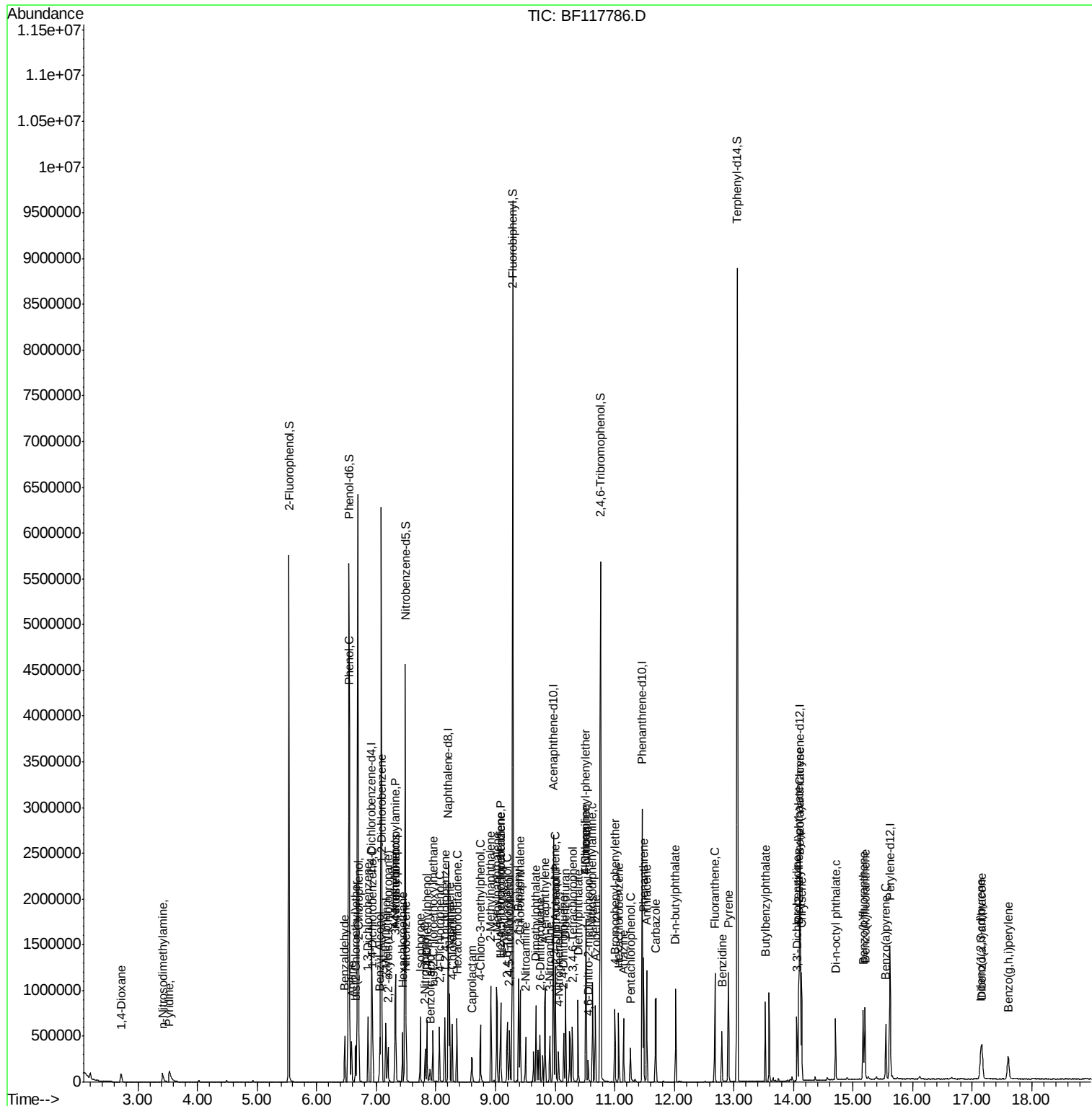
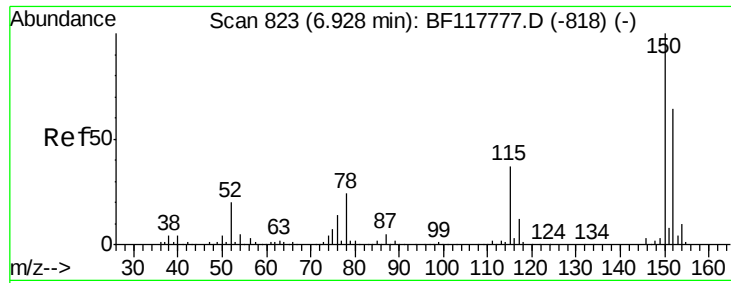


```
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111419\  
Data File : BF117786.D  
Acq On    : 14 Nov 2019  10:14  
Operator  : JU  
Sample    : K5111-01  
Misc      : LOD-MDL-SOIL-8PPM  
ALS Vial  : 4    Sample Multiplier: 1
```

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Quant Time: Nov 14 11:04:32 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 14 10:38:53 2019
Response via : Initial Calibration



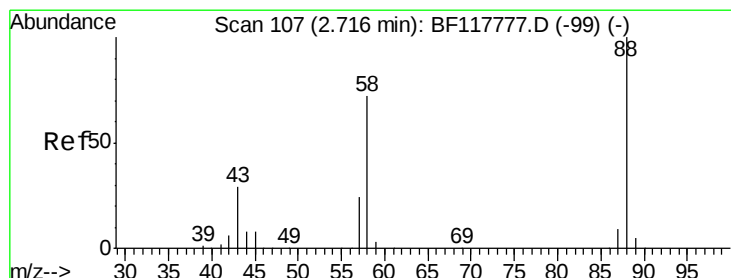
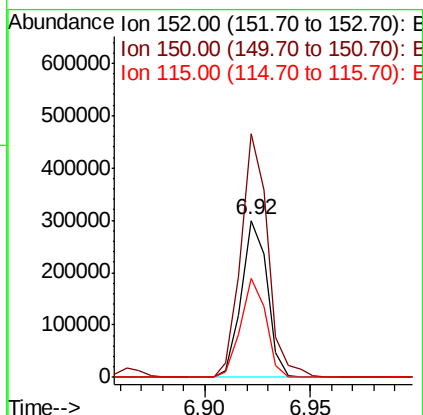
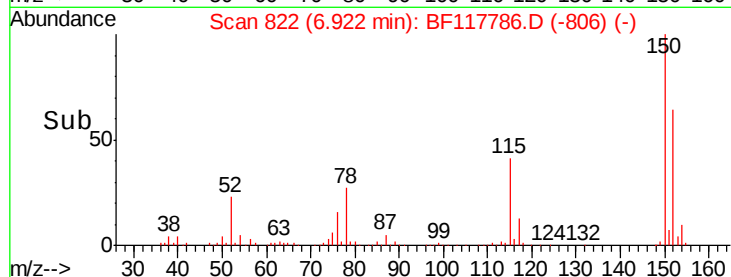
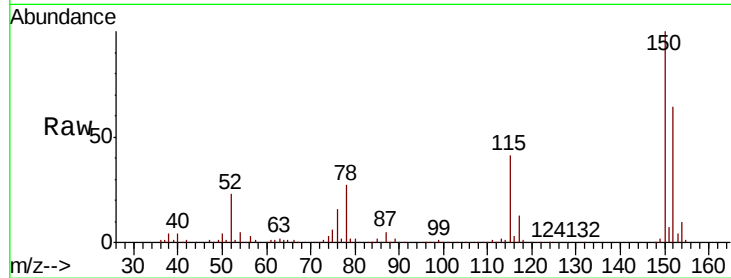


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.92 min Scan# 822
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

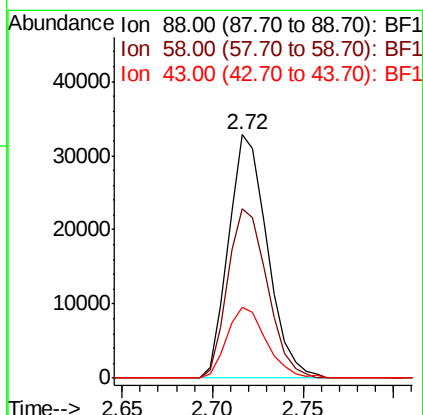
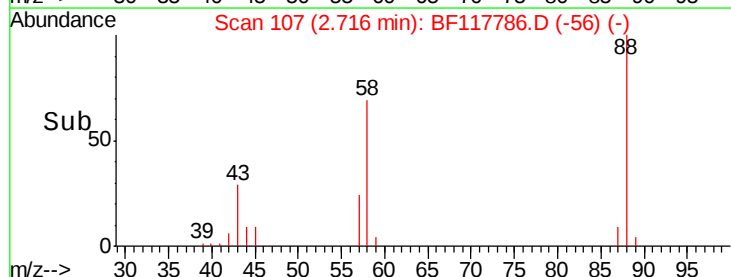
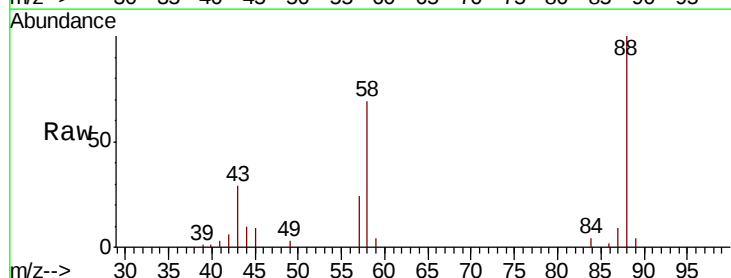
Tot Ion:152 Resp: 253504
Ion Ratio Lower Upper
152 100
150 155.2 125.3 187.9
115 63.4 47.0 70.4

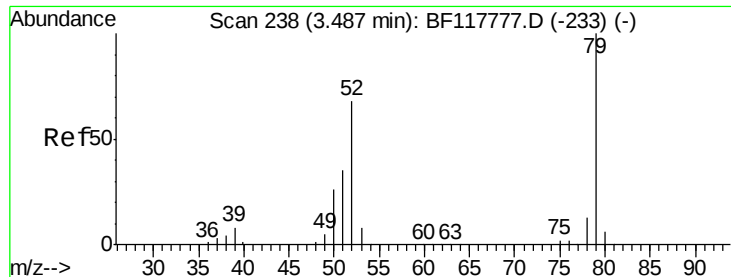


#2

1,4-Dioxane
Concen: 7.284 ng
RT: 2.72 min Scan# 107
Delta R.T. 0.00 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion: 88 Resp: 48762
Ion Ratio Lower Upper
88 100
58 70.8 58.2 87.2
43 29.8 23.3 34.9





#3

Pvridine

Concen: 6.559 ng

RT: 3.53 min Scan# 245

Delta R.T. 0.04 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

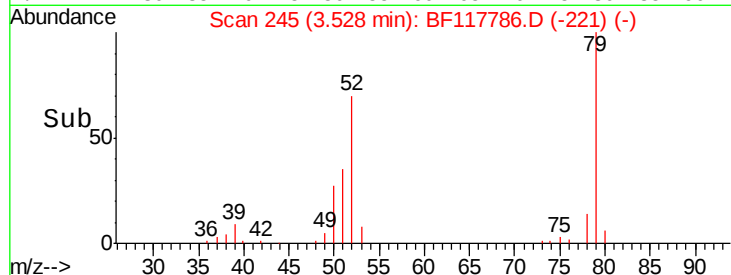
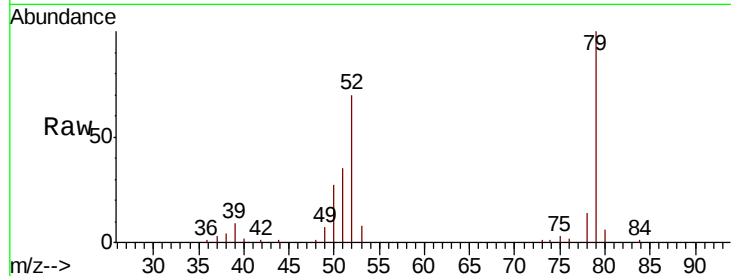
Tot Ion: 79 Resp: 115171

Ion Ratio Lower Upper

79 100

52 70.3 54.8 82.2

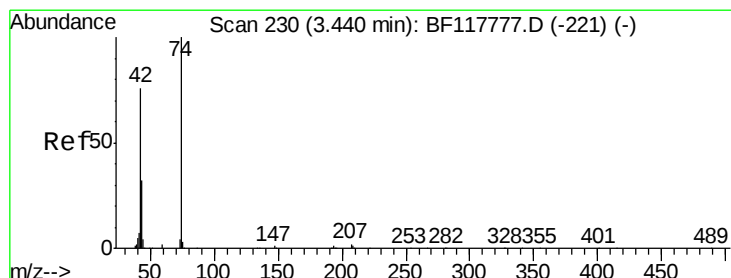
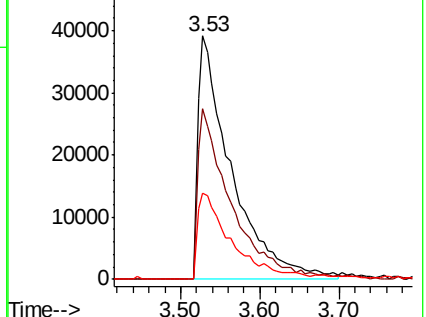
51 35.4 28.2 42.4



Abundance Ion 79.00 (78.70 to 79.70): BF1

Ion 52.00 (51.70 to 52.70): BF1

Ion 51.00 (50.70 to 51.70): BF1



#4

n-Nitrosodimethylamine

Concen: 7.461 ng

RT: 3.42 min Scan# 226

Delta R.T. -0.02 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

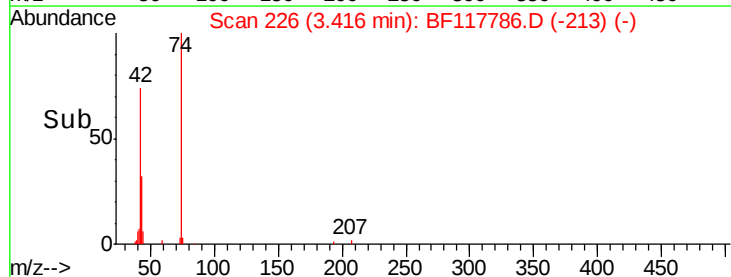
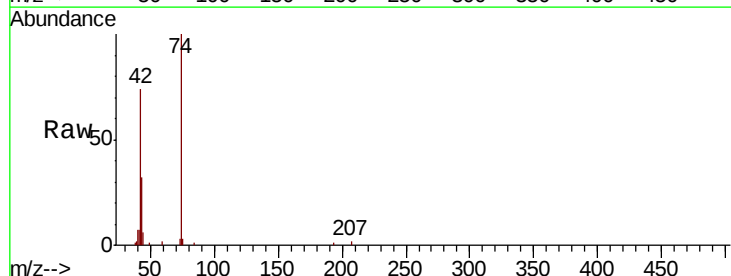
Tgt Ion: 42 Resp: 57190

Ion Ratio Lower Upper

42 100

74 135.8 105.1 157.7

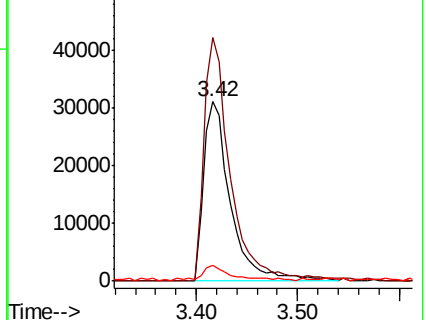
44 8.7 4.6 7.0#

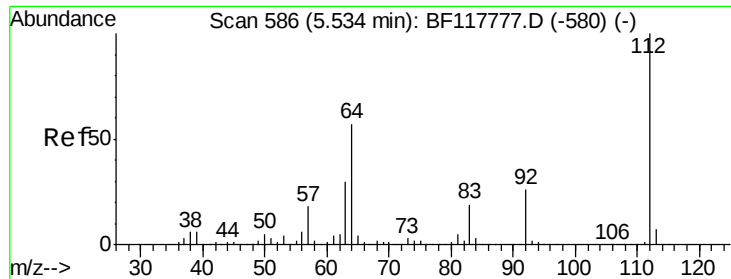


Abundance Ion 42.00 (41.70 to 42.70): BF1

Ion 74.00 (73.70 to 74.70): BF1

Ion 44.00 (43.70 to 44.70): BF1





#5

2-Fluorophenol

Concen: 132.552 ng

RT: 5.53 min Scan# 586

Delta R.T. 0.00 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

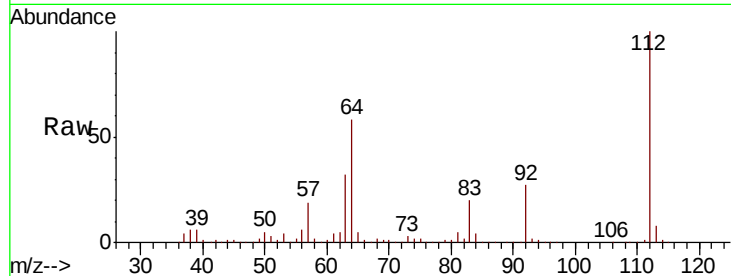
Tot Ion:112 Resp: 1898325

Ion Ratio Lower Upper

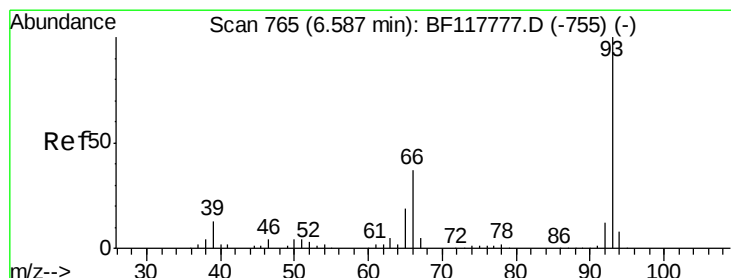
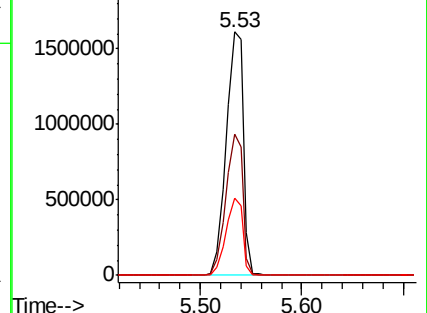
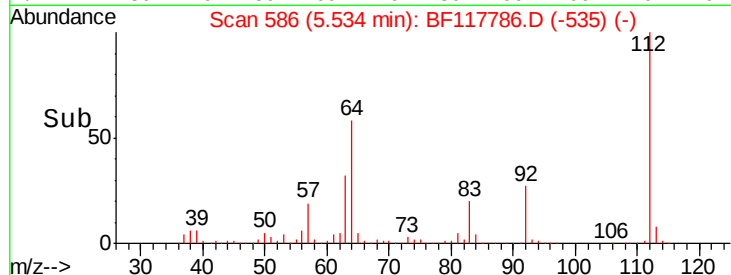
112 100

64 57.9 45.6 68.4

63 31.5 24.1 36.1



Abundance Ion 112.00 (111.70 to 112.70): BF1
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1



#6

Aniline

Concen: 8.492 ng

RT: 6.59 min Scan# 765

Delta R.T. 0.00 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

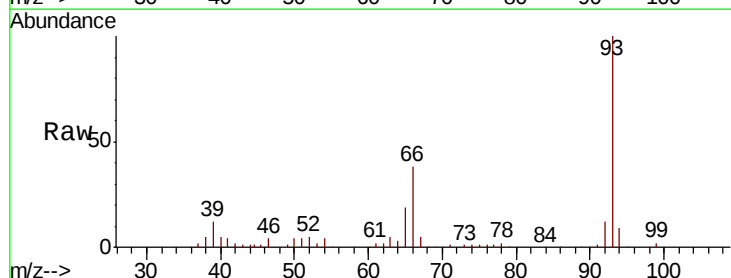
Tgt Ion: 93 Resp: 193844

Ion Ratio Lower Upper

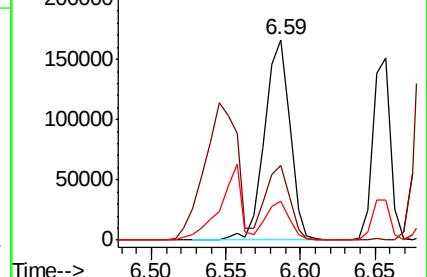
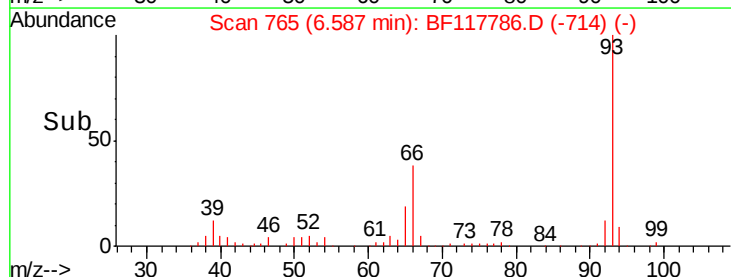
93 100

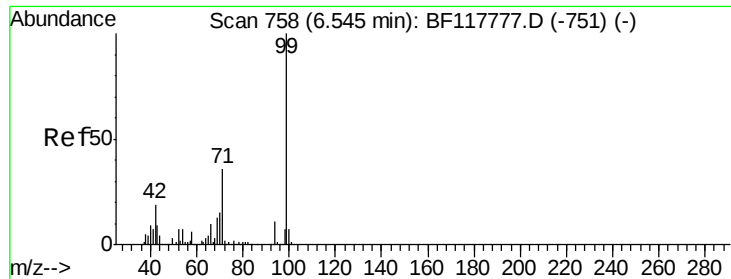
66 37.6 30.6 45.8

65 19.5 15.6 23.4



Abundance Ion 93.00 (92.70 to 93.70): BF1
Ion 66.00 (65.70 to 66.70): BF1
Ion 65.00 (64.70 to 65.70): BF1





#7

Phenol-d6

Concen: 132.291 ng

RT: 6.55 min Scan# 758

Delta R.T. 0.00 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

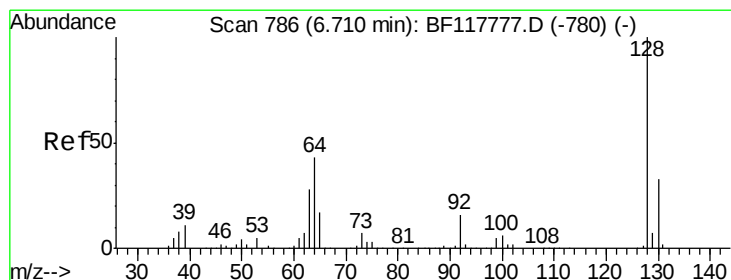
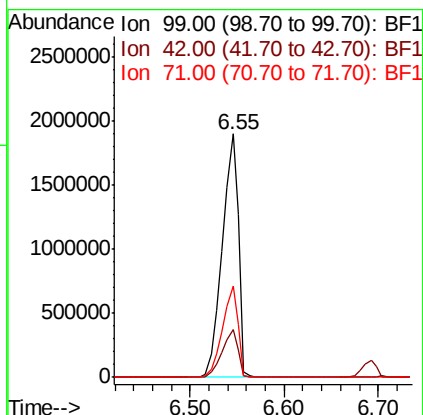
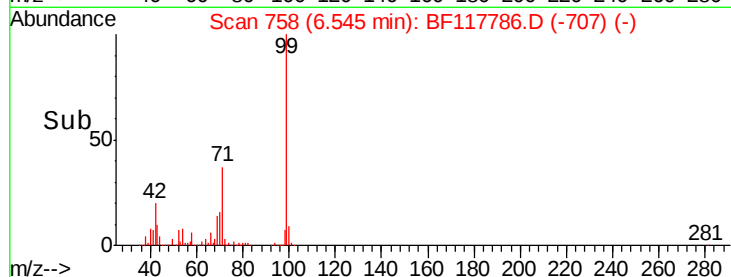
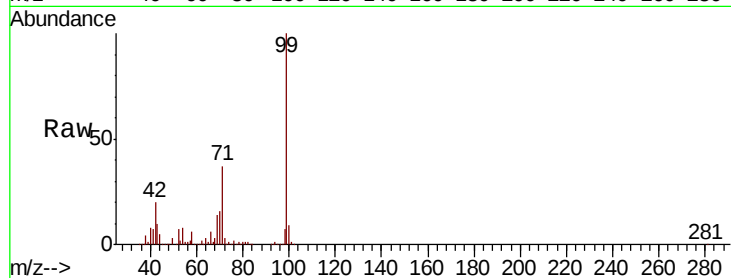
Tot Ion: 99 Resp: 2285184

Ion Ratio Lower Upper

99 100

42 19.8 14.9 22.3

71 37.4 28.6 43.0



#8

2-Chlorophenol

Concen: 8.621 ng

RT: 6.71 min Scan# 786

Delta R.T. 0.00 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

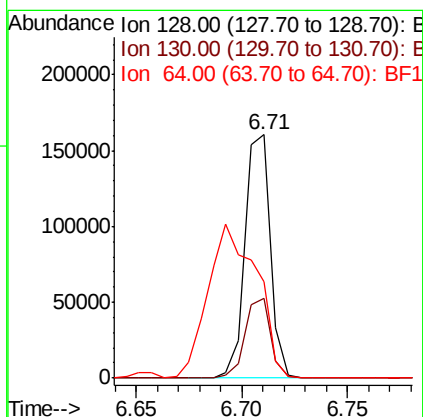
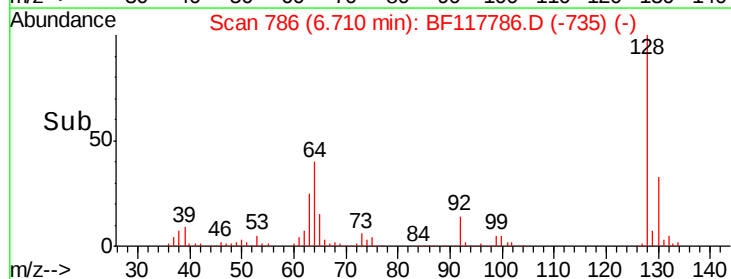
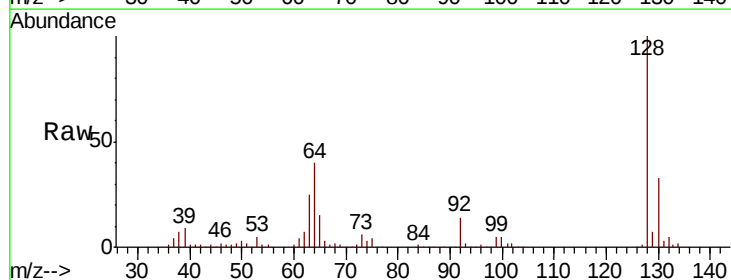
Tgt Ion: 128 Resp: 133978

