

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120823\
 Data File : BF136472.D
 Acq On : 08 Dec 2023 17:39
 Operator : CG\JU
 Sample : 05600-03
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

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

Quant Time: Dec 08 18:03:26 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 06 09:40:27 2023
 Response via : Initial Calibration

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

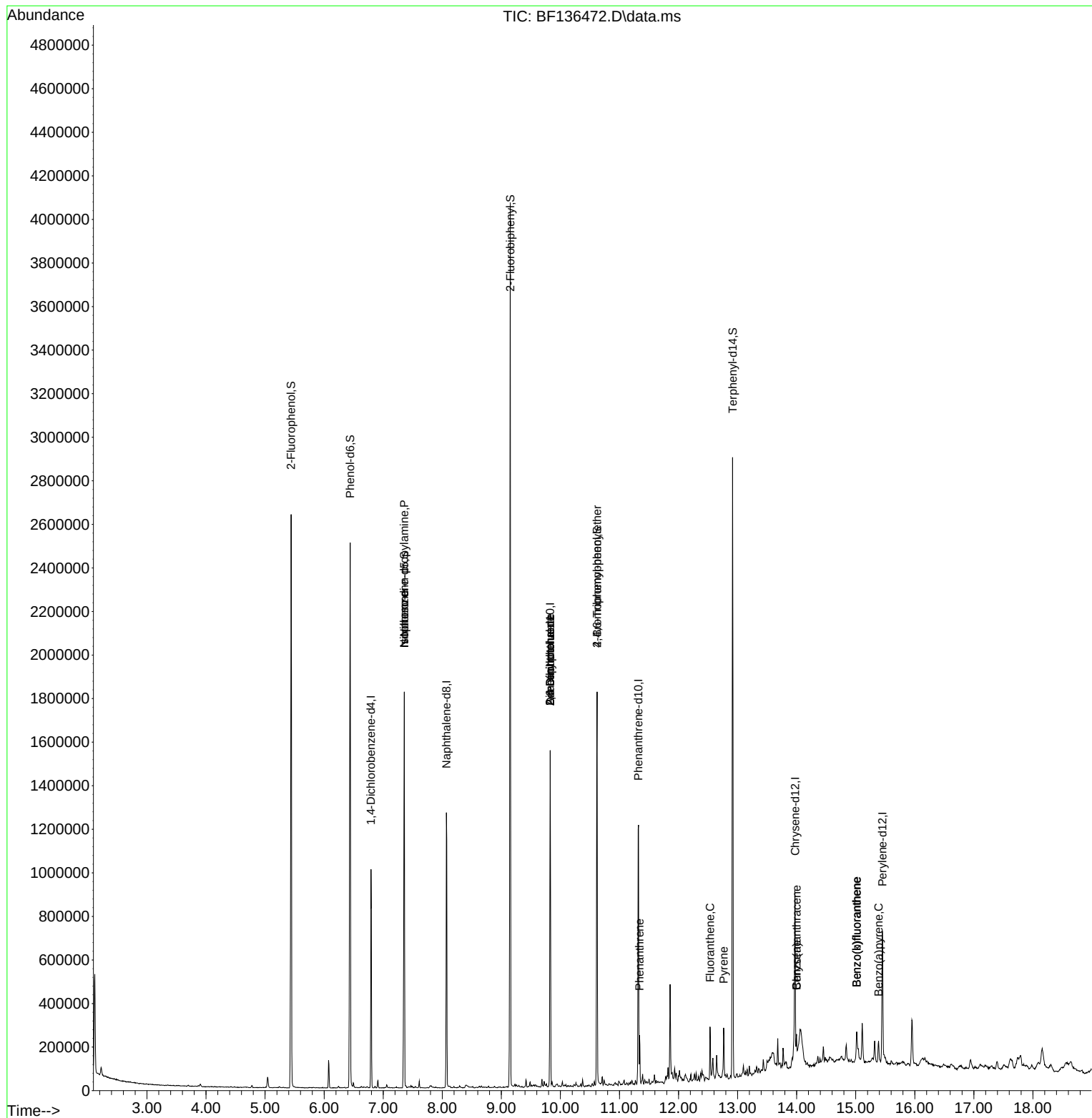
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.793	152	144733	20.000	ng	-0.01
21) Naphthalene-d8	8.069	136	591856	20.000	ng	-0.01
39) Acenaphthene-d10	9.828	164	284353	20.000	ng	-0.01
64) Phenanthrene-d10	11.322	188	464918	20.000	ng	0.00
76) Chrysene-d12	13.974	240	252716	20.000	ng	0.00
86) Perylene-d12	15.451	264	286858	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	776095	79.191	ng	0.00
7) Phenol-d6	6.440	99	949950	77.691	ng	0.00
23) Nitrobenzene-d5	7.357	82	579550	52.936	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	231579	66.050	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	1175055	56.386	ng	-0.01
79) Terphenyl-d14	12.916	244	964817	50.320	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	6.346	77	301	Below Cal	#	72
19) n-Nitroso-di-n-propyla...	7.357	70	76360	10.826	ng	# 76
25) Isophorone	7.357	82	579538	29.464	ng	# 65
50) Dimethylphthalate	9.828	163	56386	2.693	ng	# 1
51) 2,6-Dinitrotoluene	9.828	165	35938	7.630	ng	# 28
57) 2,4-Dinitrotoluene	9.828	165	35938	5.768	ng	# 28
67) 4-Bromophenyl-phenylether	10.622	248	14072	2.603	ng	# 1
71) Phenanthrene	11.339	178	78119	3.057	ng	98
75) Fluoranthene	12.533	202	91714	3.425	ng	98
77) Benzidine	12.916	184	11238	Below Cal	#	91
78) Pyrene	12.763	202	86418	3.492	ng	98
81) Benzo(a)anthracene	13.998	228	47926	2.723	ng	97
83) Chrysene	13.998	228	47926	2.767	ng	96
88) Benzo(b)fluoranthene	15.016	252	93932	4.789	ng	97
89) Benzo(k)fluoranthene	15.016	252	93932	5.082	ng	97
90) Benzo(a)pyrene	15.386	252	47928	2.959	ng	# 94

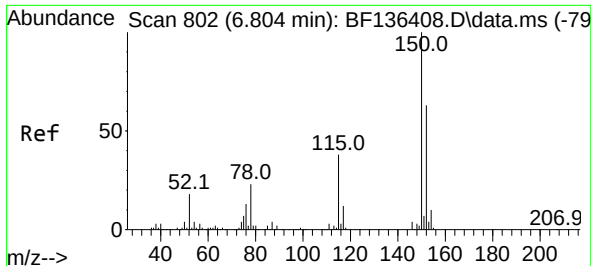
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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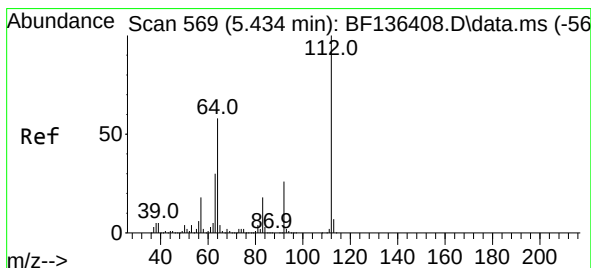
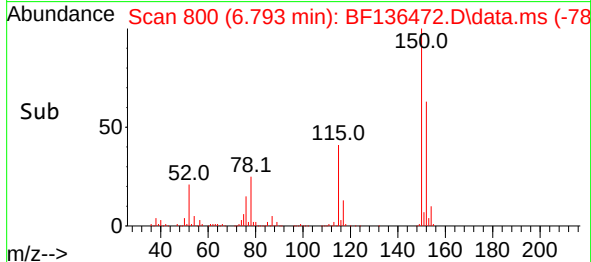
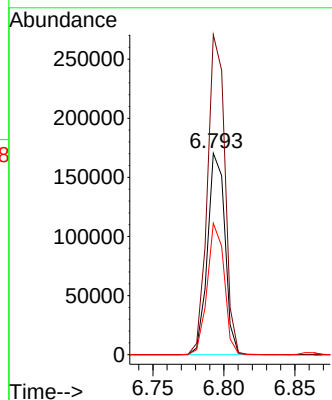
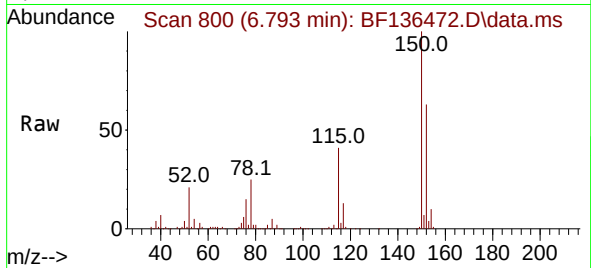




