

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081424\
 Data File : BF138999.D
 Acq On : 14 Aug 2024 17:43
 Operator : RC/JU
 Sample : P3548-12
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 IN-SITU-SOIL

Quant Time: Aug 14 18:12:49 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 30 17:50:01 2024
 Response via : Initial Calibration

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

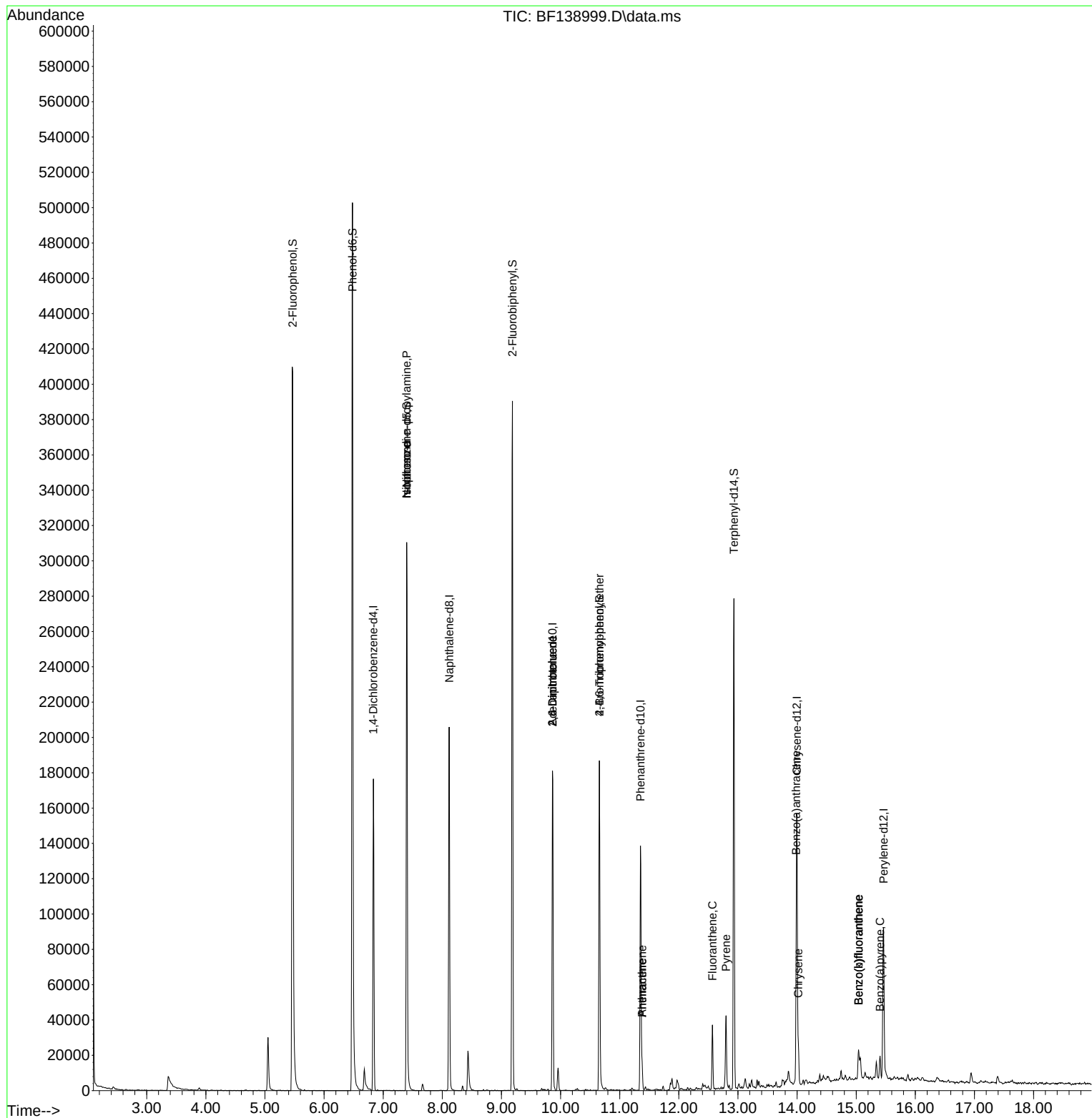
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.833	152	31862	20.000	ng	-0.01
21) Naphthalene-d8	8.116	136	120375	20.000	ng	-0.01
39) Acenaphthene-d10	9.863	164	53545	20.000	ng	-0.02
64) Phenanthrene-d10	11.351	188	71083	20.000	ng	-0.02
76) Chrysene-d12	13.998	240	64025	20.000	ng	# 0.00
86) Perylene-d12	15.462	264	48441	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	150732	73.027	ng	0.00
7) Phenol-d6	6.481	99	217877	78.621	ng	0.00
23) Nitrobenzene-d5	7.398	82	129506	52.600	ng	-0.01
42) 2,4,6-Tribromophenol	10.657	330	26087	59.477	ng	-0.01
45) 2-Fluorobiphenyl	9.186	172	158886	44.584	ng	-0.02
79) Terphenyl-d14	12.933	244	126076	32.969	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.398	70	18543	11.079	ng	# 81
25) Isophorone	7.398	82	129505	30.804	ng	# 66
51) 2,6-Dinitrotoluene	9.863	165	7056	9.132	ng	# 19
57) 2,4-Dinitrotoluene	9.863	165	7056	7.158	ng	# 16
67) 4-Bromophenyl-phenylether	10.657	248	2048	2.661	ng	# 1
71) Phenanthrene	11.380	178	9289	2.538	ng	98
72) Anthracene	11.380	178	9289	2.576	ng	98
75) Fluoranthene	12.568	202	20873	6.109	ng	97
78) Pyrene	12.798	202	24264	4.025	ng	97
81) Benzo(a)anthracene	13.986	228	14456	3.279	ng	# 95
83) Chrysene	14.021	228	12329	3.100	ng	# 89
88) Benzo(b)fluoranthene	15.039	252	14673	4.886	ng	# 92
89) Benzo(k)fluoranthene	15.039	252	14673	5.644	ng	# 92
90) Benzo(a)pyrene	15.404	252	8108	3.210	ng	96

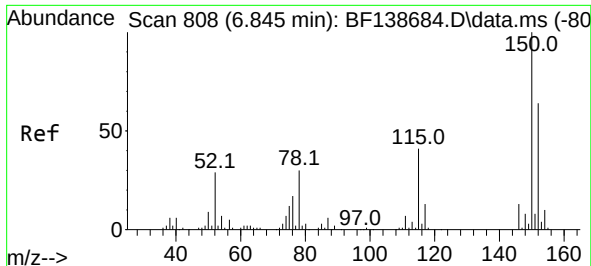
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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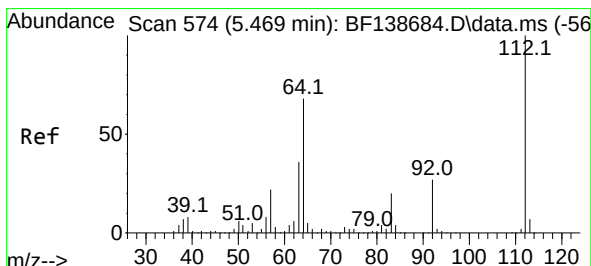
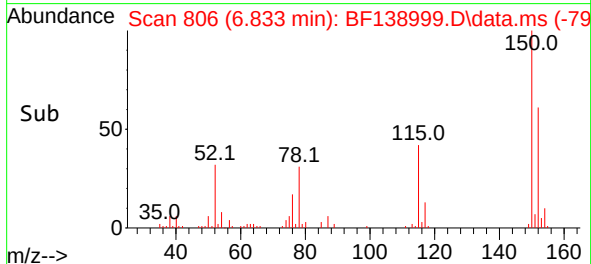
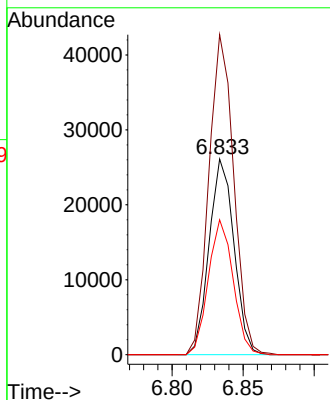
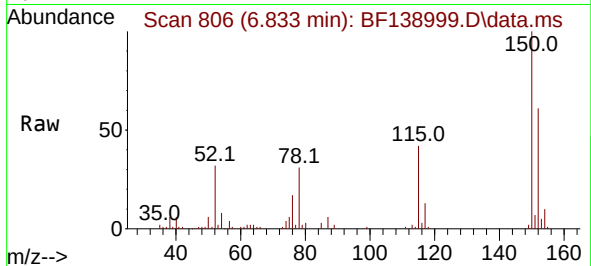




