

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
 Data File : BF140517.D
 Acq On : 20 Nov 2024 23:06
 Operator : RC/JU
 Sample : P4822-08
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-4

Quant Time: Nov 21 00:09:49 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration

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

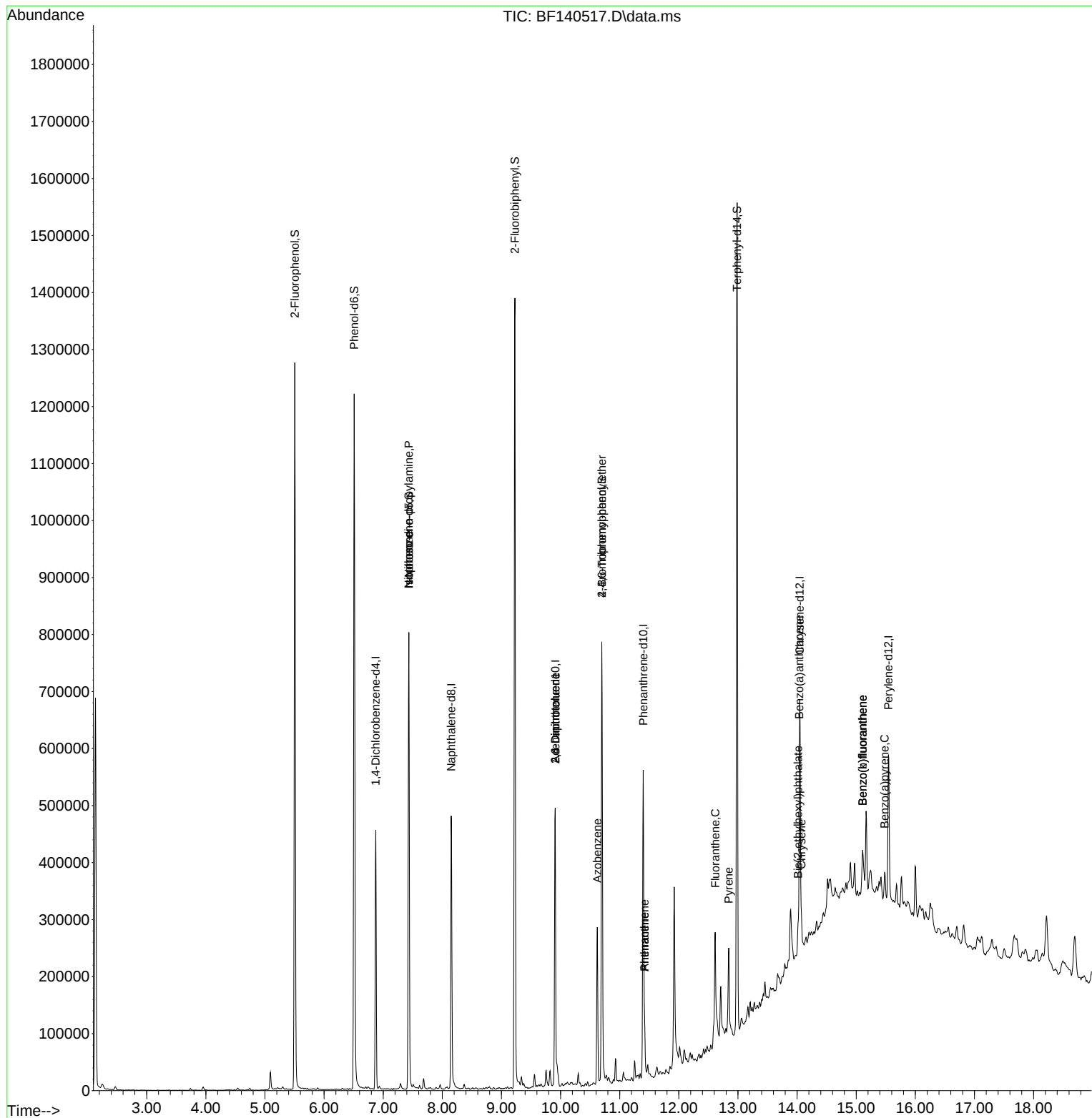
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	96480	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	314709	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	146621	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	284987	20.000	ng	0.00
76) Chrysene-d12	14.045	240	192365	20.000	ng	0.00
86) Perylene-d12	15.545	264	146314	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	480204	84.981	ng	0.01
7) Phenol-d6	6.510	99	584224	76.311	ng	0.00
23) Nitrobenzene-d5	7.434	82	365389	60.493	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	131048	89.880	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	647405	70.981	ng	0.00
79) Terphenyl-d14	12.986	244	736174	66.428	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.434	70	48333	10.453	ng	# 76
25) Isophorone	7.434	82	361999	33.816	ng	# 66
51) 2,6-Dinitrotoluene	9.910	165	18676	8.572	ng	# 23
57) 2,4-Dinitrotoluene	9.910	165	18676	6.513	ng	# 20
63) Azobenzene	10.622	77	72085	7.466	ng	# 1
67) 4-Bromophenyl-phenylether	10.698	248	8390	2.945	ng	# 1
71) Phenanthrene	11.422	178	47154	3.522	ng	99
72) Anthracene	11.422	178	47154	3.594	ng	99
75) Fluoranthene	12.616	202	94302	6.279	ng	99
78) Pyrene	12.845	202	88844	5.399	ng	98
81) Benzo(a)anthracene	14.039	228	42550	3.366	ng	# 92
83) Chrysene	14.074	228	33476	2.902	ng	# 93
84) Bis(2-ethylhexyl)phtha...	14.016	149	19954	2.365	ng	# 94
88) Benzo(b)fluoranthene	15.110	252	50757	5.303	ng	# 82
89) Benzo(k)fluoranthene	15.110	252	50757	6.492	ng	# 81
90) Benzo(a)pyrene	15.480	252	23104	3.108	ng	# 83

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

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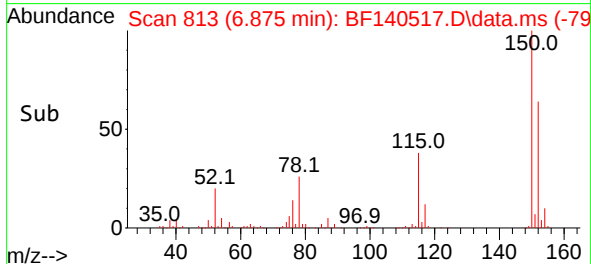
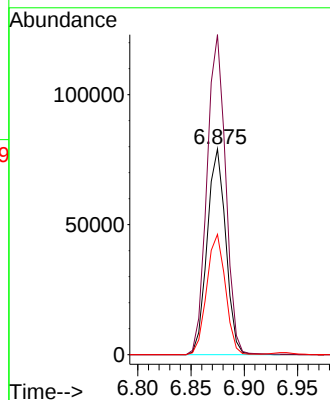
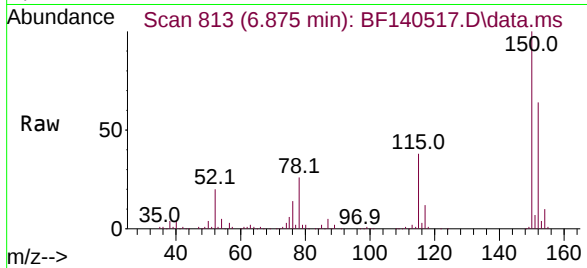




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140517.D
Acq: 20 Nov 2024 23:06

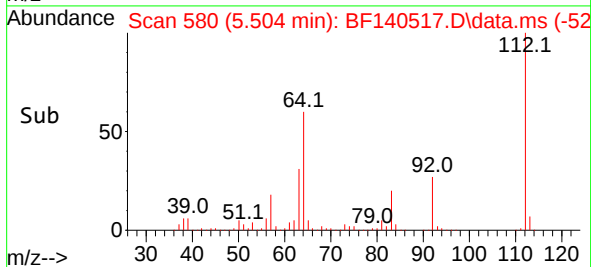
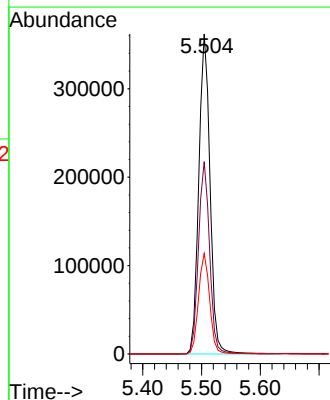
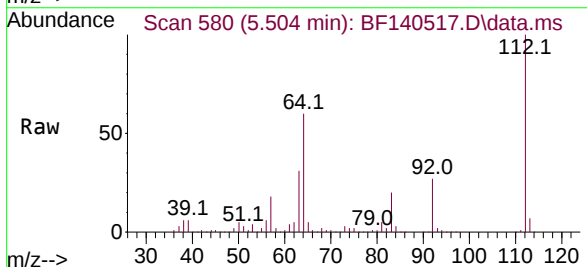
Instrument :
BNA_F
ClientSampleId :
SOIL-4