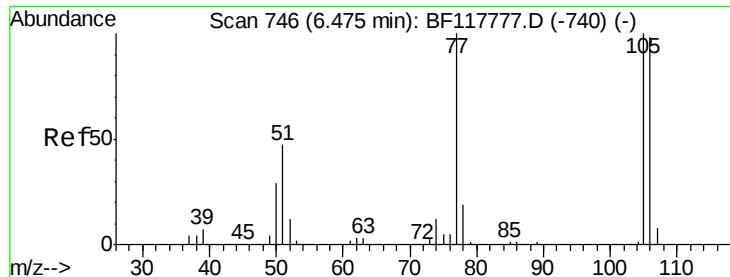
Ion Ratio Lower Upper

128 100

130 32.9 13.2 53.2

64 39.7 23.7 63.7





#9

Benzaldehyde

Concen: 10.161 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

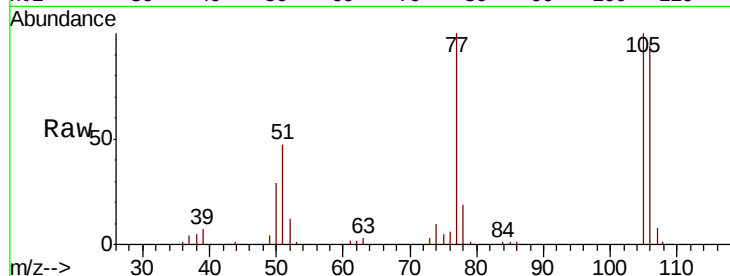
Tot Ion: 77 Resp: 109642

Ion Ratio Lower Upper

77 100

105 99.5 80.2 120.2

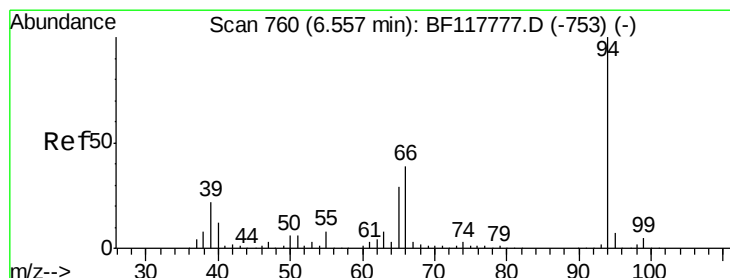
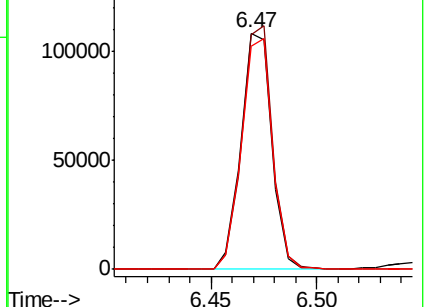
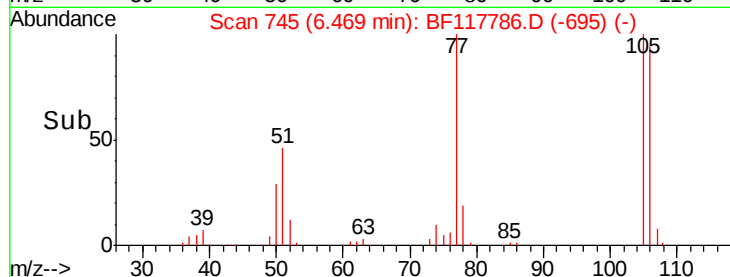
106 94.4 78.4 118.4



Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1



#10

Phenol

Concen: 8.056 ng

RT: 6.56 min Scan# 760

Delta R.T. 0.00 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

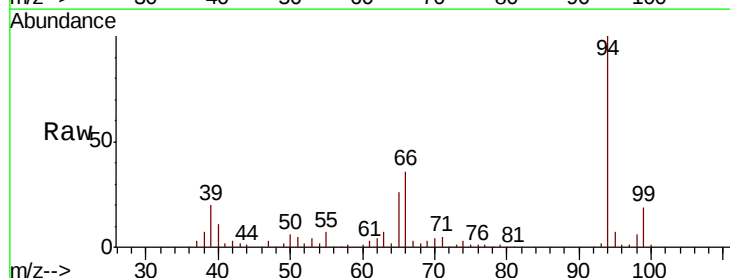
Tgt Ion: 94 Resp: 144603

Ion Ratio Lower Upper

94 100

65 26.0 8.9 48.9

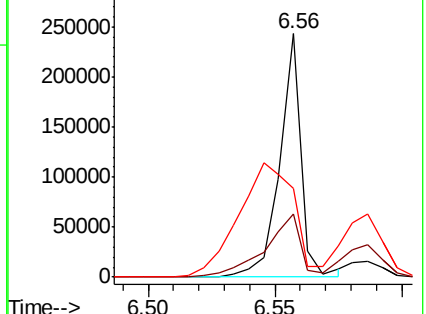
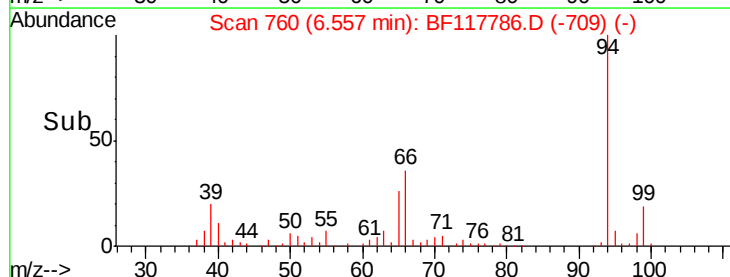
66 36.5 18.7 58.7

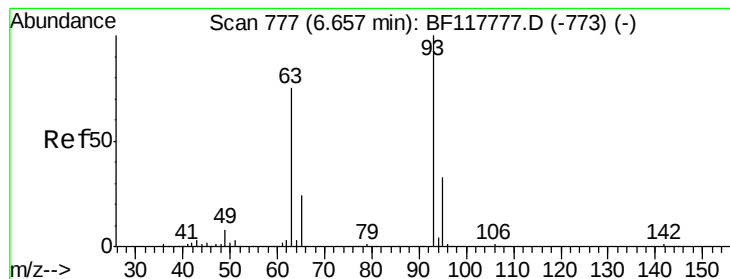


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1





#11

bis(2-Chloroethyl)ether

Concen: 8.411 ng

RT: 6.66 min Scan# 777

Delta R.T. 0.00 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

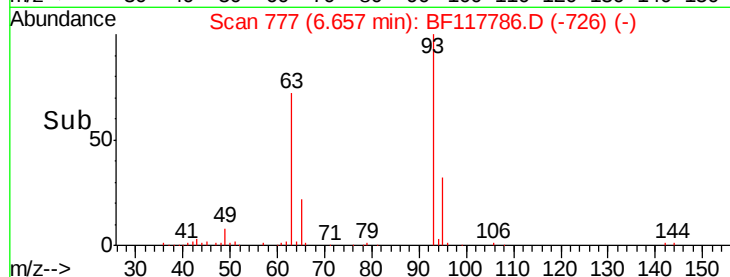
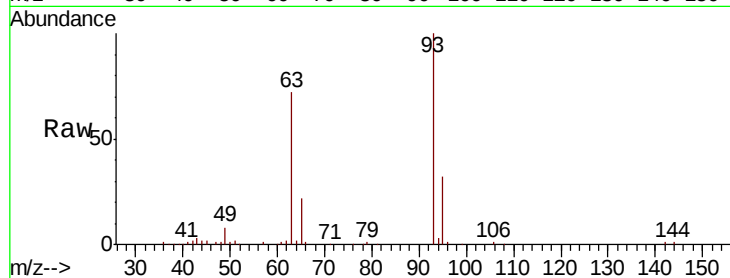
Tot Ion: 93 Resp: 121235

Ion Ratio Lower Upper

93 100

63 71.6 54.8 94.8

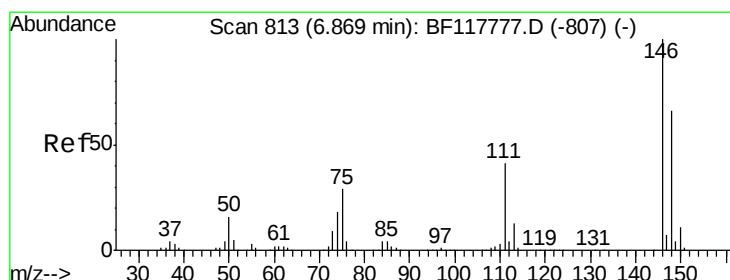
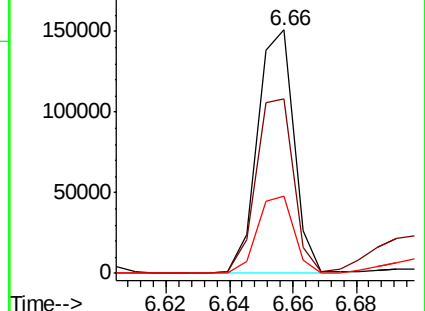
95 31.8 12.7 52.7



Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

Ion 95.00 (94.70 to 95.70): BF1



#12

1,3-Dichlorobenzene

Concen: 8.094 ng

RT: 6.86 min Scan# 812

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

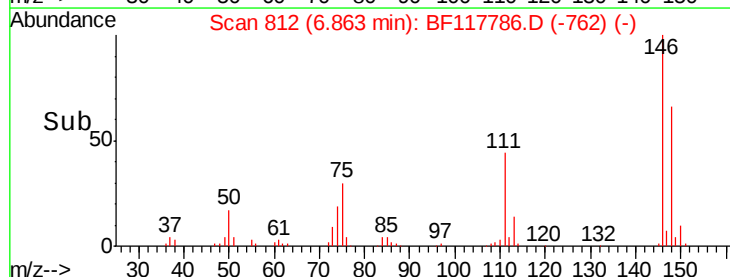
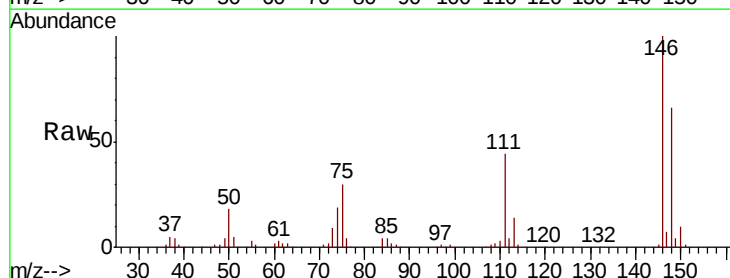
Tgt Ion: 146 Resp: 148088

Ion Ratio Lower Upper

146 100

148 66.1 52.8 79.2

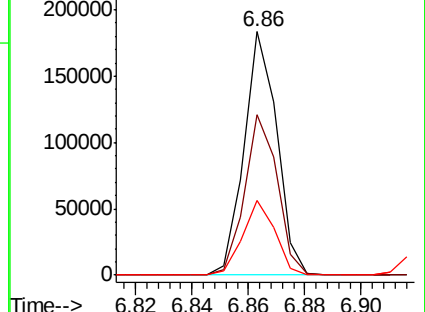
75 30.5 23.4 35.0

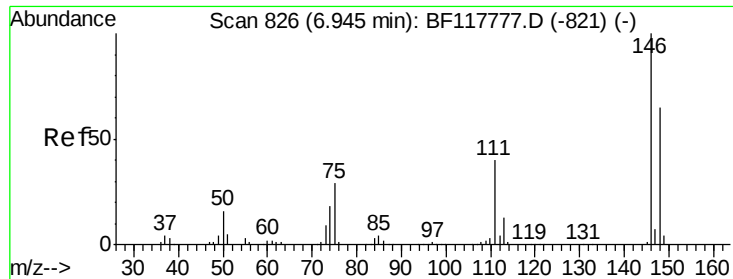


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BF1

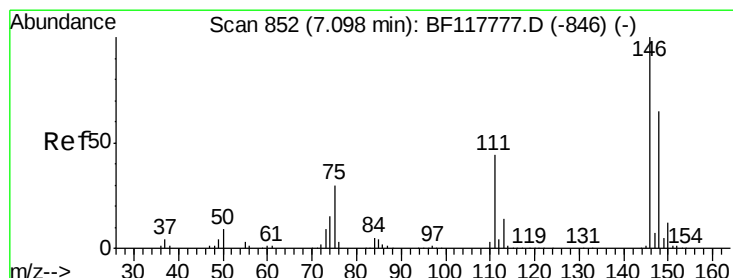
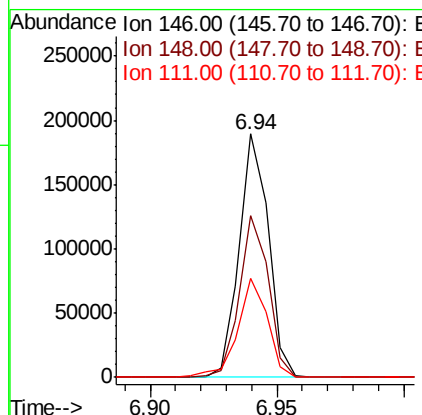
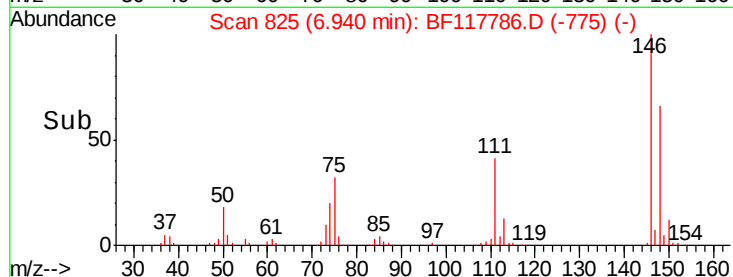
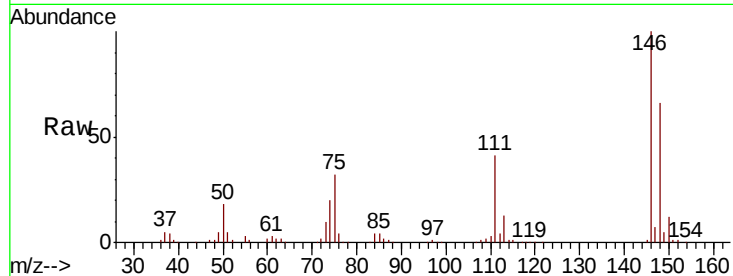




#13
 1,4-Dichlorobenzene
 Concen: 8.183 ng
 RT: 6.94 min Scan# 825
 Delta R.T. -0.01 min
 Lab File: BF117786.D
 Acq: 14 Nov 2019 10:14

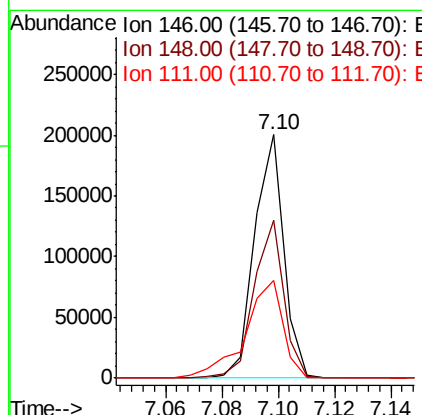
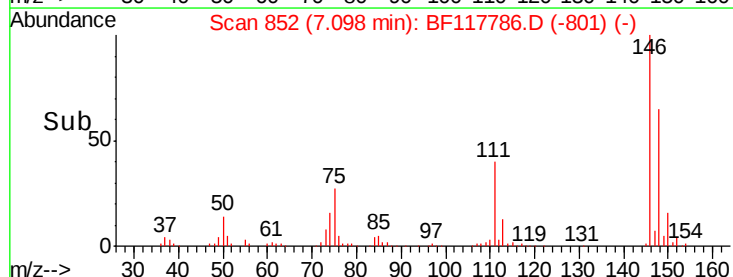
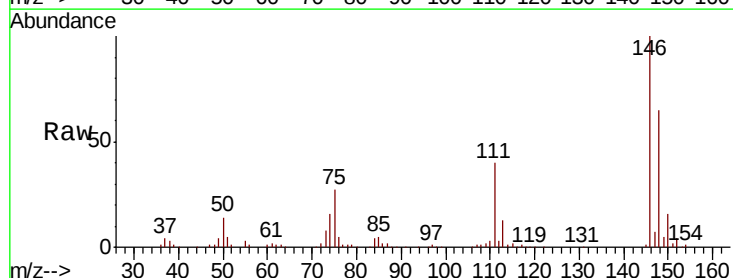
Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

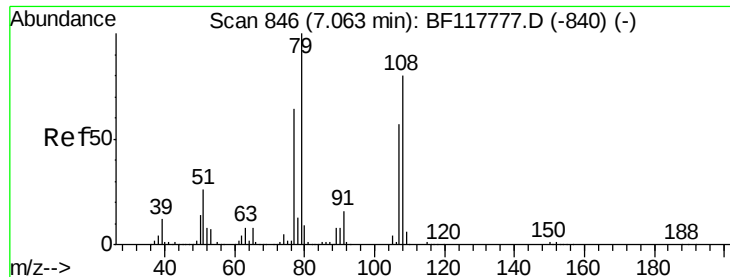
Tot Ion:146 Resp: 151322
 Ion Ratio Lower Upper
 146 100
 148 66.3 52.3 78.5
 111 40.8 32.2 48.4



#14
 1,2-Dichlorobenzene
 Concen: 8.121 ng
 RT: 7.10 min Scan# 852
 Delta R.T. 0.00 min
 Lab File: BF117786.D
 Acq: 14 Nov 2019 10:14

Tgt Ion:146 Resp: 143636
 Ion Ratio Lower Upper
 146 100
 148 64.6 51.8 77.8
 111 40.1 35.0 52.6





#15

Benzyl Alcohol

Concen: 6.886 ng

RT: 7.06 min Scan# 845

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

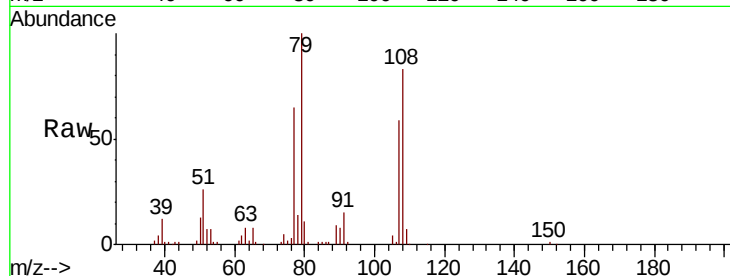
Tot Ion: 79 Resp: 91828

Ion Ratio Lower Upper

79 100

108 82.6 64.1 96.1

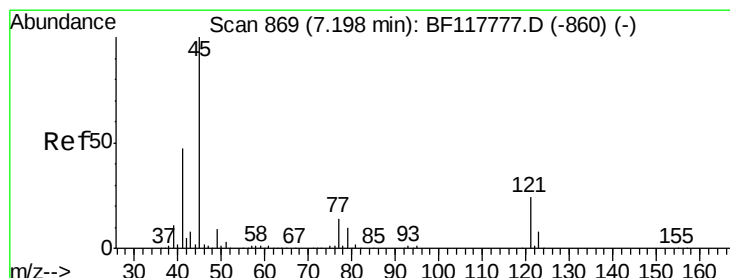
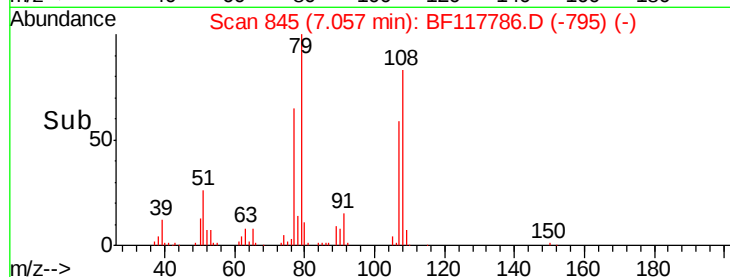
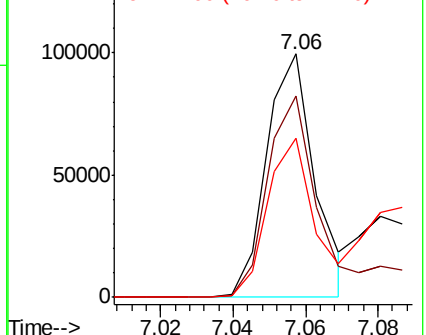
77 65.2 51.3 76.9



Abundance Ion 79.00 (78.70 to 79.70): BF1

Ion 108.00 (107.70 to 108.70): BF1

Ion 77.00 (76.70 to 77.70): BF1



#16

2,2'-oxybis(1-Chloropropane)

Concen: 7.881 ng

RT: 7.19 min Scan# 868

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

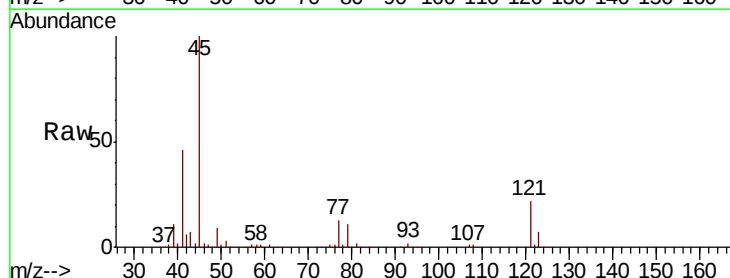
Tgt Ion: 45 Resp: 174900

Ion Ratio Lower Upper

45 100

77 13.4 0.0 35.0

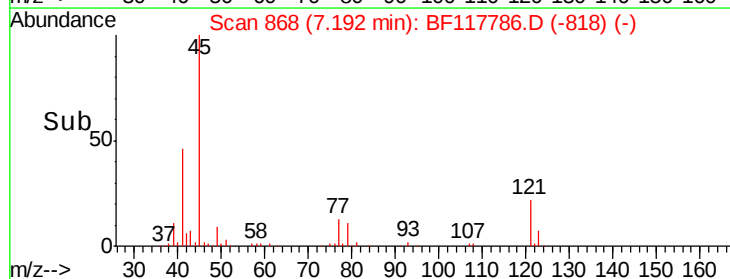
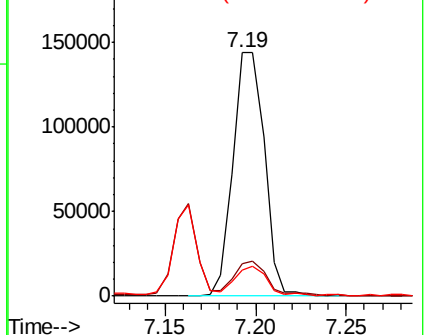
79 10.8 0.0 31.1

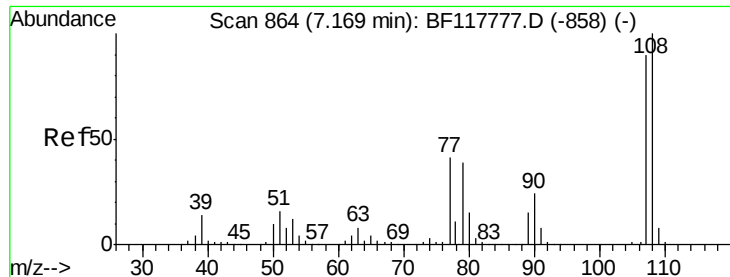


Abundance Ion 45.00 (44.70 to 45.70): BF1

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1

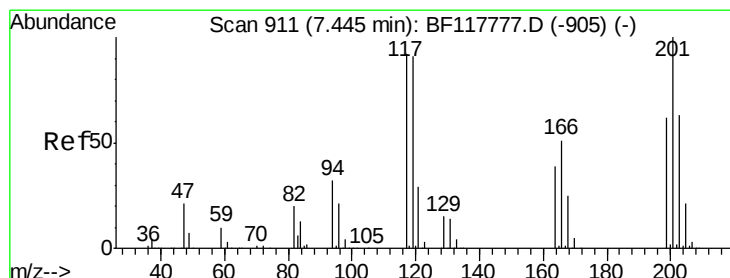
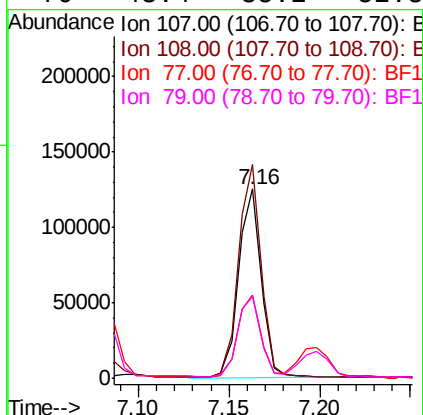
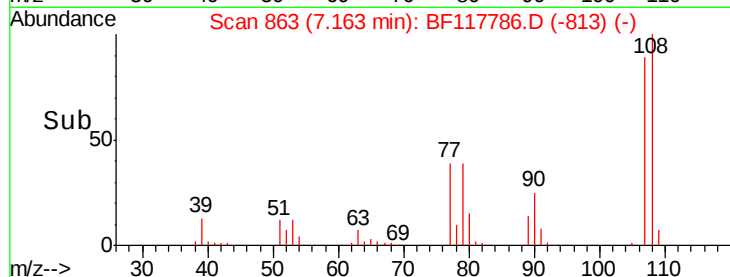
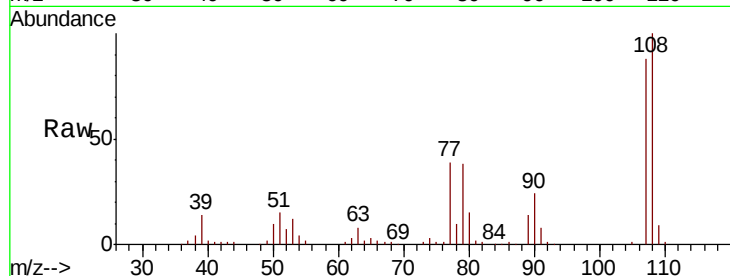