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.833 min Scan# 80
Delta R.T. -0.012 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

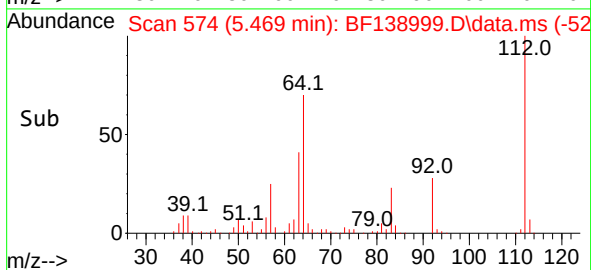
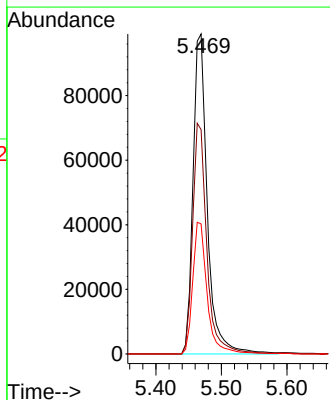
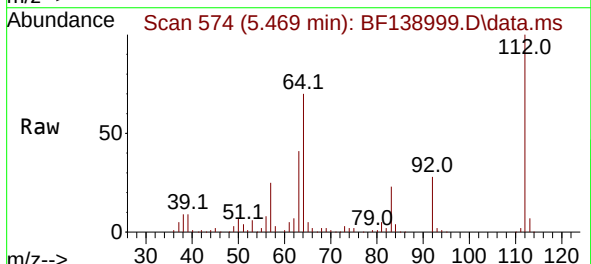
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BNA_F
ClientSampleId :
IN-SITU-SOIL

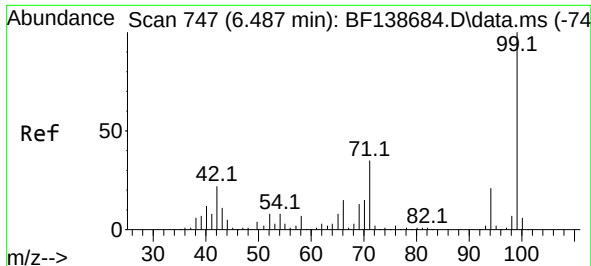
Tgt Ion:152 Resp: 31862
Ion Ratio Lower Upper
152 100
150 163.5 126.0 189.0
115 68.9 51.7 77.5



#5
2-Fluorophenol
Concen: 73.027 ng
RT: 5.469 min Scan# 574
Delta R.T. -0.000 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

Tgt Ion:112 Resp: 150732
Ion Ratio Lower Upper
112 100
64 70.1 54.2 81.4
63 40.7 28.7 43.1

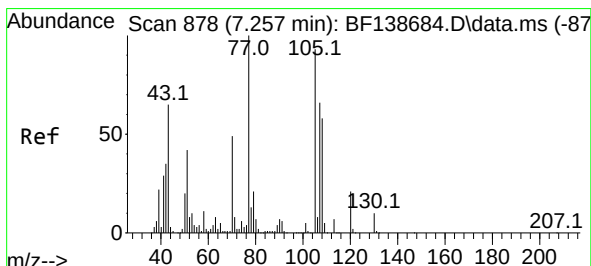
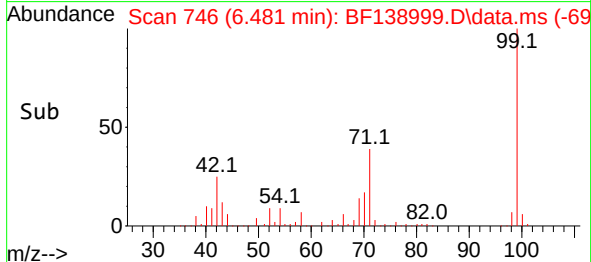
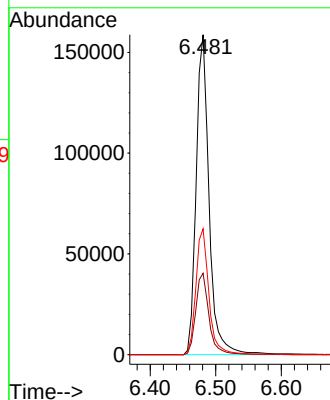
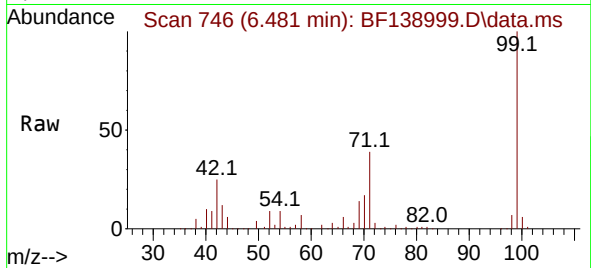




#7
Phenol-d6
Concen: 78.621 ng
RT: 6.481 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

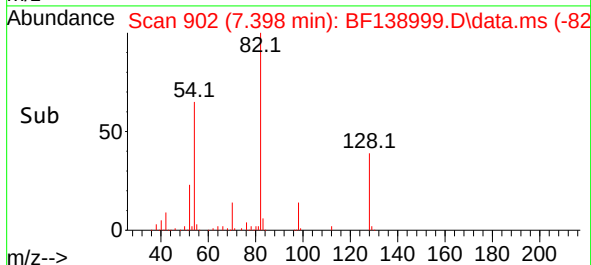
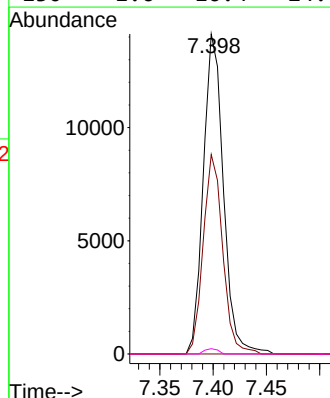
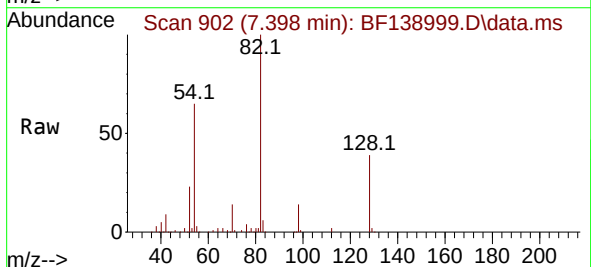
Instrument :
BNA_F
ClientSampleId :
IN-SITU-SOIL

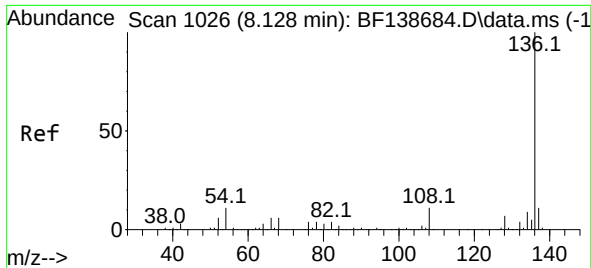
Tgt Ion: 99 Resp: 217877
Ion Ratio Lower Upper
99 100
42 25.4 17.4 26.0
71 39.4 28.1 42.1



#19
n-Nitroso-di-n-propylamine
Concen: 11.079 ng
RT: 7.398 min Scan# 902
Delta R.T. 0.141 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

Tgt Ion: 70 Resp: 18543
Ion Ratio Lower Upper
70 100
42 62.3 57.4 86.0
101 0.0 7.5 11.3#
130 1.6 16.4 24.6#





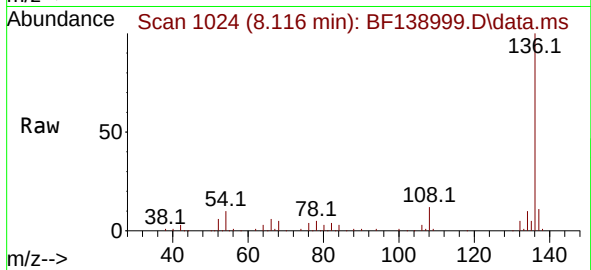
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