Tgt Ion:152 Resp: 96480
Ion Ratio Lower Upper
152 100
150 155.5 127.4 191.0
115 58.5 47.4 71.2



#5
2-Fluorophenol
Concen: 84.981 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.012 min
Lab File: BF140517.D
Acq: 20 Nov 2024 23:06

Tgt Ion:112 Resp: 480204
Ion Ratio Lower Upper
112 100
64 60.1 49.2 73.8
63 31.4 25.6 38.4

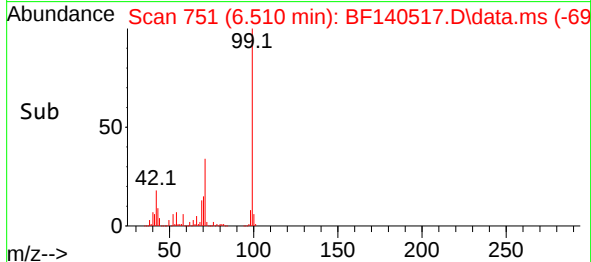
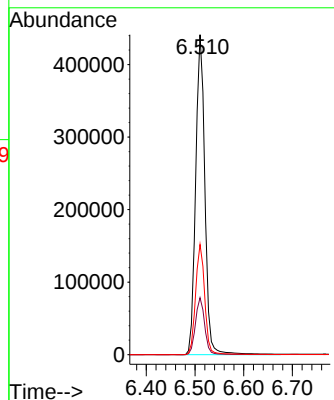
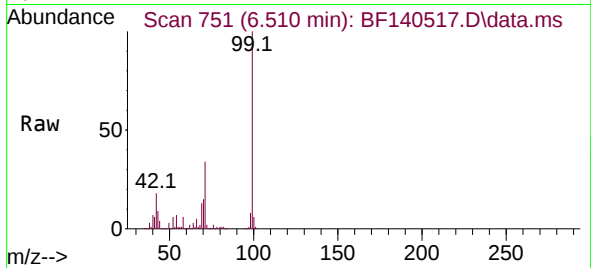




#7
Phenol-d6
Concen: 76.311 ng
RT: 6.510 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF140517.D
Acq: 20 Nov 2024 23:06

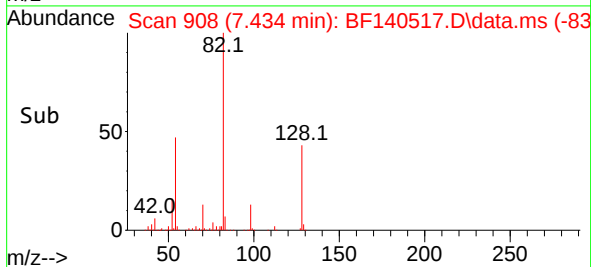
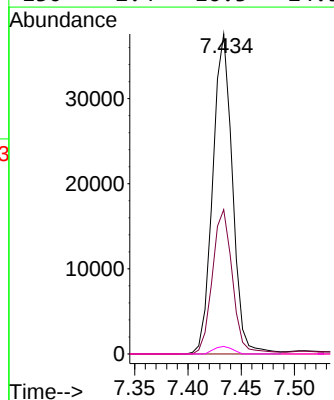
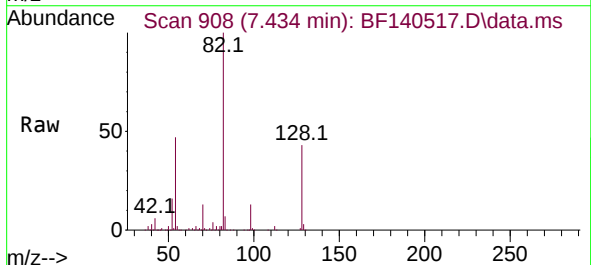
Instrument :
BNA_F
ClientSampleId :
SOIL-4

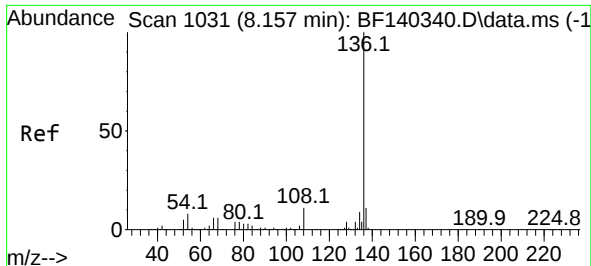
Tgt Ion: 99 Resp: 584224
Ion Ratio Lower Upper
99 100
42 17.8 15.1 22.7
71 34.5 27.9 41.9



#19
n-Nitroso-di-n-propylamine
Concen: 10.453 ng
RT: 7.434 min Scan# 908
Delta R.T. 0.141 min
Lab File: BF140517.D
Acq: 20 Nov 2024 23:06

Tgt Ion: 70 Resp: 48333
Ion Ratio Lower Upper
70 100
42 45.1 46.8 70.2#
101 0.0 7.5 11.3#
130 2.4 16.3 24.5#

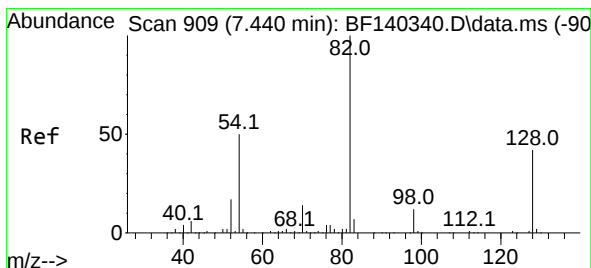
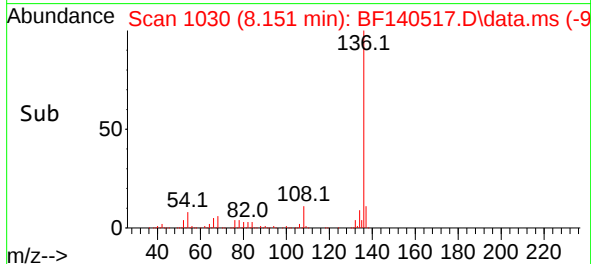
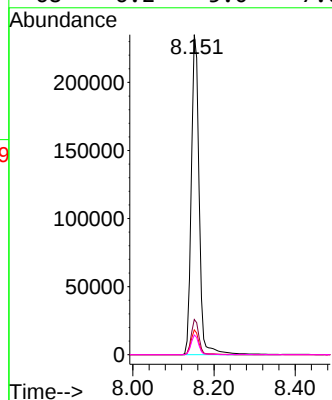
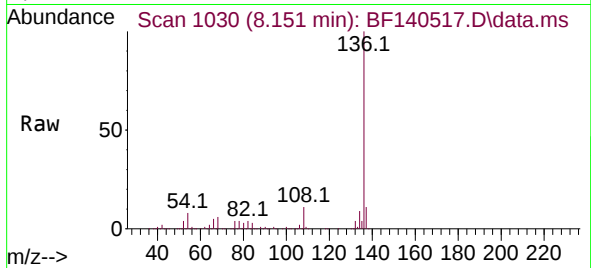




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140517.D
Acq: 20 Nov 2024 23:06

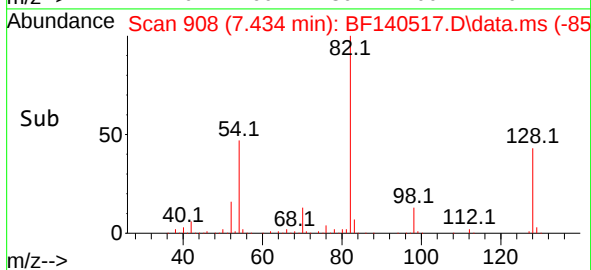
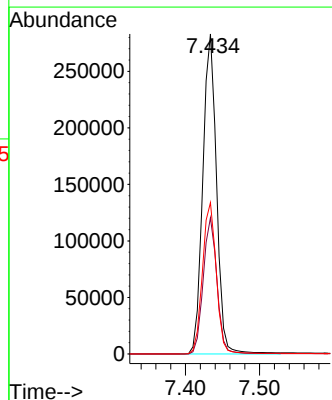
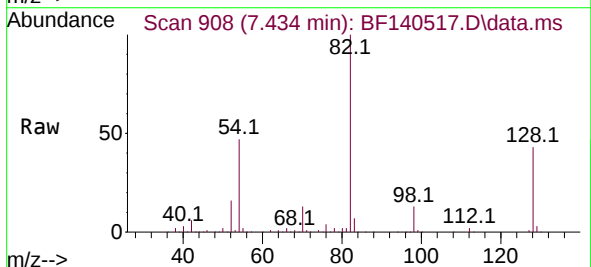
Instrument :
BNA_F
ClientSampleId :
SOIL-4