#17
2-Methylphenol
Concen: 8.298 ng
RT: 7.16 min Scan# 863
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

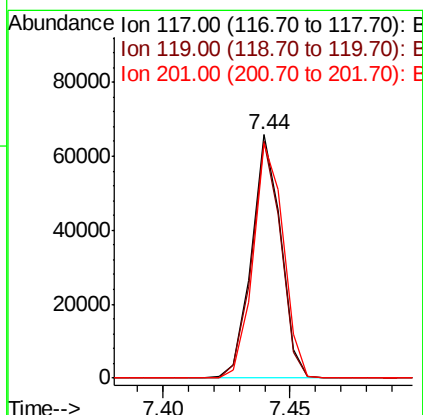
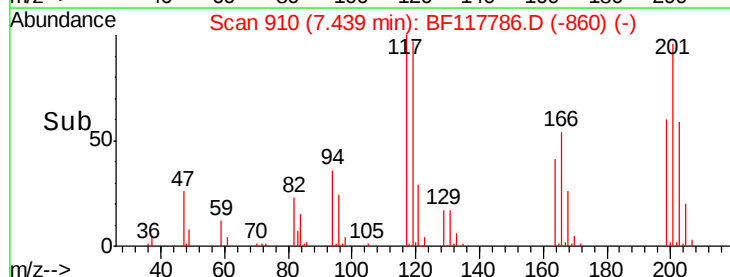
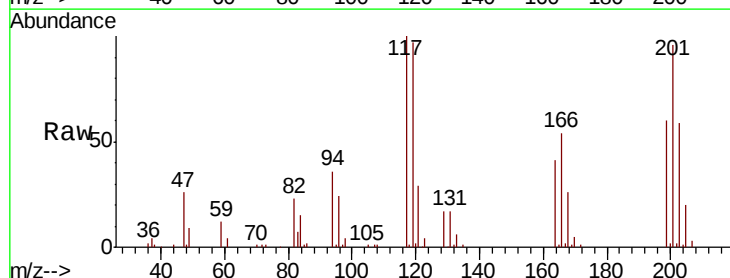
Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

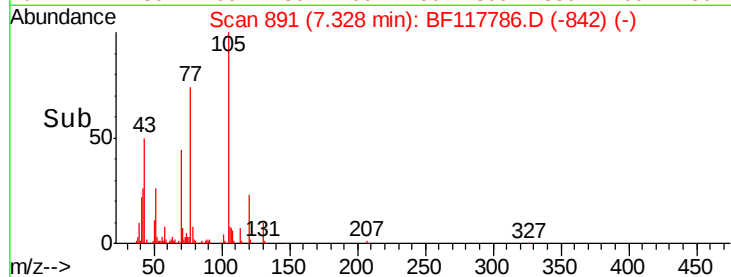
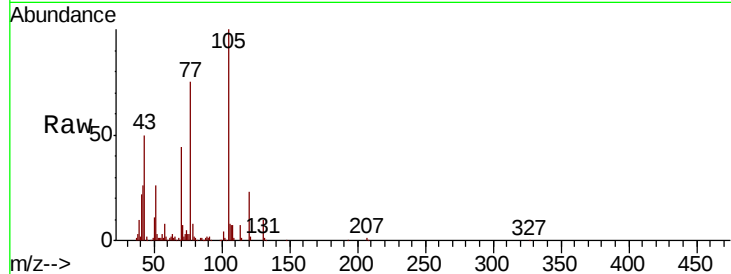
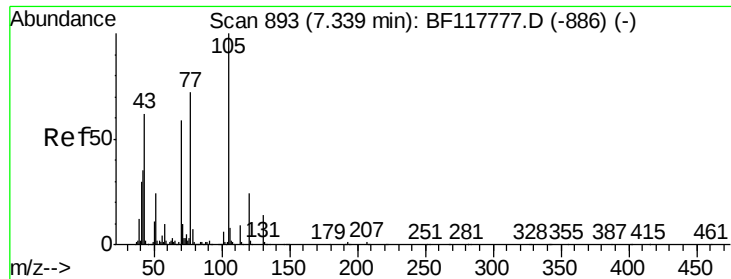
Tot Ion:107 Resp: 109204
Ion Ratio Lower Upper
107 100
108 113.1 89.1 133.7
77 43.8 36.6 54.8
79 43.4 35.2 52.8



#18
Hexachloroethane
Concen: 7.791 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion:117 Resp: 52930
Ion Ratio Lower Upper
117 100
119 97.4 78.7 118.1
201 96.3 86.5 129.7

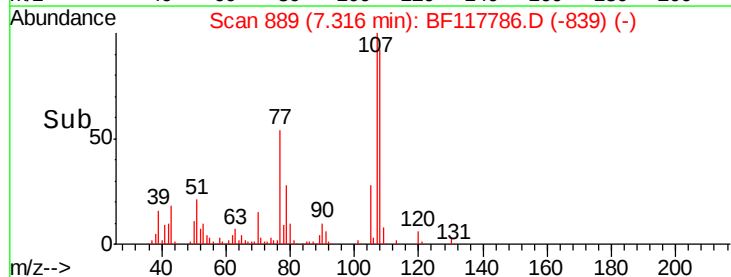
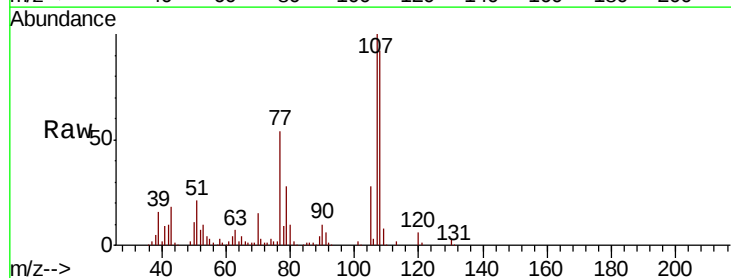
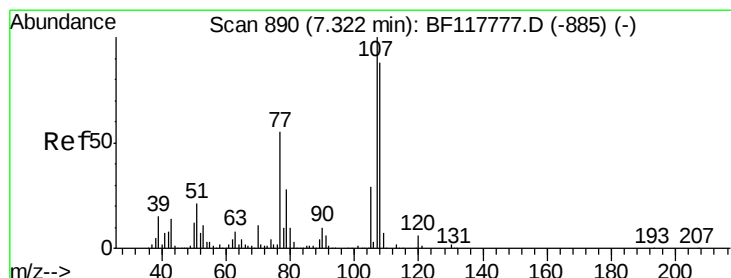
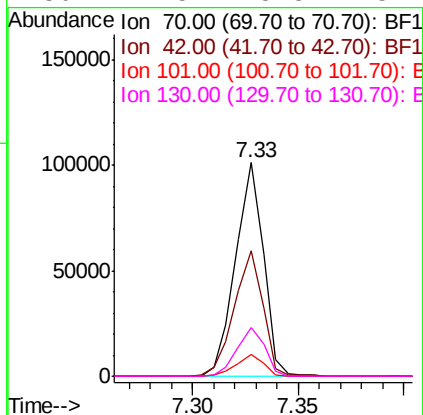




#19
n-Nitroso-di-n-propylamine
Concen: 8.695 ng
RT: 7.33 min Scan# 891
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

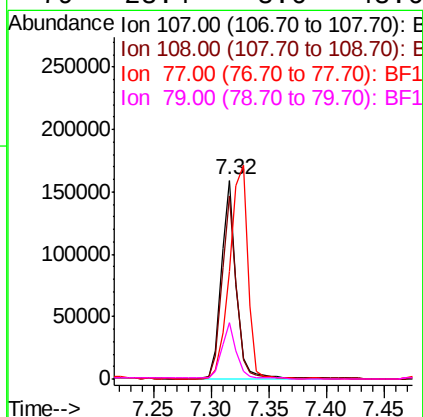
Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

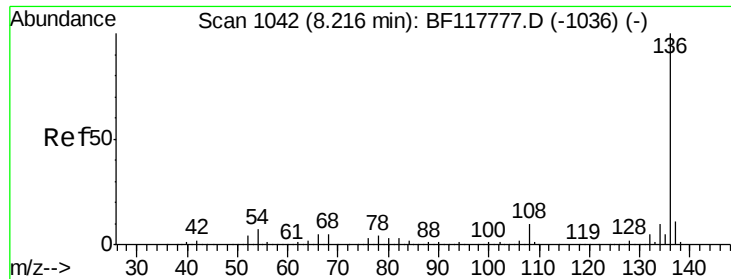
Tot Ion:	70	Resp:	92659
Ion	Ratio	Lower	Upper
70	100		
42	58.8	47.4	71.2
101	10.0	8.4	12.6
130	22.5	18.8	28.2



#20
3+4-Methylphenols
Concen: 8.605 ng
RT: 7.32 min Scan# 889
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion:	107	Resp:	140571
Ion	Ratio	Lower	Upper
107	100		
108	91.9	68.4	108.4
77	54.2	35.2	75.2
79	28.4	8.6	48.6

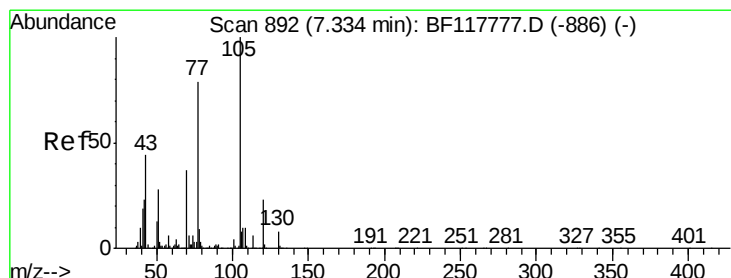
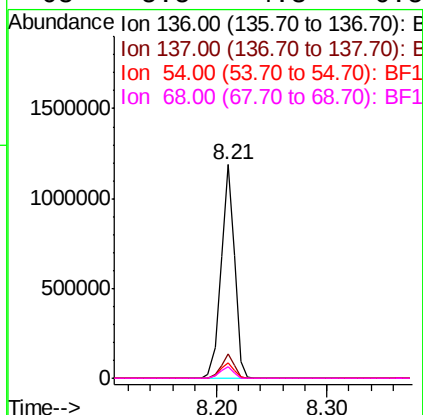
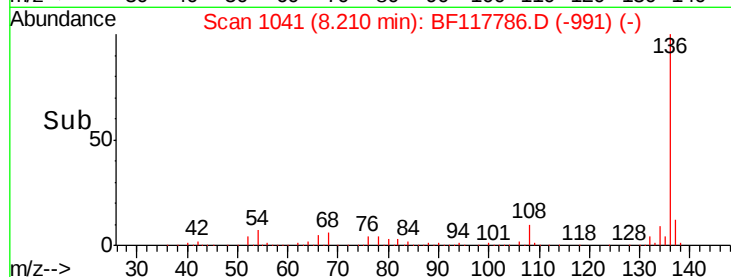
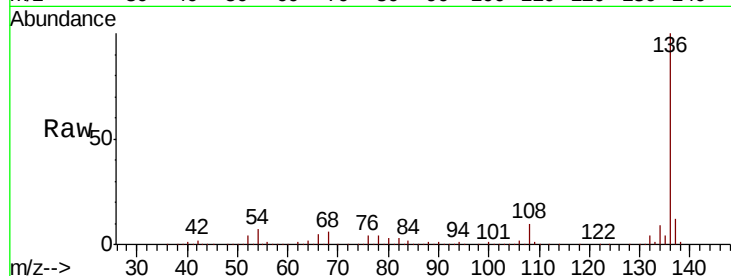




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.21 min Scan# 1041
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

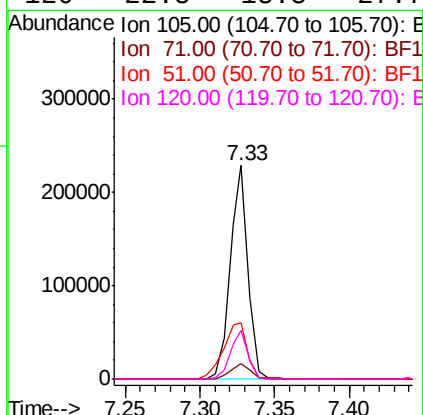
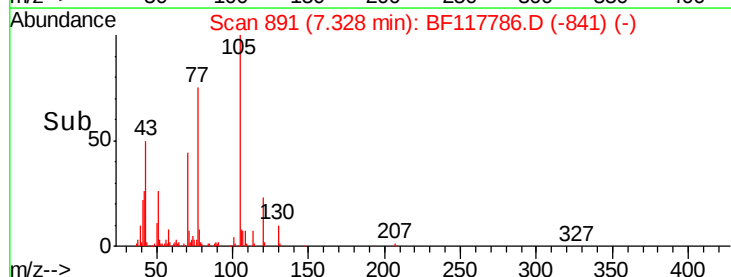
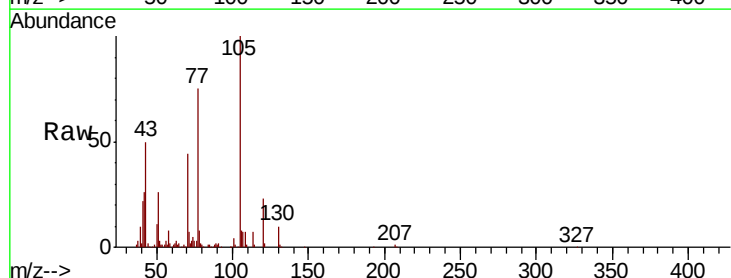
Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

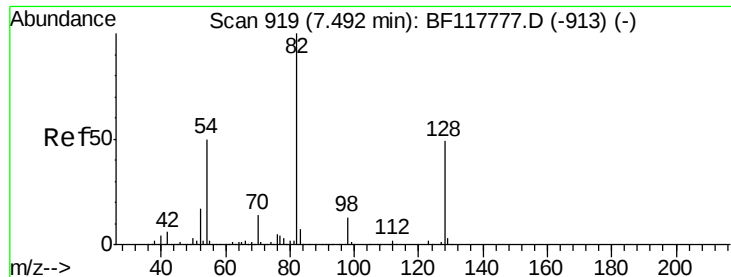
Tot Ion:136	Resp: 1006145
Ion Ratio	Lower Upper
136 100	
137 11.5	9.0 13.4
54 7.4	5.4 8.2
68 5.5	4.3 6.5



#22
Acetophenone
Concen: 8.515 ng
RT: 7.33 min Scan# 891
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt	Ion:105	Resp:	192486
Ion	Ratio	Lower	Upper
105	100		
71	7.3	4.9	7.3
51	26.1	22.7	34.1
120	22.5	18.5	27.7

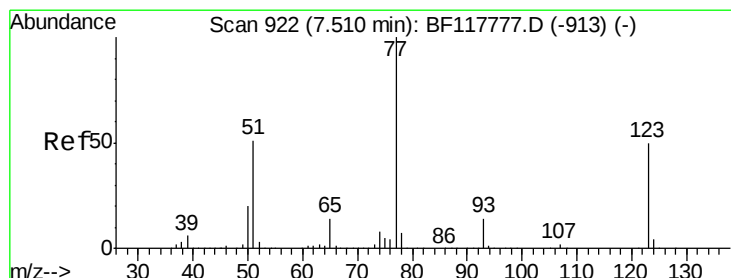
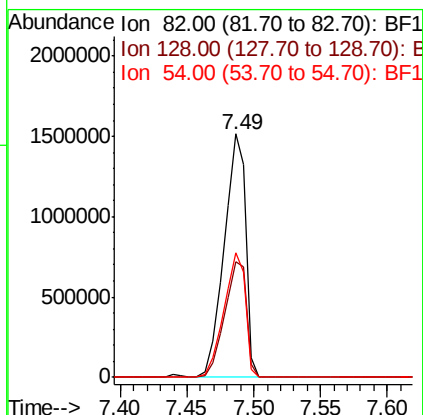
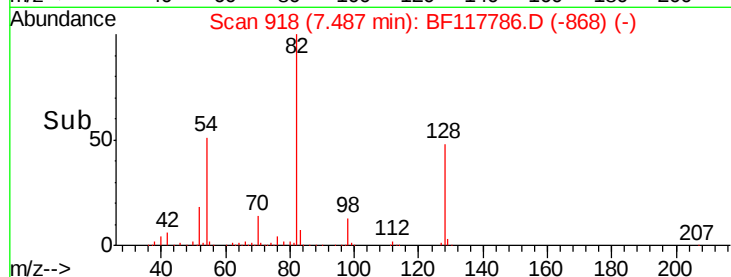
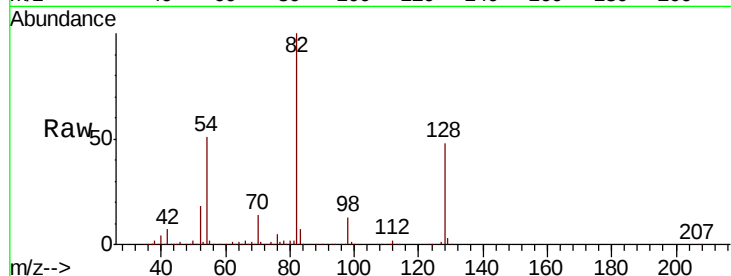




#23
 Nitrobenzene-d5
 Concen: 102.165 ng
 RT: 7.49 min Scan# 918
 Delta R.T. -0.01 min
 Lab File: BF117786.D
 Acq: 14 Nov 2019 10:14

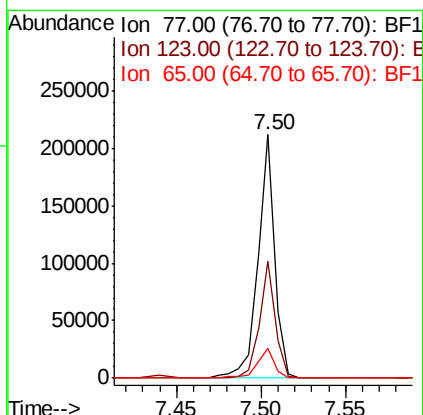
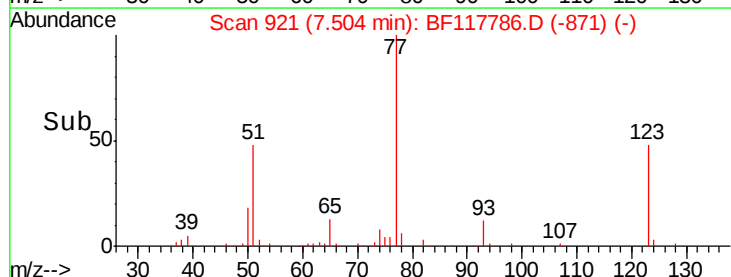
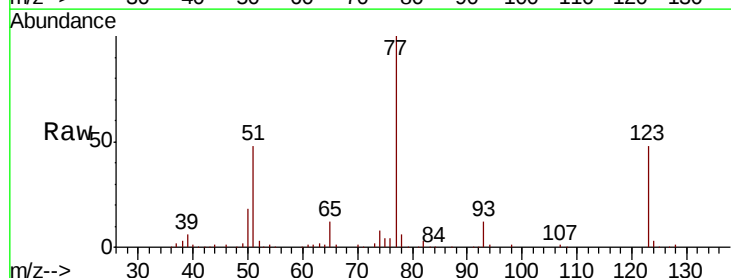
Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

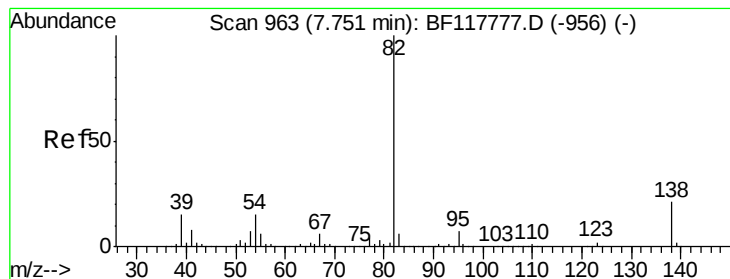
Tot Ion: 82 Resp: 1729191
 Ion Ratio Lower Upper
 82 100
 128 47.7 38.9 58.3
 54 51.2 39.8 59.6



#24
 Nitrobenzene
 Concen: 8.468 ng
 RT: 7.50 min Scan# 921
 Delta R.T. -0.01 min
 Lab File: BF117786.D
 Acq: 14 Nov 2019 10:14

Tgt Ion: 77 Resp: 147861
 Ion Ratio Lower Upper
 77 100
 123 48.1 40.3 60.5
 65 12.4 10.9 16.3





#25

Isophorone

Concen: 8.091 ng

RT: 7.74 min Scan# 961

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

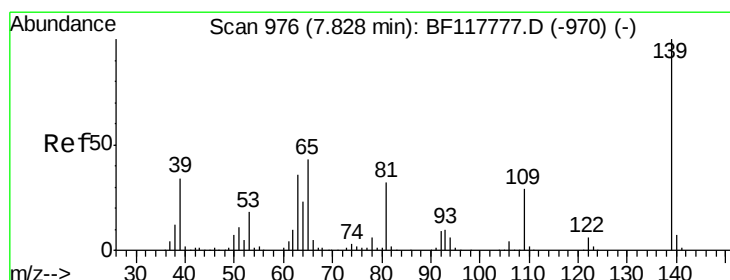
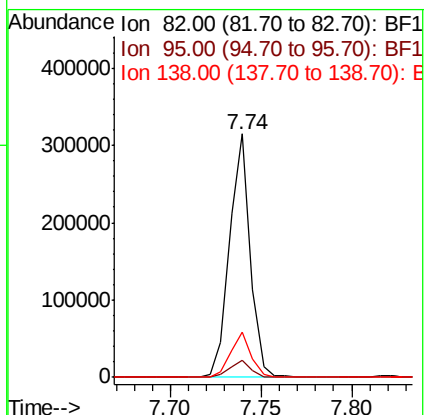
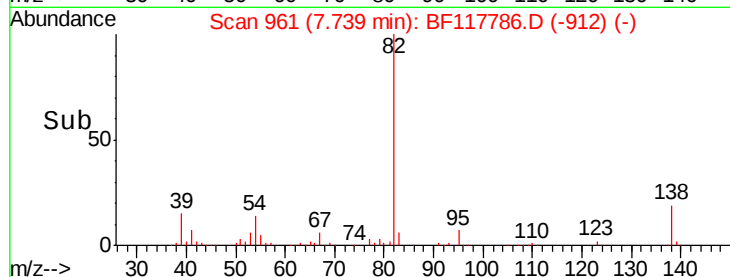
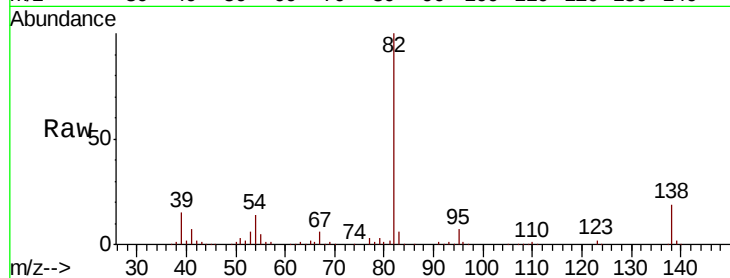
Tot Ion: 82 Resp: 250990

Ion Ratio Lower Upper

82 100

95 7.2 5.8 8.8

138 18.7 16.5 24.7



#26

2-Nitrophenol

Concen: 7.519 ng

RT: 7.82 min Scan# 975

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

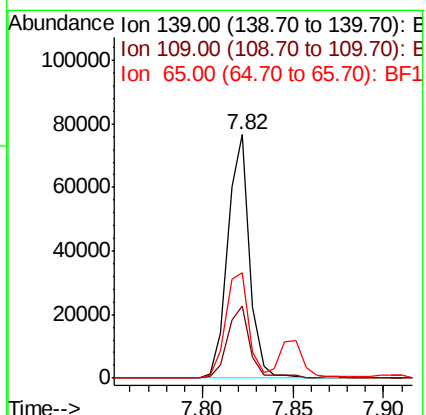
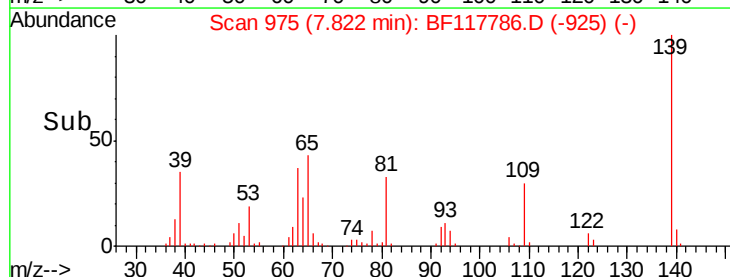
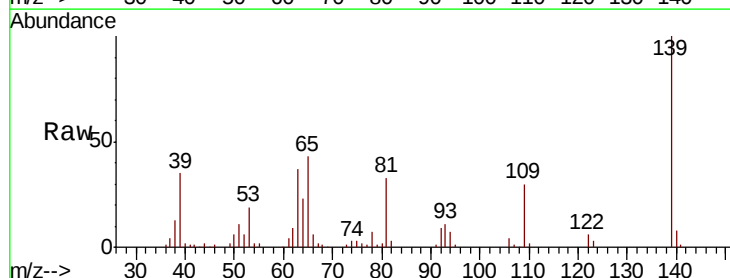
Tgt Ion: 139 Resp: 63898