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.793 min Scan# 802
Delta R.T. -0.011 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

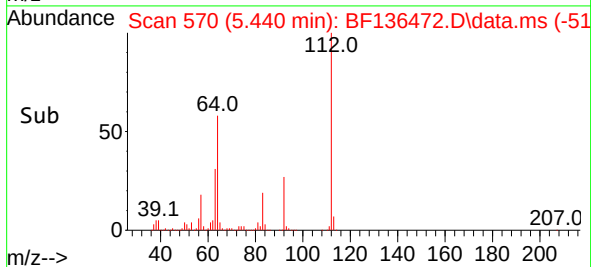
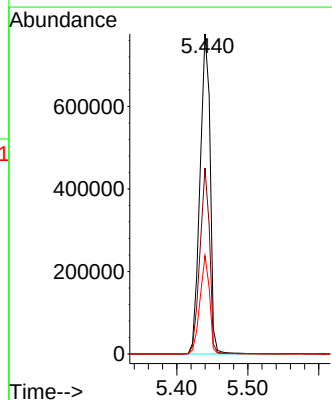
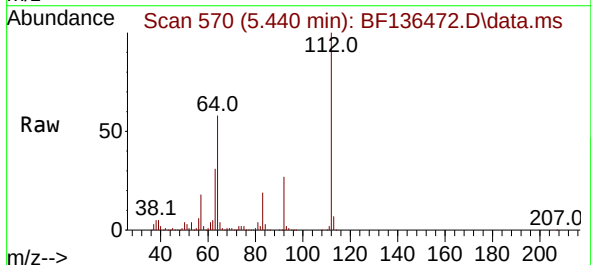
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-2

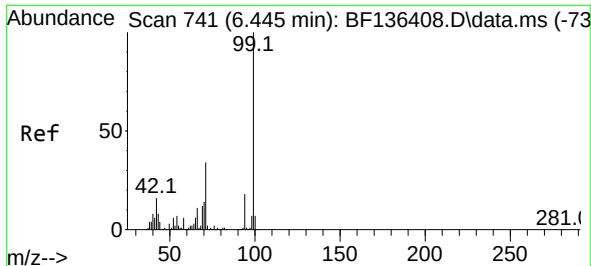
Tgt Ion:152 Resp: 144733
Ion Ratio Lower Upper
152 100
150 158.8 126.4 189.6
115 65.2 48.2 72.4



#5
2-Fluorophenol
Concen: 79.191 ng
RT: 5.440 min Scan# 570
Delta R.T. 0.006 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

Tgt Ion:112 Resp: 776095
Ion Ratio Lower Upper
112 100
64 58.1 46.5 69.7
63 30.8 23.9 35.9

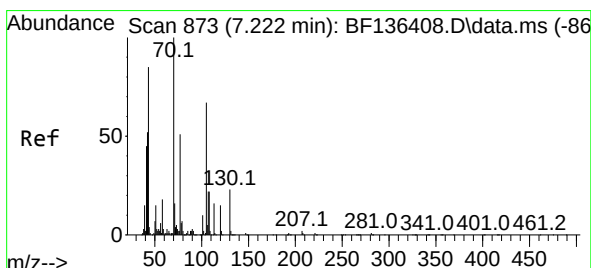
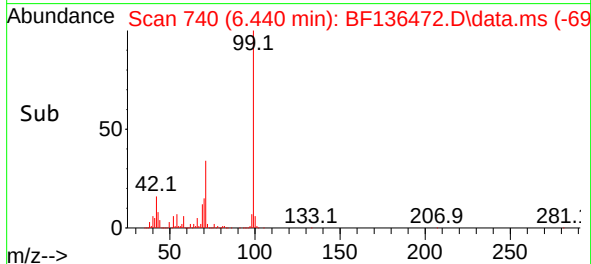
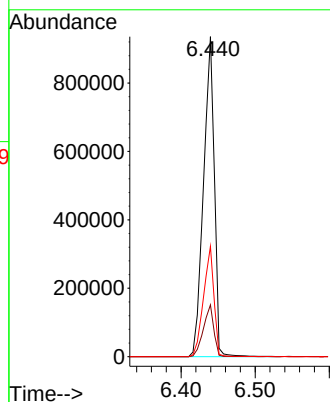
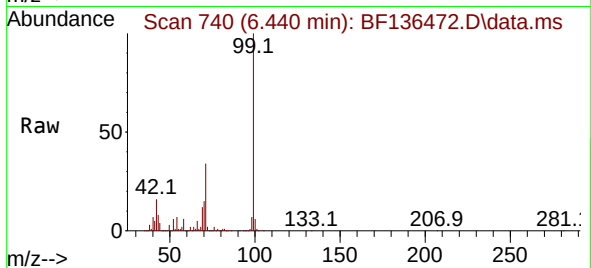




#7
Phenol-d6
Concen: 77.691 ng
RT: 6.440 min Scan# 741
Delta R.T. -0.006 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

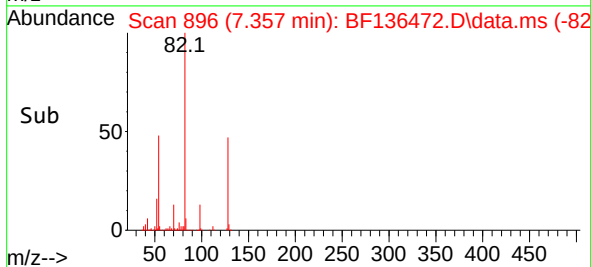
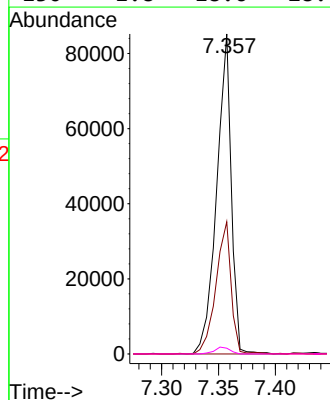
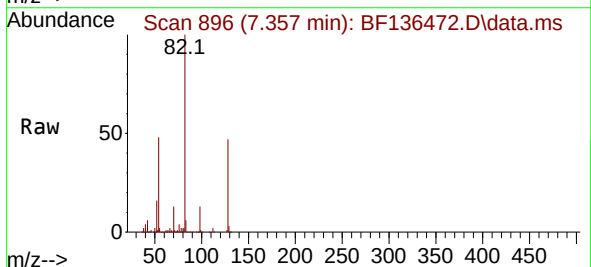
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-2

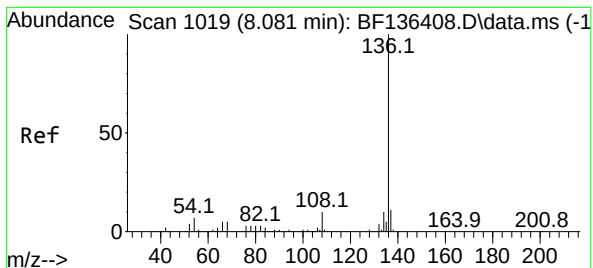
Tgt Ion: 99 Resp: 949950
Ion Ratio Lower Upper
99 100
42 16.2 12.8 19.2
71 34.5 27.0 40.4



#19
n-Nitroso-di-n-propylamine
Concen: 10.826 ng
RT: 7.357 min Scan# 896
Delta R.T. 0.135 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

Tgt Ion: 70 Resp: 76360
Ion Ratio Lower Upper
70 100
42 41.3 41.4 62.0#
101 0.0 8.2 12.4#
130 1.8 18.6 28.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.069 min Scan# 1017