Tgt Ion:136 Resp: 314709
Ion Ratio Lower Upper
136 100
137 11.0 8.7 13.1
54 7.7 6.5 9.7
68 6.2 5.0 7.6



#23
Nitrobenzene-d5
Concen: 60.493 ng
RT: 7.434 min Scan# 908
Delta R.T. -0.006 min
Lab File: BF140517.D
Acq: 20 Nov 2024 23:06

Tgt Ion: 82 Resp: 365389
Ion Ratio Lower Upper
82 100
128 42.5 33.3 49.9
54 47.3 39.8 59.8

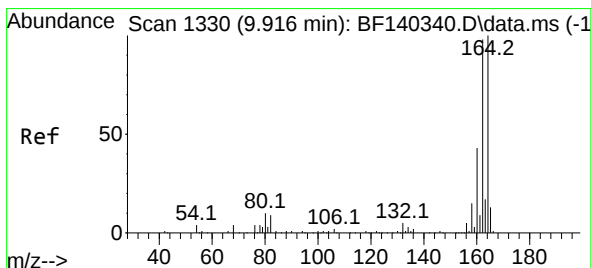
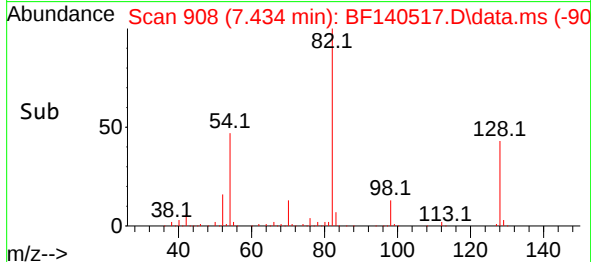
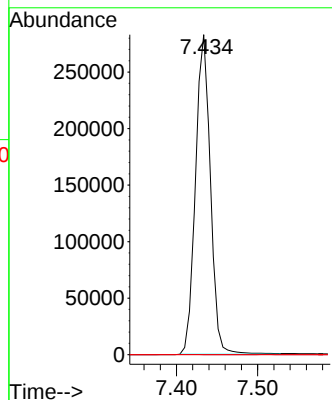
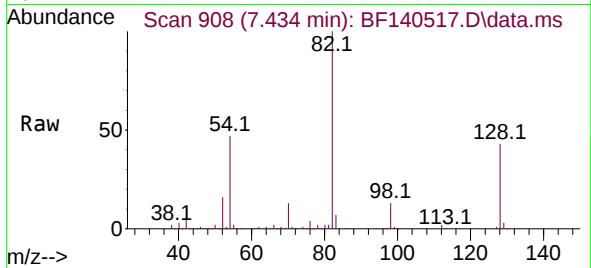




#25
Isophorone
Concen: 33.816 ng
RT: 7.434 min Scan# 90
Delta R.T. -0.265 min
Lab File: BF140517.D
Acq: 20 Nov 2024 23:06

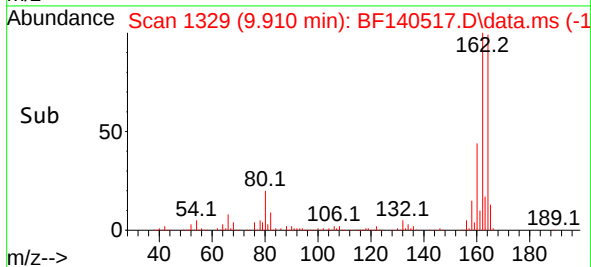
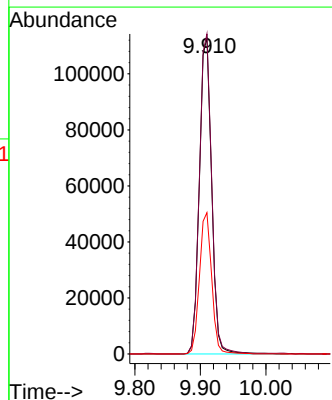
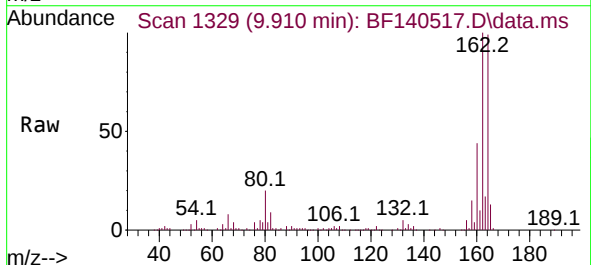
Instrument :
BNA_F
ClientSampleId :
SOIL-4

Tgt Ion: 82 Resp: 361999
Ion Ratio Lower Upper
82 100
95 0.0 5.9 8.9#
138 0.0 13.4 20.2#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF140517.D
Acq: 20 Nov 2024 23:06

Tgt Ion:164 Resp: 146621
Ion Ratio Lower Upper
164 100
162 101.1 79.8 119.8
160 44.7 35.4 53.0





#42

2,4,6-Tribromophenol

Concen: 89.880 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.006 min

Lab File: BF140517.D

Acq: 20 Nov 2024 23:06

Instrument :

BNA_F

ClientSampleId :

SOIL-4

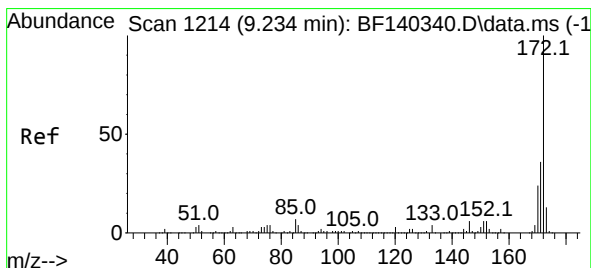
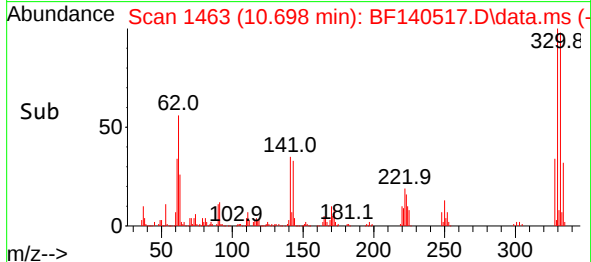
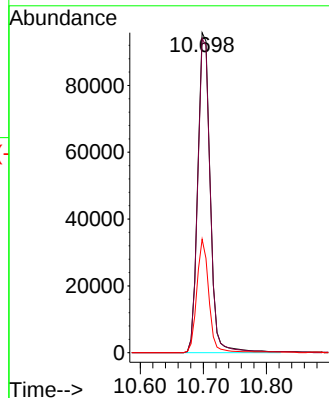
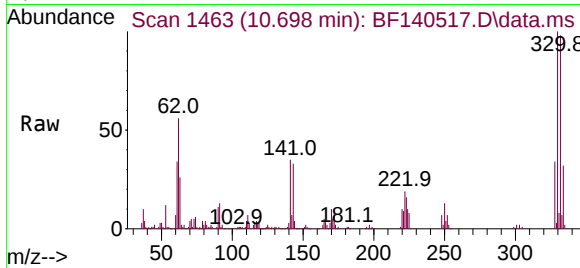
Tgt Ion:330 Resp: 131048

Ion Ratio Lower Upper

330 100

332 98.1 75.9 113.9

141 34.9 26.9 40.3



#45

2-Fluorobiphenyl

Concen: 70.981 ng

RT: 9.228 min Scan# 1213

Delta R.T. -0.006 min

Lab File: BF140517.D

Acq: 20 Nov 2024 23:06

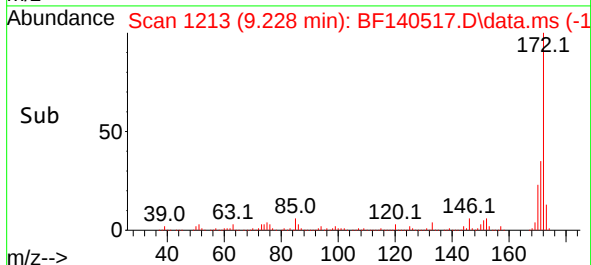
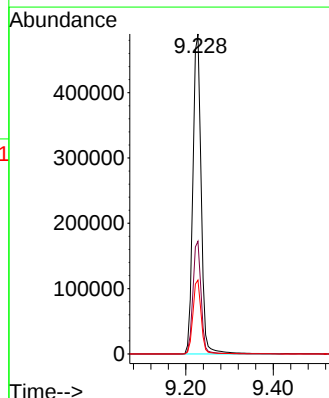
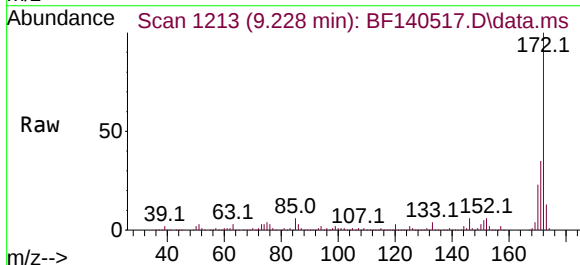
Tgt Ion:172 Resp: 647405