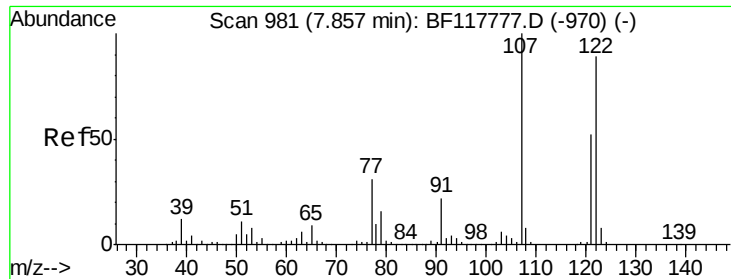
Ion Ratio Lower Upper

139 100

109 29.7 23.0 34.4

65 43.3 34.7 52.1





#27

2,4-Dimethylphenol

Concen: 8.810 ng

RT: 7.85 min Scan# 980

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

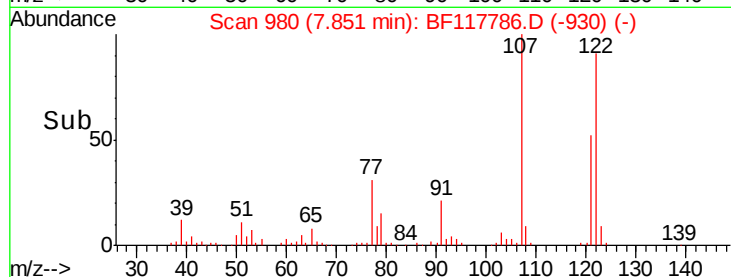
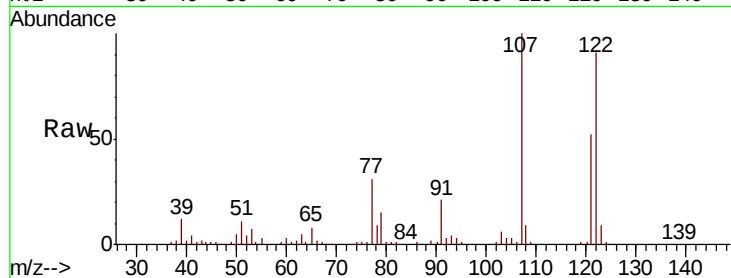
Tot Ion:122 Resp: 116340

Ion Ratio Lower Upper

122 100

107 110.0 90.0 135.0

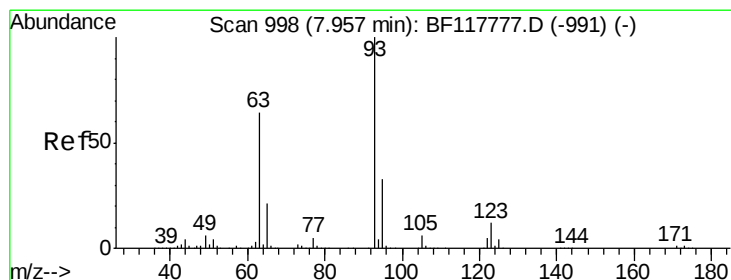
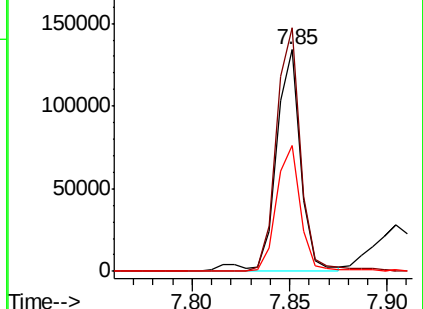
121 57.0 46.7 70.1



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#28

bis(2-Chloroethoxy)methane

Concen: 7.948 ng

RT: 7.95 min Scan# 997

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

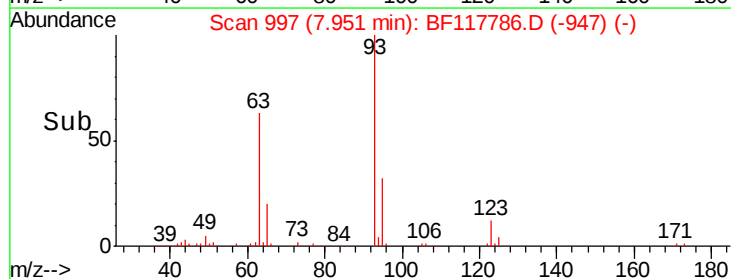
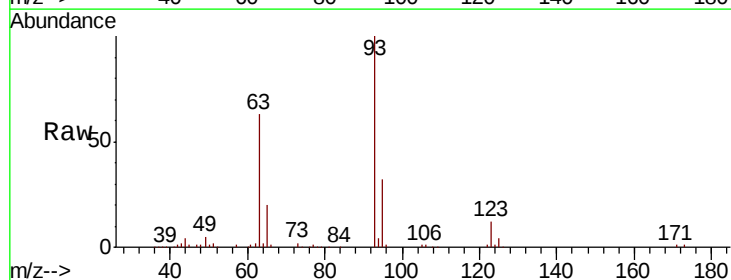
Tgt Ion: 93 Resp: 156466

Ion Ratio Lower Upper

93 100

95 31.9 26.6 40.0

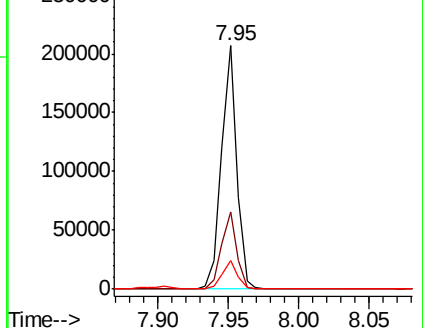
123 11.6 10.3 15.5

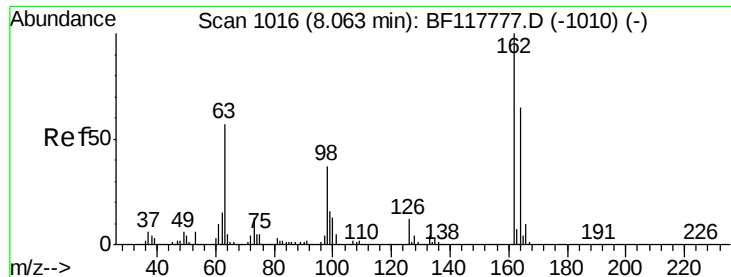


Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 123.00 (122.70 to 123.70): E

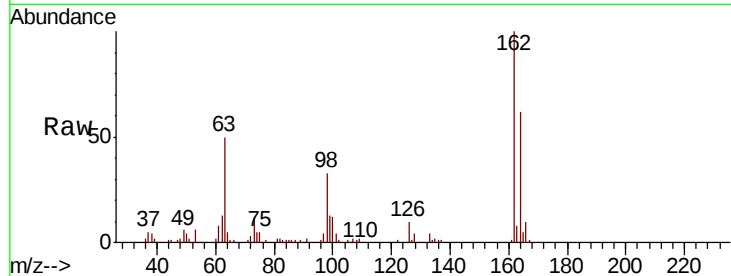




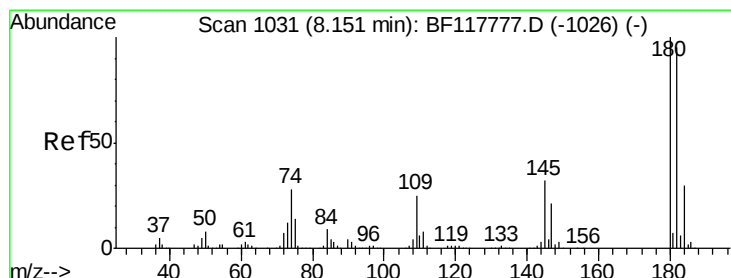
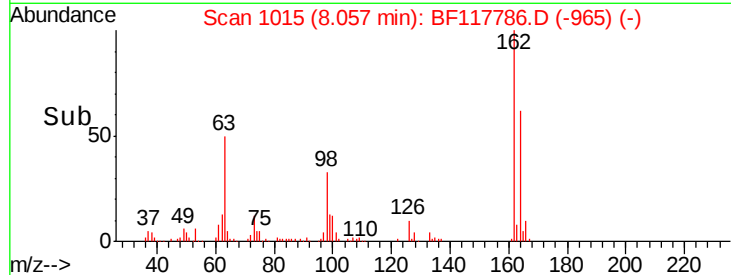
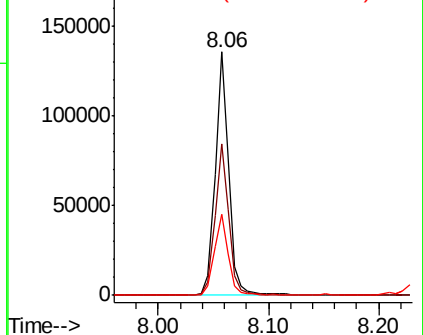
#29
2,4-Dichlorophenol
Concen: 8.004 ng
RT: 8.06 min Scan# 1015
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:162 Resp: 114659
Ion Ratio Lower Upper
162 100
164 62.2 45.1 85.1
98 33.2 17.2 57.2

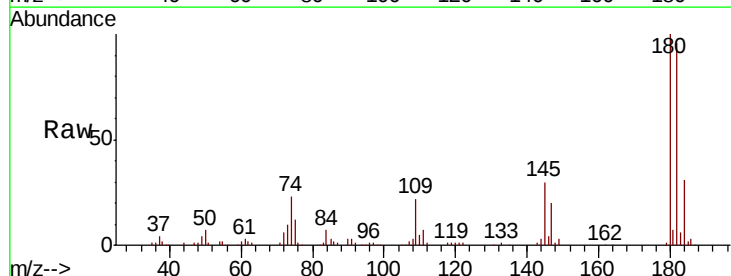


Abundance Ion 162.00 (161.70 to 162.70): E
Ion 164.00 (163.70 to 164.70): E
Ion 98.00 (97.70 to 98.70): BF1

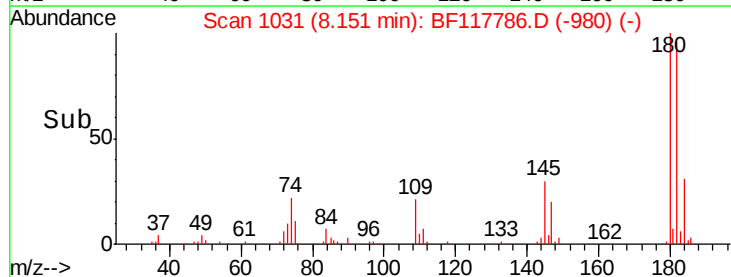
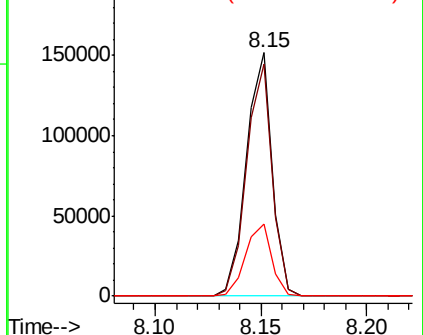


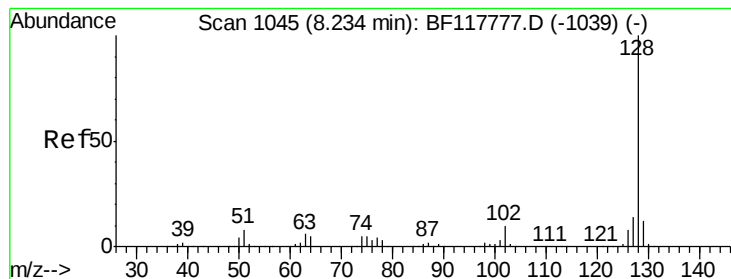
#30
1,2,4-Trichlorobenzene
Concen: 7.740 ng
RT: 8.15 min Scan# 1031
Delta R.T. 0.00 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion:180 Resp: 128612
Ion Ratio Lower Upper
180 100
182 95.5 75.8 113.6
145 29.7 25.5 38.3



Abundance Ion 180.00 (179.70 to 180.70): E
Ion 182.00 (181.70 to 182.70): E
Ion 145.00 (144.70 to 145.70): E





#31

Naphthalene

Concen: 8.804 ng

RT: 8.23 min Scan# 1045

Delta R.T. 0.00 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

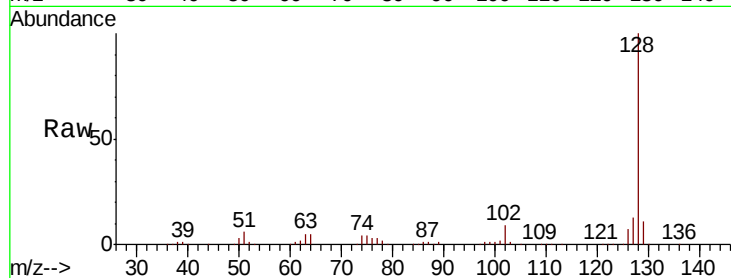
Tot Ion:128 Resp: 412942

Ion Ratio Lower Upper

128 100

129 10.9 9.5 14.3

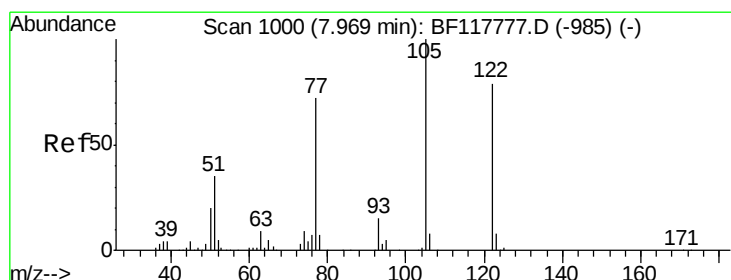
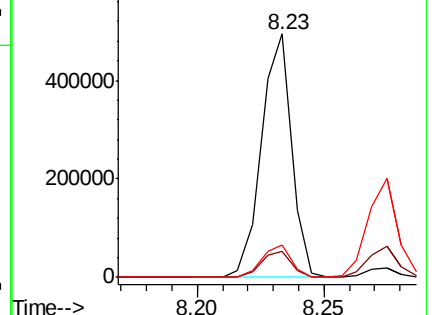
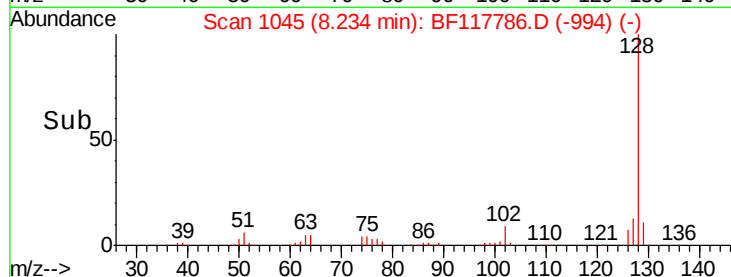
127 13.1 11.3 16.9



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 4.114 ng

RT: 7.90 min Scan# 989

Delta R.T. -0.06 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

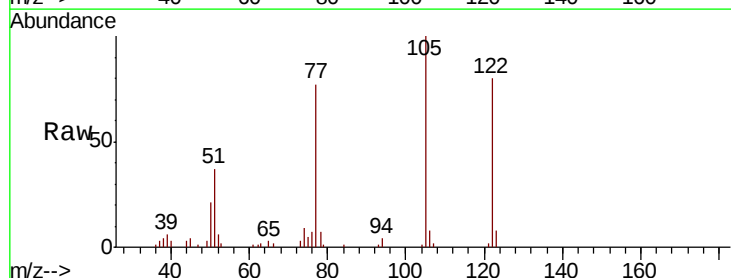
Tgt Ion:122 Resp: 45488

Ion Ratio Lower Upper

122 100

105 125.6 102.7 142.7

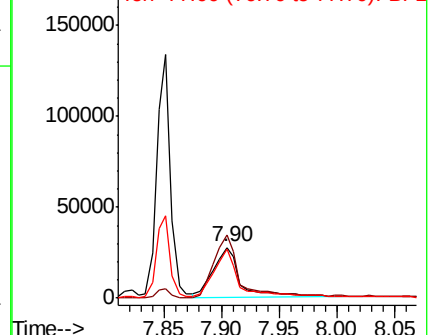
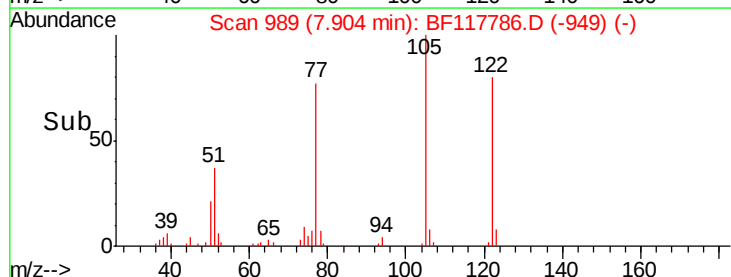
77 96.8 70.5 110.5

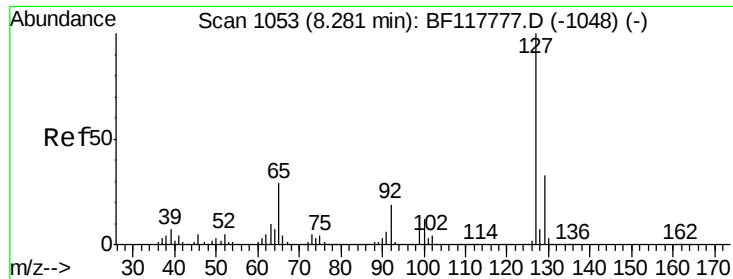


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

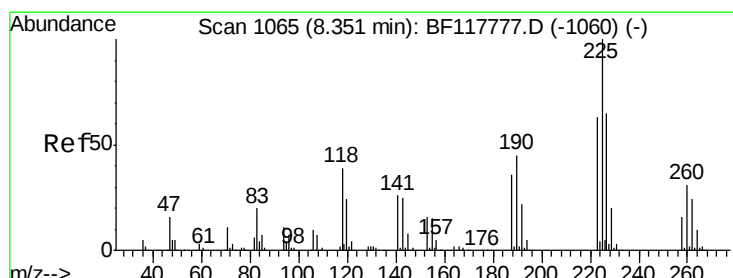
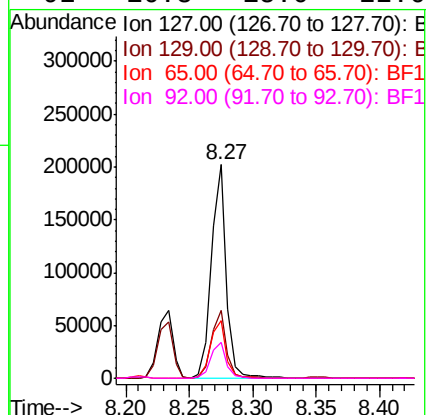
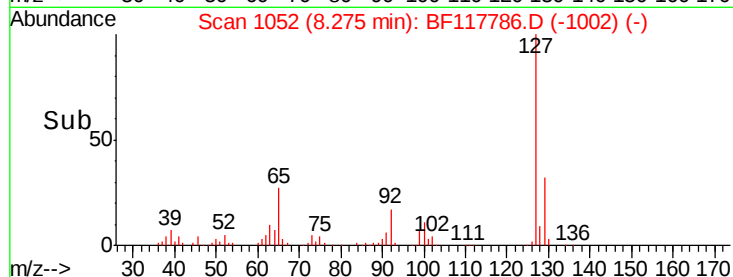
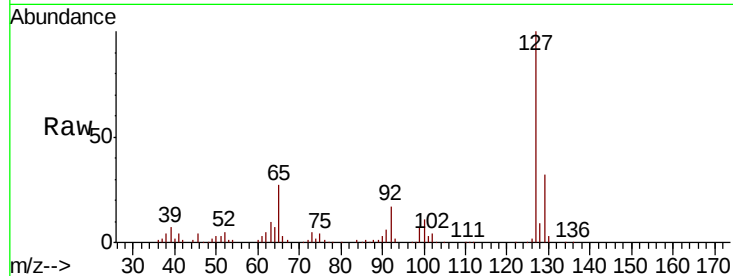




#33
4-Chloroaniline
Concen: 7.987 ng
RT: 8.27 min Scan# 1052
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

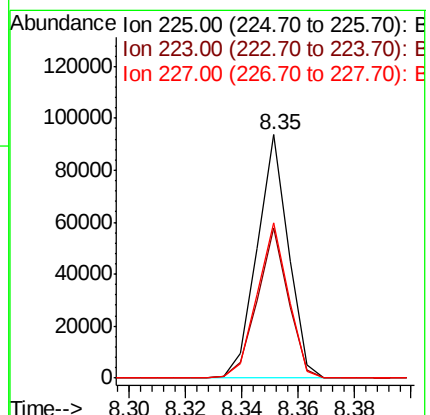
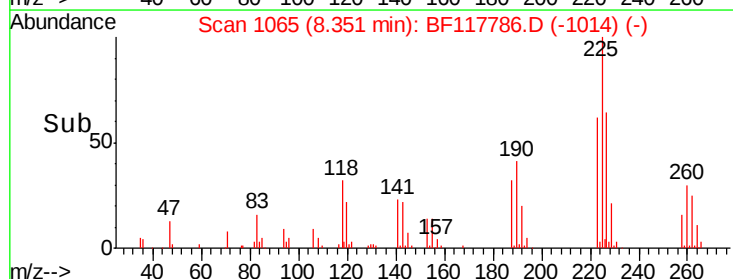
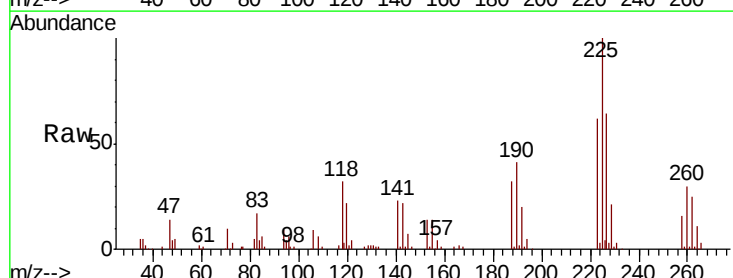
Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

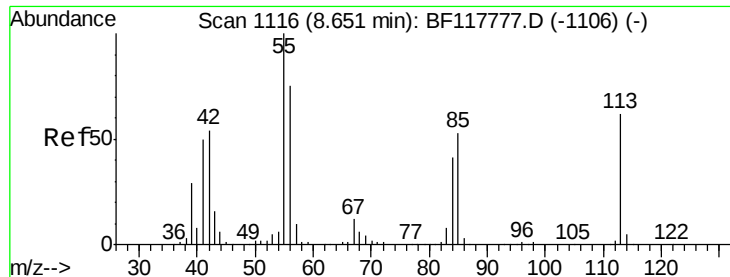
Tot Ion:	127	Resp:	167712
Ion	Ratio	Lower	Upper
127	100		
129	31.6	26.5	39.7
65	26.8	22.9	34.3
92	16.8	15.0	22.6



#34
Hexachlorobutadiene
Concen: 7.424 ng
RT: 8.35 min Scan# 1065
Delta R.T. 0.00 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion:	225	Resp:	72119
Ion	Ratio	Lower	Upper
225	100		
223	61.9	50.0	75.0
227	63.9	51.8	77.6

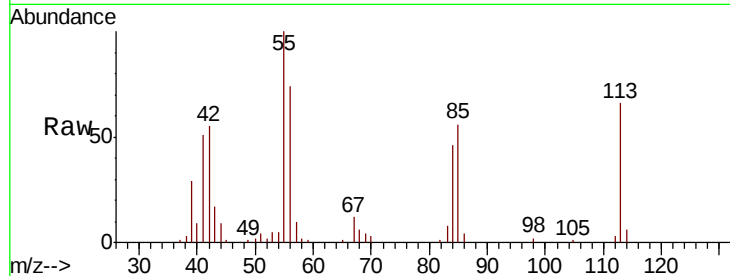




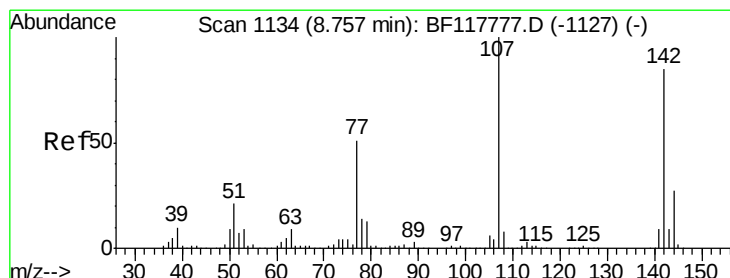
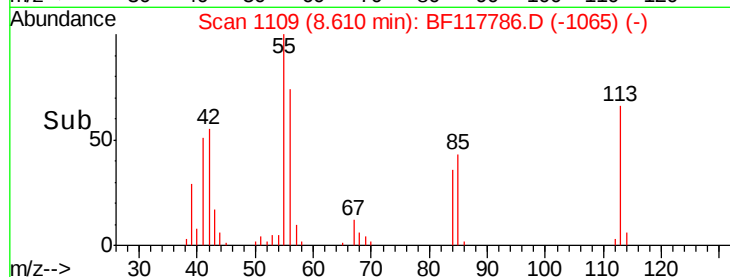
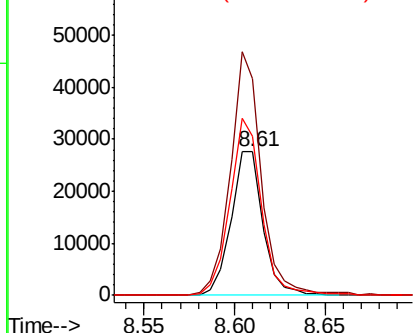
#35
Caprolactam
Concen: 7.438 ng
RT: 8.61 min Scan# 1109
Delta R.T. -0.04 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:113 Resp: 33861
Ion Ratio Lower Upper
113 100
55 150.4 141.1 181.1
56 111.0 100.5 140.5