Instrument :

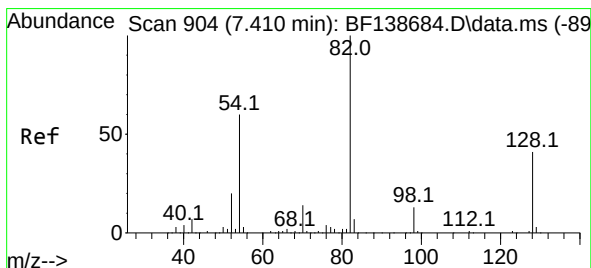
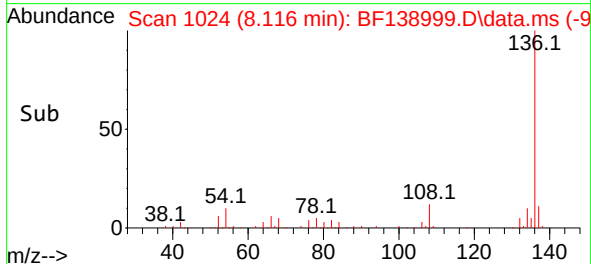
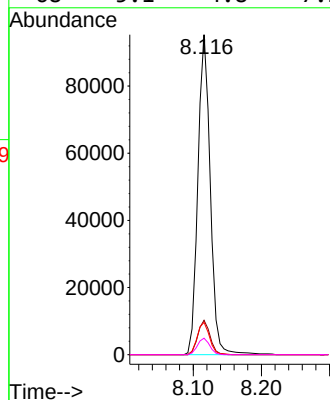
BNA_F

ClientSampleId :

IN-SITU-SOIL

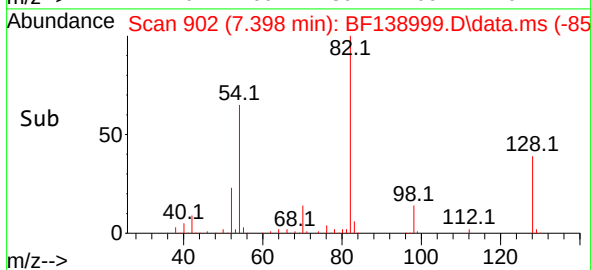
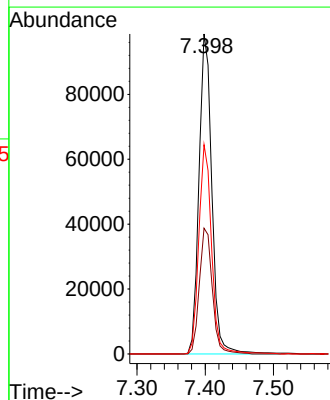
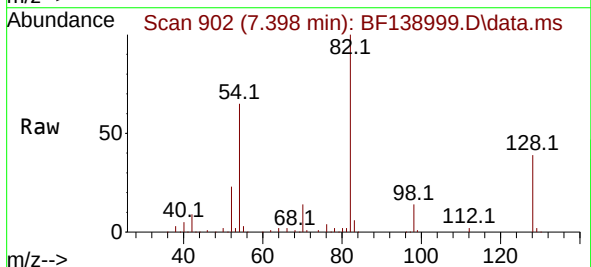


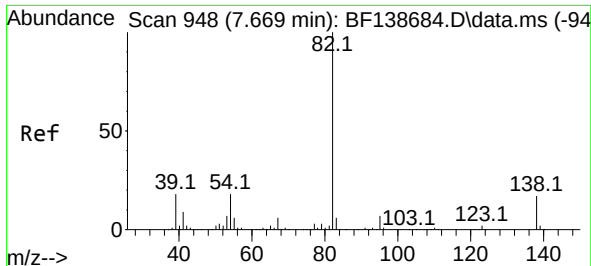
Tgt Ion:136 Resp: 120375
Ion Ratio Lower Upper
136 100
137 10.8 8.9 13.3
54 10.1 8.6 12.8
68 5.1 4.8 7.2



#23
Nitrobenzene-d5
Concen: 52.600 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.012 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

Tgt Ion: 82 Resp: 129506
Ion Ratio Lower Upper
82 100
128 39.3 32.8 49.2
54 65.4 48.3 72.5

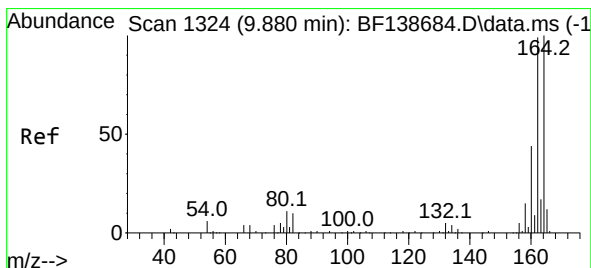
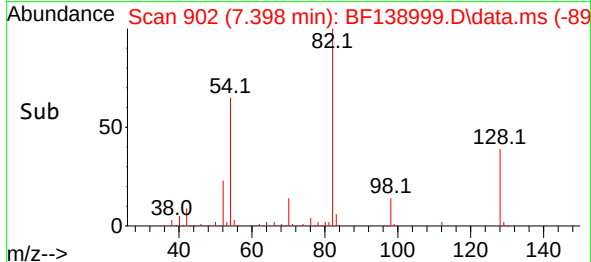
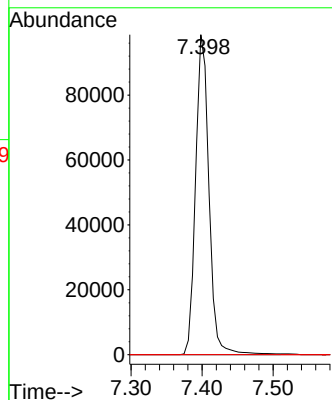
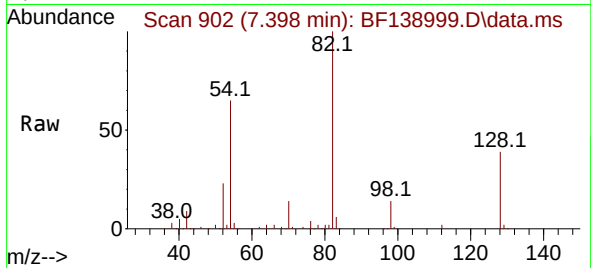




#25
Isophorone
Concen: 30.804 ng
RT: 7.398 min Scan# 90
Delta R.T. -0.271 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

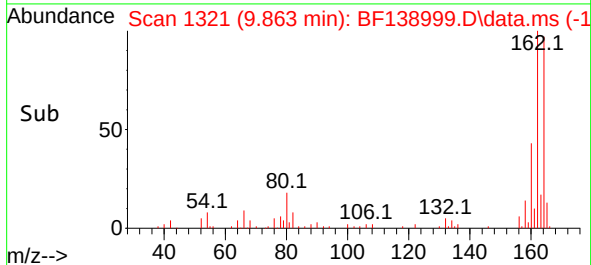
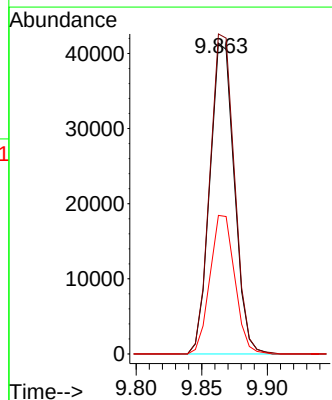
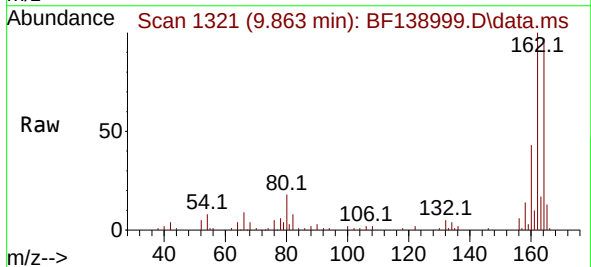
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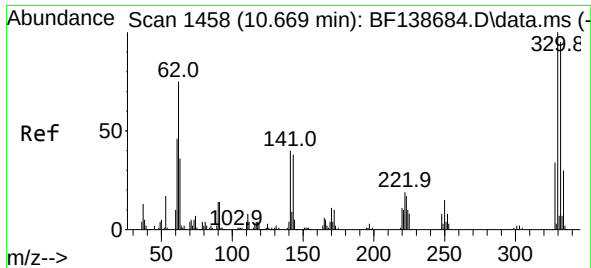
Tgt Ion: 82 Resp: 129505
Ion Ratio Lower Upper
82 100
95 0.0 5.7 8.5#
138 0.0 13.7 20.5#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.017 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