Delta R.T. -0.012 min

Lab File: BF136472.D

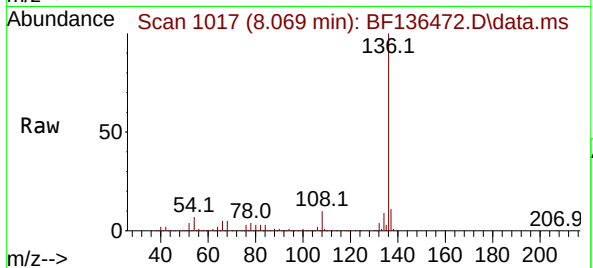
Acq: 08 Dec 2023 17:39

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-LKWD-DENALI-2



Tgt Ion:136 Resp: 591856

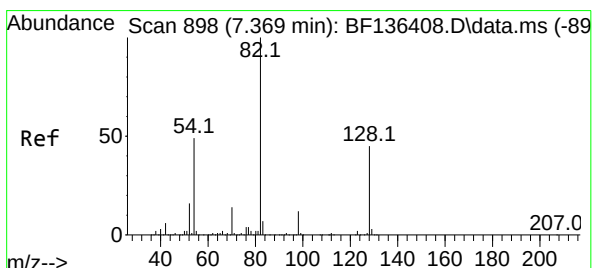
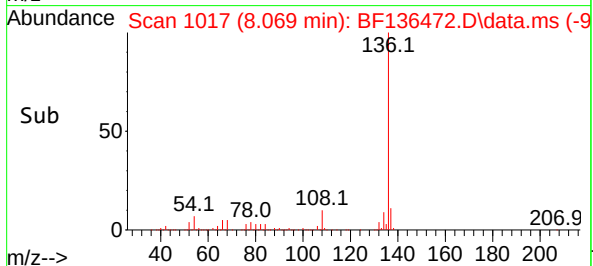
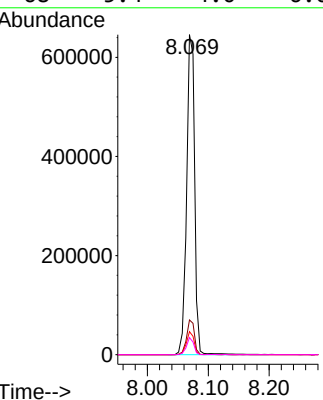
Ion Ratio Lower Upper

136 100

137 10.9 8.6 12.8

54 7.2 5.7 8.5

68 5.4 4.0 6.0



#23

Nitrobenzene-d5

Concen: 52.936 ng

RT: 7.357 min Scan# 896

Delta R.T. -0.012 min

Lab File: BF136472.D

Acq: 08 Dec 2023 17:39

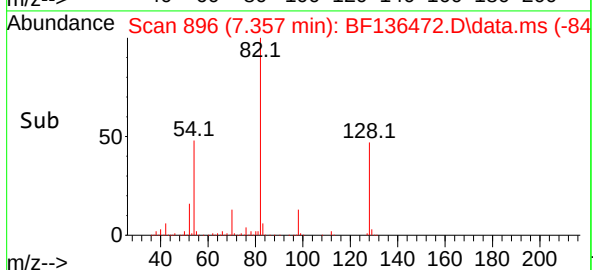
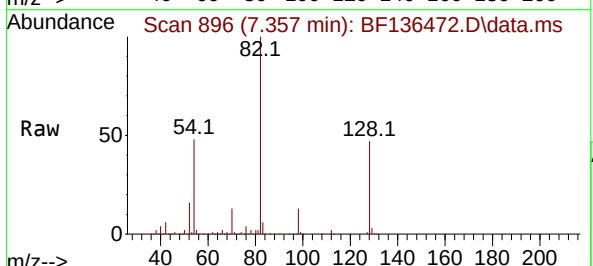
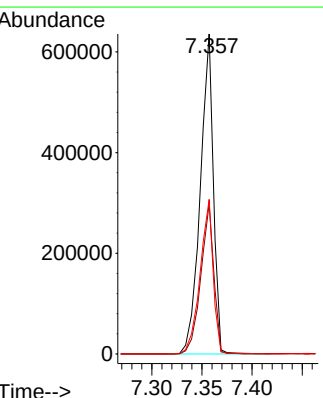
Tgt Ion: 82 Resp: 579550

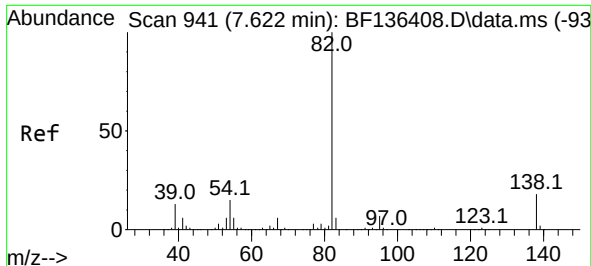
Ion Ratio Lower Upper

82 100

128 47.0 36.3 54.5

54 48.3 39.0 58.6

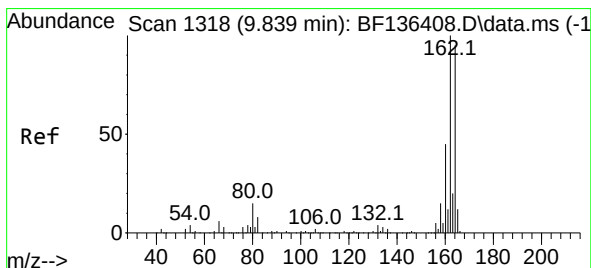
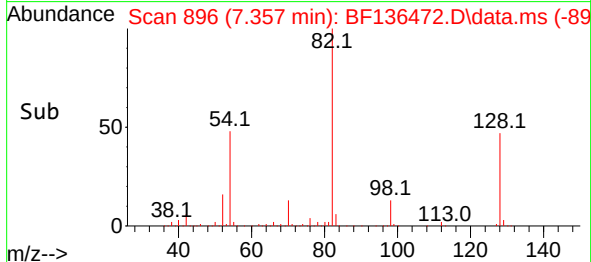
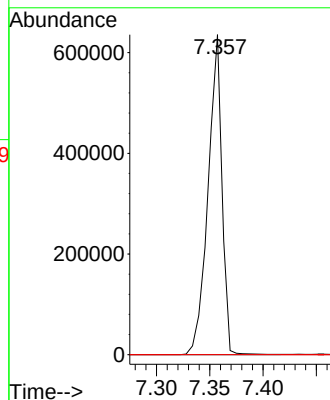
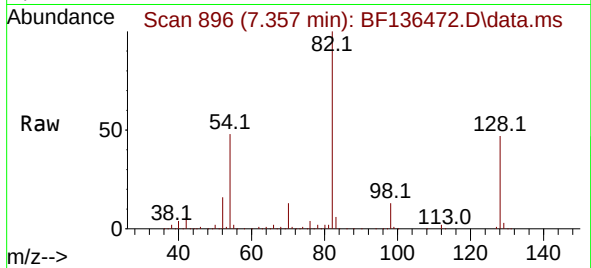




#25
Isophorone
Concen: 29.464 ng
RT: 7.357 min Scan# 896
Delta R.T. -0.265 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

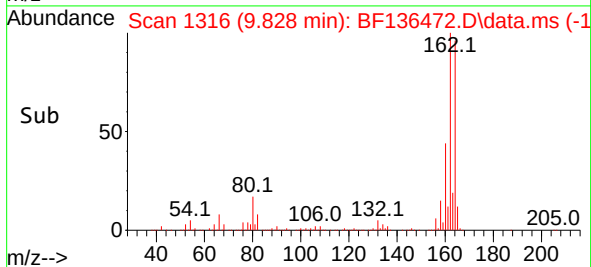
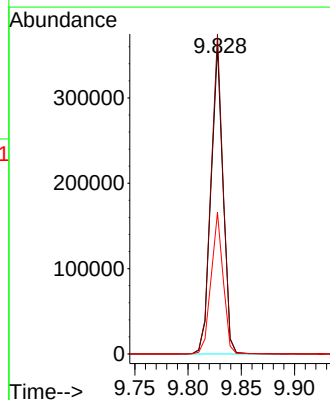
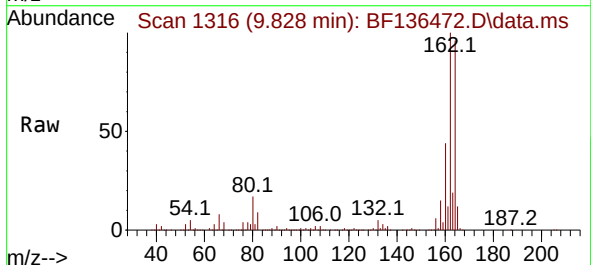
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-2

