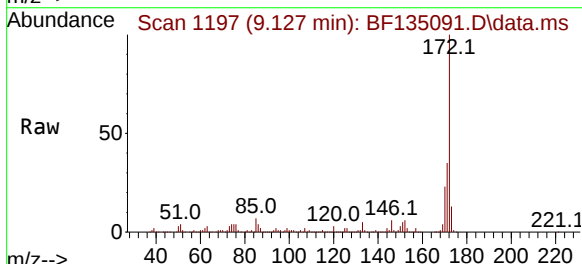
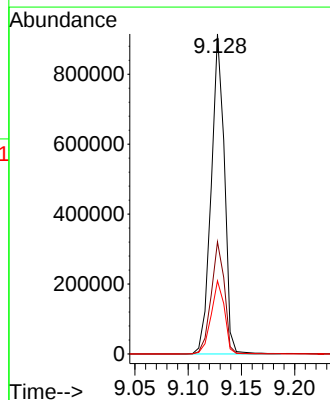
Tgt Ion:172 Resp: 787500

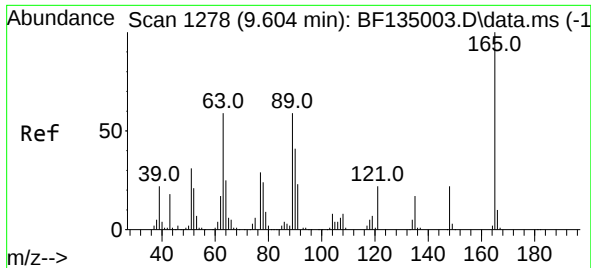
Ion Ratio Lower Upper

172 100

171 35.1 28.2 42.2

170 22.9 19.0 28.4

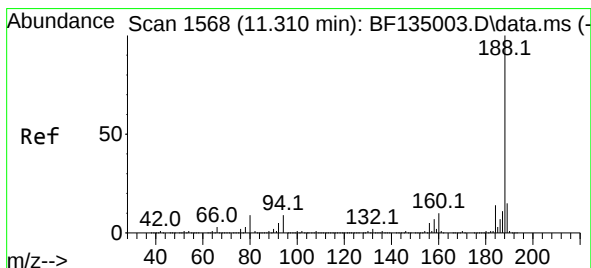
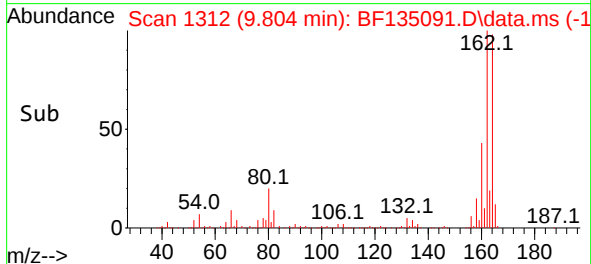
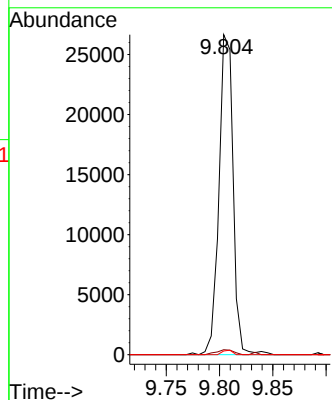
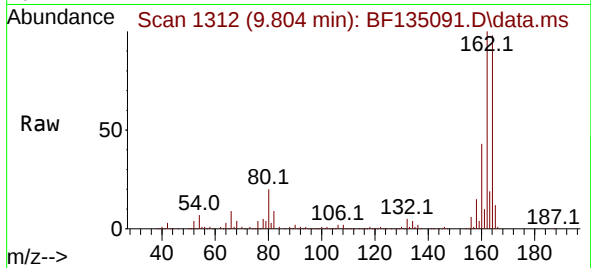




#51
2,6-Dinitrotoluene
Concen: 8.414 ng
RT: 9.804 min Scan# 11
Delta R.T. 0.200 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

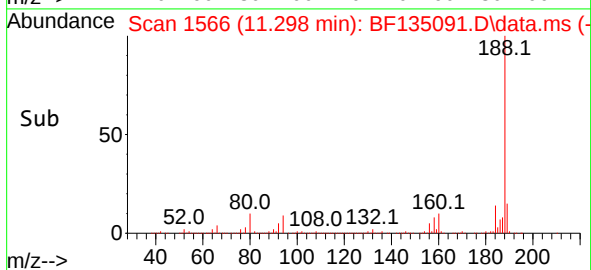
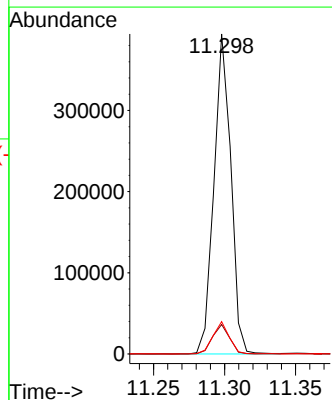
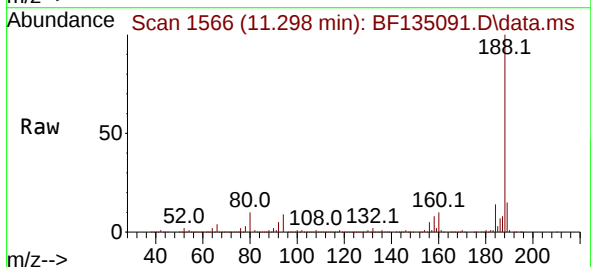
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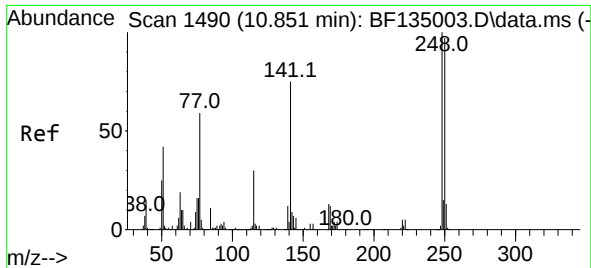
Tgt Ion:165 Resp: 24593
Ion Ratio Lower Upper
165 100
63 1.6 50.4 75.6#
89 1.1 47.1 70.7#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1566
Delta R.T. -0.012 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