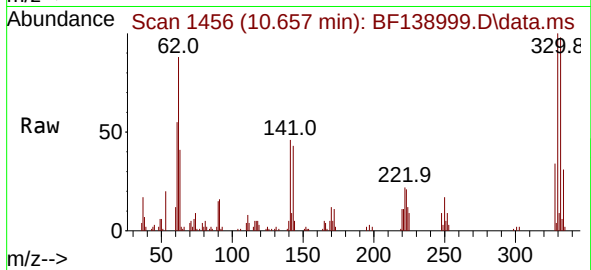
Tgt Ion:164 Resp: 53545
Ion Ratio Lower Upper
164 100
162 102.9 79.4 119.0
160 44.6 35.1 52.7



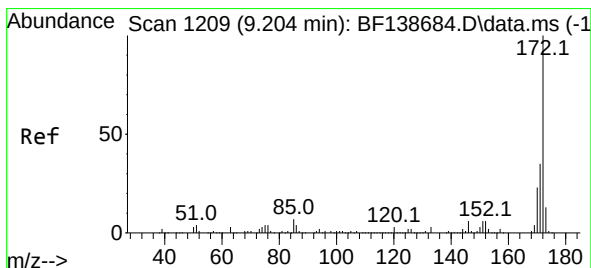
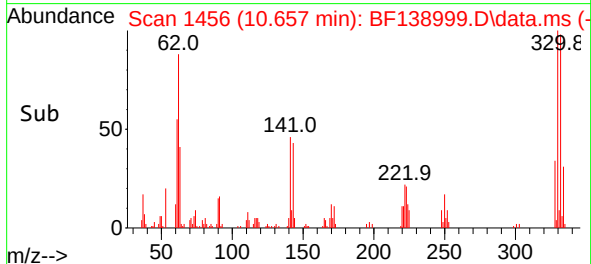
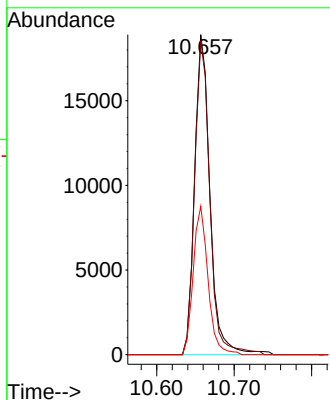


#42
2,4,6-Tribromophenol
Concen: 59.477 ng
RT: 10.657 min Scan# 1458
Delta R.T. -0.012 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

Instrument :
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ClientSampleId :
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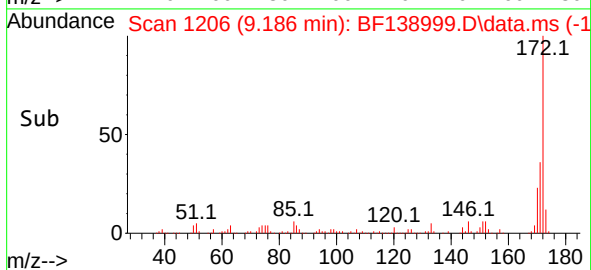
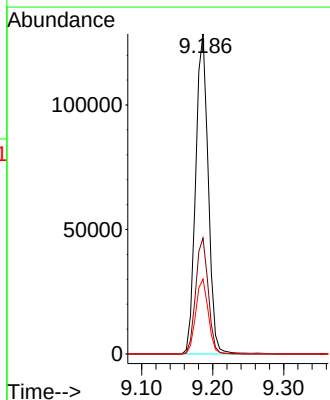
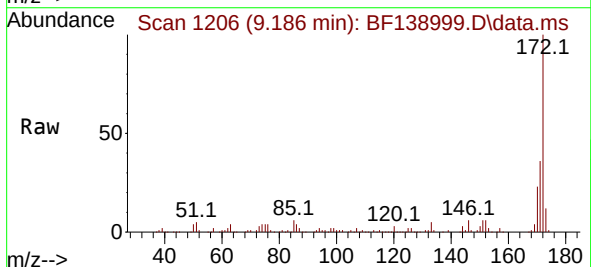


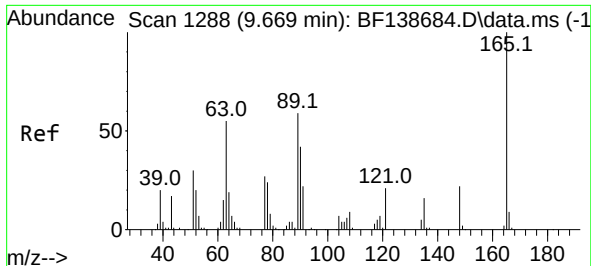
Tgt Ion: 330 Resp: 26087
Ion Ratio Lower Upper
330 100
332 96.9 76.4 114.6
141 44.5 31.1 46.7



#45
2-Fluorobiphenyl
Concen: 44.584 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.018 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

Tgt Ion: 172 Resp: 158886
Ion Ratio Lower Upper
172 100
171 36.3 28.3 42.5
170 23.4 18.8 28.2

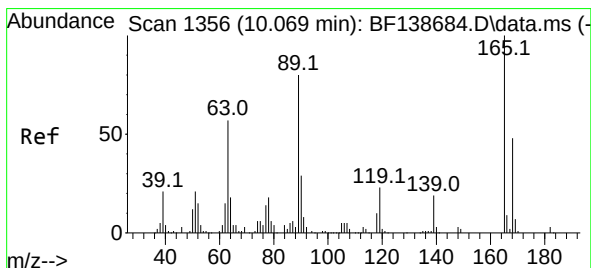
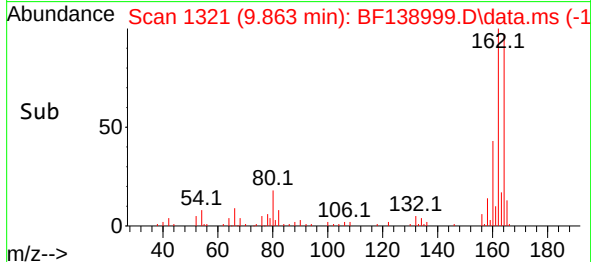
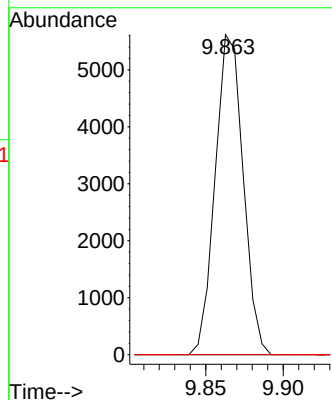
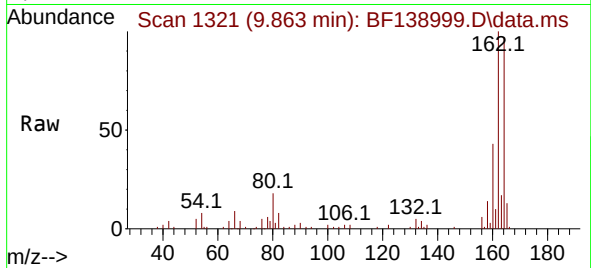




#51
2,6-Dinitrotoluene
Concen: 9.132 ng
RT: 9.863 min Scan# 11
Delta R.T. 0.194 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