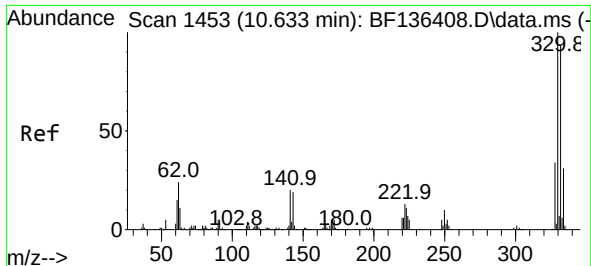
Tgt Ion: 82 Resp: 579538
Ion Ratio Lower Upper
82 100
95 0.0 5.7 8.5#
138 0.0 14.5 21.7#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

Tgt Ion:164 Resp: 284353
Ion Ratio Lower Upper
164 100
162 104.1 84.4 126.6
160 46.1 37.6 56.4





#42

2,4,6-Tribromophenol

Concen: 66.050 ng

RT: 10.622 min Scan# 1451

Delta R.T. -0.012 min

Lab File: BF136472.D

Acq: 08 Dec 2023 17:39

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-LKWD-DENALI-2

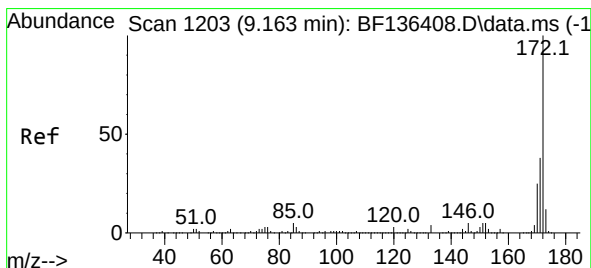
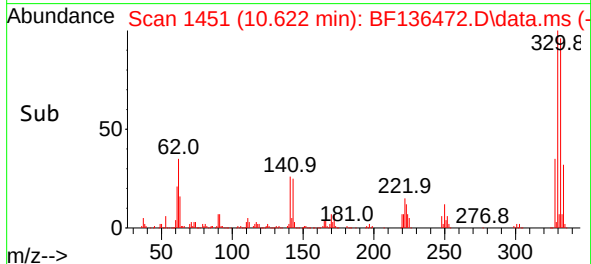
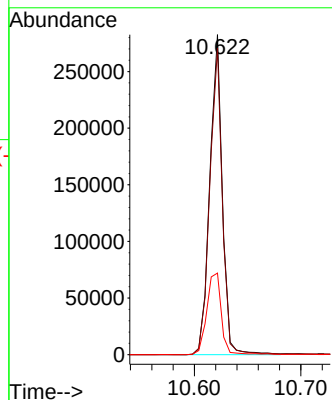
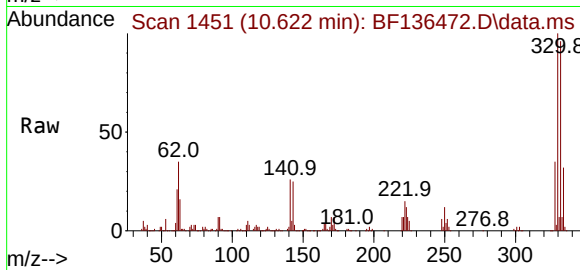
Tgt Ion:330 Resp: 231579

Ion Ratio Lower Upper

330 100

332 96.3 76.4 114.6

141 29.7 23.4 35.2



#45

2-Fluorobiphenyl

Concen: 56.386 ng

RT: 9.151 min Scan# 1201

Delta R.T. -0.012 min

Lab File: BF136472.D

Acq: 08 Dec 2023 17:39

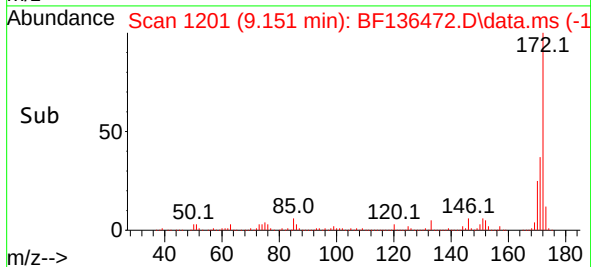
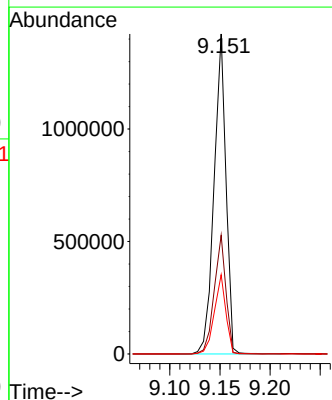
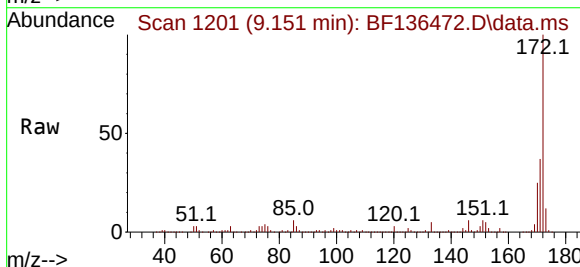
Tgt Ion:172 Resp: 1175055

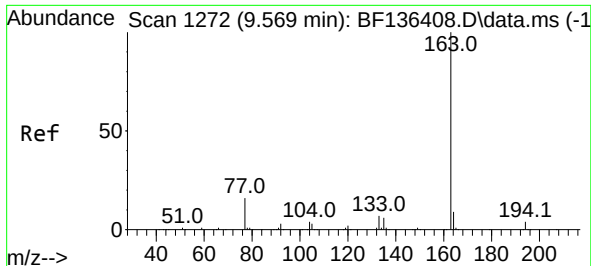
Ion Ratio Lower Upper

172 100

171 37.1 30.5 45.7

170 24.7 19.9 29.9

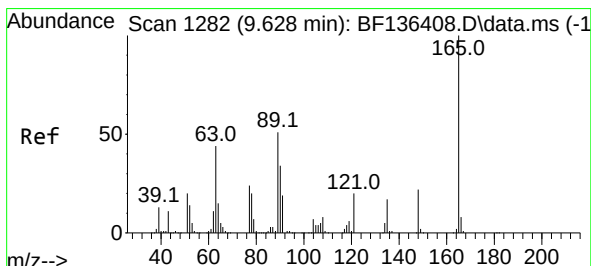
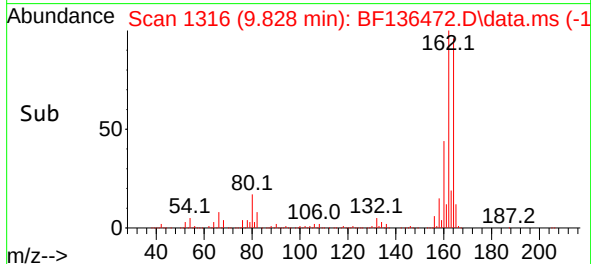
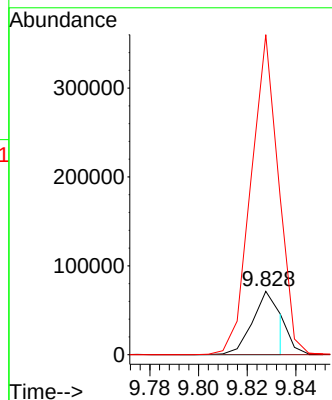
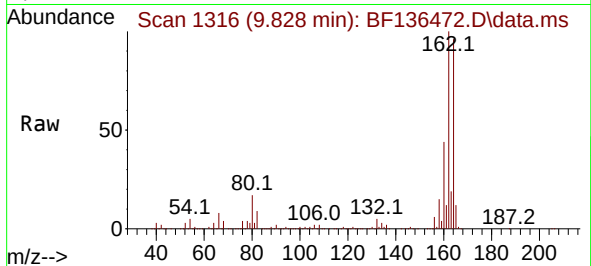




#50
Dimethylphthalate
Concen: 2.693 ng
RT: 9.828 min Scan# 1316
Delta R.T. 0.259 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