Tgt Ion:188 Resp: 325740
Ion Ratio Lower Upper
188 100
94 9.2 7.0 10.4
80 10.1 7.4 11.2

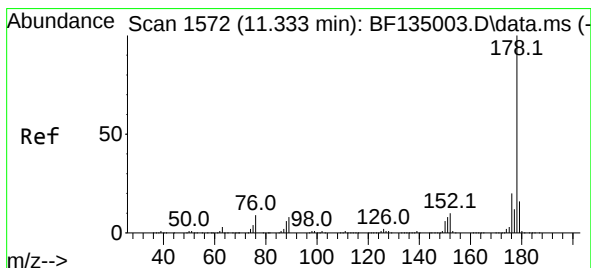
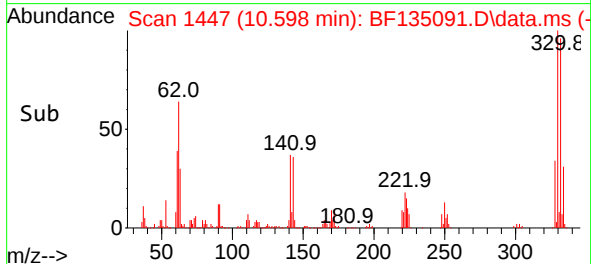
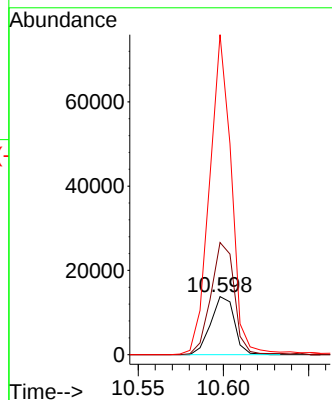
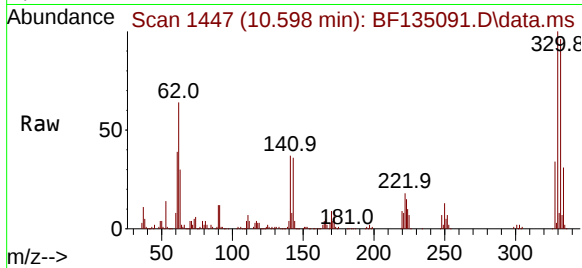




#67
4-Bromophenyl-phenylether
Concen: 3.856 ng
RT: 10.598 min Scan# 1490
Delta R.T. -0.253 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

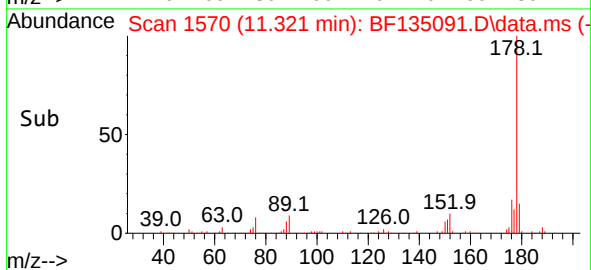
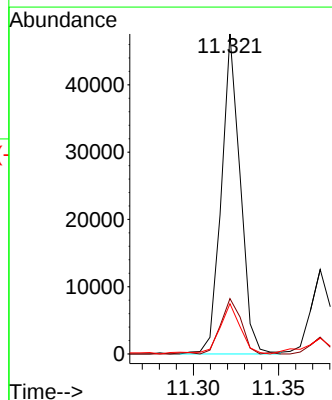
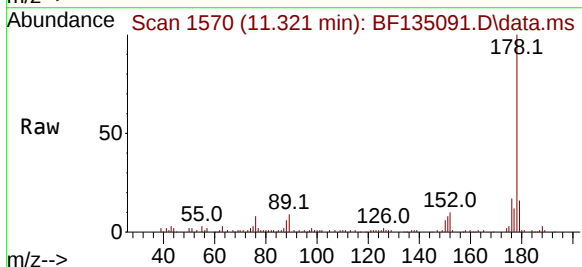
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2