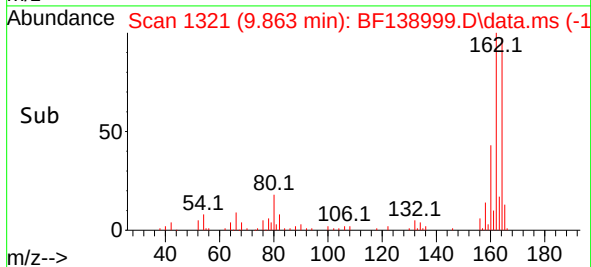
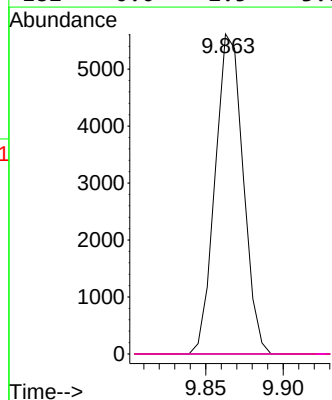
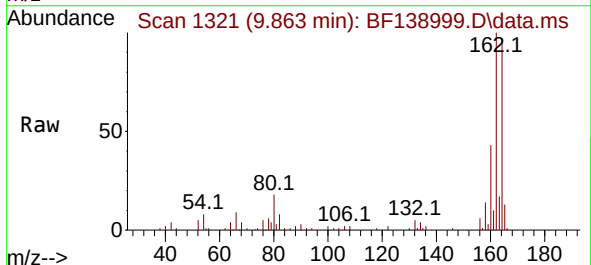
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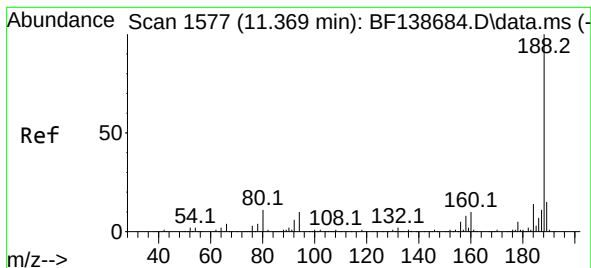
Tgt Ion:165 Resp: 7056
Ion Ratio Lower Upper
165 100
63 0.0 52.0 78.0#
89 0.0 47.0 70.6#



#57
2,4-Dinitrotoluene
Concen: 7.158 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.206 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

Tgt Ion:165 Resp: 7056
Ion Ratio Lower Upper
165 100
63 0.0 46.3 69.5#
89 0.0 64.2 96.4#
182 0.0 2.5 3.7#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.351 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF138999.D

Acq: 14 Aug 2024 17:43

Instrument :

BNA_F

ClientSampleId :

IN-SITU-SOIL

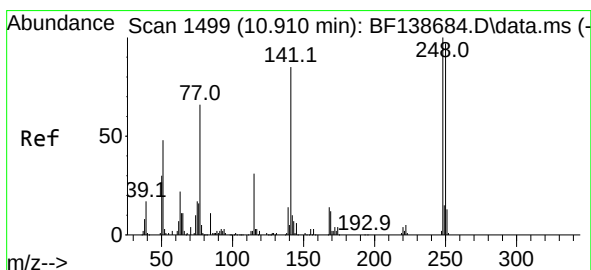
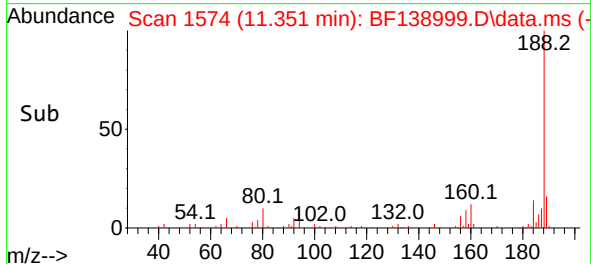
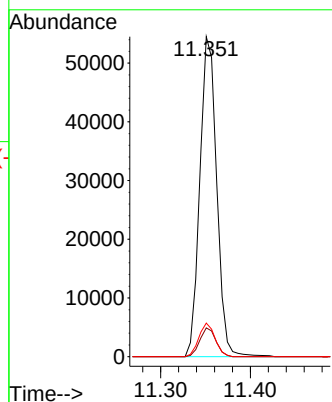
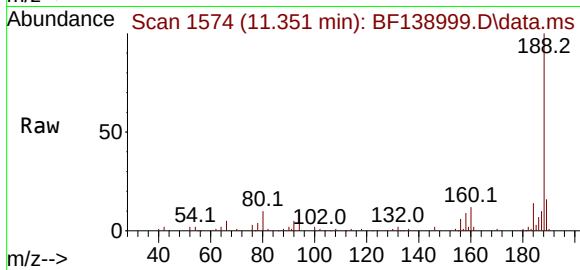
Tgt Ion:188 Resp: 71083

Ion Ratio Lower Upper

188 100

94 9.0 7.6 11.4

80 10.5 8.6 12.8



#67

4-Bromophenyl-phenylether

Concen: 2.661 ng

RT: 10.657 min Scan# 1456

Delta R.T. -0.253 min

Lab File: BF138999.D

Acq: 14 Aug 2024 17:43

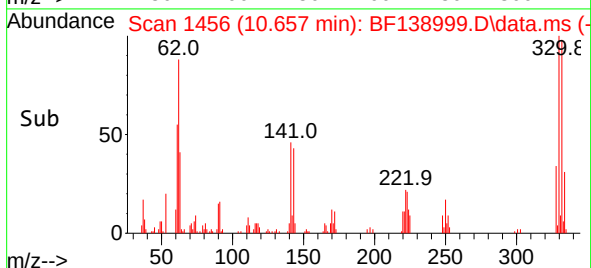
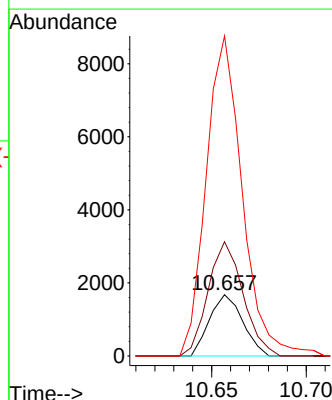
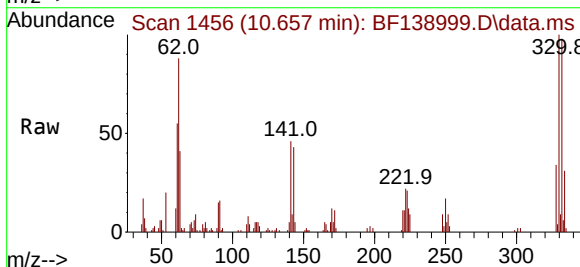
Tgt Ion:248 Resp: 2048

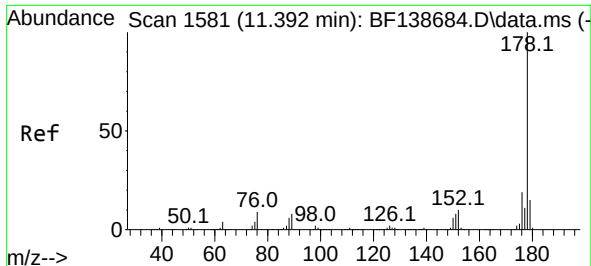
Ion Ratio Lower Upper

248 100

250 186.4 77.7 116.5#

141 521.9 68.0 102.0#

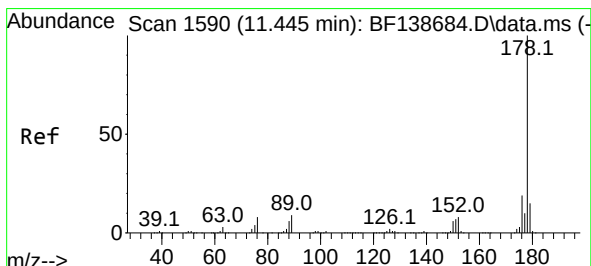
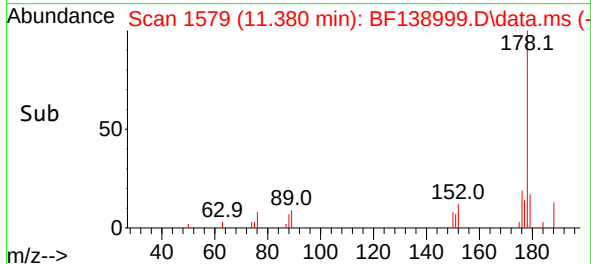
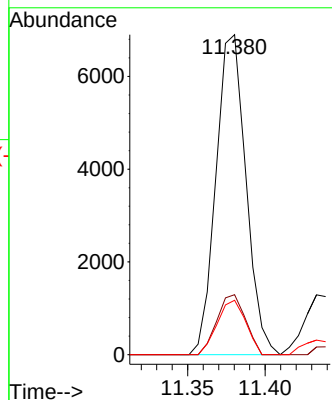
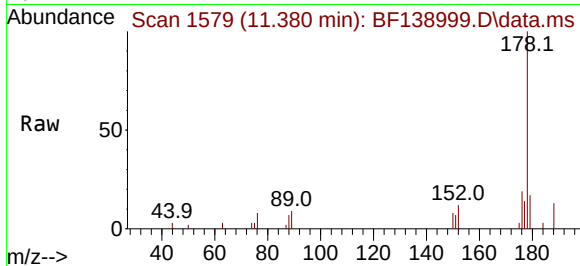