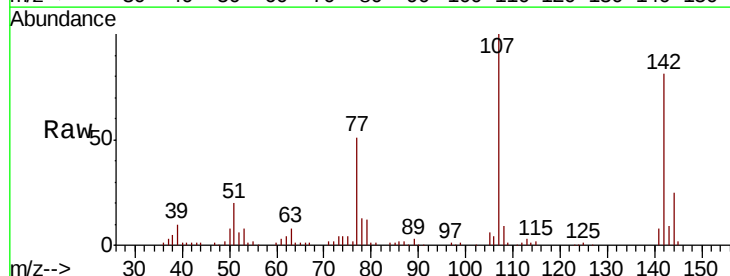


Abundance Ion 113.00 (112.70 to 113.70): E
Ion 55.00 (54.70 to 55.70): BF1
Ion 56.00 (55.70 to 56.70): BF1

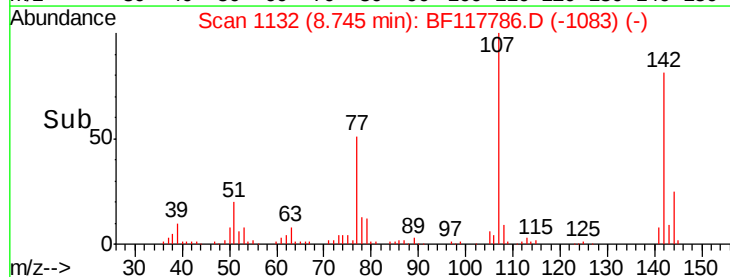
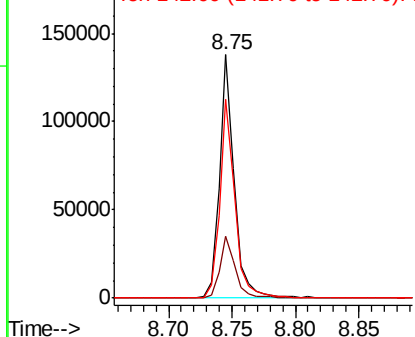


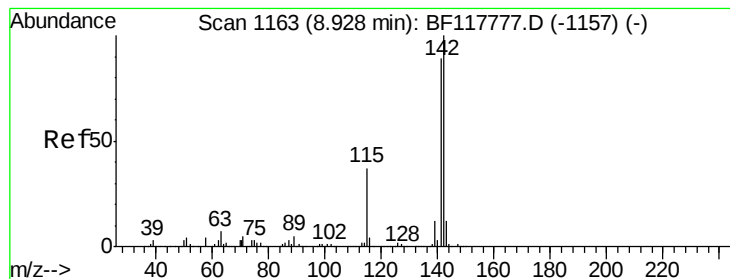
#36
4-Chloro-3-methylphenol
Concen: 7.874 ng
RT: 8.75 min Scan# 1132
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion:107 Resp: 114467
Ion Ratio Lower Upper
107 100
144 25.4 21.9 32.9
142 81.4 67.7 101.5



Abundance Ion 107.00 (106.70 to 107.70): E
Ion 144.00 (143.70 to 144.70): E
Ion 142.00 (141.70 to 142.70): E





#37

2-Methylnaphthalene

Concen: 8.777 ng

RT: 8.92 min Scan# 1162

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

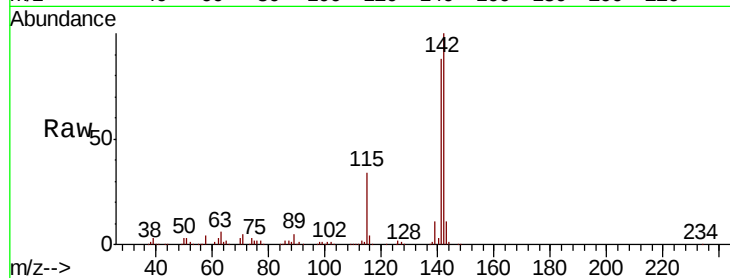
Tot Ion:142 Resp: 278177

Ion Ratio Lower Upper

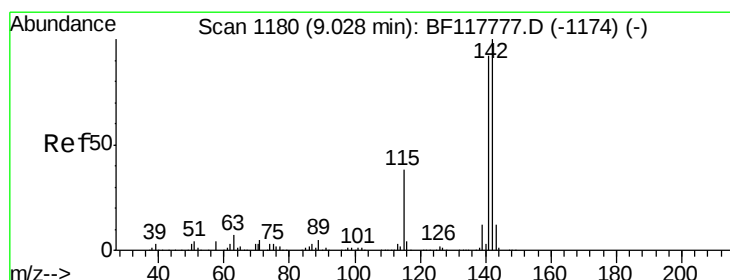
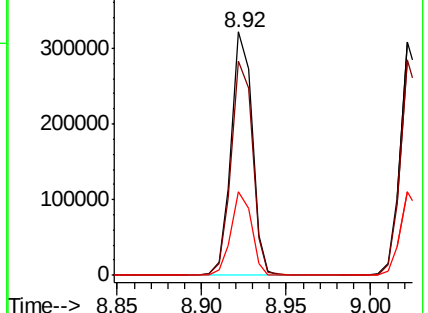
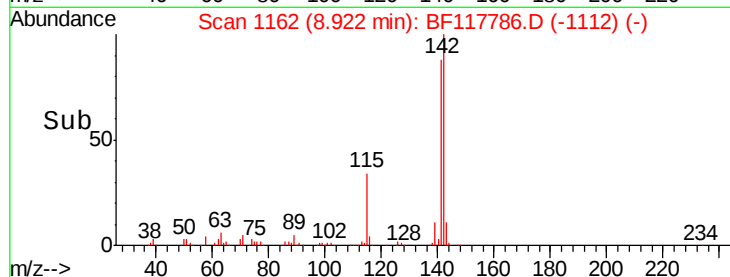
142 100

141 88.0 71.1 106.7

115 34.4 29.2 43.8



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#38

1-Methylnaphthalene

Concen: 8.734 ng

RT: 9.02 min Scan# 1179

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

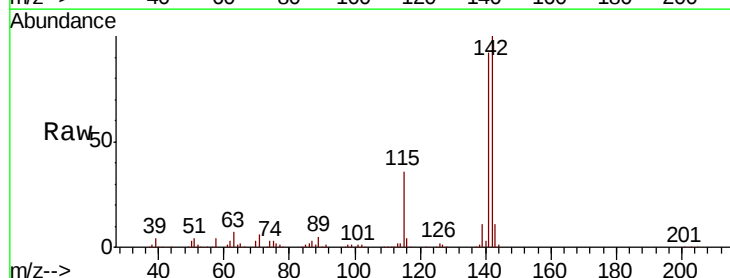
Tgt Ion:142 Resp: 261694

Ion Ratio Lower Upper

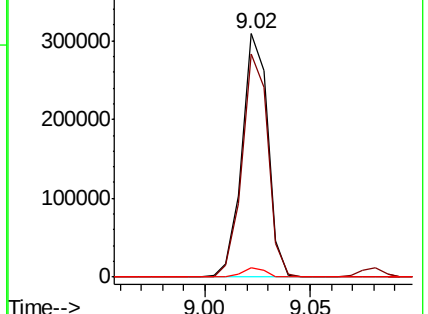
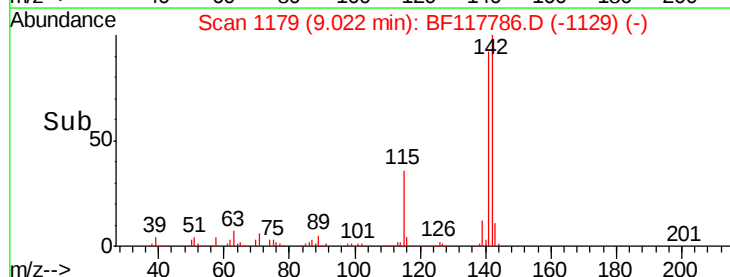
142 100

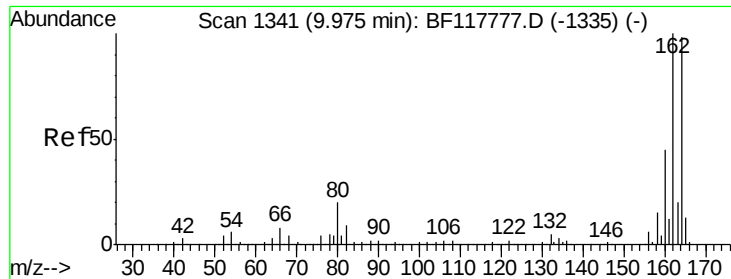
141 91.9 73.5 110.3

116 3.9 3.2 4.8



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E

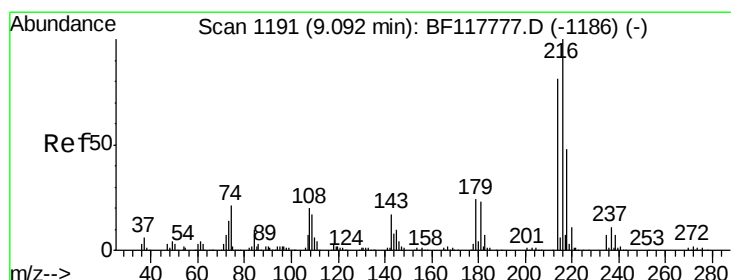
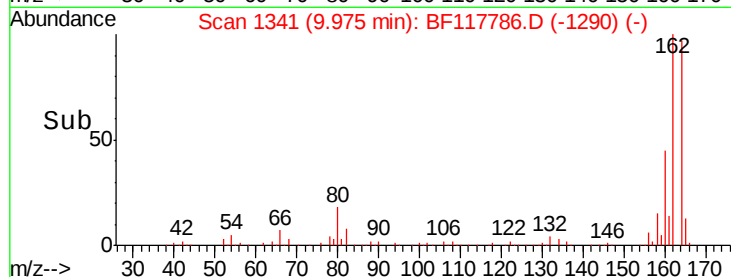
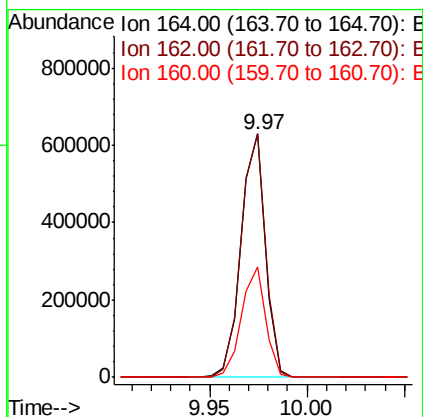
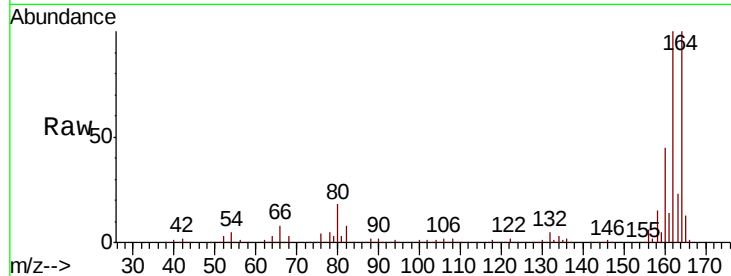




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.97 min Scan# 1341
Delta R.T. 0.00 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

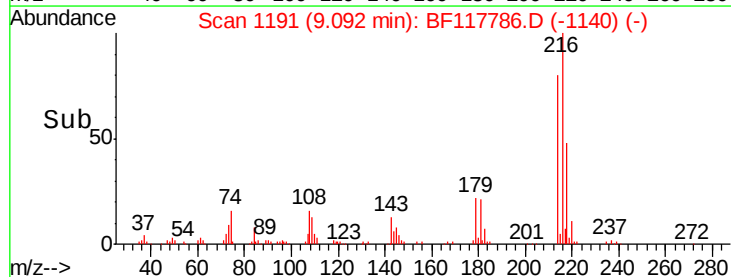
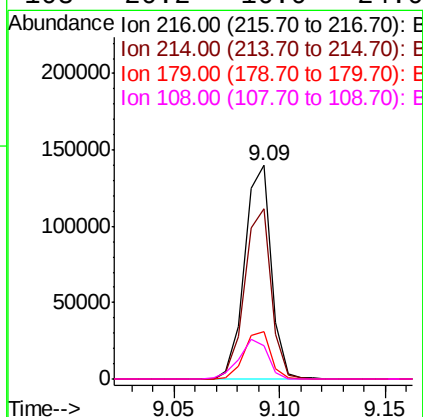
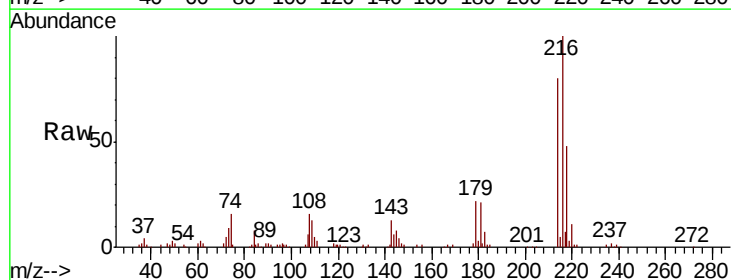
Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

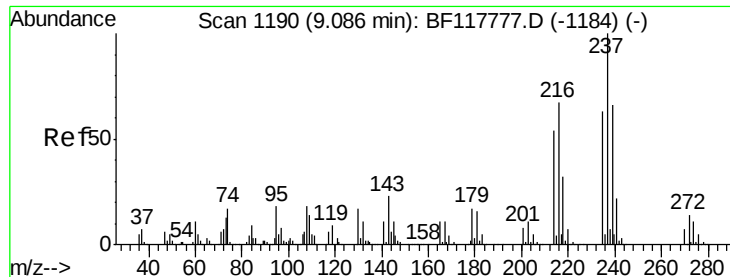
Tot Ion:164 Resp: 542023
Ion Ratio Lower Upper
164 100
162 100.2 81.3 121.9
160 45.4 36.6 55.0



#40
1,2,4,5-Tetrachlorobenzene
Concen: 7.753 ng
RT: 9.09 min Scan# 1191
Delta R.T. 0.00 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion:216 Resp: 122035
Ion Ratio Lower Upper
216 100
214 79.5 63.4 95.0
179 22.1 18.2 27.4
108 20.2 16.0 24.0





#41

Hexachlorocyclopentadiene

Concen: 7.564 ng

RT: 9.08 min Scan# 1189

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

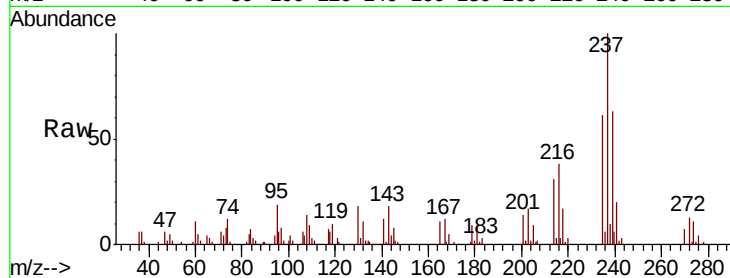
Tot Ion:237 Resp: 66723

Ion Ratio Lower Upper

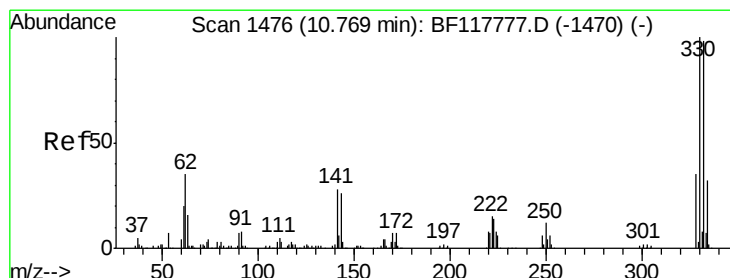
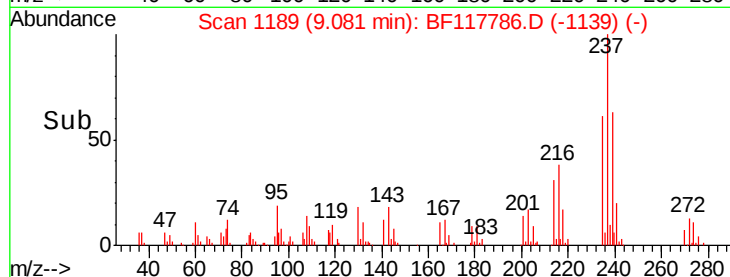
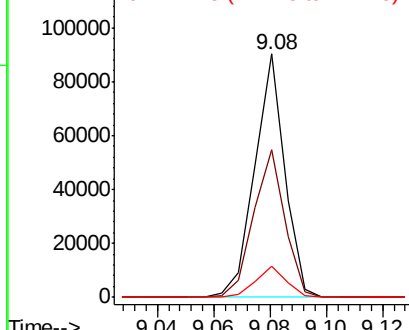
237 100

235 60.7 42.6 82.6

272 12.8 0.0 34.3



Abundance Ion 236.80 (236.50 to 237.50): E
Ion 234.90 (234.60 to 235.60): E
Ion 271.75 (271.45 to 272.45): E



#42

2,4,6-Tribromophenol

Concen: 133.275 ng

RT: 10.77 min Scan# 1476

Delta R.T. 0.00 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

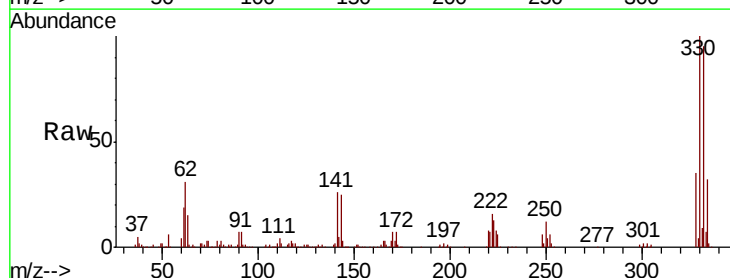
Tgt Ion:330 Resp: 764777

Ion Ratio Lower Upper

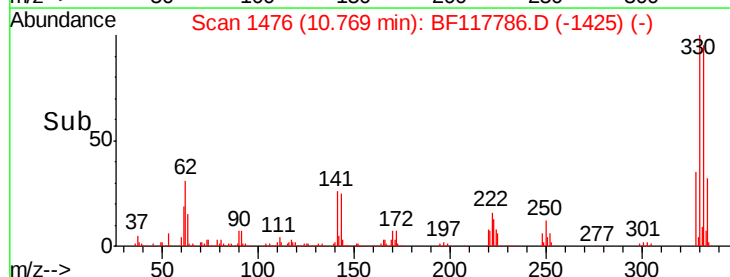
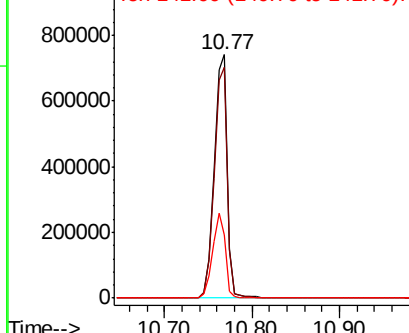
330 100

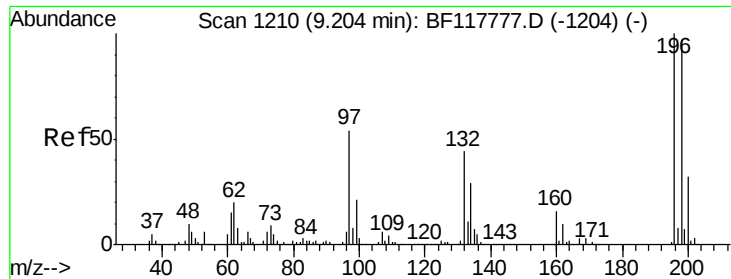
332 95.2 76.7 115.1

141 34.1 27.7 41.5



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E

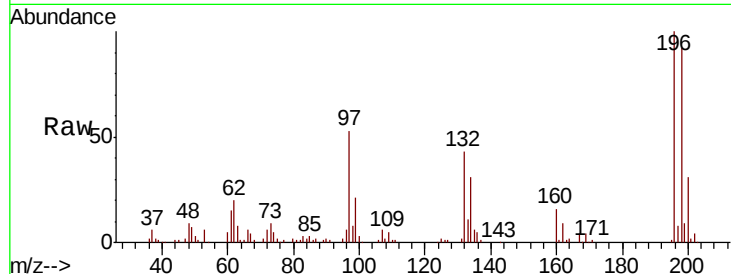




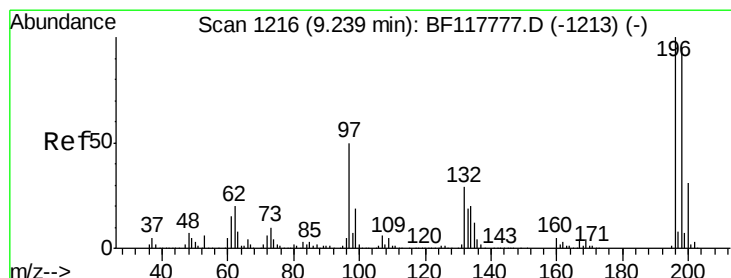
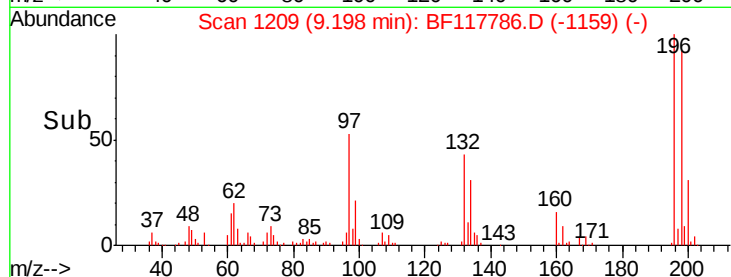
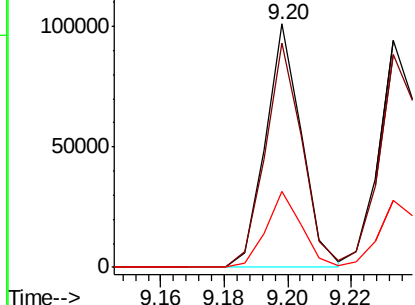
#43
 2,4,6-Trichlorophenol
 Concen: 7.074 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF117786.D
 Acq: 14 Nov 2019 10:14

Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion:196 Resp: 79762
 Ion Ratio Lower Upper
 196 100
 198 92.3 77.8 116.6
 200 31.3 25.4 38.0

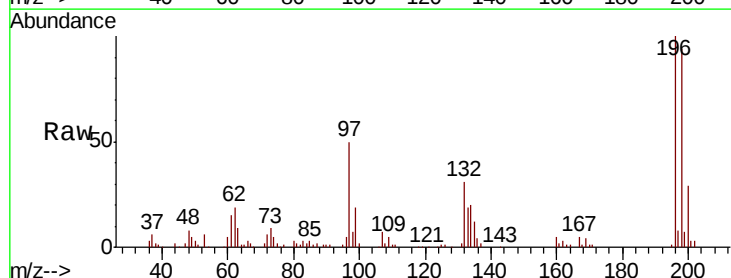


Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 200.00 (199.70 to 200.70): E

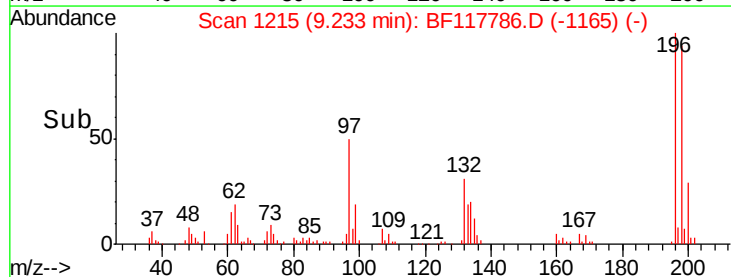
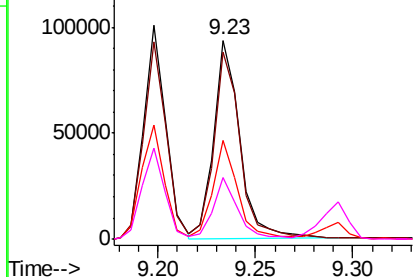


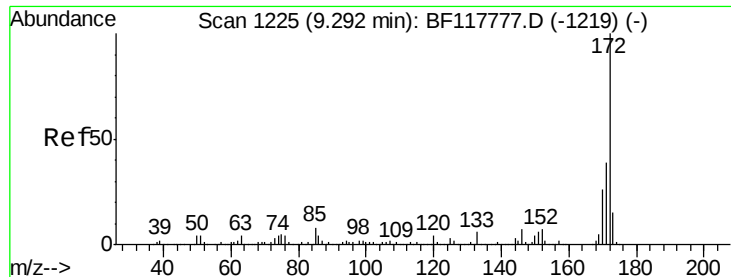
#44
 2,4,5-Trichlorophenol
 Concen: 7.415 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.01 min
 Lab File: BF117786.D
 Acq: 14 Nov 2019 10:14

Tgt Ion:196 Resp: 86806
 Ion Ratio Lower Upper
 196 100
 198 93.8 76.3 114.5
 97 49.6 40.0 60.0
 132 30.7 23.6 35.4



Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 97.00 (96.70 to 97.70): BF1
 Ion 132.00 (131.70 to 132.70): E