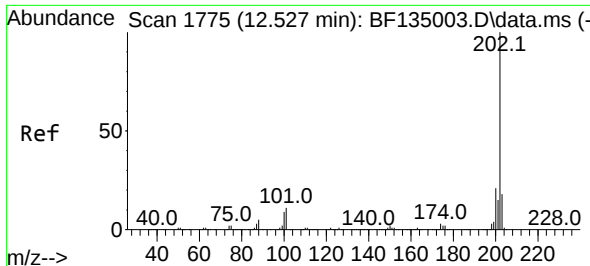
Tgt Ion:248 Resp: 13322
Ion Ratio Lower Upper
248 100
250 193.0 77.9 116.9#
141 550.5 59.8 89.8#



#71
Phenanthrene
Concen: 2.179 ng
RT: 11.321 min Scan# 1570
Delta R.T. -0.012 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

Tgt Ion:178 Resp: 36620
Ion Ratio Lower Upper
178 100
176 17.3 15.9 23.9
179 15.7 12.5 18.7

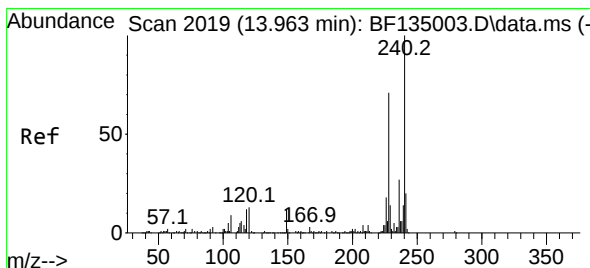
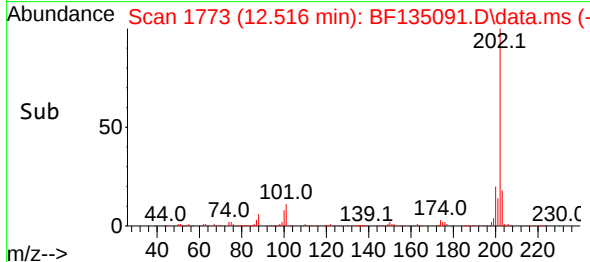
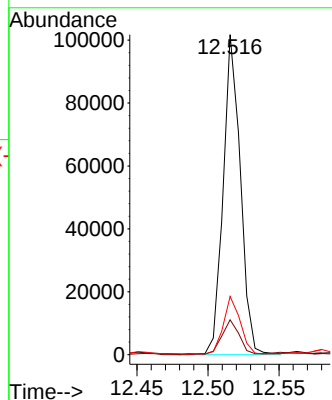
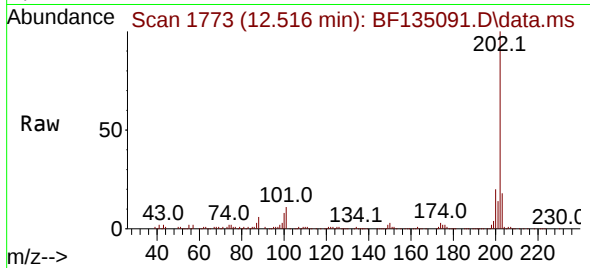




#75
Fluoranthene
Concen: 5.049 ng
RT: 12.516 min Scan# 1775
Delta R.T. -0.012 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

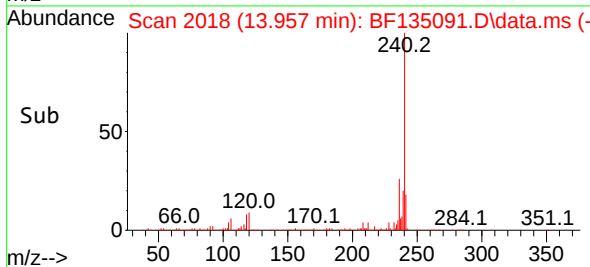
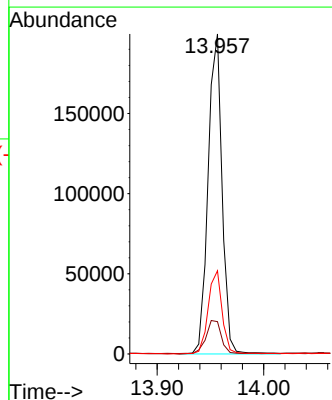
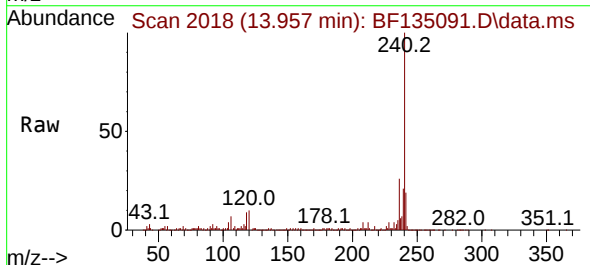
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2

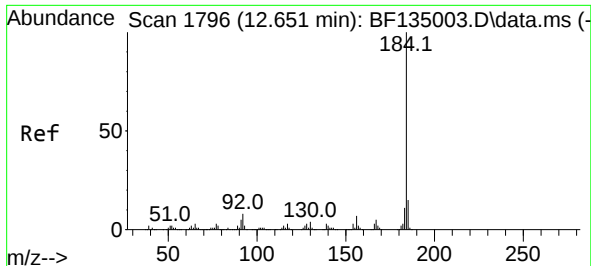
Tgt Ion:202 Resp: 85787
Ion Ratio Lower Upper
202 100
101 10.9 0.0 31.5
203 18.2 0.0 37.8