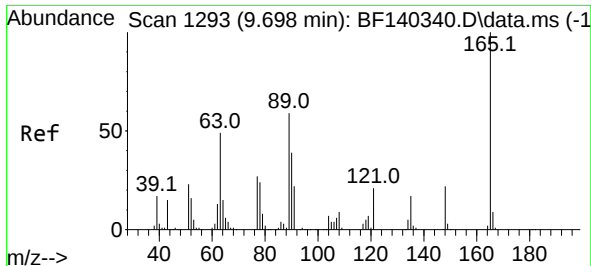
Ion Ratio Lower Upper

172 100

171 35.2 28.5 42.7

170 23.1 19.1 28.7





#51

2,6-Dinitrotoluene

Concen: 8.572 ng

RT: 9.910 min Scan# 1

Delta R.T. 0.212 min

Lab File: BF140517.D

Acq: 20 Nov 2024 23:06

Instrument :

BNA_F

ClientSampleId :

SOIL-4

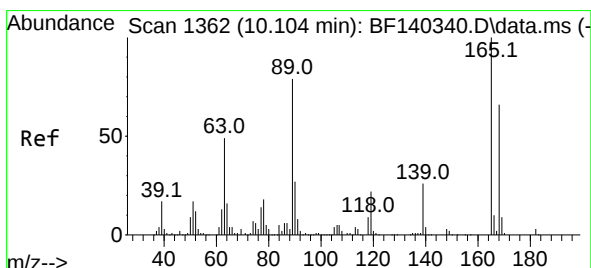
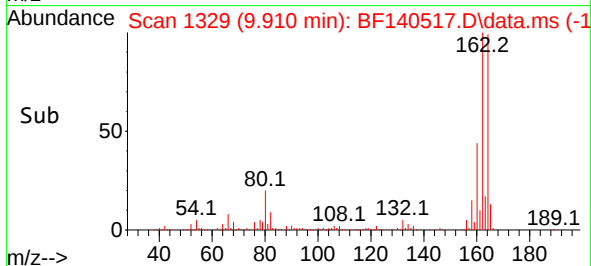
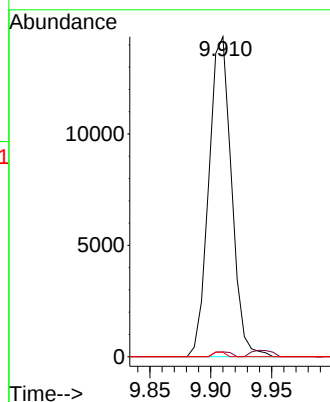
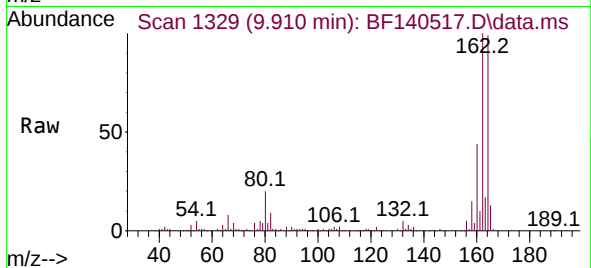
Tgt Ion:165 Resp: 18676

Ion Ratio Lower Upper

165 100

63 1.5 47.6 71.4#

89 1.4 48.1 72.1#



#57

2,4-Dinitrotoluene

Concen: 6.513 ng

RT: 9.910 min Scan# 1329

Delta R.T. -0.194 min

Lab File: BF140517.D

Acq: 20 Nov 2024 23:06

Tgt Ion:165 Resp: 18676

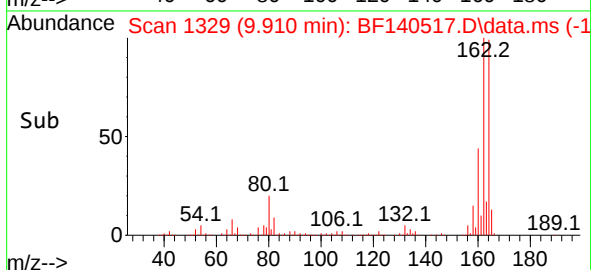
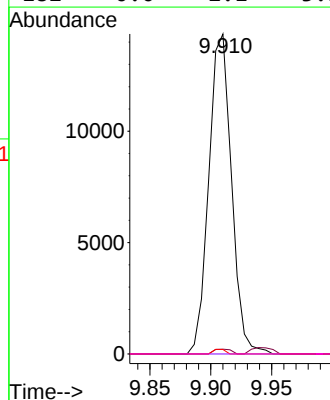
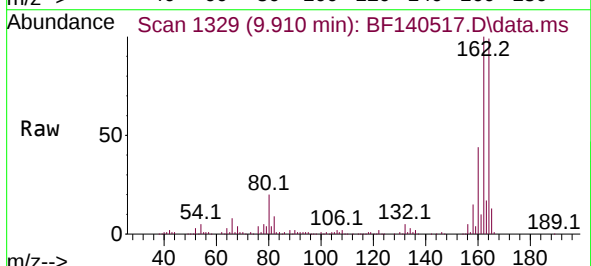
Ion Ratio Lower Upper

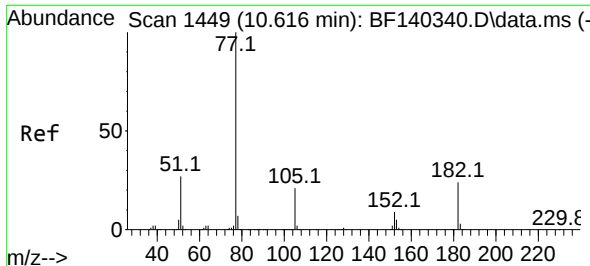
165 100

63 1.5 39.4 59.0#

89 1.4 62.4 93.6#

182 0.0 2.1 3.1#

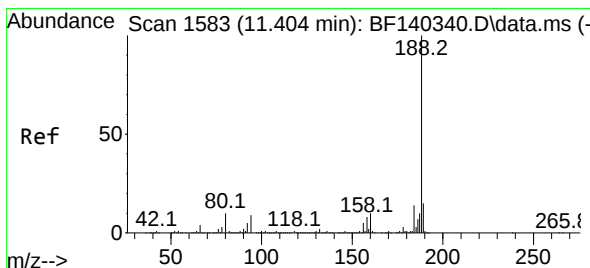
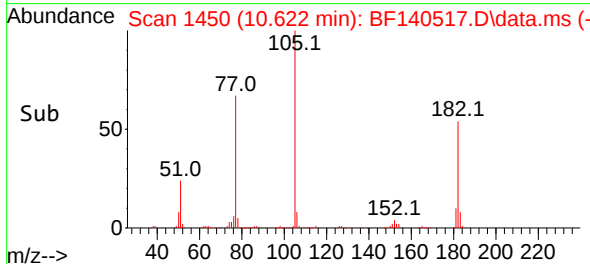
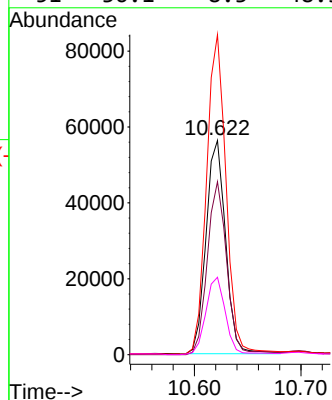
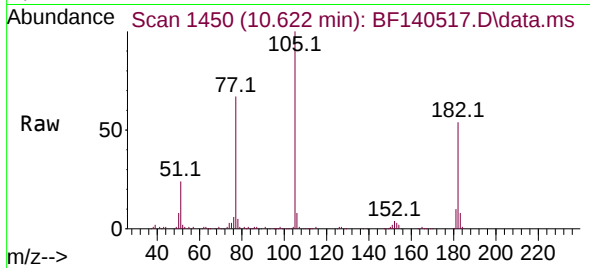