#71
Phenanthrene
Concen: 2.538 ng
RT: 11.380 min Scan# 1579
Delta R.T. -0.012 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

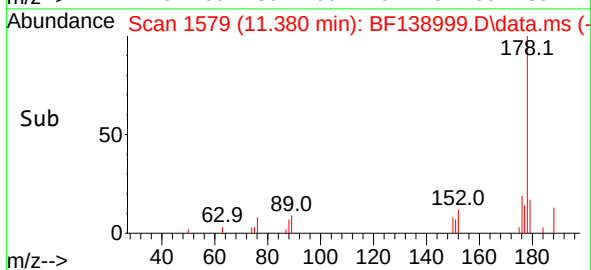
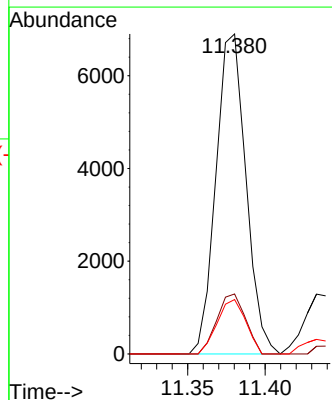
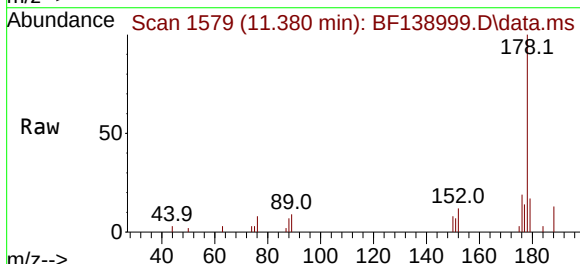
Instrument :
BNA_F
ClientSampleId :
IN-SITU-SOIL

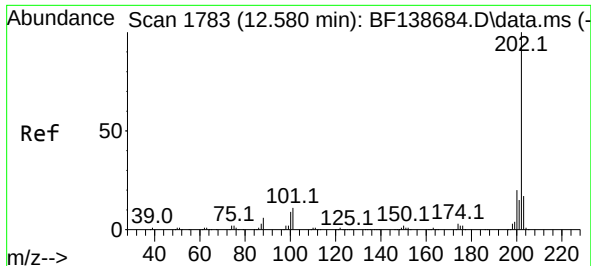
Tgt Ion:178 Resp: 9289
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.0
179 17.0 12.2 18.2



#72
Anthracene
Concen: 2.576 ng
RT: 11.380 min Scan# 1579
Delta R.T. -0.065 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

Tgt Ion:178 Resp: 9289
Ion Ratio Lower Upper
178 100
176 18.8 14.9 22.3
179 17.0 12.4 18.6

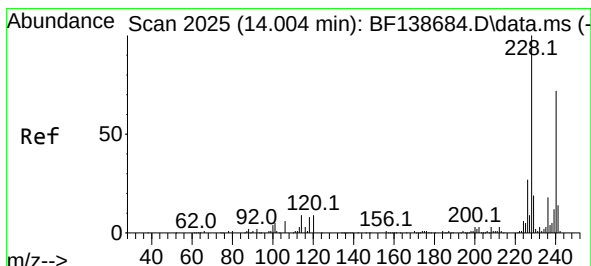
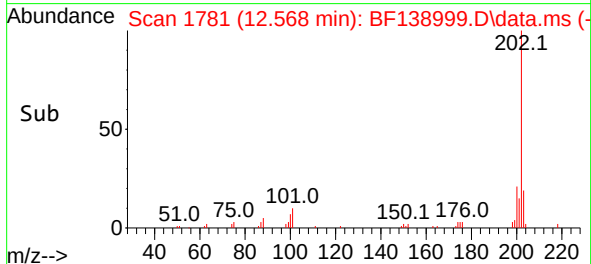
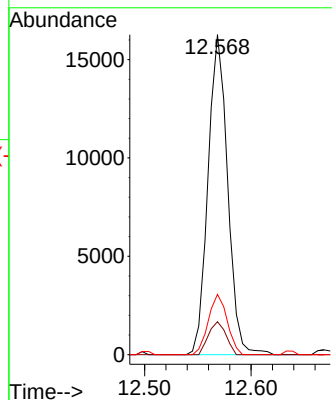
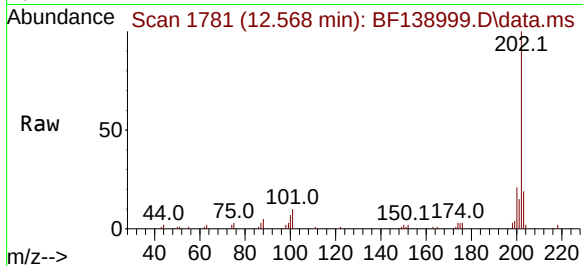




#75
Fluoranthene
Concen: 6.109 ng
RT: 12.568 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

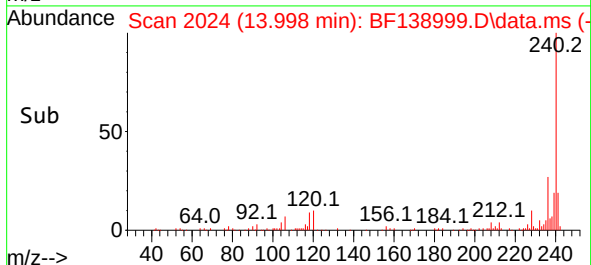
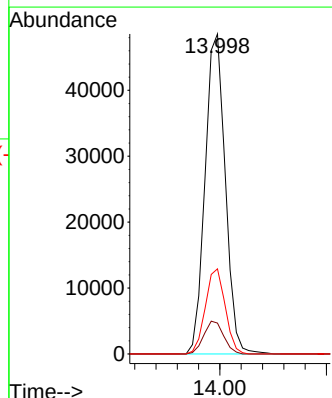
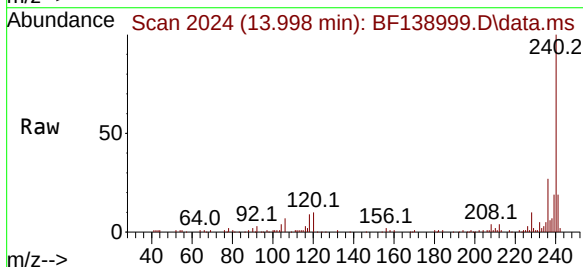
Instrument :
BNA_F
ClientSampleId :
IN-SITU-SOIL

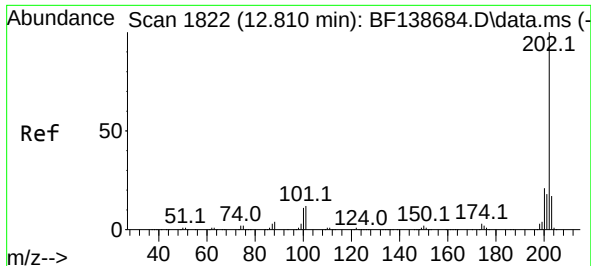
Tgt Ion:202 Resp: 20873
Ion Ratio Lower Upper
202 100
101 10.3 0.0 31.2
203 18.8 0.0 37.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

Tgt Ion:240 Resp: 64025
Ion Ratio Lower Upper
240 100
120 9.6 10.2 15.4#
236 26.6 19.8 29.8