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

Tgt Ion:240 Resp: 182326
Ion Ratio Lower Upper
240 100
120 10.1 10.2 15.2#
236 26.0 21.3 31.9

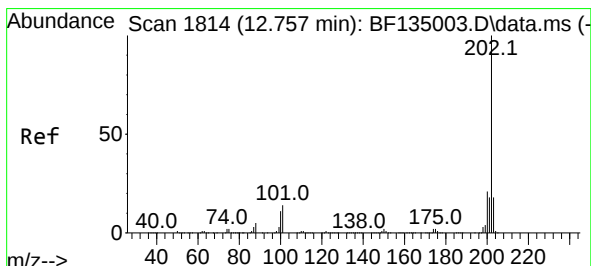
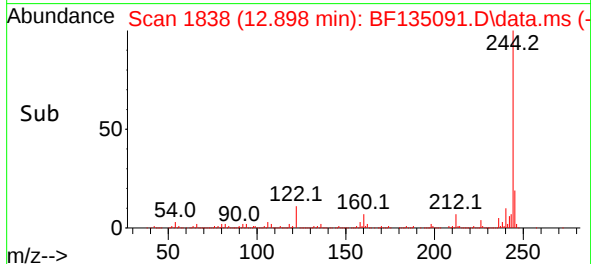
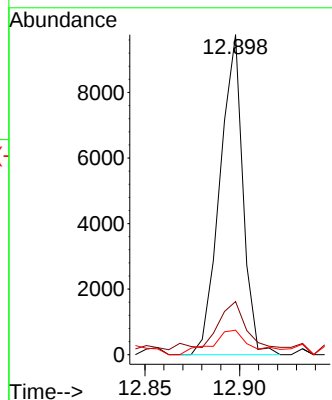
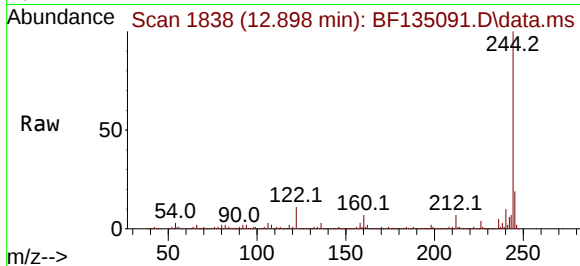




#77
Benzidine
Concen: 2.506 ng
RT: 12.898 min Scan# 1838
Delta R.T. 0.247 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

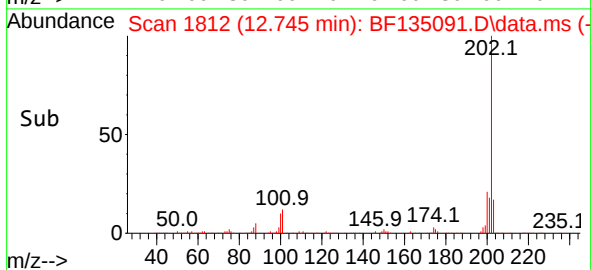
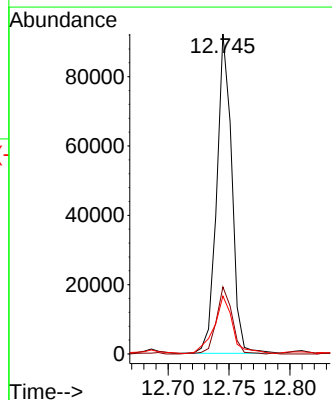
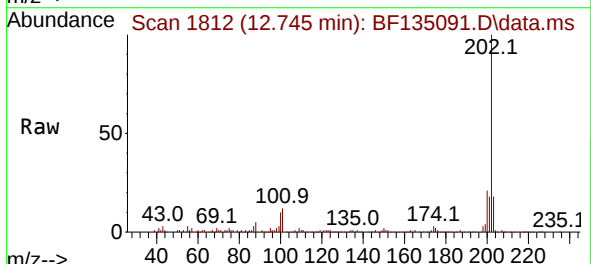
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2

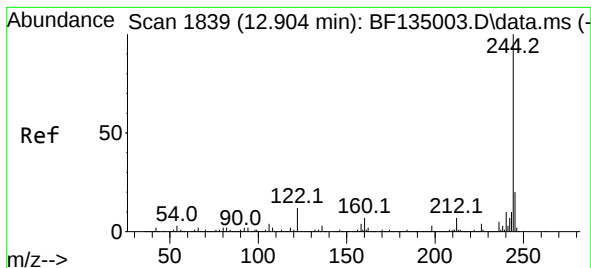
Tgt Ion:184 Resp: 8236
Ion Ratio Lower Upper
184 100
185 16.6 12.0 18.0
183 7.7 9.0 13.6#



#78
Pyrene
Concen: 4.581 ng
RT: 12.745 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF135091.D
Acq: 05 Sep 2023 12:47