#63
 Azobenzene
 Concen: 7.466 ng
 RT: 10.622 min Scan# 1449
 Delta R.T. 0.006 min
 Lab File: BF140517.D
 Acq: 20 Nov 2024 23:06

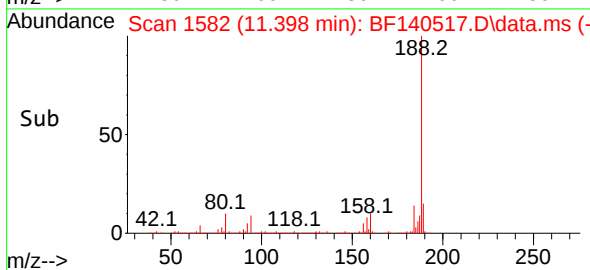
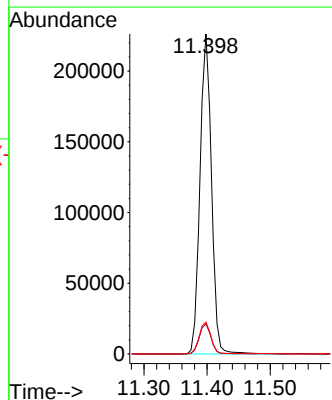
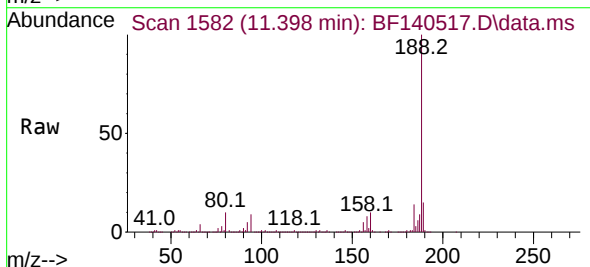
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-4

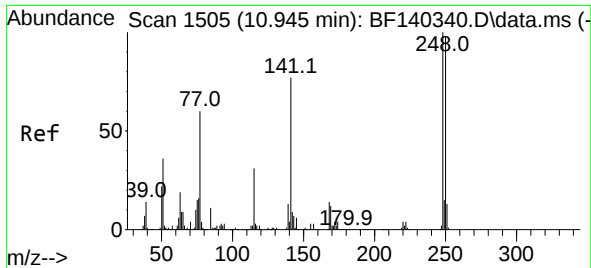
Tgt Ion: 77	Resp: 72085
Ion Ratio	Lower Upper
77 100	
182 80.7	4.6 44.6#
105 149.4	0.9 40.9#
51 36.1	8.3 48.3



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.398 min Scan# 1582
 Delta R.T. -0.006 min
 Lab File: BF140517.D
 Acq: 20 Nov 2024 23:06

Tgt Ion: 188	Resp: 284987
Ion Ratio	Lower Upper
188 100	
94 9.4	7.6 11.4
80 10.0	8.0 12.0

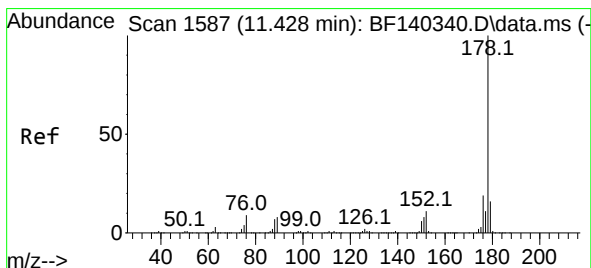
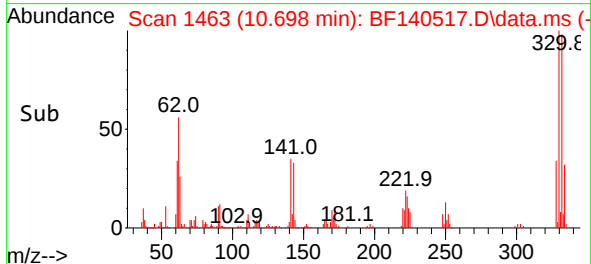
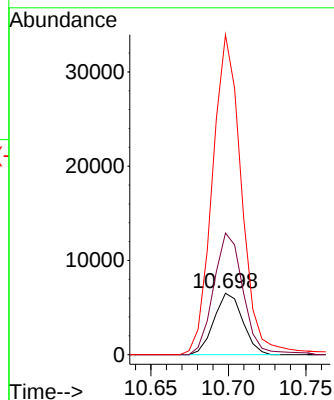
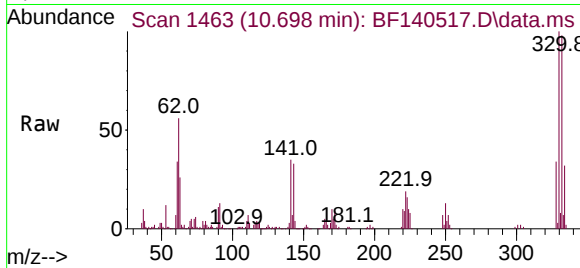




#67
4-Bromophenyl-phenylether
Concen: 2.945 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.247 min
Lab File: BF140517.D
Acq: 20 Nov 2024 23:06

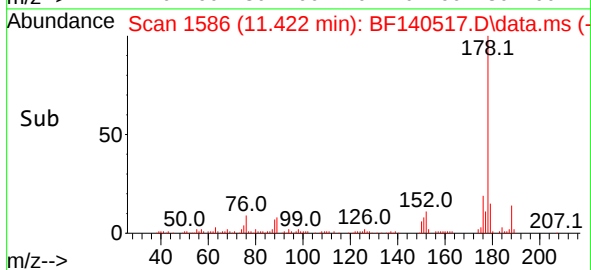
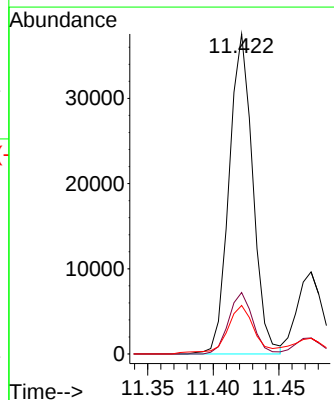
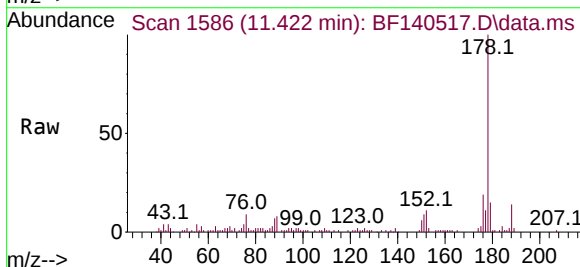
Instrument :
BNA_F
ClientSampleId :
SOIL-4

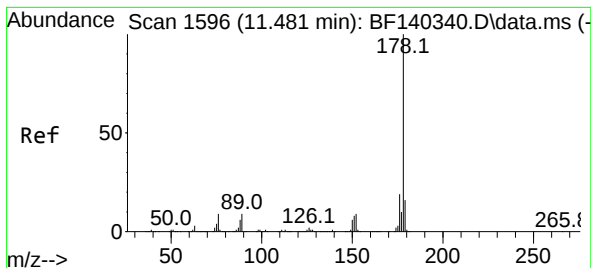
Tgt Ion:248 Resp: 8390
Ion Ratio Lower Upper
248 100
250 198.0 77.9 116.9#
141 520.9 61.8 92.6#



#71
Phenanthrene
Concen: 3.522 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BF140517.D
Acq: 20 Nov 2024 23:06

Tgt Ion:178 Resp: 47154
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.2 12.4 18.6

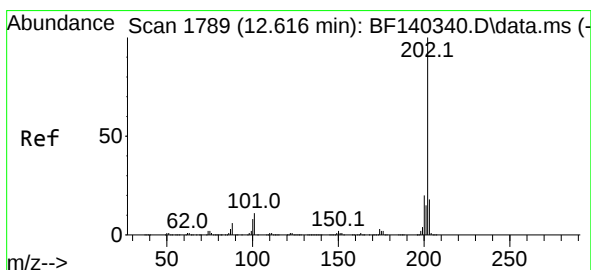
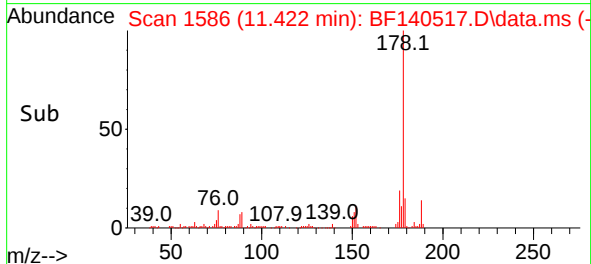
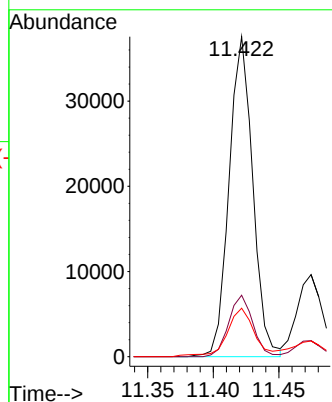
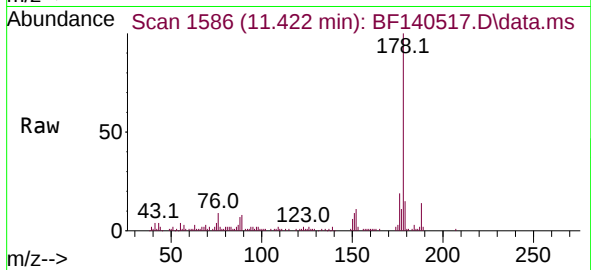