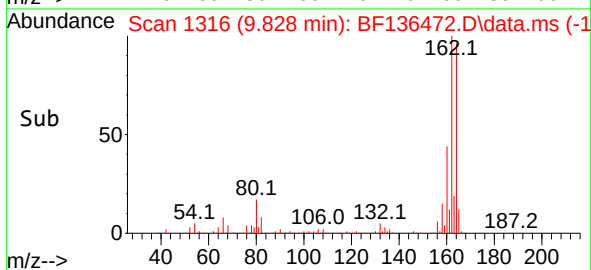
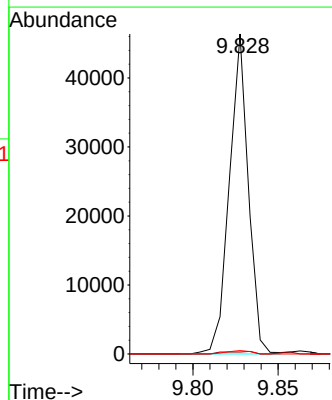
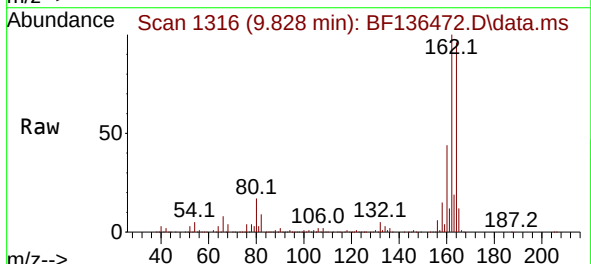
Instrument :
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TOPSOIL-LKWD-DENALI-2

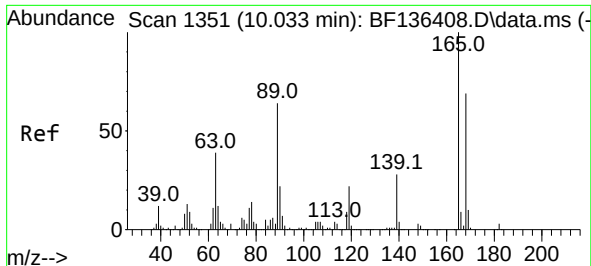
Tgt Ion:163 Resp: 56386
Ion Ratio Lower Upper
163 100
194 0.0 3.0 4.6#
164 504.6 7.4 11.2#



#51
2,6-Dinitrotoluene
Concen: 7.630 ng
RT: 9.828 min Scan# 1316
Delta R.T. 0.200 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

Tgt Ion:165 Resp: 35938
Ion Ratio Lower Upper
165 100
63 0.6 40.4 60.6#
89 1.1 40.6 60.8#

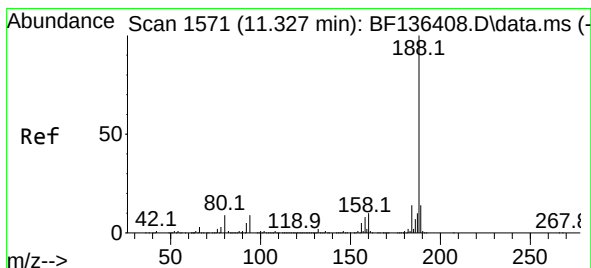
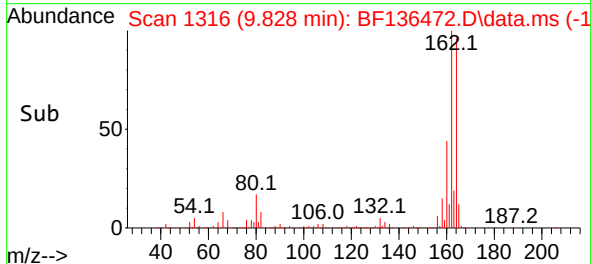
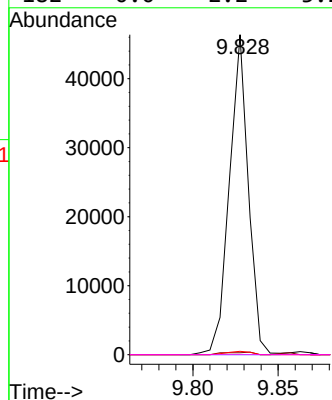
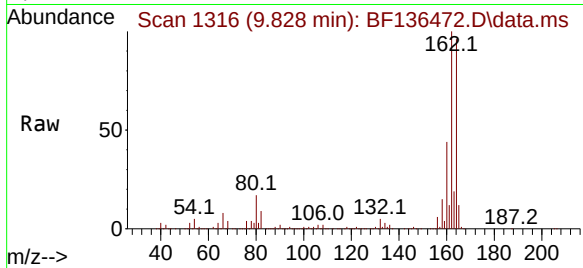




#57
2,4-Dinitrotoluene
Concen: 5.768 ng
RT: 9.828 min Scan# 11
Delta R.T. -0.206 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

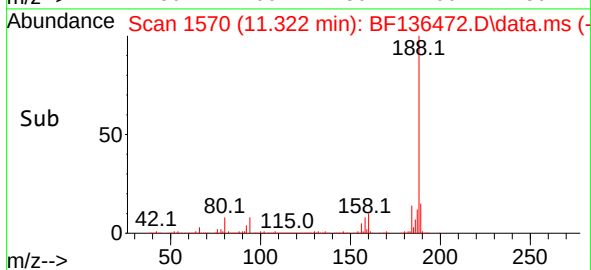
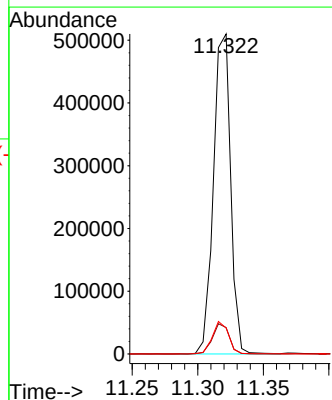
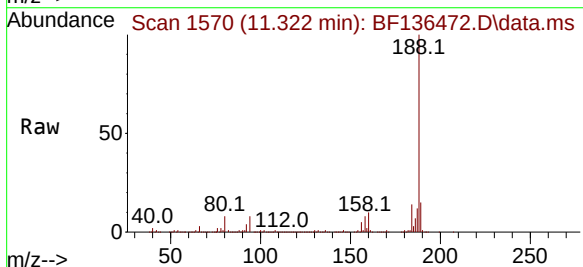
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-2

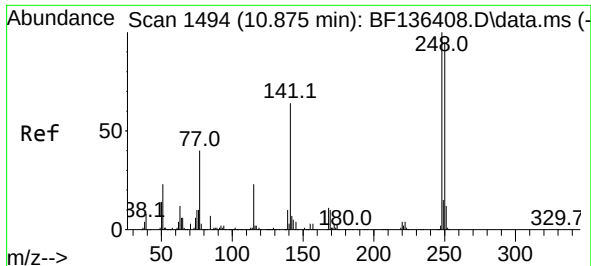
Tgt Ion:165 Resp: 35938
Ion Ratio Lower Upper
165 100
63 0.6 31.4 47.2#
89 1.1 51.7 77.5#
182 0.0 2.2 3.2#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

Tgt Ion:188 Resp: 464918
Ion Ratio Lower Upper
188 100
94 8.3 7.2 10.8
80 8.1 7.2 10.8

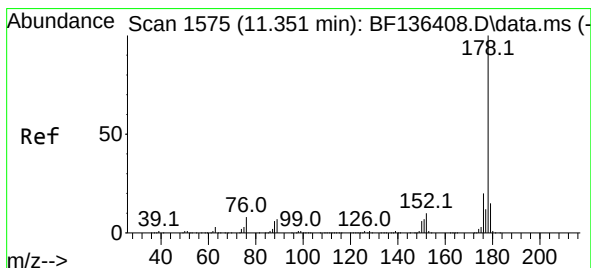
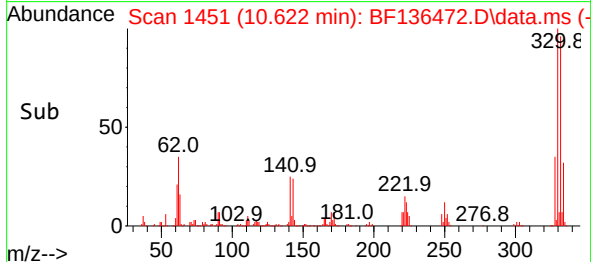
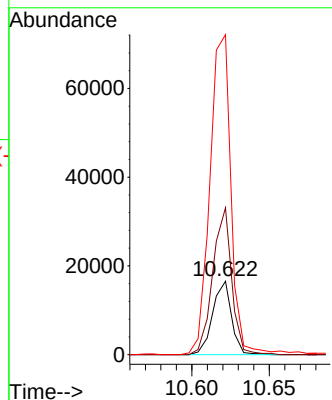
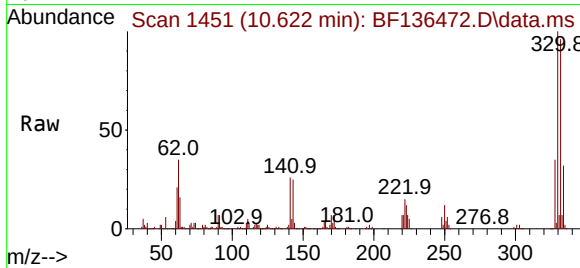