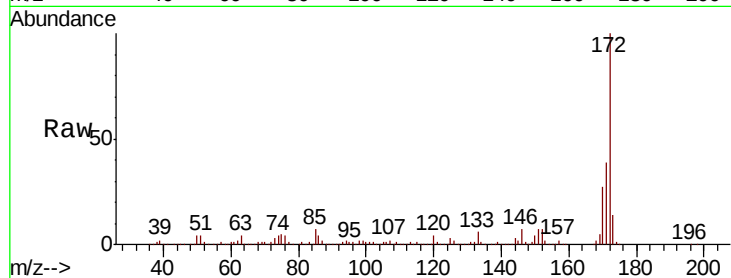




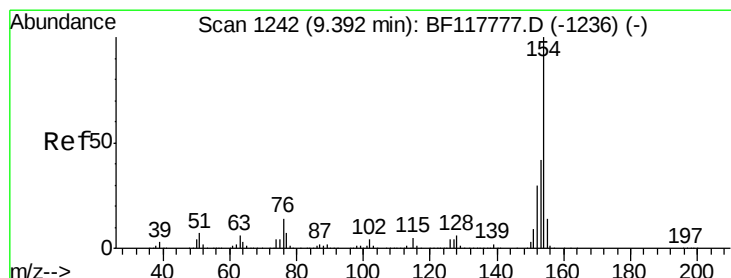
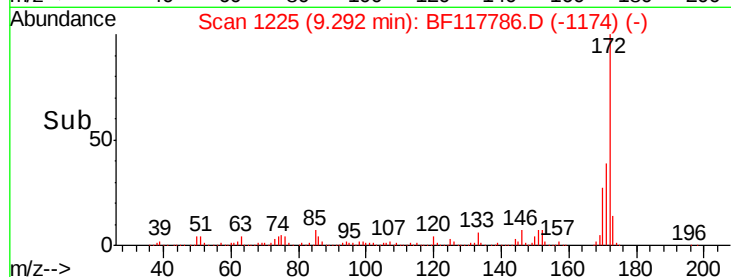
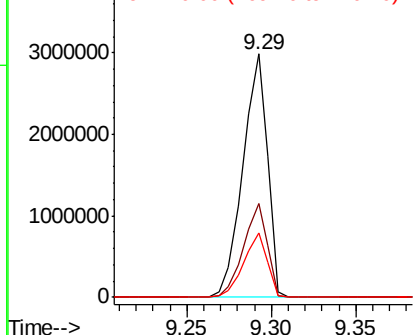
#45
2-Fluorobiphenyl
Concen: 100.638 ng
RT: 9.29 min Scan# 1225
Delta R.T. 0.00 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:172 Resp: 3040519
Ion Ratio Lower Upper
172 100
171 38.7 30.9 46.3
170 26.7 21.0 31.4

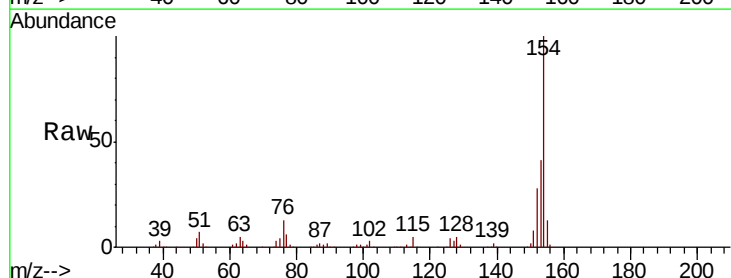


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

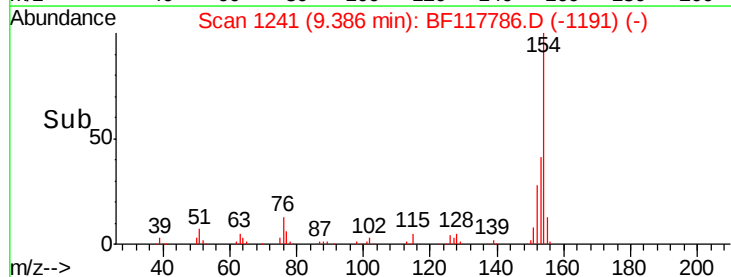
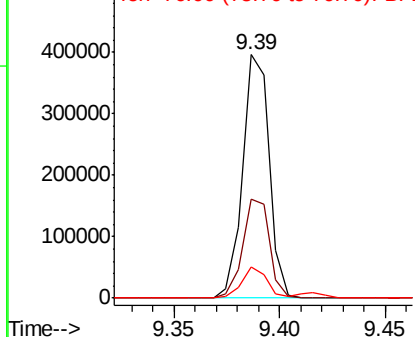


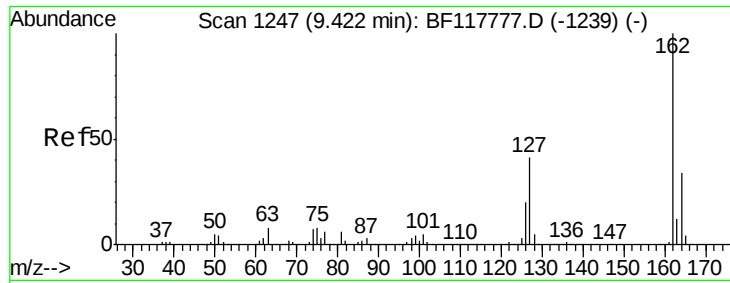
#46
1,1'-Biphenyl
Concen: 8.572 ng
RT: 9.39 min Scan# 1241
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion:154 Resp: 344721
Ion Ratio Lower Upper
154 100
153 40.7 21.9 61.9
76 12.6 0.0 33.6



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1

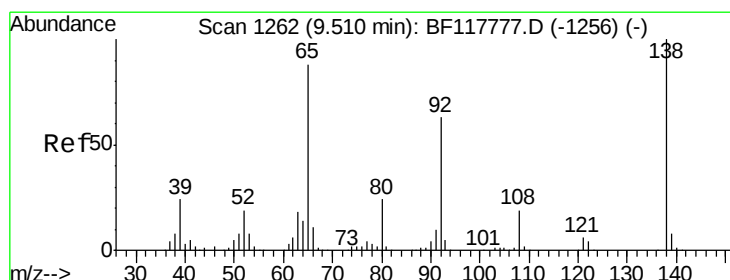
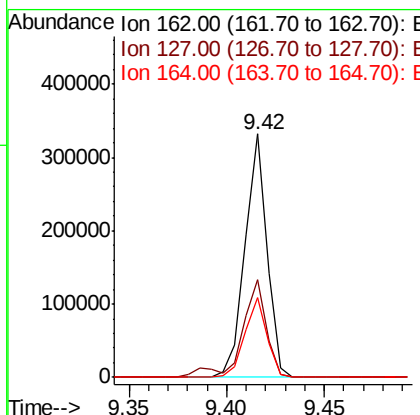
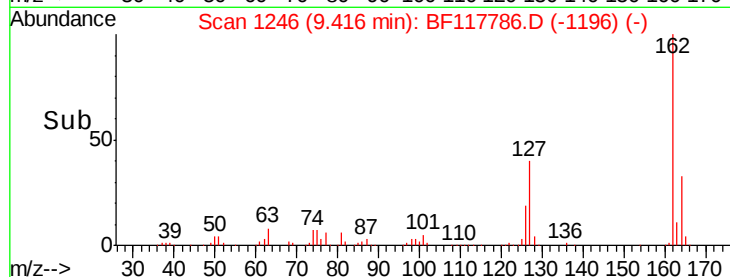
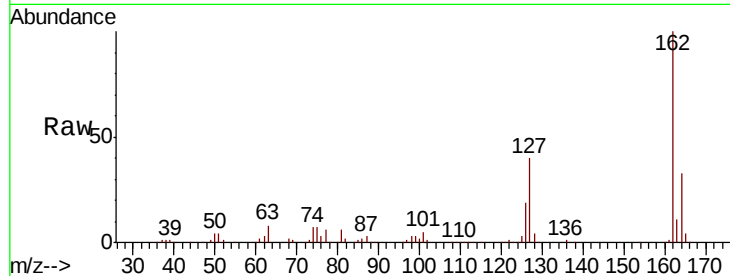




#47
2-Chloronaphthalene
Concen: 7.840 ng
RT: 9.42 min Scan# 1246
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

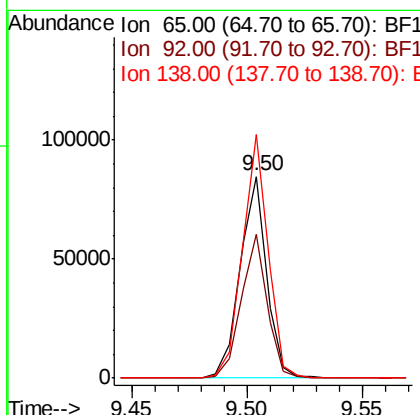
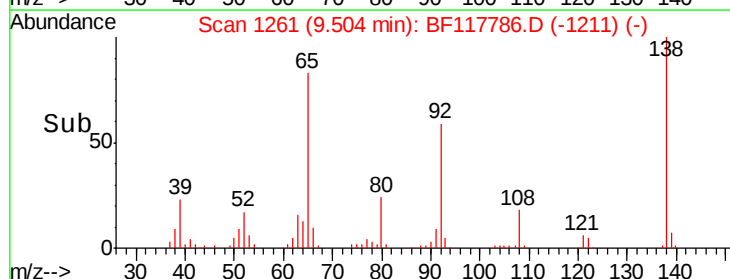
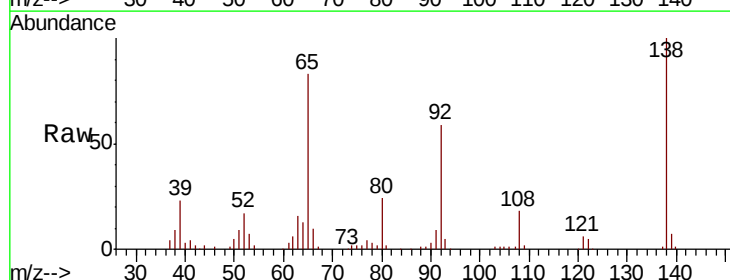
Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

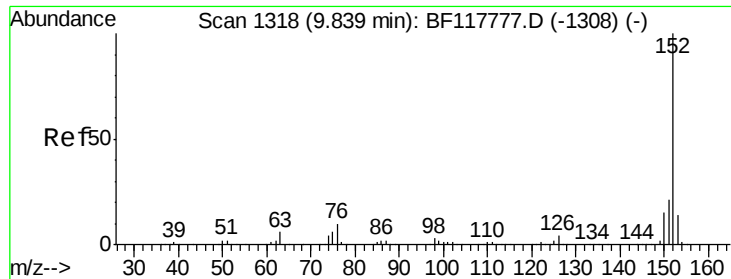
Tot Ion:162 Resp: 259368
Ion Ratio Lower Upper
162 100
127 40.1 33.2 49.8
164 32.8 27.3 40.9



#48
2-Nitroaniline
Concen: 6.822 ng
RT: 9.50 min Scan# 1261
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion: 65 Resp: 68138
Ion Ratio Lower Upper
65 100
92 71.4 56.6 84.8
138 120.5 90.5 135.7





#49

Acenaphthylene

Concen: 8.609 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

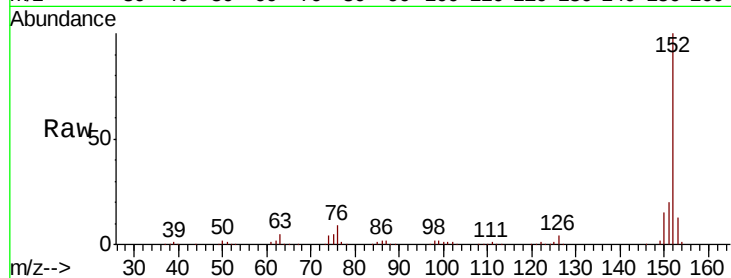
Tot Ion:152 Resp: 415229

Ion Ratio Lower Upper

152 100

151 20.1 17.0 25.6

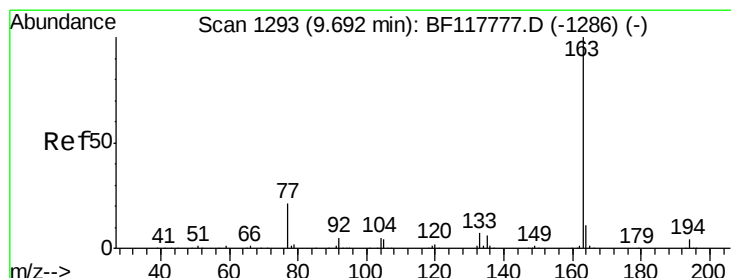
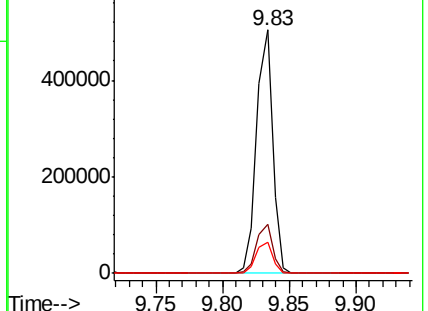
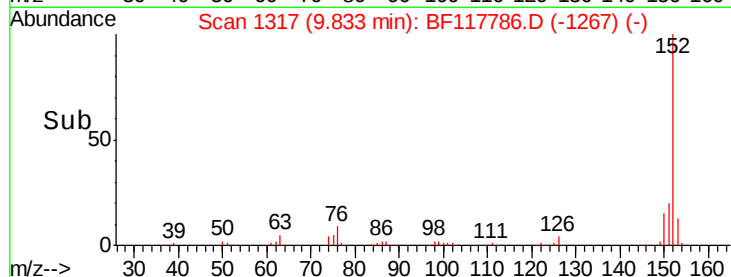
153 12.7 11.0 16.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 7.842 ng

RT: 9.68 min Scan# 1291

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

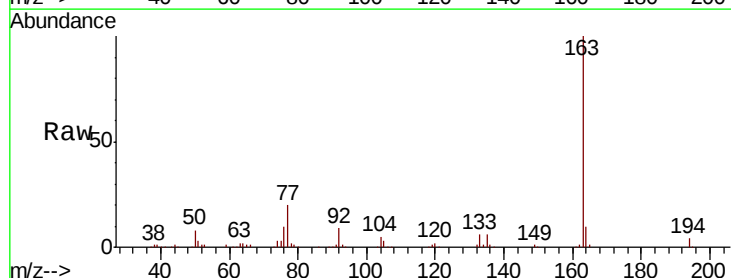
Tgt Ion:163 Resp: 298079

Ion Ratio Lower Upper

163 100

194 4.0 3.3 4.9

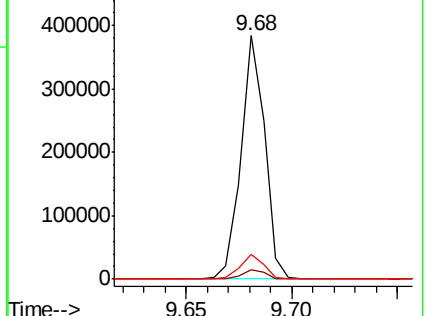
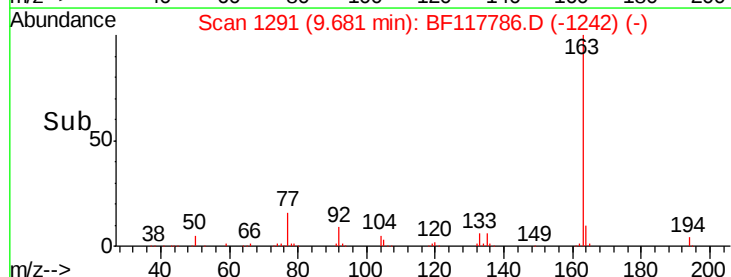
164 10.0 8.7 13.1

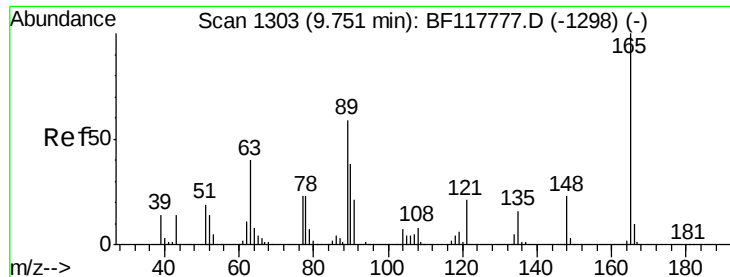


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

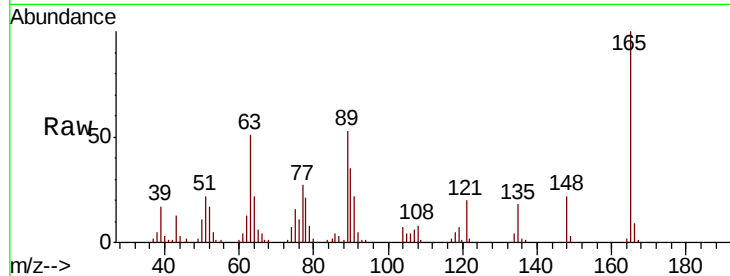




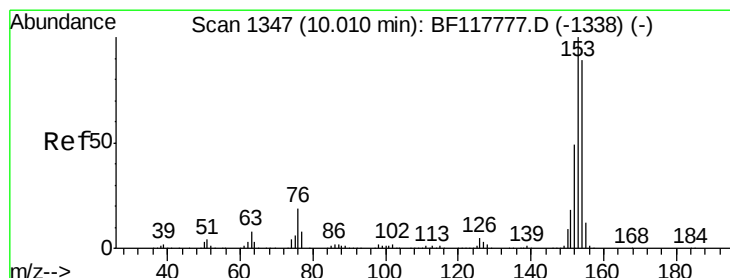
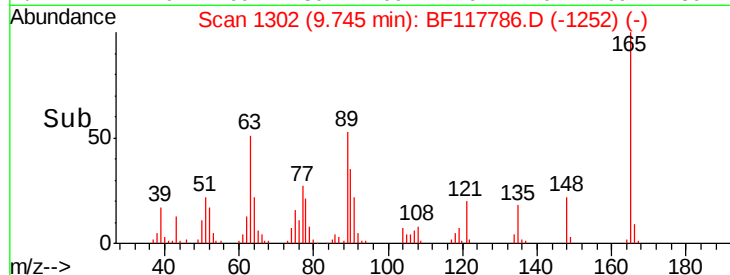
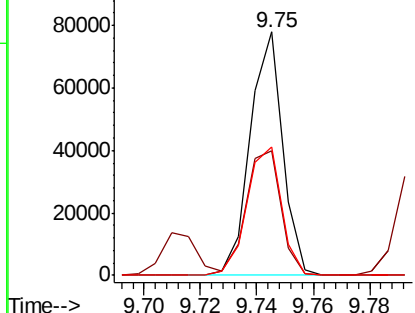
#51
 2,6-Dinitrotoluene
 Concen: 7.488 ng
 RT: 9.75 min Scan# 1302
 Delta R.T. -0.01 min
 Lab File: BF117786.D
 Acq: 14 Nov 2019 10:14

Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion:165 Resp: 62201
 Ion Ratio Lower Upper
 165 100
 63 51.4 46.0 69.0
 89 52.7 47.7 71.5

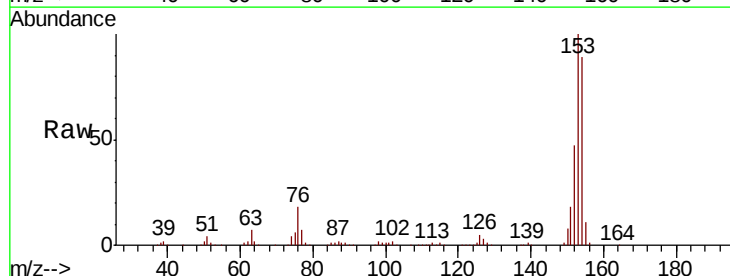


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

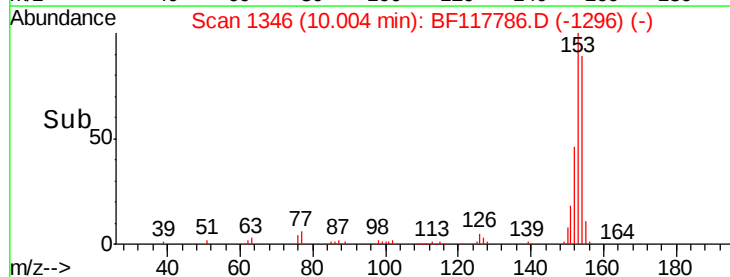
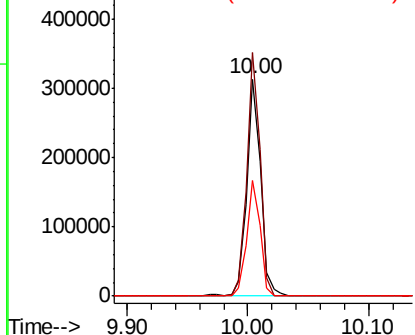


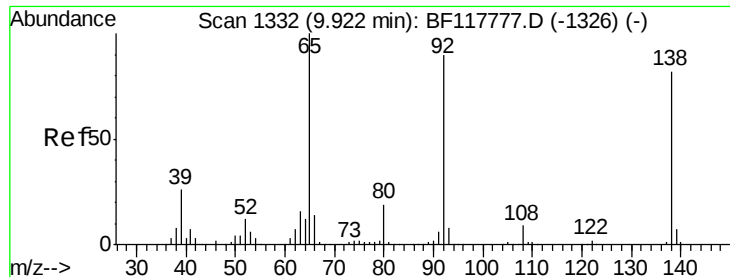
#52
 Acenaphthene
 Concen: 8.243 ng
 RT: 10.00 min Scan# 1346
 Delta R.T. -0.01 min
 Lab File: BF117786.D
 Acq: 14 Nov 2019 10:14

Tgt Ion:154 Resp: 254694
 Ion Ratio Lower Upper
 154 100
 153 112.1 90.1 135.1
 152 53.2 44.0 66.0



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 152.00 (151.70 to 152.70): E

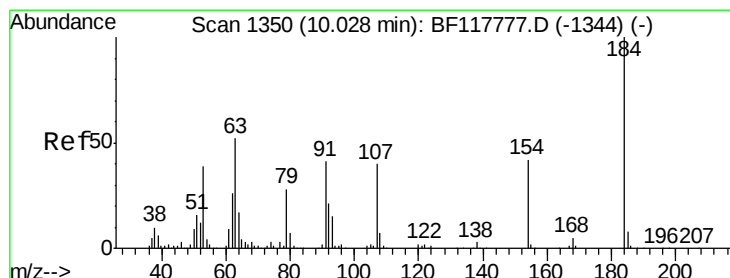
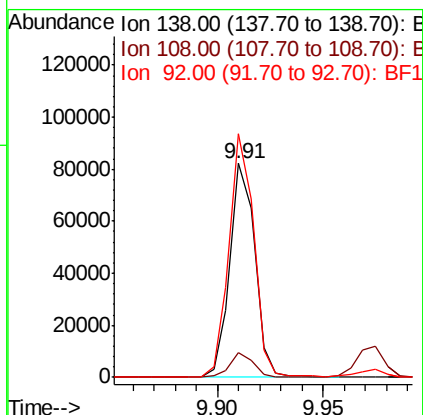
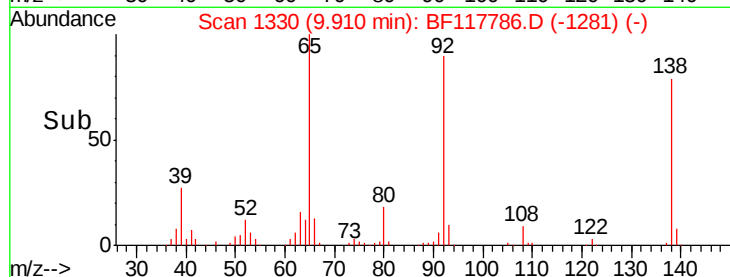
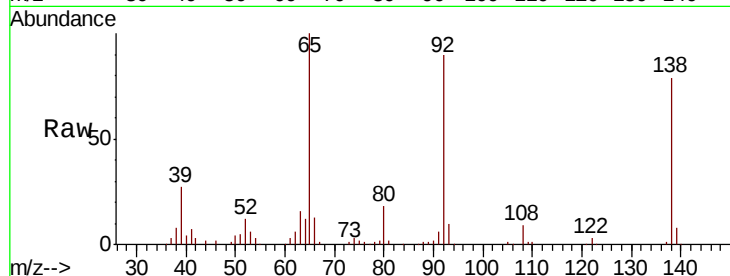




#53
3-Nitroaniline
Concen: 6.765 ng
RT: 9.91 min Scan# 1330
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

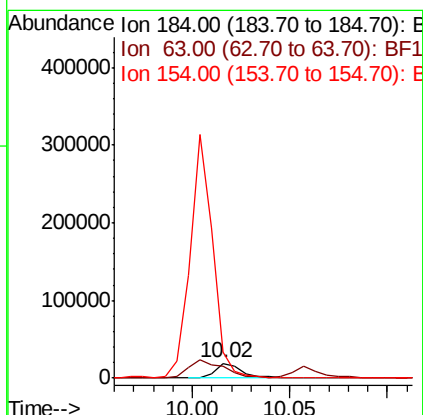
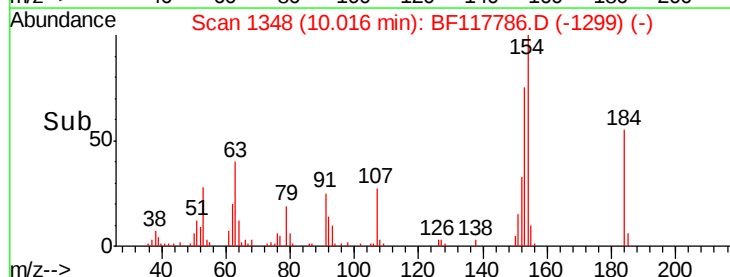
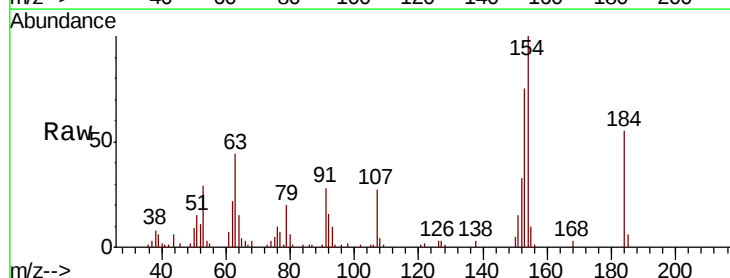
Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