#72
Anthracene
Concen: 3.594 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.059 min
Lab File: BF140517.D
Acq: 20 Nov 2024 23:06

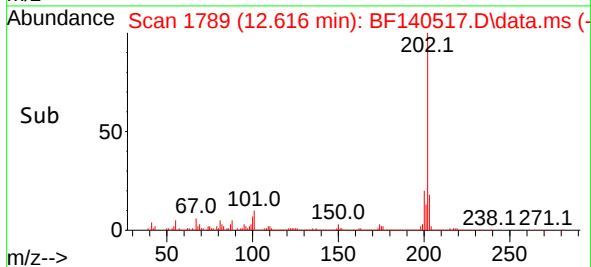
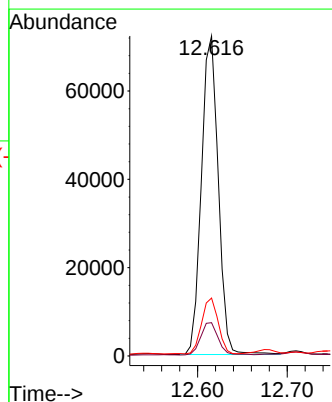
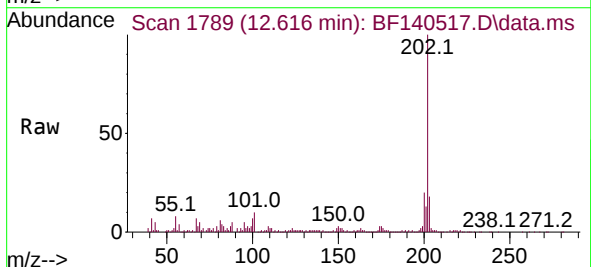
Instrument :
BNA_F
ClientSampleId :
SOIL-4

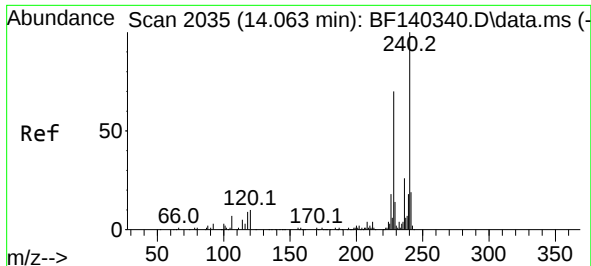
Tgt Ion:178 Resp: 47154
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.2 12.6 18.8



#75
Fluoranthene
Concen: 6.279 ng
RT: 12.616 min Scan# 1789
Delta R.T. -0.000 min
Lab File: BF140517.D
Acq: 20 Nov 2024 23:06

Tgt Ion:202 Resp: 94302
Ion Ratio Lower Upper
202 100
101 10.4 0.0 30.7
203 18.1 0.0 37.7

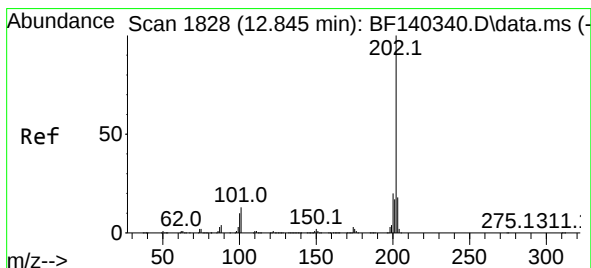
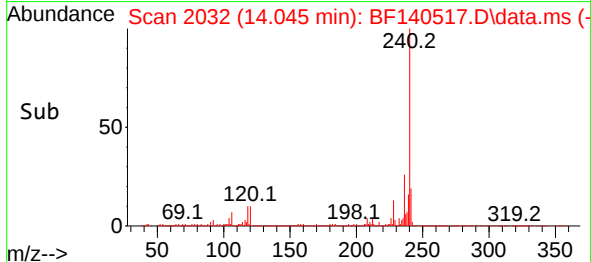
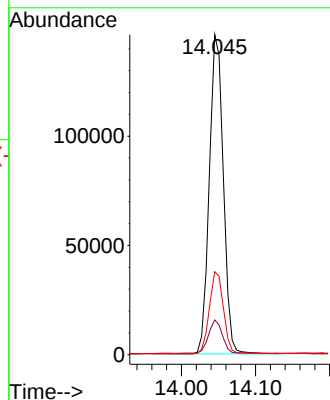
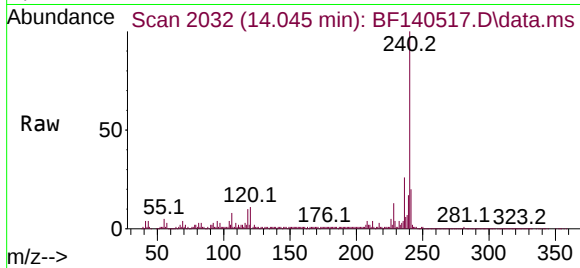




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2035
Delta R.T. -0.006 min
Lab File: BF140517.D
Acq: 20 Nov 2024 23:06

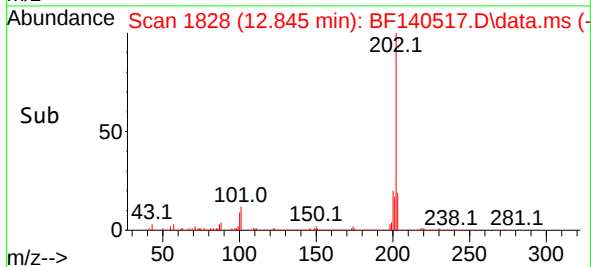
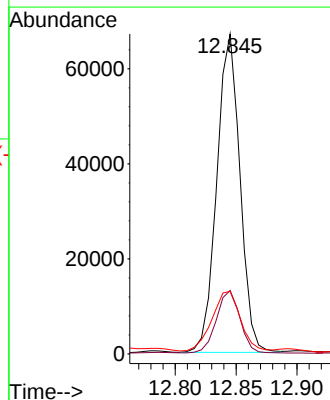
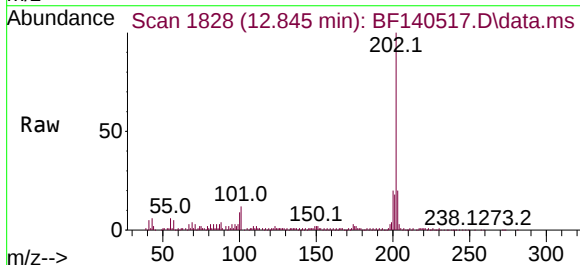
Instrument :
BNA_F
ClientSampleId :
SOIL-4

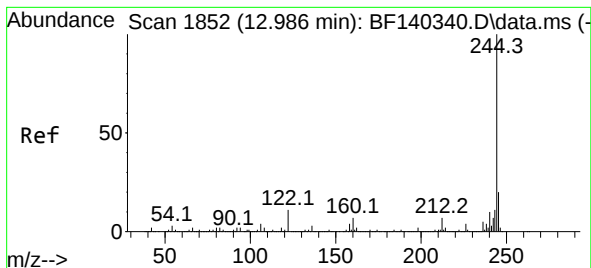
Tgt Ion:240 Resp: 192365
Ion Ratio Lower Upper
240 100
120 10.8 8.8 13.2
236 25.9 20.9 31.3



#78
Pyrene
Concen: 5.399 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.000 min
Lab File: BF140517.D
Acq: 20 Nov 2024 23:06

Tgt Ion:202 Resp: 88844
Ion Ratio Lower Upper
202 100
200 19.9 16.2 24.2
203 19.6 14.2 21.4





#79

Terphenyl-d14

Concen: 66.428 ng

RT: 12.986 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF140517.D

Acq: 20 Nov 2024 23:06

Instrument :

BNA_F

ClientSampleId :