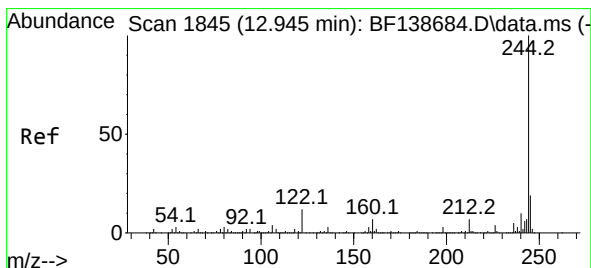
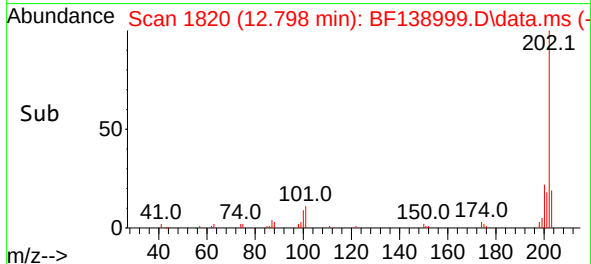
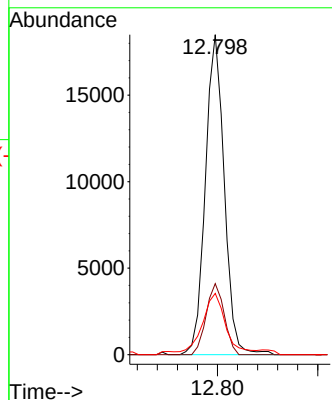
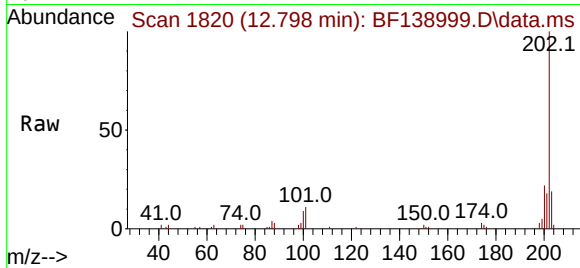




#78
 Pyrene
 Concen: 4.025 ng
 RT: 12.798 min Scan# 1820
 Delta R.T. -0.012 min
 Lab File: BF138999.D
 Acq: 14 Aug 2024 17:43

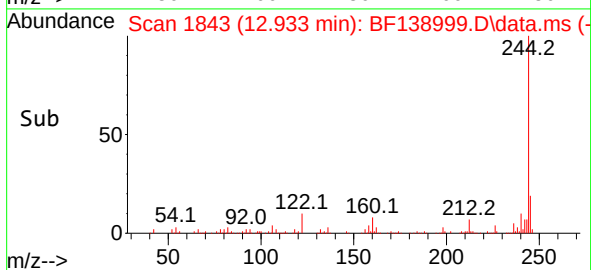
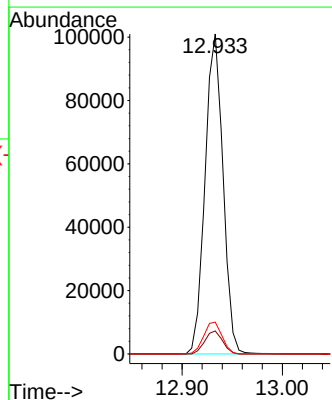
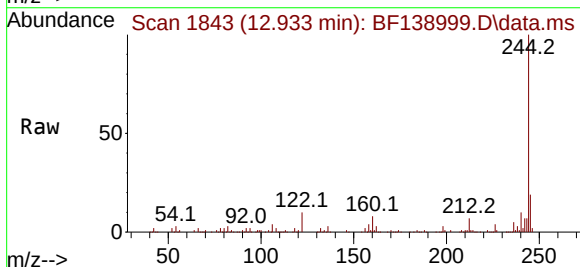
Instrument :
 BNA_F
 ClientSampleId :
 IN-SITU-SOIL

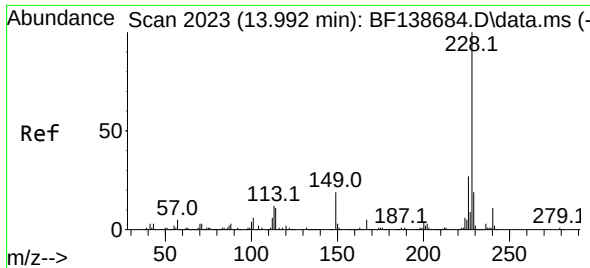
Tgt Ion:202 Resp: 24264
 Ion Ratio Lower Upper
 202 100
 200 22.2 16.8 25.2
 203 19.1 13.8 20.6



#79
 Terphenyl-d14
 Concen: 32.969 ng
 RT: 12.933 min Scan# 1843
 Delta R.T. -0.012 min
 Lab File: BF138999.D
 Acq: 14 Aug 2024 17:43

Tgt Ion:244 Resp: 126076
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.4 8.2
 122 9.9 9.6 14.4





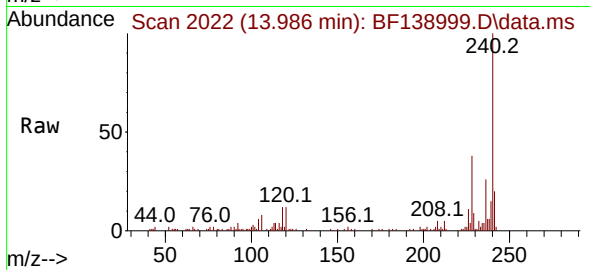
#81
Benzo(a)anthracene
Concen: 3.279 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

Instrument :

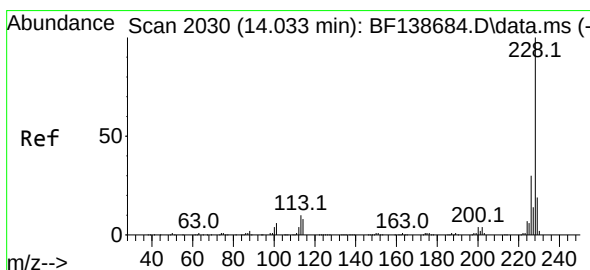
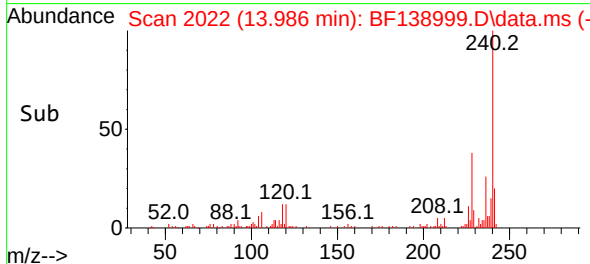
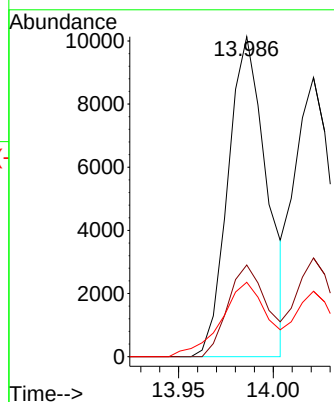
BNA_F

ClientSampleId :

IN-SITU-SOIL

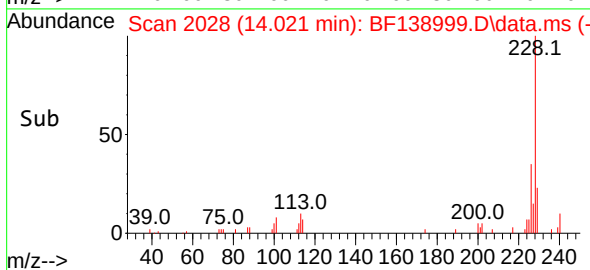
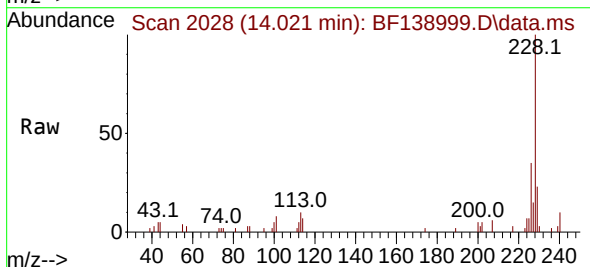
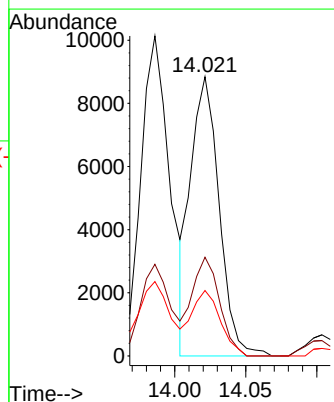