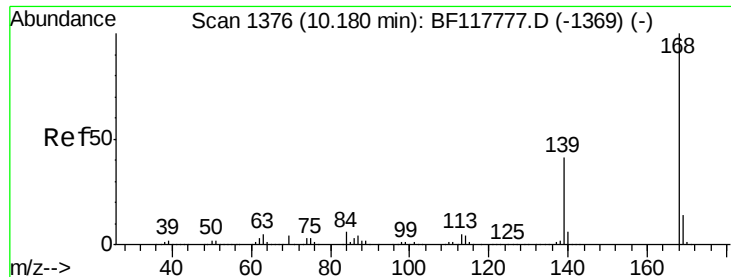
Tot Ion:138 Resp: 67248
Ion Ratio Lower Upper
138 100
108 11.6 8.6 12.8
92 113.8 87.9 131.9



#54
2,4-Dinitrophenol
Concen: 5.076 ng
RT: 10.02 min Scan# 1348
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion:184 Resp: 18718
Ion Ratio Lower Upper
184 100
63 80.4 43.0 64.6#
154 182.0 48.0 72.0#

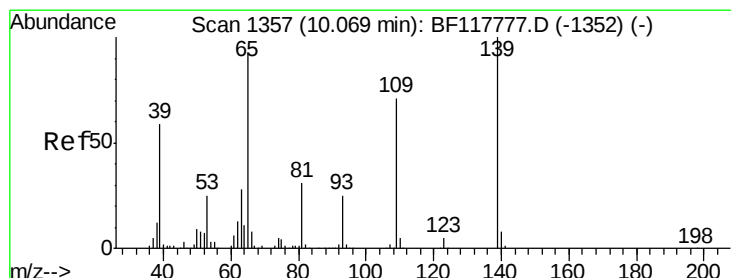
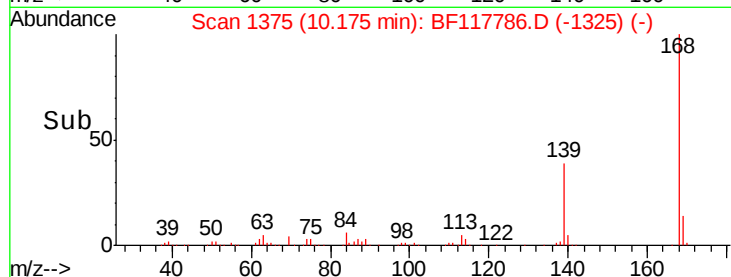
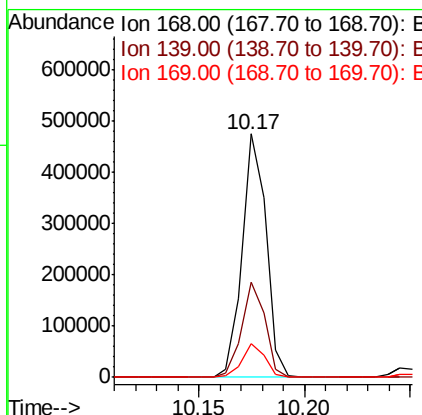
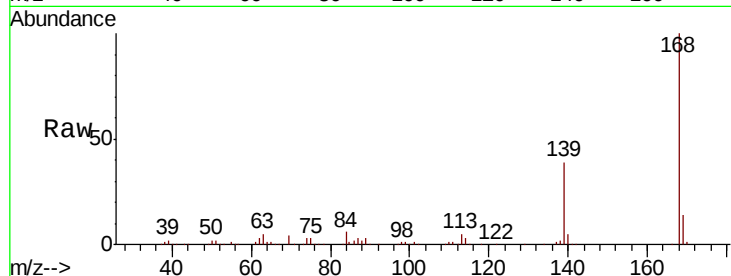




#55
Dibenzenofuran
Concen: 8.697 ng
RT: 10.17 min Scan# 1375
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

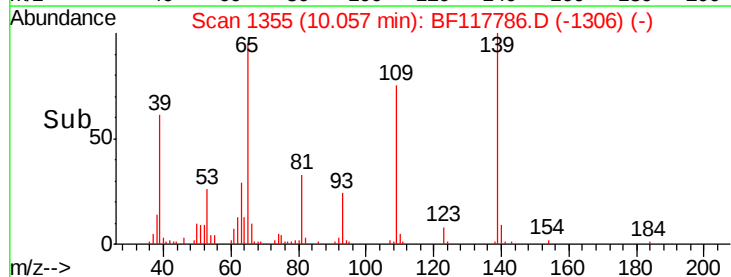
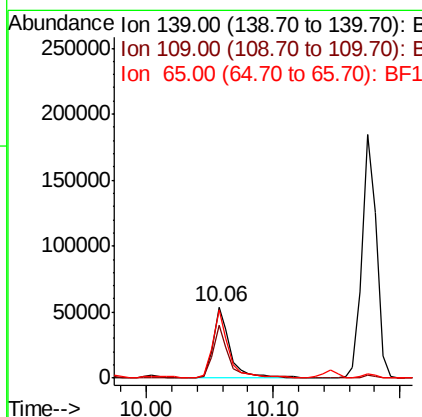
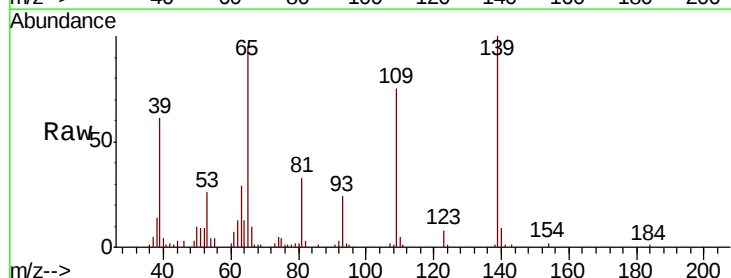
Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

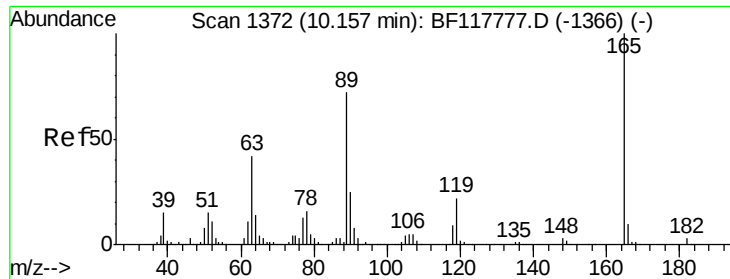
Tot Ion:168 Resp: 372094
Ion Ratio Lower Upper
168 100
139 38.9 33.0 49.6
169 13.8 11.5 17.3



#56
4-Nitrophenol
Concen: 6.983 ng
RT: 10.06 min Scan# 1355
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion:139 Resp: 51814
Ion Ratio Lower Upper
139 100
109 74.9 50.8 90.8
65 95.0 73.6 113.6

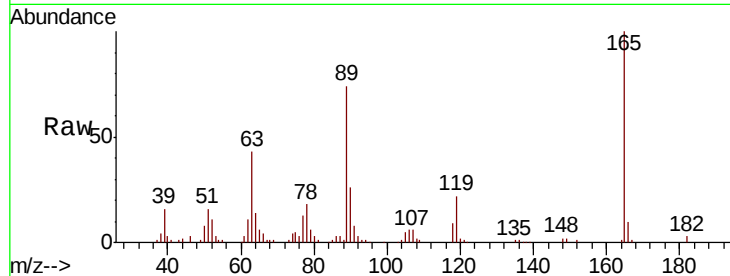




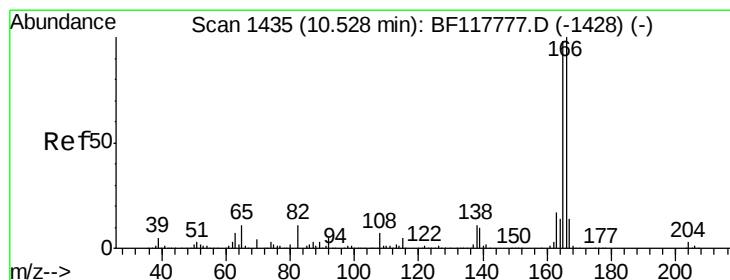
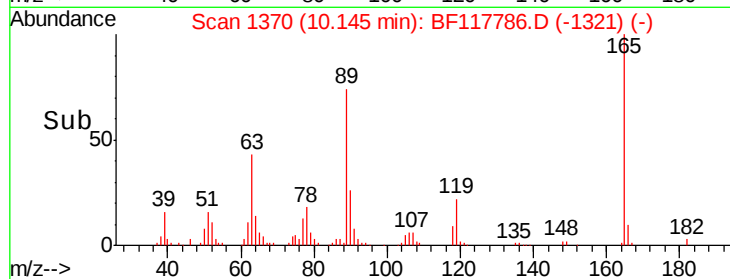
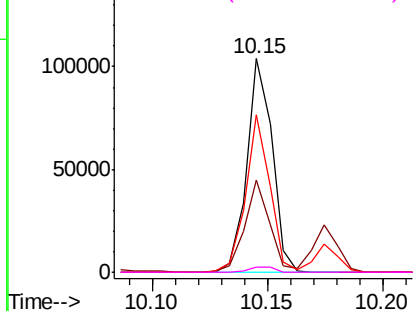
#57
2,4-Dinitrotoluene
Concen: 7.549 ng
RT: 10.15 min Scan# 1370
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:165 Resp: 79774
Ion Ratio Lower Upper
165 100
63 43.1 33.7 50.5
89 73.6 57.3 85.9
182 2.5 2.3 3.5

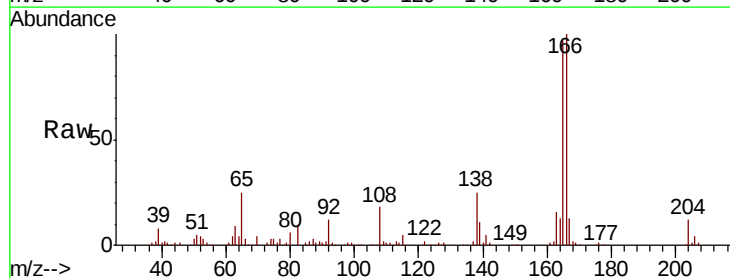


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

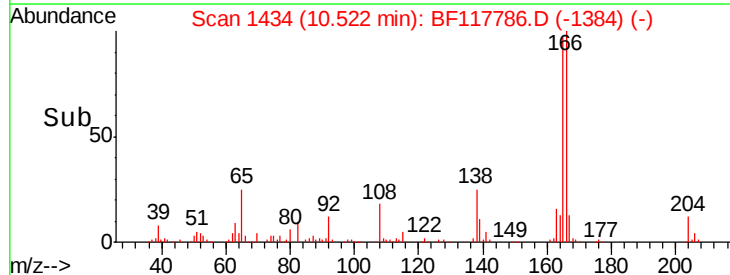
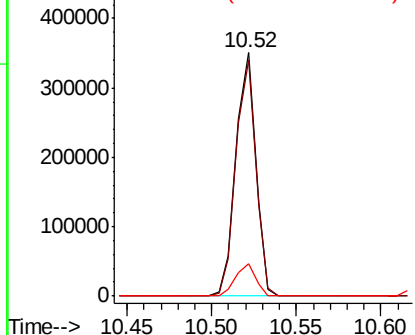


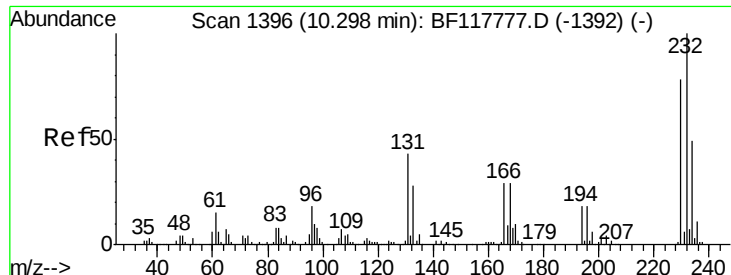
#58
Fluorene
Concen: 8.668 ng
RT: 10.52 min Scan# 1434
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion:166 Resp: 287378
Ion Ratio Lower Upper
166 100
165 96.7 78.4 117.6
167 13.1 11.0 16.4



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

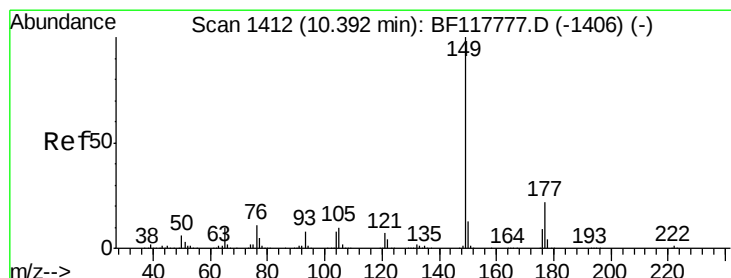
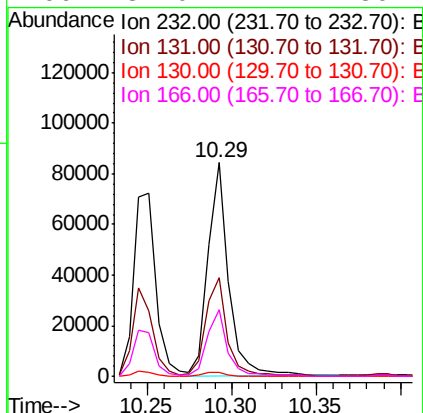
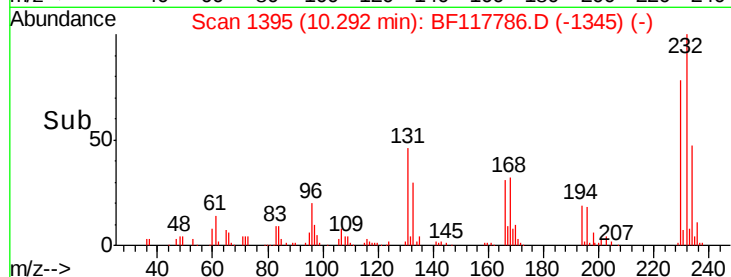
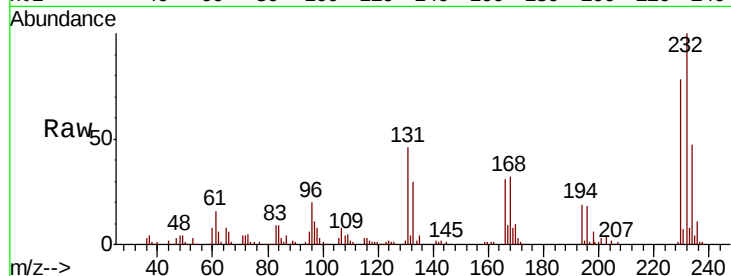




#59
2,3,4,6-Tetrachlorophenol
Concen: 7.451 ng
RT: 10.29 min Scan# 1395
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

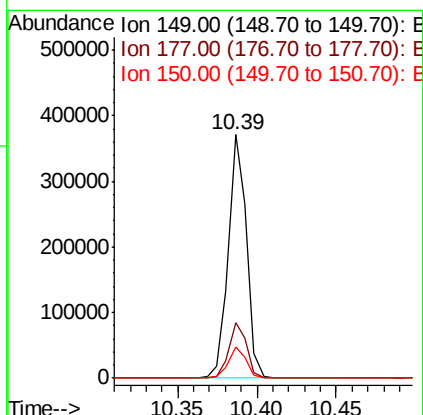
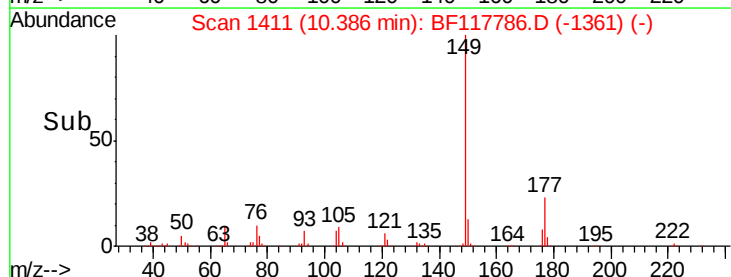
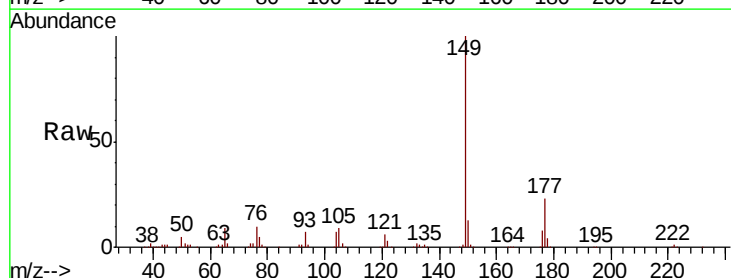
Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

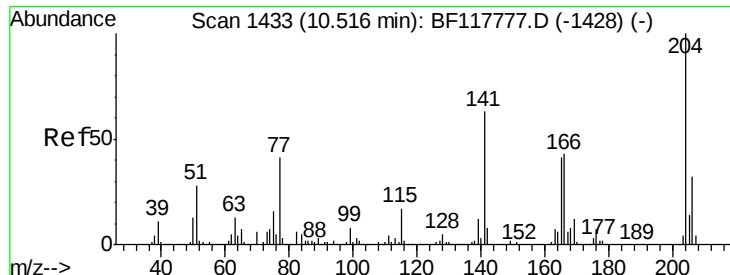
Tot Ion:232 Resp: 71668
Ion Ratio Lower Upper
232 100
131 48.6 37.6 56.4
130 2.1 1.9 2.9
166 31.0 24.2 36.4



#60
Diethylphthalate
Concen: 7.938 ng
RT: 10.39 min Scan# 1411
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion:149 Resp: 294167
Ion Ratio Lower Upper
149 100
177 22.9 18.0 27.0
150 13.0 10.5 15.7

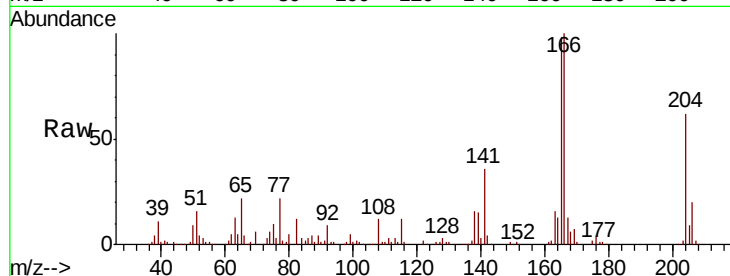




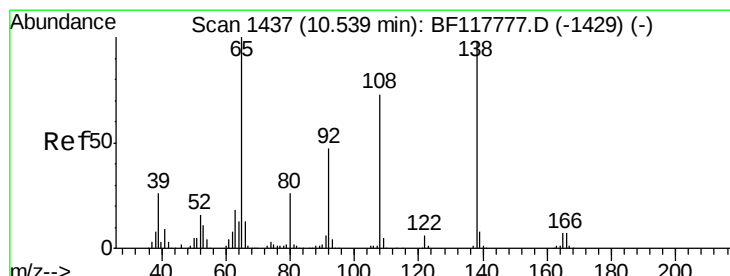
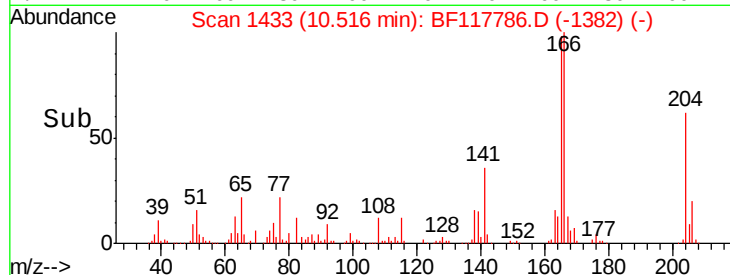
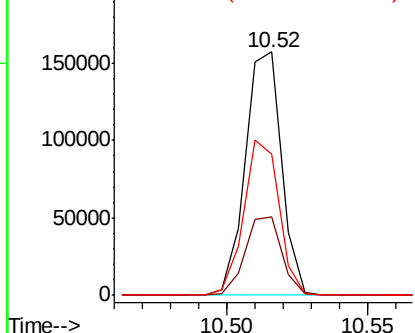
#61
4-Chlorophenyl-phenylether
Concen: 8.351 ng
RT: 10.52 min Scan# 1433
Delta R.T. 0.00 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:204 Resp: 140512
Ion Ratio Lower Upper
204 100
206 32.4 25.6 38.4
141 57.8 50.7 76.1

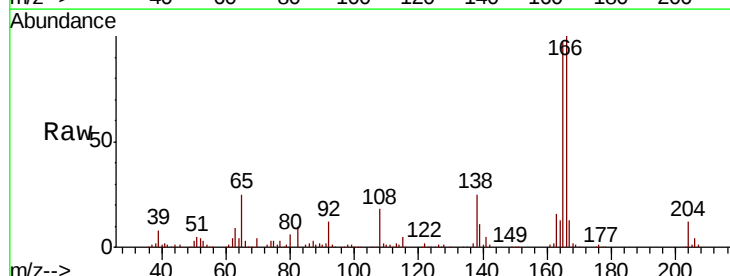


Abundance Ion 204.00 (203.70 to 204.70): E
Ion 206.00 (205.70 to 206.70): E
Ion 141.00 (140.70 to 141.70): E

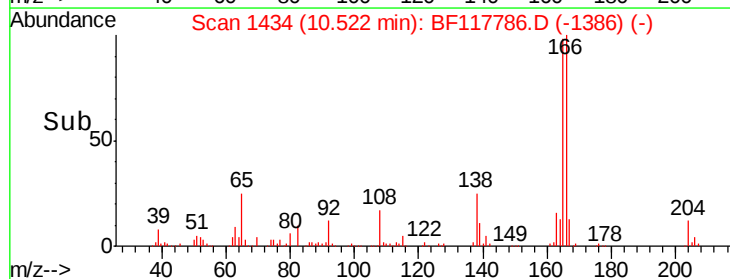
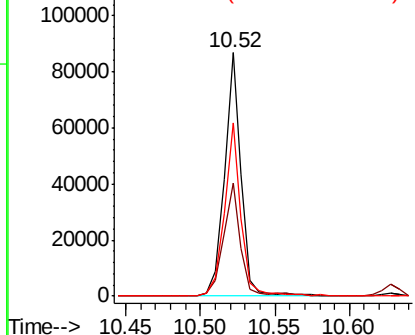


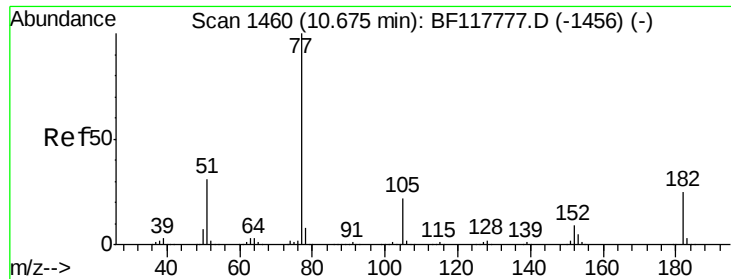
#62
4-Nitroaniline
Concen: 6.893 ng
RT: 10.52 min Scan# 1434
Delta R.T. -0.02 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion:138 Resp: 68599
Ion Ratio Lower Upper
138 100
92 46.6 28.3 68.3
108 71.0 54.3 94.3



Abundance Ion 138.00 (137.70 to 138.70): E
Ion 92.00 (91.70 to 92.70): BF1
Ion 108.00 (107.70 to 108.70): E





#63

Azobenzene

Concen: 8.252 ng

RT: 10.67 min Scan# 1460

Delta R.T. 0.00 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 77 Resp: 278198

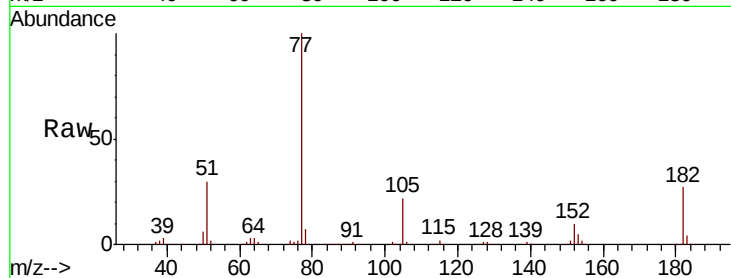
Ion Ratio Lower Upper

77 100

182 27.4 4.8 44.8

105 22.0 2.1 42.1

51 29.7 11.4 51.4

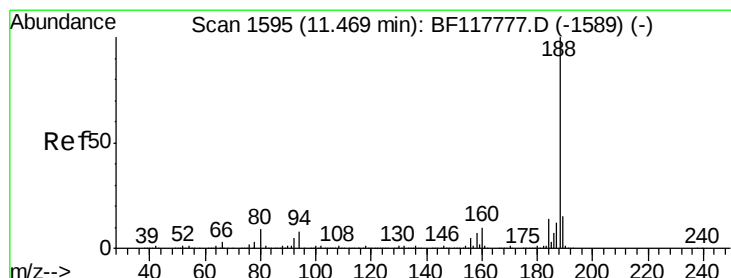
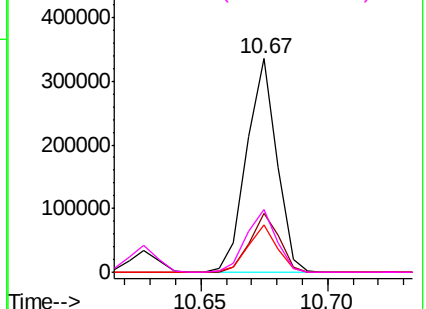
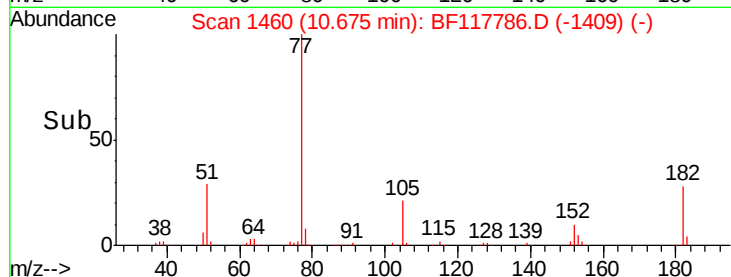