SOIL-4

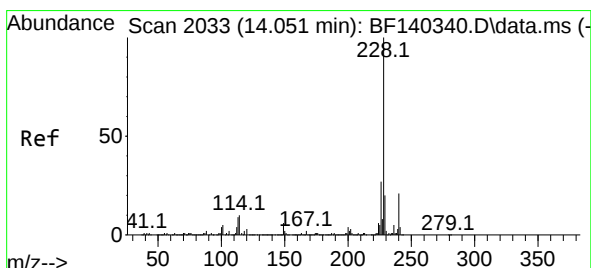
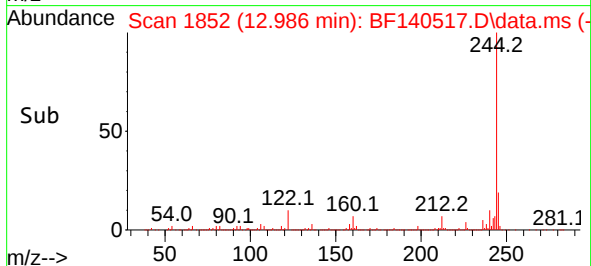
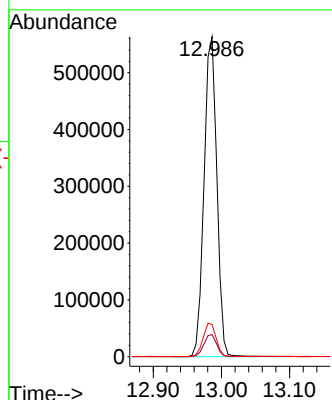
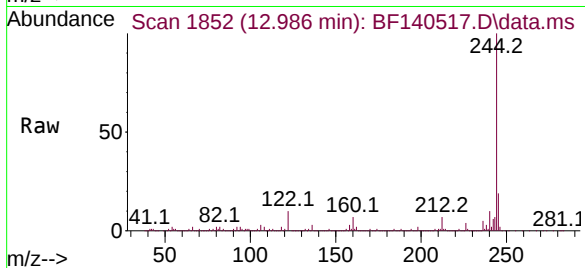
Tgt Ion:244 Resp: 736174

Ion Ratio Lower Upper

244 100

212 6.9 5.8 8.8

122 10.1 8.8 13.2



#81

Benzo(a)anthracene

Concen: 3.366 ng

RT: 14.039 min Scan# 2031

Delta R.T. -0.000 min

Lab File: BF140517.D

Acq: 20 Nov 2024 23:06

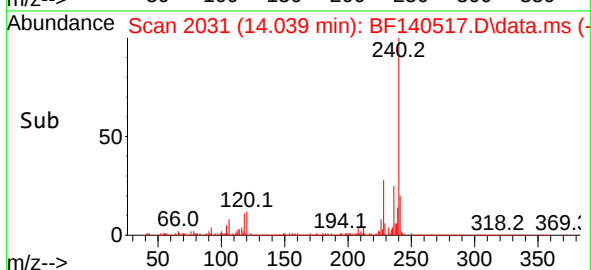
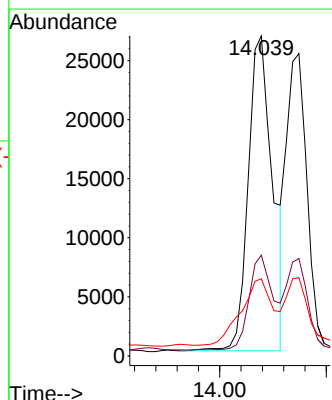
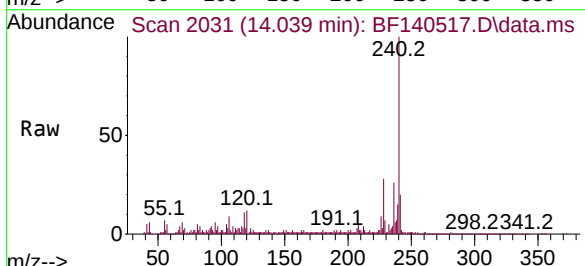
Tgt Ion:228 Resp: 42550

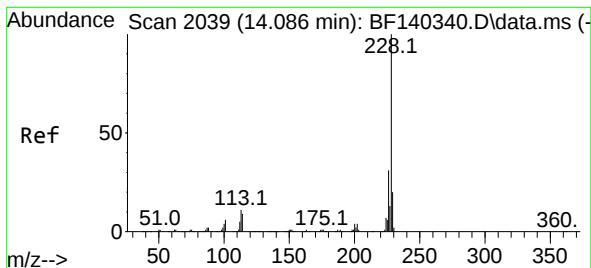
Ion Ratio Lower Upper

228 100

226 31.5 22.2 33.4

229 24.1 15.8 23.6#





#83

Chrysene

Concen: 2.902 ng

RT: 14.074 min Scan# 2039

Delta R.T. -0.006 min

Lab File: BF140517.D

Acq: 20 Nov 2024 23:06

Instrument :

BNA_F

ClientSampleId :

SOIL-4

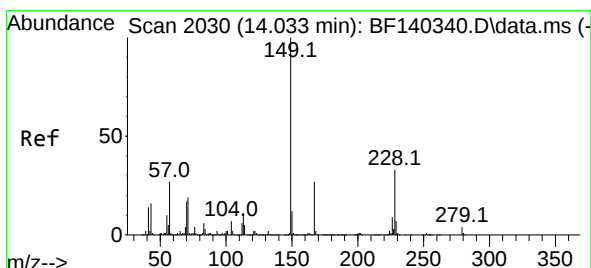
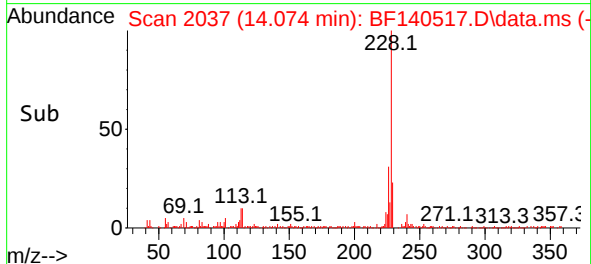
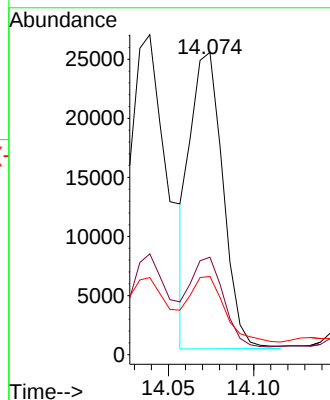
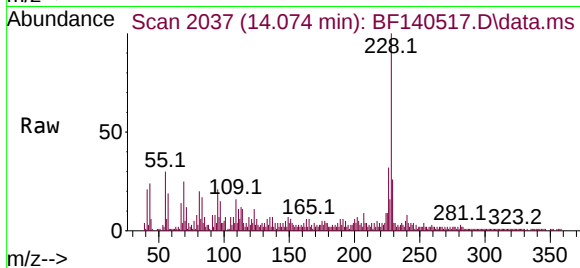
Tgt Ion:228 Resp: 33476

Ion Ratio Lower Upper

228 100

226 32.2 24.5 36.7

229 25.9 16.0 24.0#



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.365 ng

RT: 14.016 min Scan# 2027

Delta R.T. -0.006 min

Lab File: BF140517.D

Acq: 20 Nov 2024 23:06

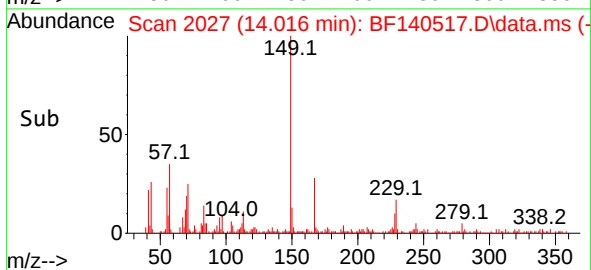
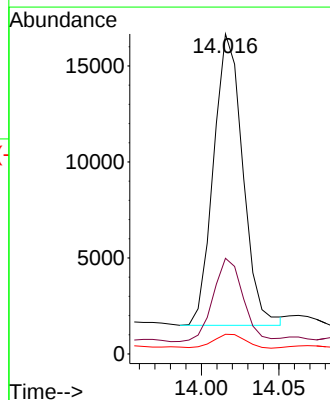
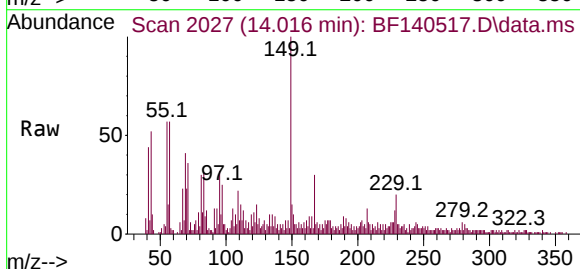
Tgt Ion:149 Resp: 19954