#67
4-Bromophenyl-phenylether
Concen: 2.603 ng
RT: 10.622 min Scan# 1494
Delta R.T. -0.253 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

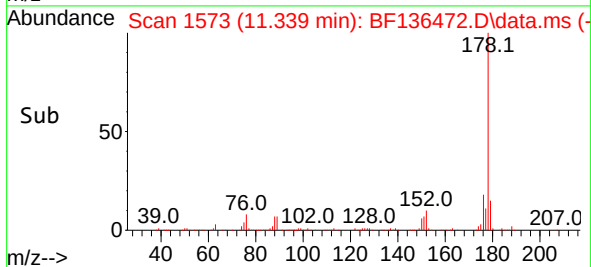
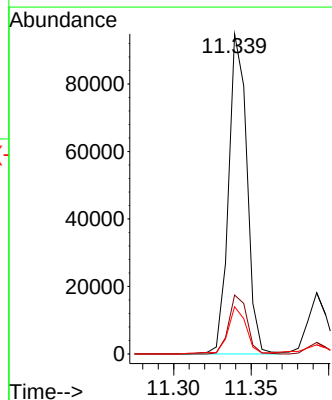
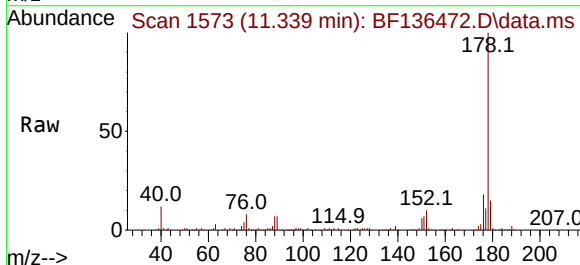
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-2

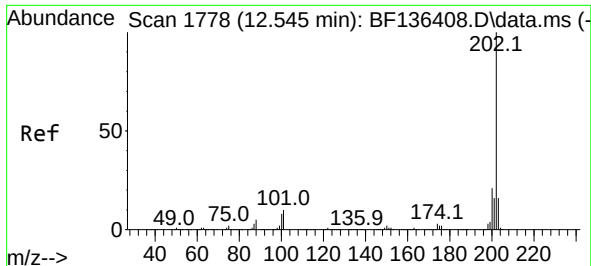
Tgt Ion:248 Resp: 14072
Ion Ratio Lower Upper
248 100
250 200.0 76.2 114.2#
141 435.4 51.0 76.4#



#71
Phenanthrene
Concen: 3.057 ng
RT: 11.339 min Scan# 1573
Delta R.T. -0.012 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

Tgt Ion:178 Resp: 78119
Ion Ratio Lower Upper
178 100
176 18.4 15.9 23.9
179 14.8 11.8 17.6

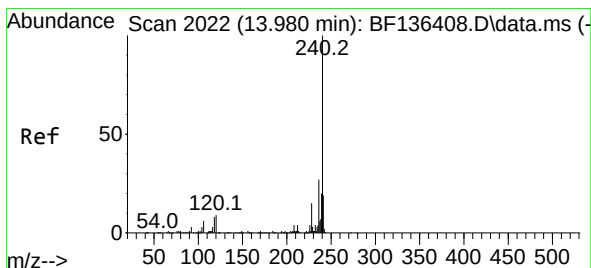
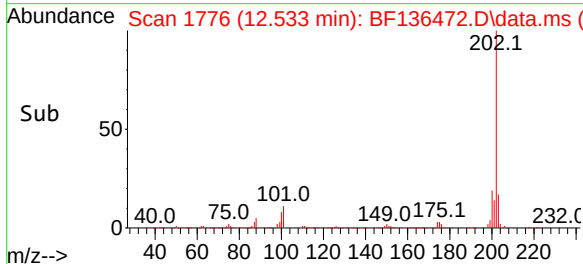
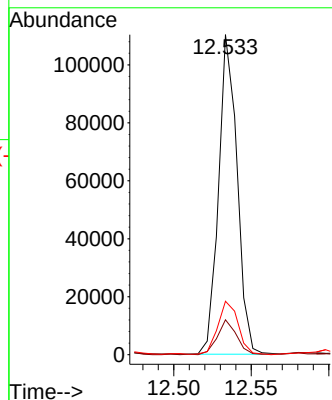
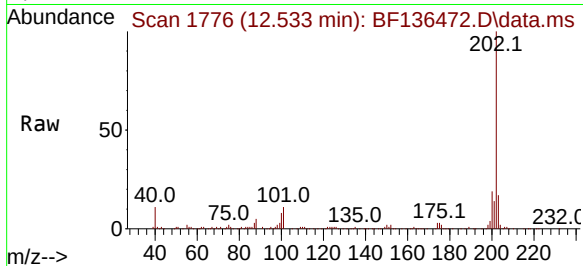




#75
Fluoranthene
Concen: 3.425 ng
RT: 12.533 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

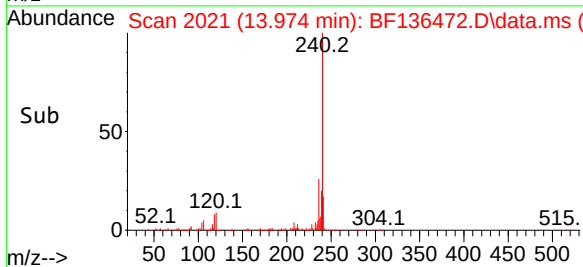
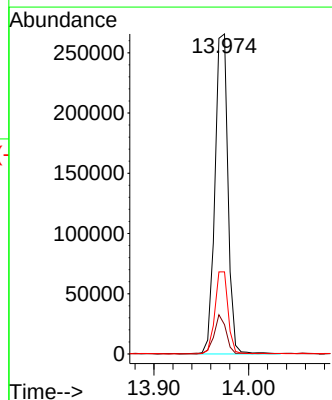
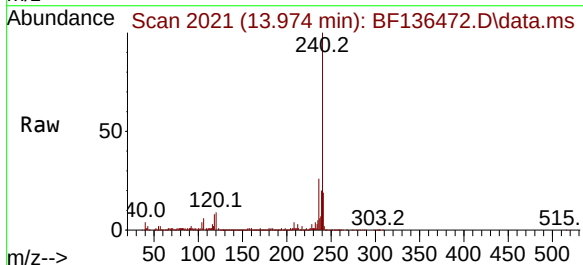
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-2

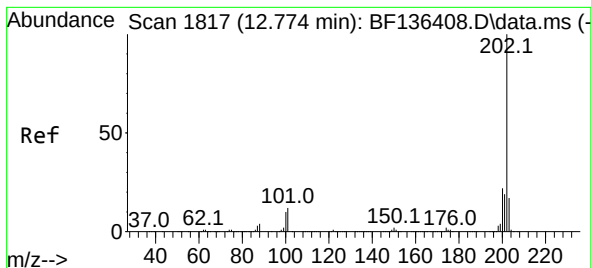
Tgt Ion:202 Resp: 91714
Ion Ratio Lower Upper
202 100
101 10.9 0.0 29.9
203 16.7 0.0 36.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2021
Delta R.T. -0.006 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

Tgt Ion:240 Resp: 252716
Ion Ratio Lower Upper
240 100
120 9.2 7.3 10.9
236 25.7 21.3 31.9