Tgt Ion:202 Resp: 79297
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.6
203 18.1 14.2 21.2





#79

Terphenyl-d14

Concen: 54.665 ng

RT: 12.898 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF135091.D

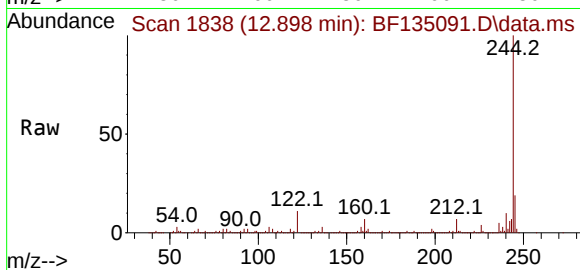
Acq: 05 Sep 2023 12:47

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-2



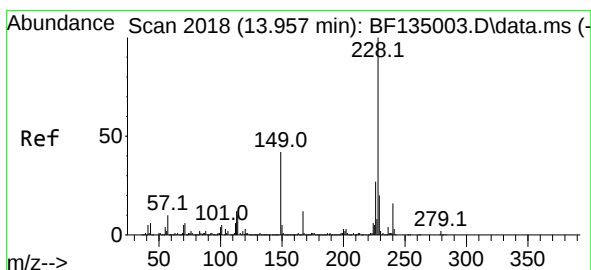
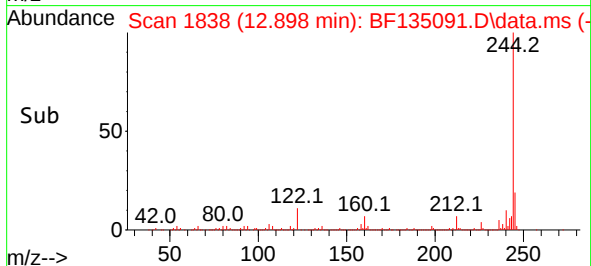
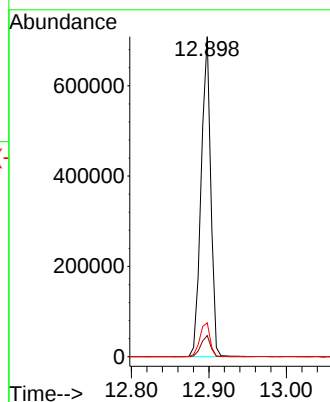
Tgt Ion:244 Resp: 610748

Ion Ratio Lower Upper

244 100

212 6.6 5.6 8.4

122 10.6 9.8 14.6



#81

Benzo(a)anthracene

Concen: 3.663 ng

RT: 13.980 min Scan# 2022

Delta R.T. 0.023 min

Lab File: BF135091.D

Acq: 05 Sep 2023 12:47

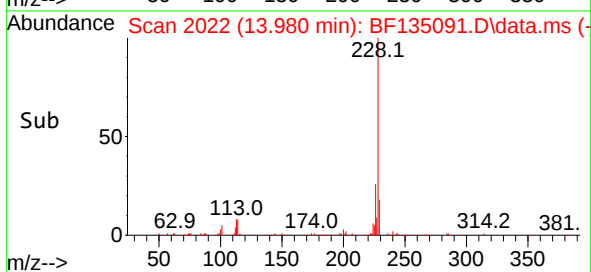
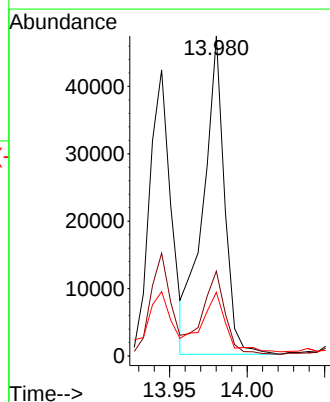
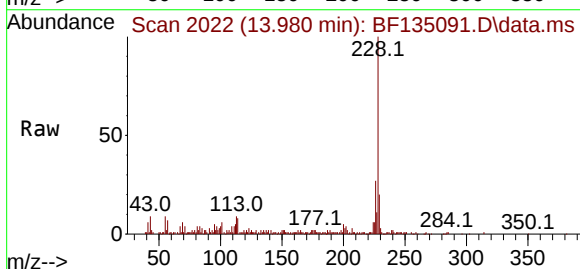
Tgt Ion:228 Resp: 45554