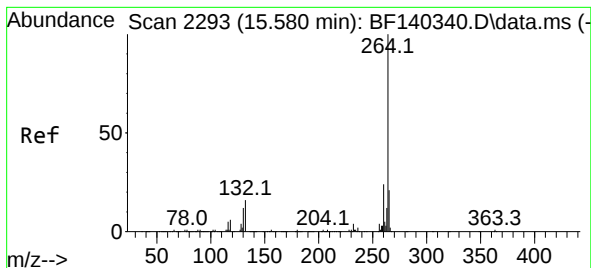
Ion Ratio Lower Upper

149 100

167 29.9 21.4 32.0

279 6.2 3.0 4.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF140517.D

Acq: 20 Nov 2024 23:06

Instrument :

BNA_F

ClientSampleId :

SOIL-4

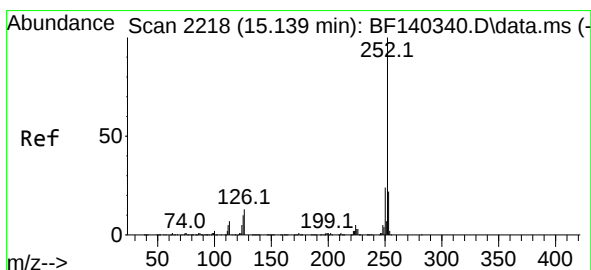
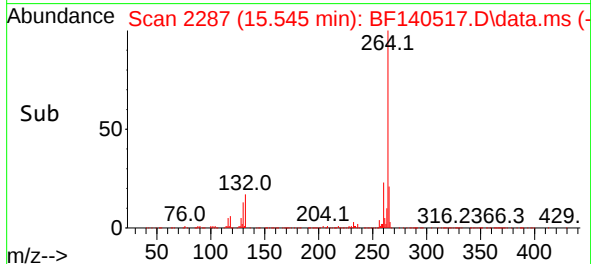
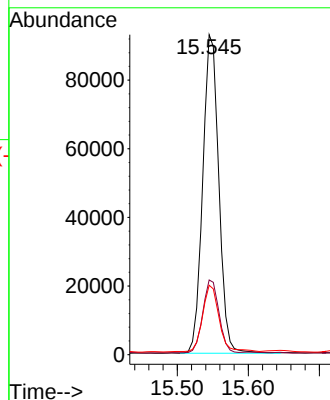
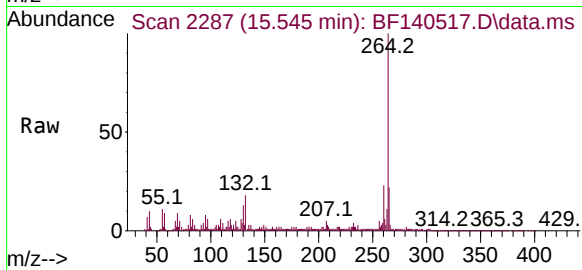
Tgt Ion:264 Resp: 146314

Ion Ratio Lower Upper

264 100

260 23.4 19.2 28.8

265 21.7 17.1 25.7



#88

Benzo(b)fluoranthene

Concen: 5.303 ng

RT: 15.110 min Scan# 2213

Delta R.T. -0.006 min

Lab File: BF140517.D

Acq: 20 Nov 2024 23:06

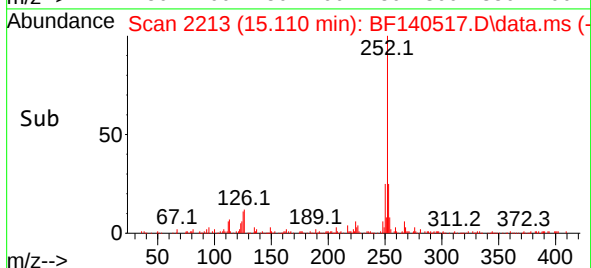
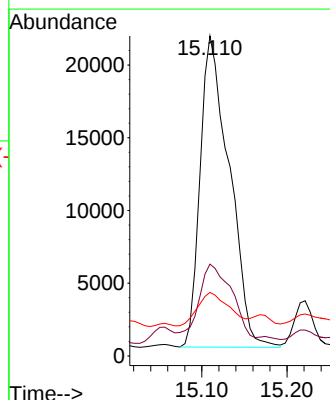
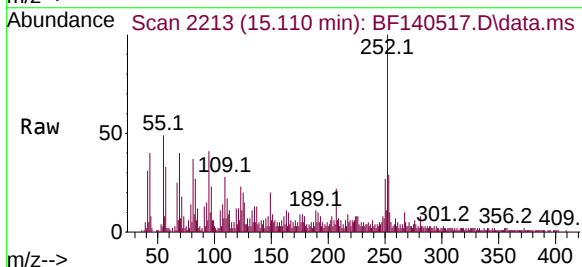
Tgt Ion:252 Resp: 50757

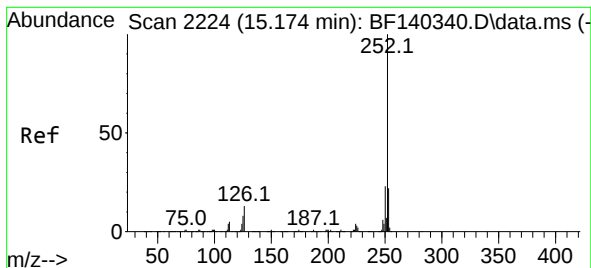
Ion Ratio Lower Upper

252 100

253 28.7 17.5 26.3#

125 19.8 8.0 12.0#





#89

Benzo(k)fluoranthene

Concen: 6.492 ng

RT: 15.110 min Scan# 21

Delta R.T. -0.041 min

Lab File: BF140517.D

Acq: 20 Nov 2024 23:06

Instrument :

BNA_F

ClientSampleId :

SOIL-4

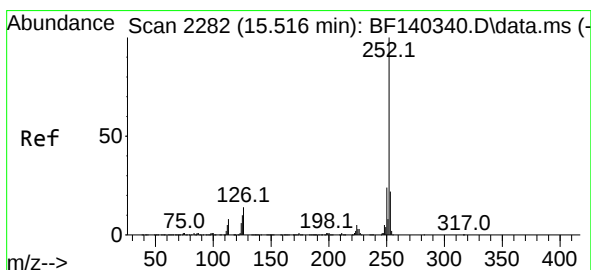
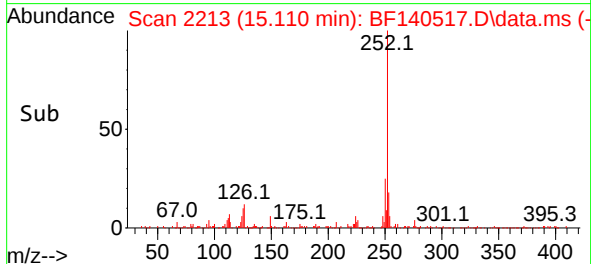
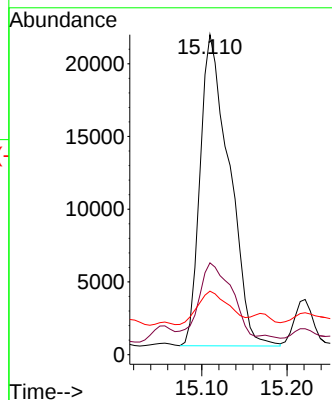
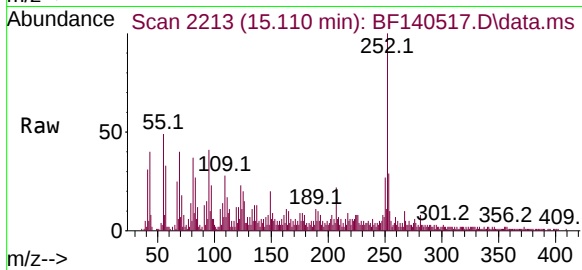
Tgt Ion:252 Resp: 50757

Ion Ratio Lower Upper

252 100

253 28.7 17.3 25.9#

125 19.8 7.4 11.2#



#90

Benzo(a)pyrene

Concen: 3.108 ng

RT: 15.480 min Scan# 2276

Delta R.T. -0.012 min

Lab File: BF140517.D

Acq: 20 Nov 2024 23:06

Tgt Ion:252 Resp: 23104

Ion Ratio Lower Upper

252 100

253 27.6 17.8 26.6#

125 21.7 8.4 12.6#