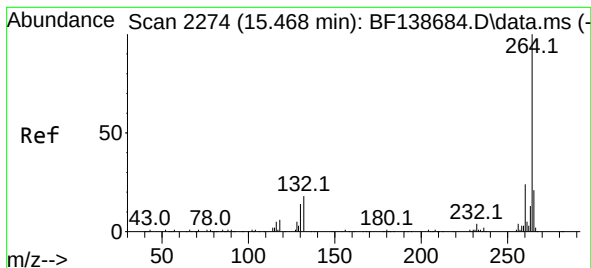
Tgt Ion:228 Resp: 14456
Ion Ratio Lower Upper
228 100
226 28.7 22.1 33.1
229 23.2 15.4 23.0#



#83
Chrysene
Concen: 3.100 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF138999.D
Acq: 14 Aug 2024 17:43

Tgt Ion:228 Resp: 12329
Ion Ratio Lower Upper
228 100
226 35.4 23.7 35.5
229 23.5 15.0 22.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.462 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF138999.D

Acq: 14 Aug 2024 17:43

Instrument :

BNA_F

ClientSampleId :

IN-SITU-SOIL

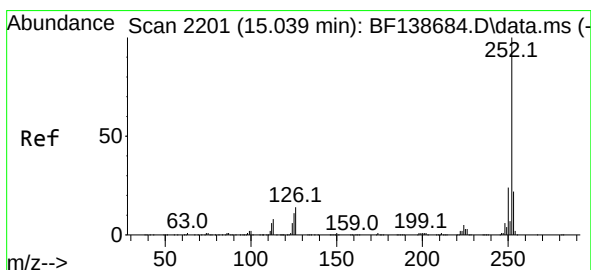
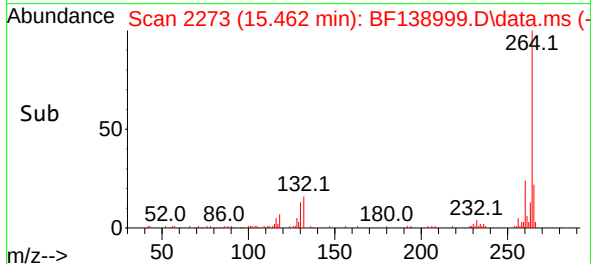
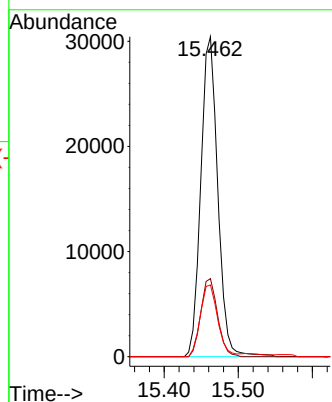
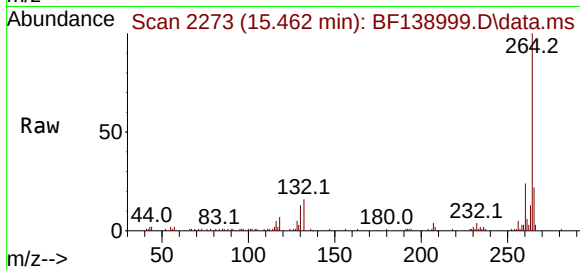
Tgt Ion:264 Resp: 48441

Ion Ratio Lower Upper

264 100

260 24.4 19.0 28.6

265 22.4 17.0 25.6



#88

Benzo(b)fluoranthene

Concen: 4.886 ng

RT: 15.039 min Scan# 2201

Delta R.T. -0.000 min

Lab File: BF138999.D

Acq: 14 Aug 2024 17:43

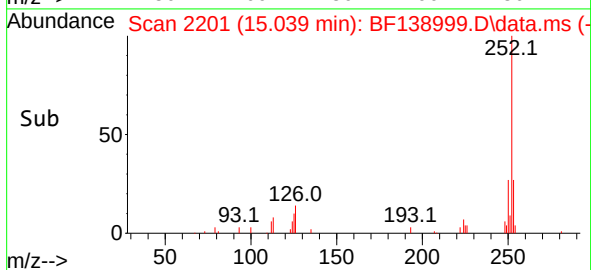
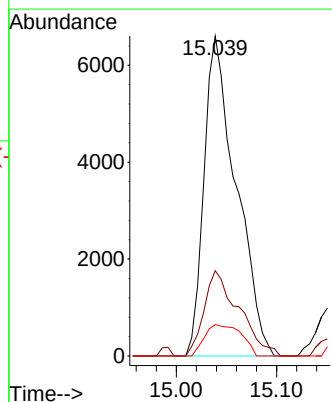
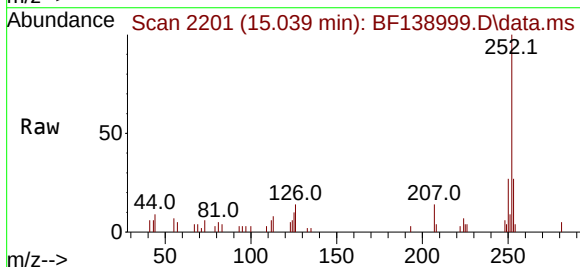
Tgt Ion:252 Resp: 14673

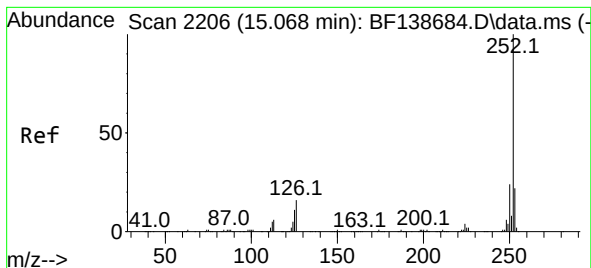
Ion Ratio Lower Upper

252 100

253 26.7 17.5 26.3#

125 9.8 8.9 13.3





#89

Benzo(k)fluoranthene

Concen: 5.644 ng

RT: 15.039 min Scan# 21

Delta R.T. -0.030 min

Lab File: BF138999.D

Acq: 14 Aug 2024 17:43

Instrument :

BNA_F

ClientSampleId :

IN-SITU-SOIL

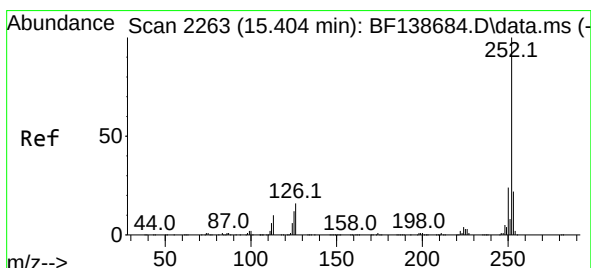
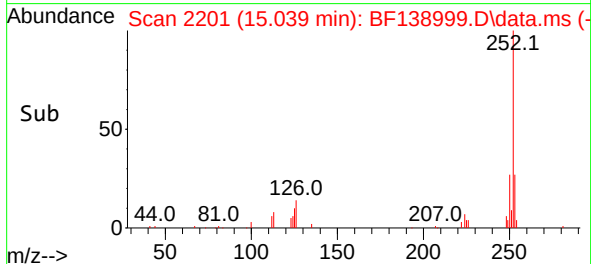
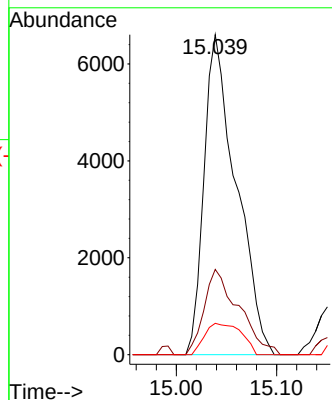
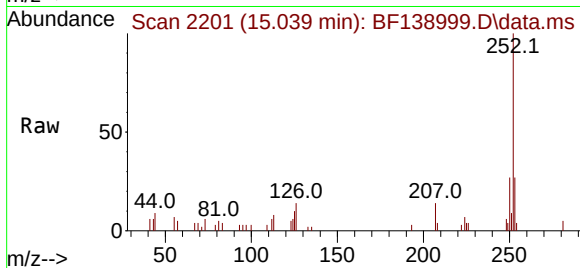
Tgt Ion:252 Resp: 14673

Ion Ratio Lower Upper

252 100

253 26.7 17.4 26.0#

125 9.8 8.6 13.0



#90

Benzo(a)pyrene

Concen: 3.210 ng

RT: 15.404 min Scan# 2263

Delta R.T. -0.000 min

Lab File: BF138999.D

Acq: 14 Aug 2024 17:43

Tgt Ion:252 Resp: 8108

Ion Ratio Lower Upper

252 100

253 24.5 17.3 25.9

125 11.7 9.5 14.3