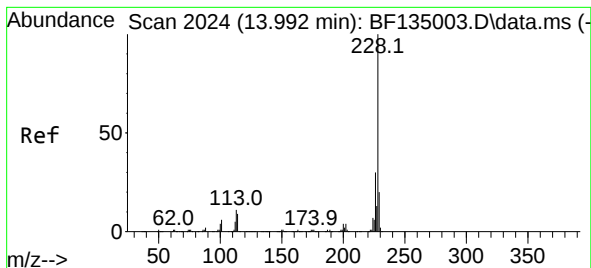
Ion Ratio Lower Upper

228 100

226 26.5 21.6 32.4

229 19.9 15.6 23.4





#83

Chrysene

Concen: 3.727 ng

RT: 13.980 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF135091.D

Acq: 05 Sep 2023 12:47

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-2

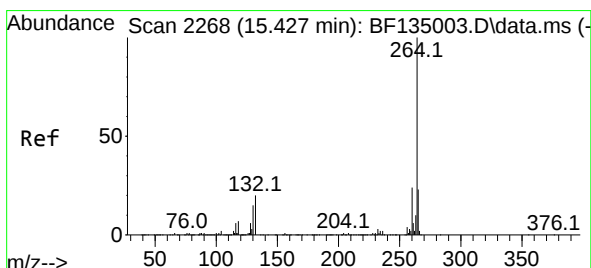
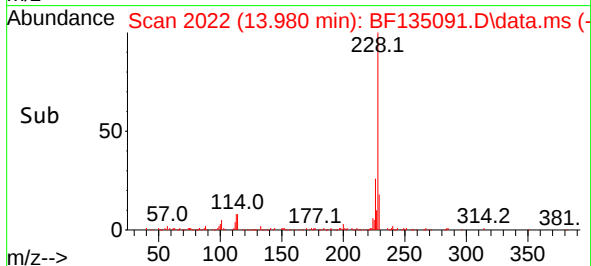
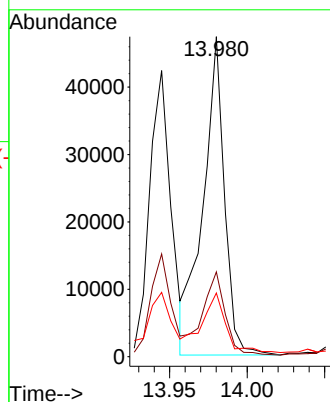
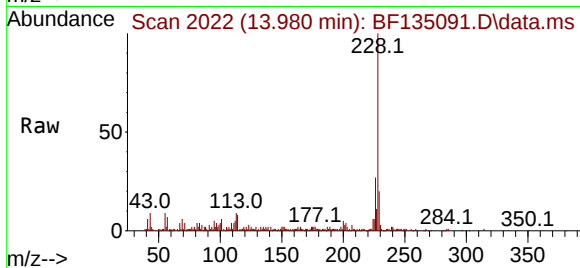
Tgt Ion:228 Resp: 45554

Ion Ratio Lower Upper

228 100

226 26.5 24.2 36.4

229 19.9 15.9 23.9



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.421 min Scan# 2267

Delta R.T. -0.006 min

Lab File: BF135091.D

Acq: 05 Sep 2023 12:47

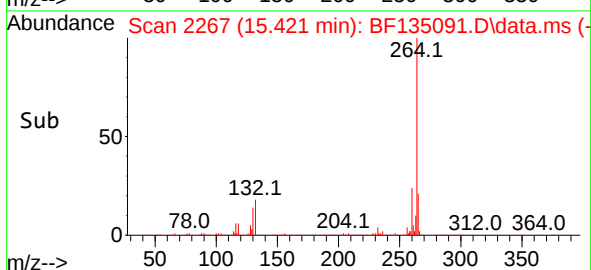
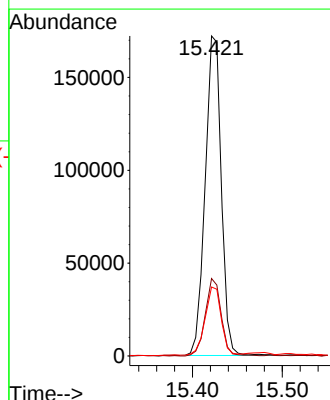
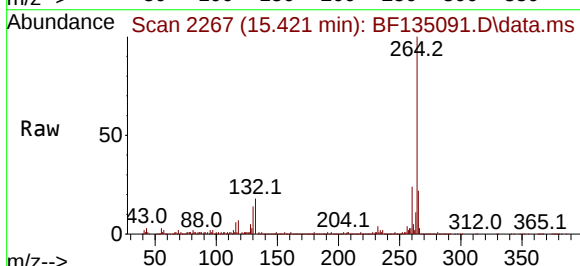
Tgt Ion:264 Resp: 215121