#78

Pyrene

Concen: 3.492 ng

RT: 12.763 min Scan# 1815

Delta R.T. -0.012 min

Lab File: BF136472.D

Acq: 08 Dec 2023 17:39

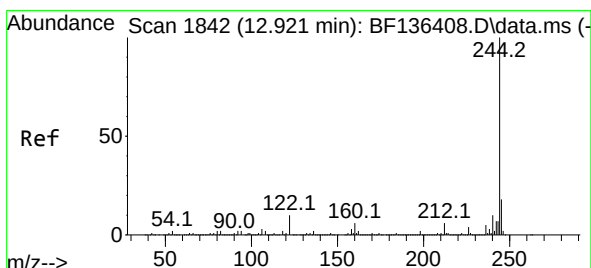
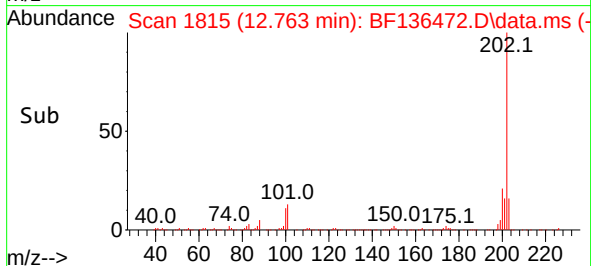
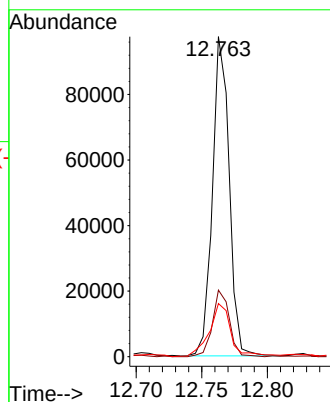
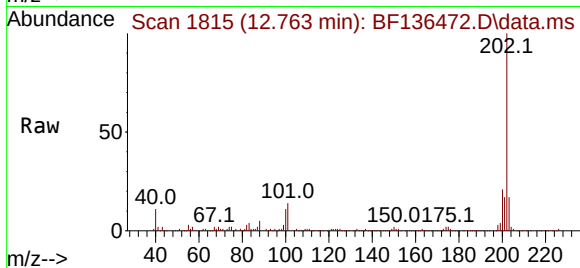
Instrument :

BNA_F

ClientSampleId :

TOPSOIL-LKWD-DENALI-2

Tgt Ion:	202	Resp:	86418
Ion Ratio	Lower	Upper	
202	100		
200	20.8	18.0	27.0
203	16.6	13.5	20.3



#79

Terphenyl-d14

Concen: 50.320 ng

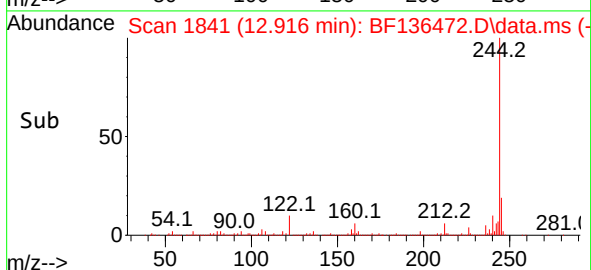
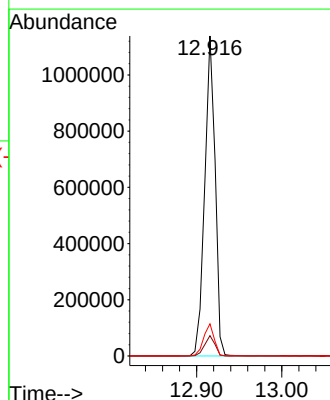
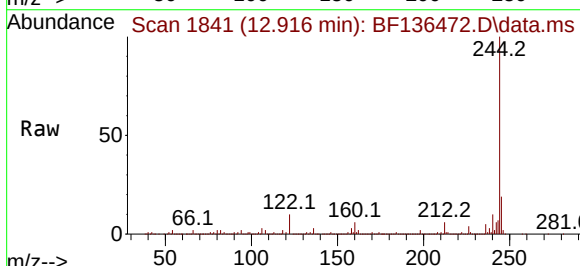
RT: 12.916 min Scan# 1841

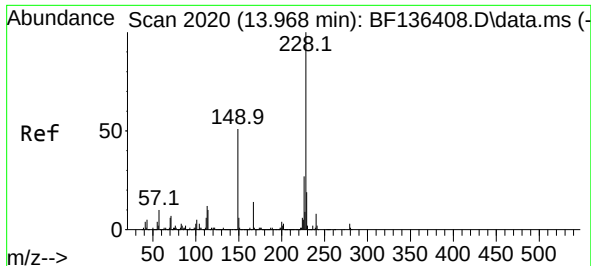
Delta R.T. -0.006 min

Lab File: BF136472.D

Acq: 08 Dec 2023 17:39

Tgt Ion:	244	Resp:	964817
Ion Ratio	Lower	Upper	
244	100		
212	6.3	5.0	7.4
122	10.1	8.3	12.5

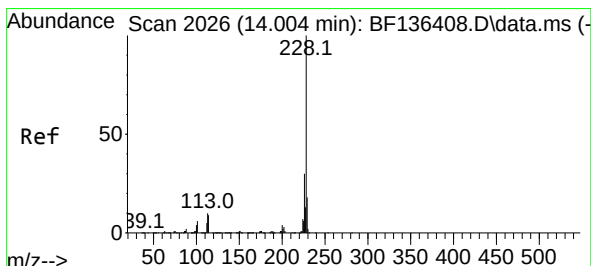
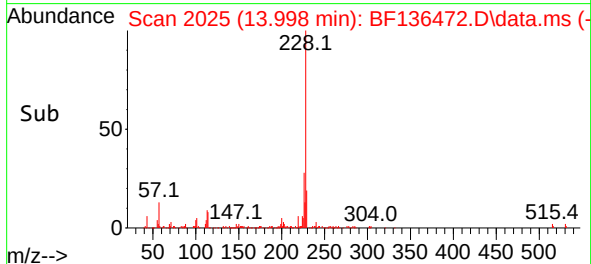
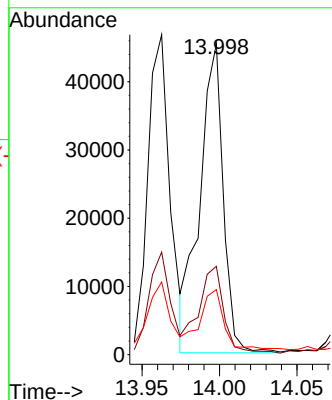
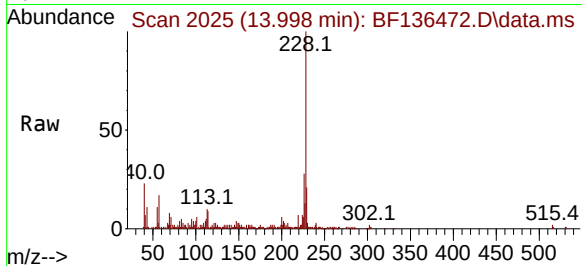




#81
Benzo(a)anthracene
Concen: 2.723 ng
RT: 13.998 min Scan# 2025
Delta R.T. 0.029 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

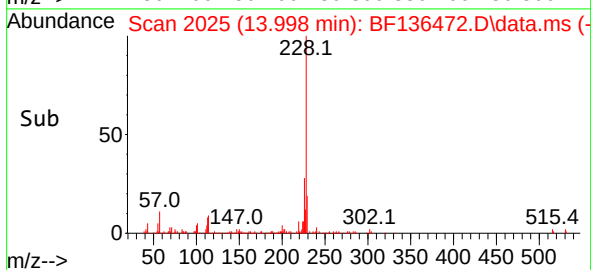
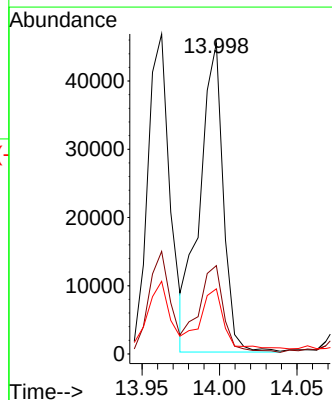
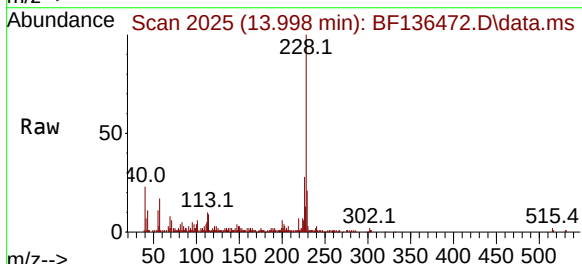
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-2