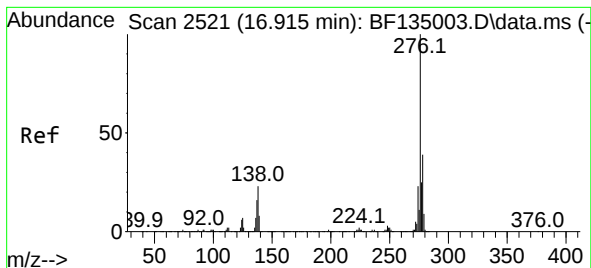
Ion Ratio Lower Upper

264 100

260 24.2 19.0 28.6

265 21.5 18.2 27.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.453 ng

RT: 16.898 min Scan# 2118

Delta R.T. -0.018 min

Lab File: BF135091.D

Acq: 05 Sep 2023 12:47

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-2

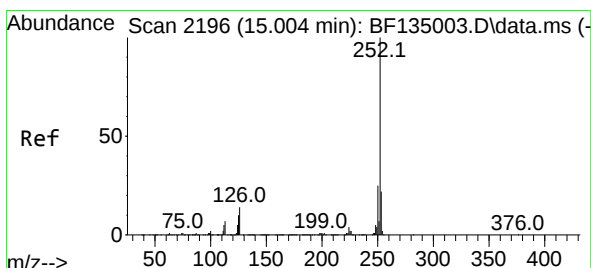
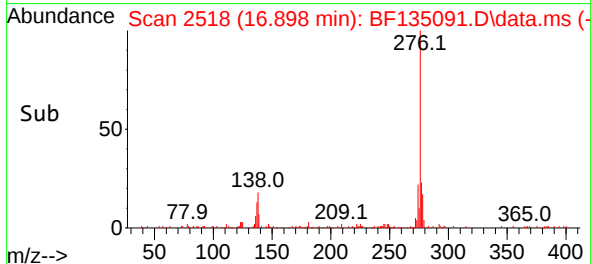
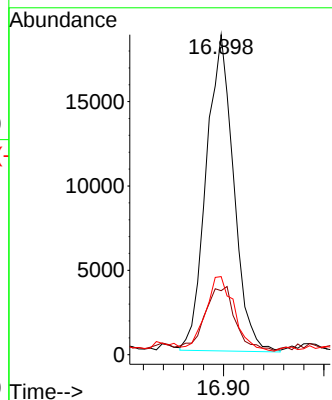
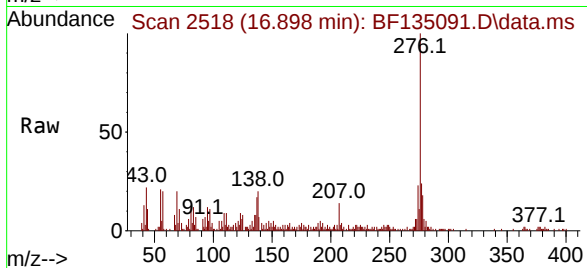
Tgt Ion:276 Resp: 35541

Ion Ratio Lower Upper

276 100

138 22.4 20.2 30.2

277 25.0 20.4 30.6



#88

Benzo(b)fluoranthene

Concen: 6.519 ng

RT: 14.998 min Scan# 2195

Delta R.T. -0.006 min

Lab File: BF135091.D

Acq: 05 Sep 2023 12:47

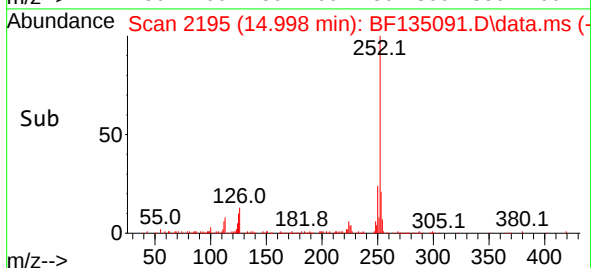
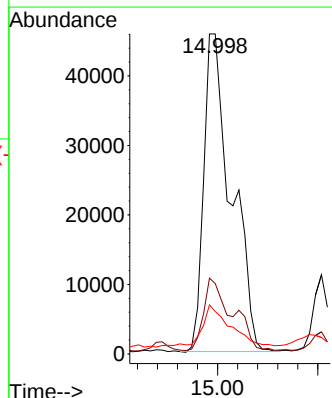
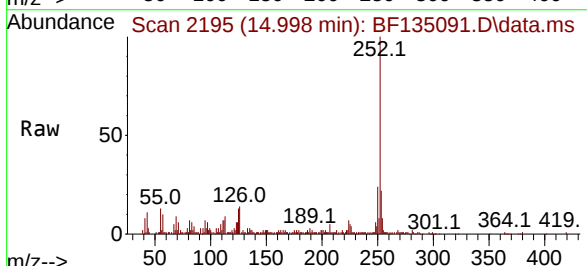
Tgt Ion:252 Resp: 87259