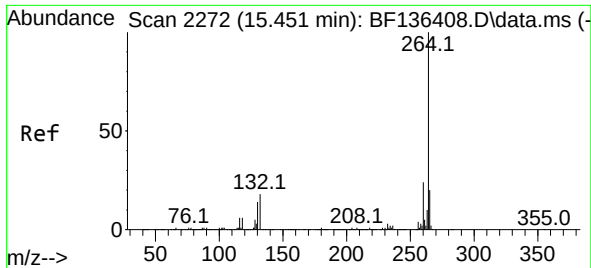
Tgt Ion:228 Resp: 47926
Ion Ratio Lower Upper
228 100
226 28.4 21.8 32.8
229 20.9 15.0 22.4



#83
Chrysene
Concen: 2.767 ng
RT: 13.998 min Scan# 2025
Delta R.T. -0.006 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

Tgt Ion:228 Resp: 47926
Ion Ratio Lower Upper
228 100
226 28.4 23.8 35.6
229 20.9 14.8 22.2

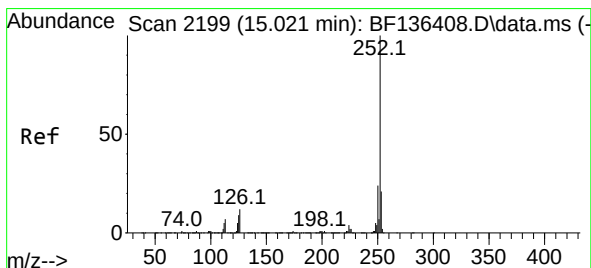
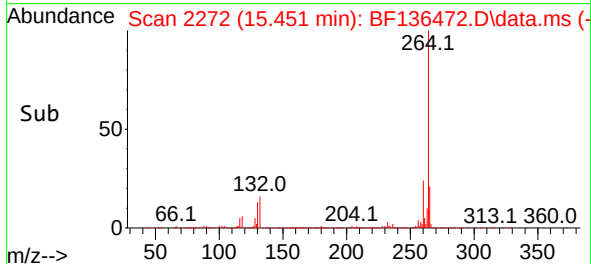
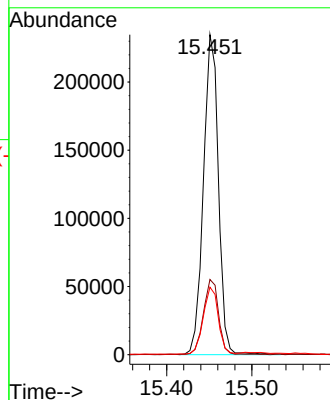
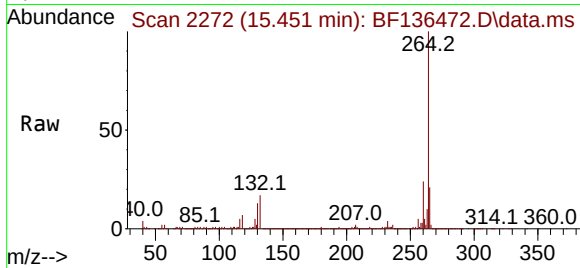




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 2198
Delta R.T. 0.000 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

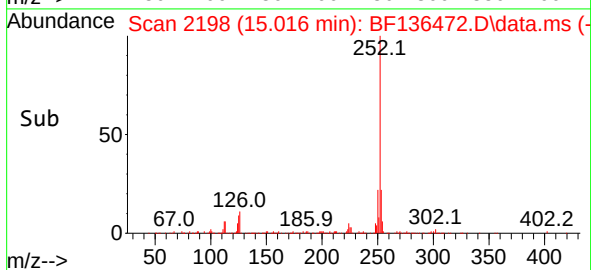
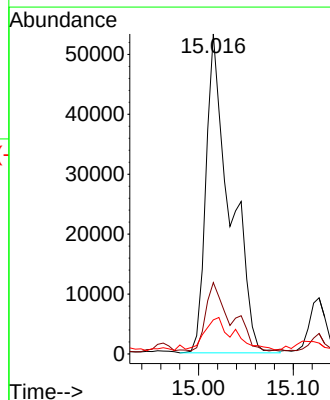
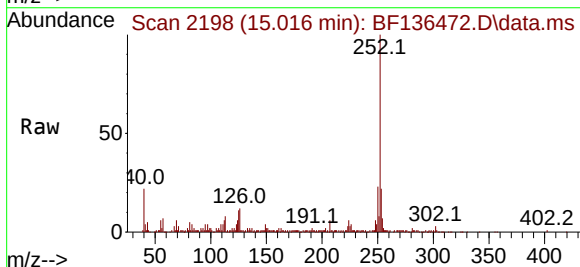
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-LKWD-DENALI-2

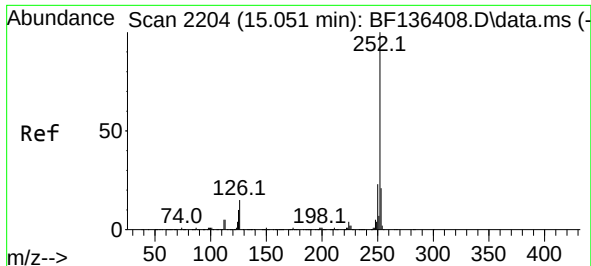
Tgt Ion:264 Resp: 286858
Ion Ratio Lower Upper
264 100
260 23.5 19.2 28.8
265 21.1 15.9 23.9



#88
Benzo(b)fluoranthene
Concen: 4.789 ng
RT: 15.016 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF136472.D
Acq: 08 Dec 2023 17:39

Tgt Ion:252 Resp: 93932
Ion Ratio Lower Upper
252 100
253 22.3 16.9 25.3
125 10.7 7.4 11.2





#89

Benzo(k)fluoranthene

Concen: 5.082 ng

RT: 15.016 min Scan# 21

Delta R.T. -0.035 min

Lab File: BF136472.D

Acq: 08 Dec 2023 17:39

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-LKWD-DENALI-2

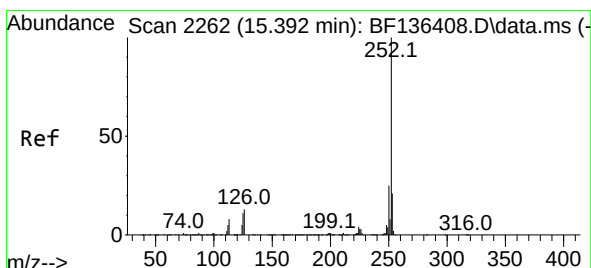
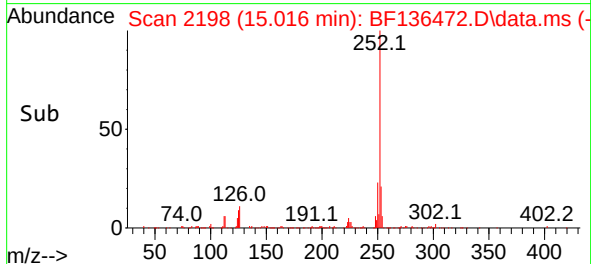
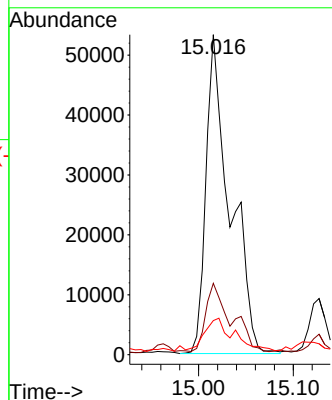
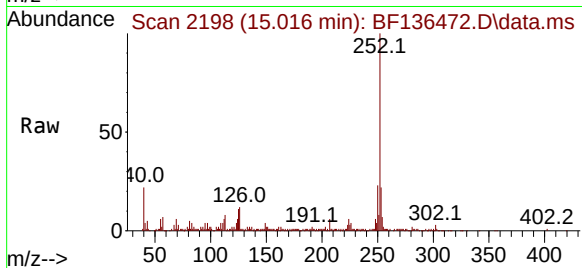
Tgt Ion:252 Resp: 93932

Ion Ratio Lower Upper

252 100

253 22.3 16.9 25.3

125 10.7 7.5 11.3



#90

Benzo(a)pyrene

Concen: 2.959 ng

RT: 15.386 min Scan# 2261

Delta R.T. -0.006 min

Lab File: BF136472.D

Acq: 08 Dec 2023 17:39

Tgt Ion:252 Resp: 47928

Ion Ratio Lower Upper

252 100

253 23.5 17.0 25.4

125 13.8 8.6 13.0#