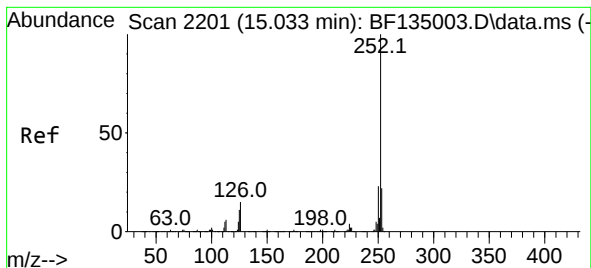
Ion Ratio Lower Upper

252 100

253 22.0 17.8 26.8

125 13.3 8.4 12.6#





#89

Benzo(k)fluoranthene

Concen: 6.748 ng

RT: 14.998 min Scan# 2195

Delta R.T. -0.035 min

Lab File: BF135091.D

Acq: 05 Sep 2023 12:47

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-2

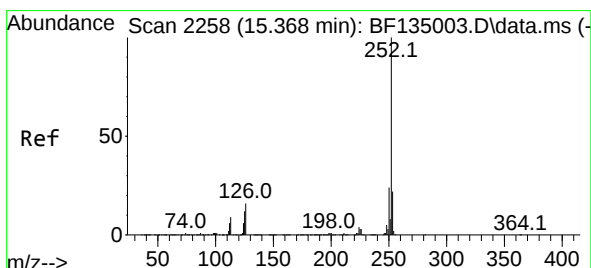
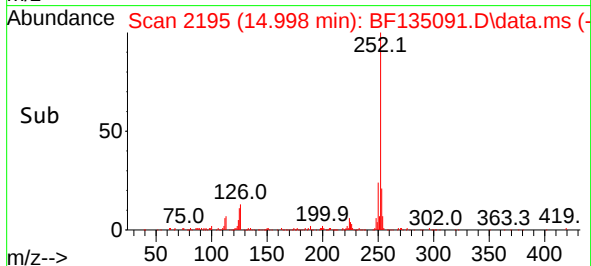
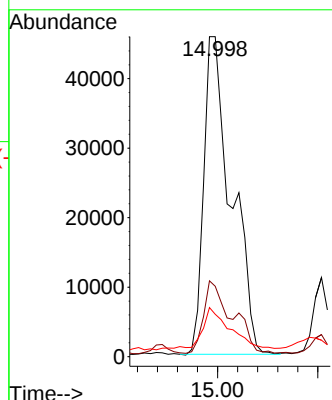
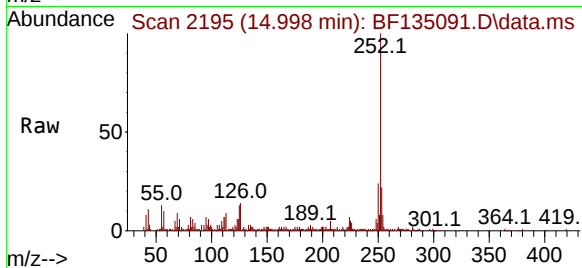
Tgt Ion:252 Resp: 87259

Ion Ratio Lower Upper

252 100

253 22.0 17.4 26.0

125 13.3 8.5 12.7#



#90

Benzo(a)pyrene

Concen: 3.737 ng

RT: 15.357 min Scan# 2256

Delta R.T. -0.012 min

Lab File: BF135091.D

Acq: 05 Sep 2023 12:47

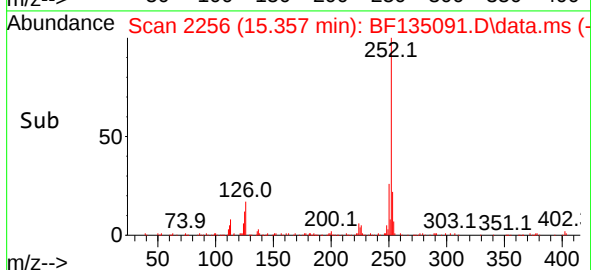
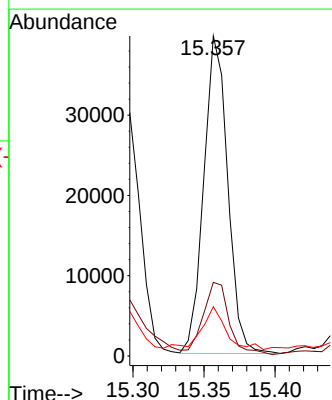
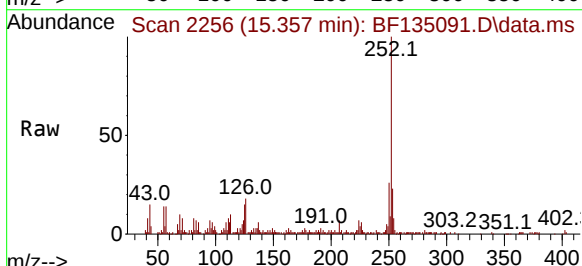
Tgt Ion:252 Resp: 46464

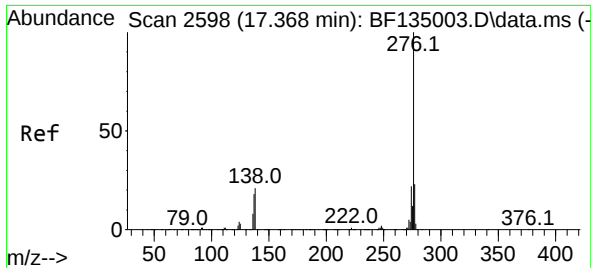
Ion Ratio Lower Upper

252 100

253 23.0 17.4 26.0

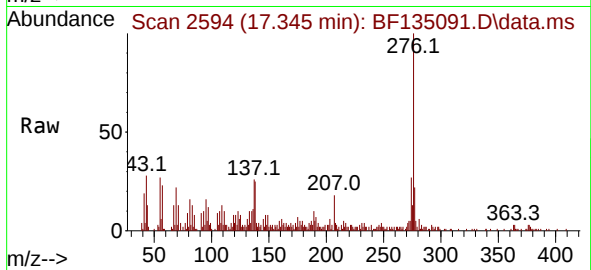
125 15.4 9.5 14.3#





#92
 Benzo(g,h,i)perylene
 Concen: 2.688 ng
 RT: 17.345 min Scan# 21
 Delta R.T. -0.024 min
 Lab File: BF135091.D
 Acq: 05 Sep 2023 12:47

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-OU3-DENALI-2



Tgt Ion:	276	Resp:	32803
Ion Ratio	Lower	Upper	
276	100		
277	22.2	18.5	27.7
138	24.7	17.1	25.7