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF1



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.46 min Scan# 1594

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

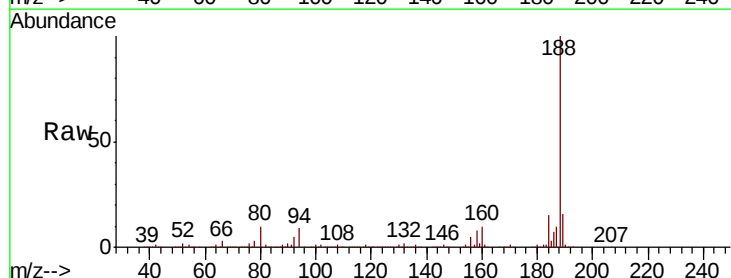
Tgt Ion: 188 Resp: 1023897

Ion Ratio Lower Upper

188 100

94 9.2 6.6 10.0

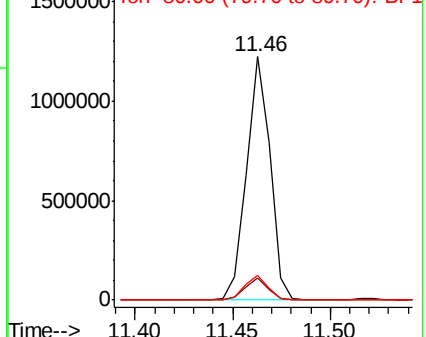
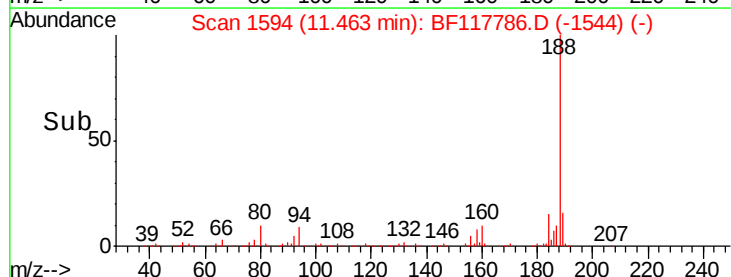
80 10.0 7.2 10.8

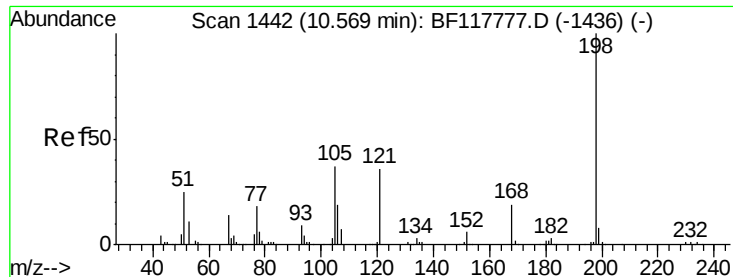


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#65

4,6-Dinitro-2-methylphenol

Concen: 6.148 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

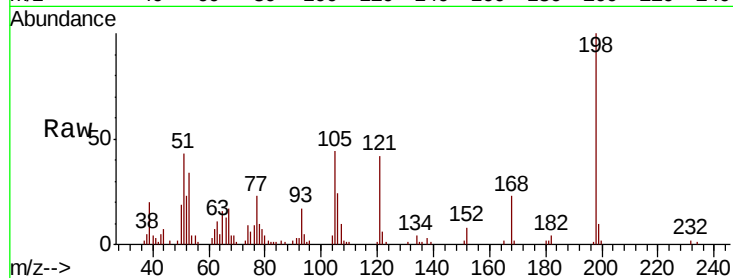
Tot Ion:198 Resp: 29388

Ion Ratio Lower Upper

198 100

51 43.2 16.0 56.0

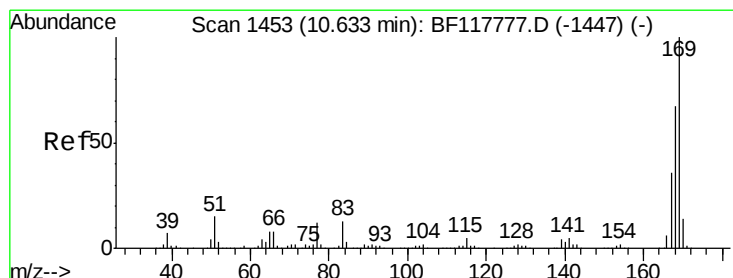
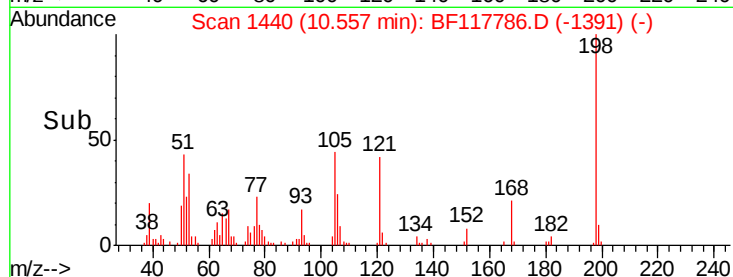
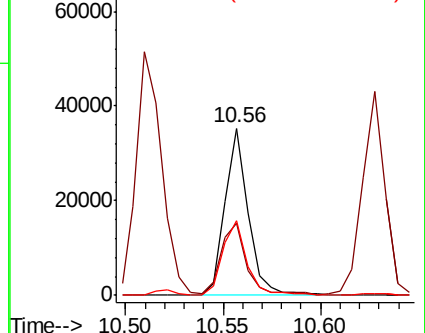
105 44.5 19.1 59.1



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#66

n-Nitrosodiphenylamine

Concen: 8.422 ng

RT: 10.63 min Scan# 1452

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

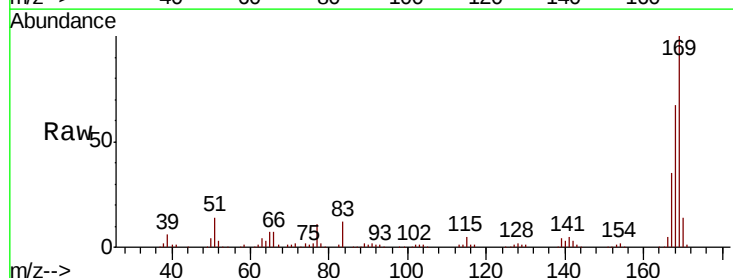
Tgt Ion:169 Resp: 250960

Ion Ratio Lower Upper

169 100

168 66.6 53.5 80.3

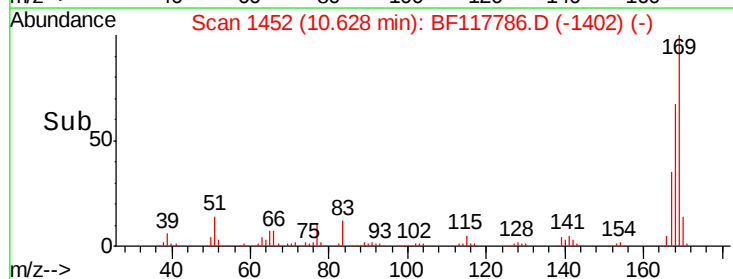
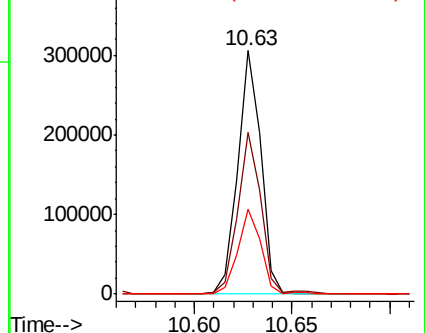
167 34.7 29.0 43.4

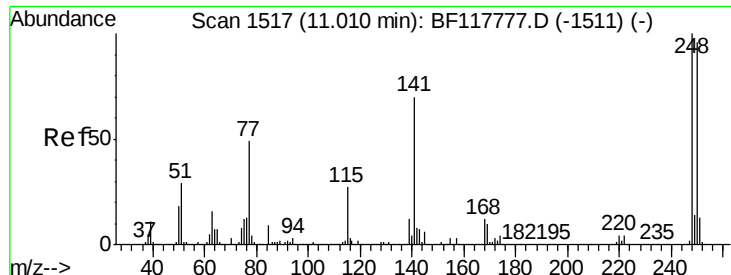


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E

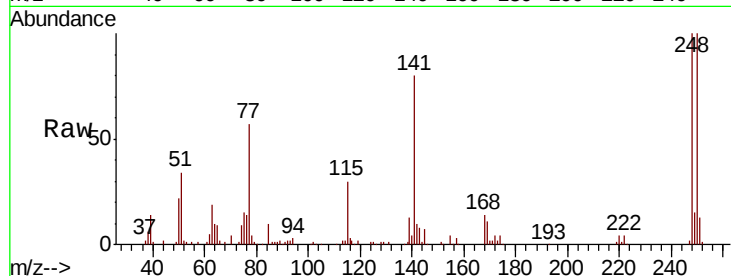




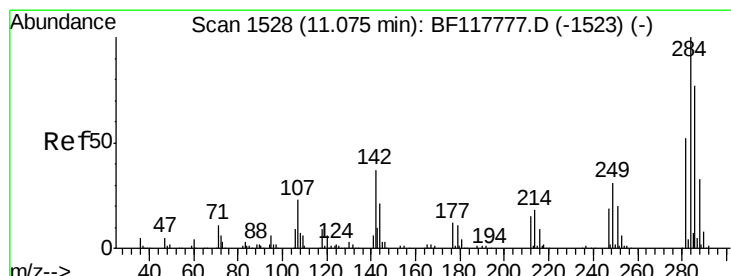
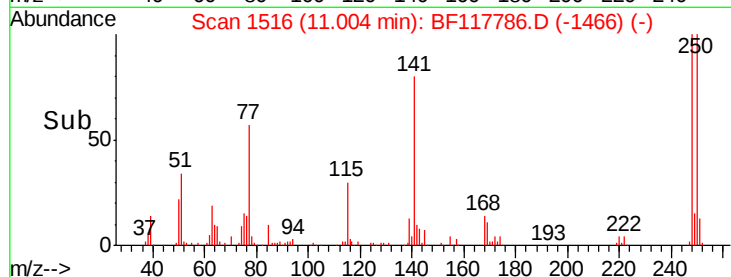
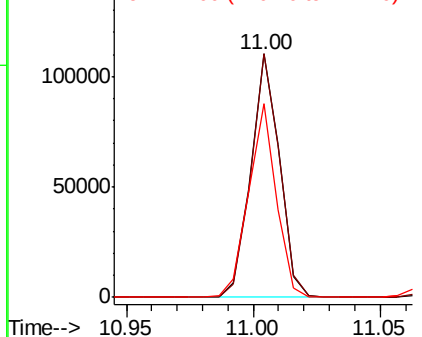
#67
4-Bromophenyl-phenylether
Concen: 7.825 ng
RT: 11.00 min Scan# 1516
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Instrument :
BNA_F
ClientSampled :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:248 Resp: 86451
Ion Ratio Lower Upper
248 100
250 100.1 76.6 115.0
141 79.9 55.9 83.9

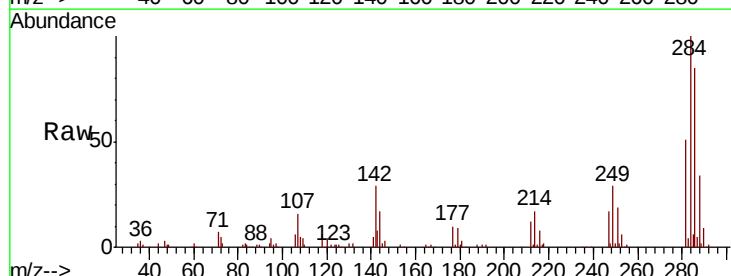


Abundance Ion 248.00 (247.70 to 248.70): E
150000
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

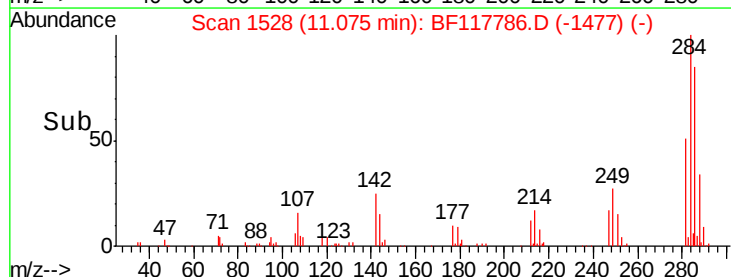
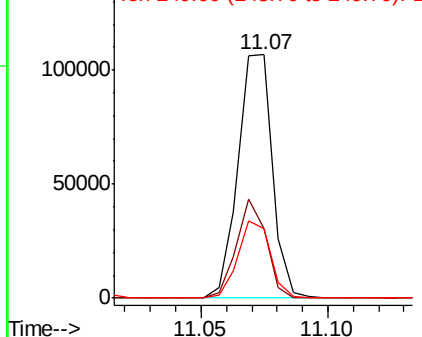


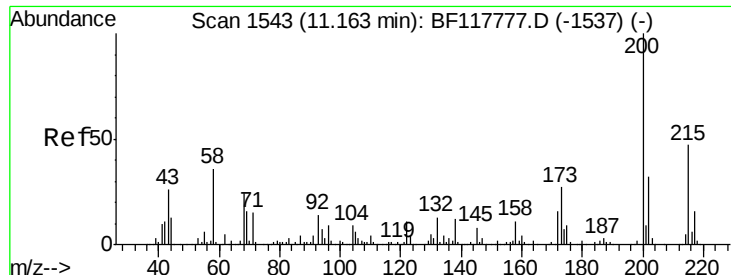
#68
Hexachlorobenzene
Concen: 7.783 ng
RT: 11.07 min Scan# 1528
Delta R.T. 0.00 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion:284 Resp: 100263
Ion Ratio Lower Upper
284 100
142 28.7 29.4 44.2#
249 28.5 24.6 37.0



Abundance Ion 283.80 (283.50 to 284.50): E
100000
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

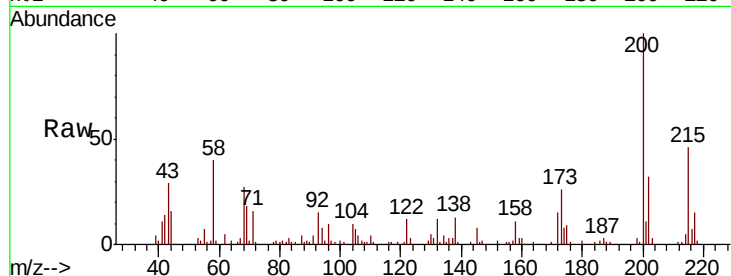




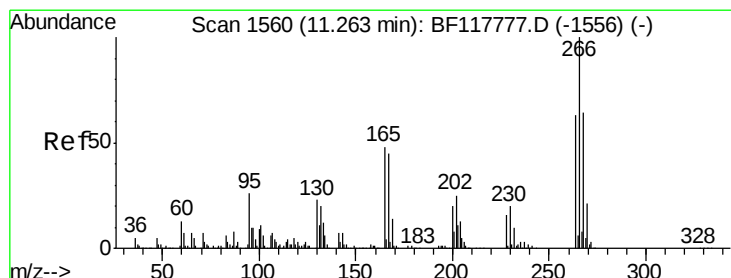
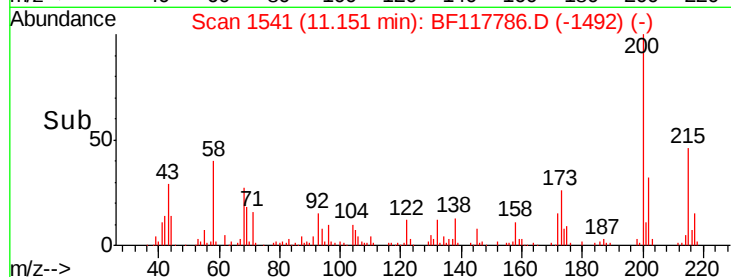
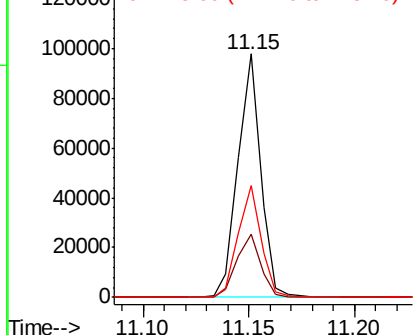
#69
Atrazine
Concen: 7.413 ng
RT: 11.15 min Scan# 1541
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:200 Resp: 72663
Ion Ratio Lower Upper
200 100
173 25.9 6.7 46.7
215 45.7 27.5 67.5

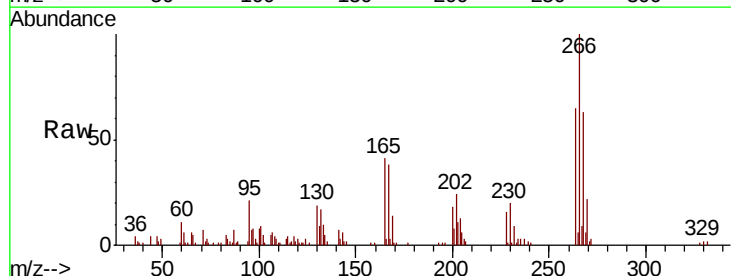


Abundance Ion 200.00 (199.70 to 200.70): E
Ion 173.00 (172.70 to 173.70): E
Ion 215.00 (214.70 to 215.70): E

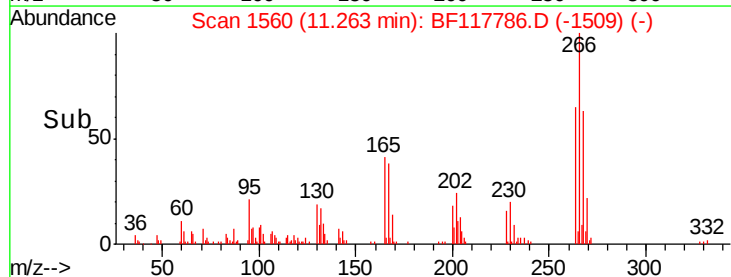
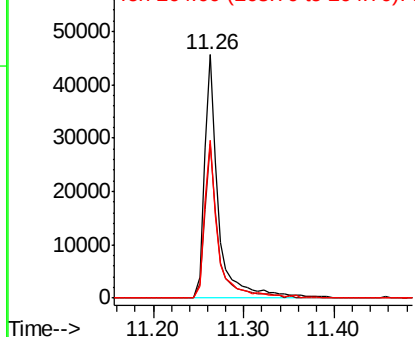


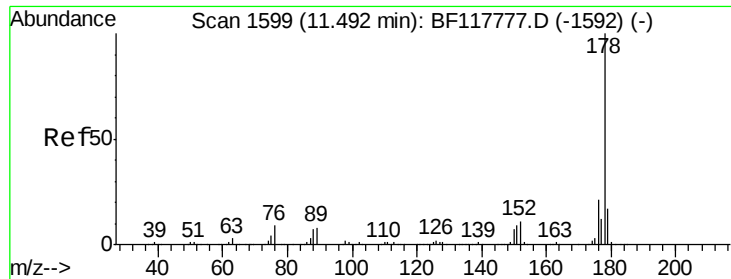
#70
Pentachlorophenol
Concen: 6.611 ng
RT: 11.26 min Scan# 1560
Delta R.T. 0.00 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion:266 Resp: 49754
Ion Ratio Lower Upper
266 100
268 63.2 50.8 76.2
264 64.7 50.7 76.1



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E

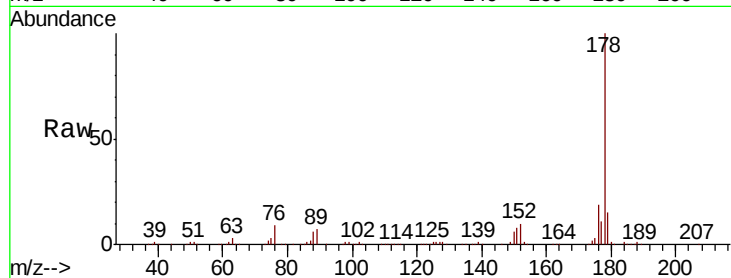




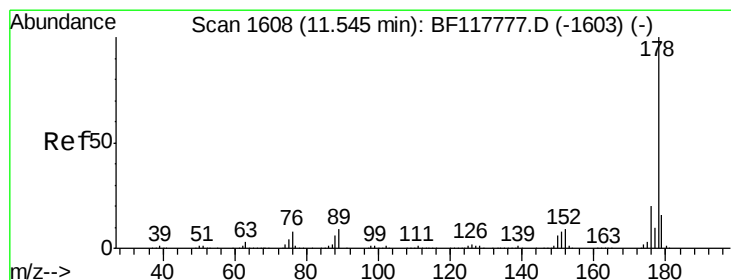
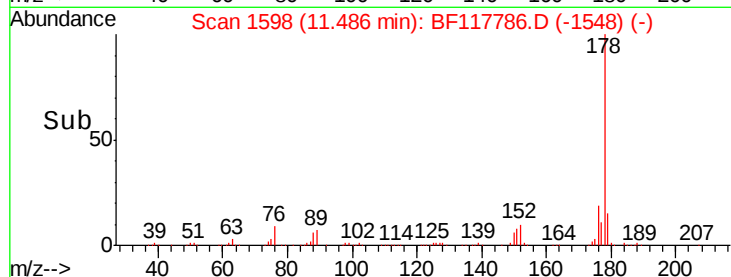
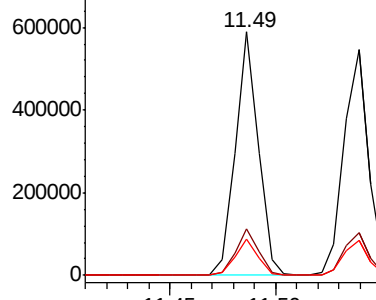
#71
Phenanthrene
Concen: 8.650 ng
RT: 11.49 min Scan# 1598
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:178 Resp: 445302
Ion Ratio Lower Upper
178 100
176 19.0 16.6 25.0
179 15.1 13.2 19.8

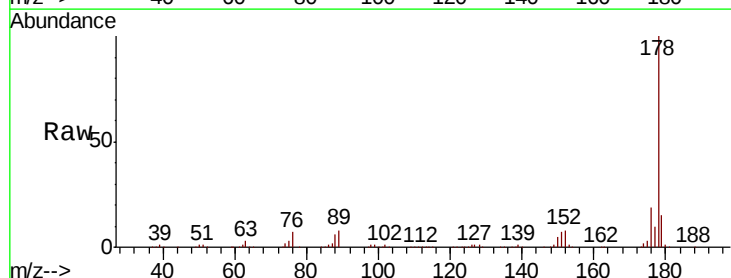


Abundance Ion 178.00 (177.70 to 178.70): E
800000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

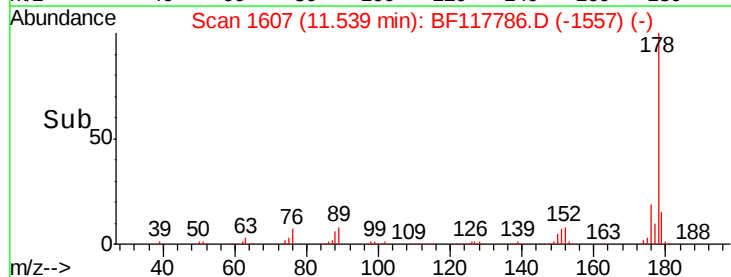
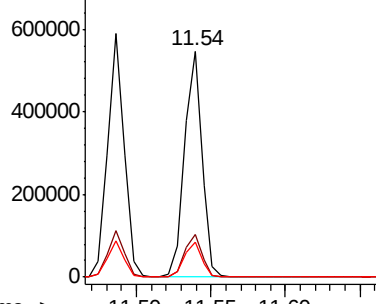


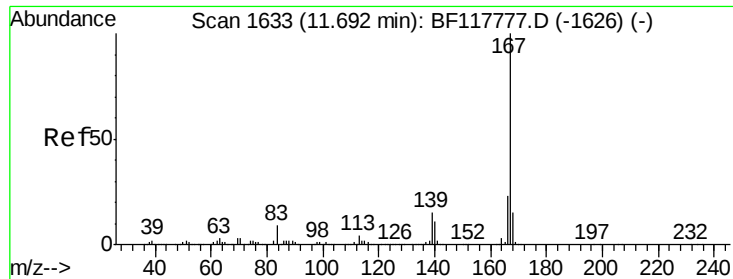
#72
Anthracene
Concen: 8.733 ng
RT: 11.54 min Scan# 1607
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion:178 Resp: 445745
Ion Ratio Lower Upper
178 100
176 18.6 16.1 24.1
179 15.4 13.0 19.4



Abundance Ion 178.00 (177.70 to 178.70): E
800000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

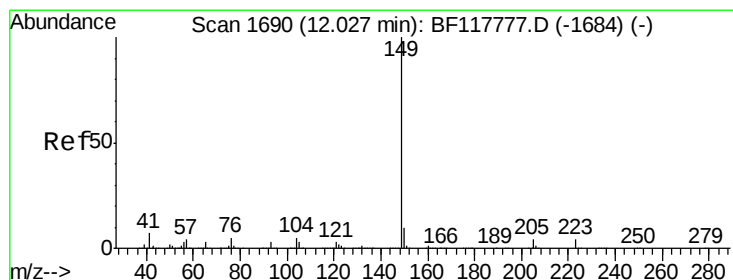
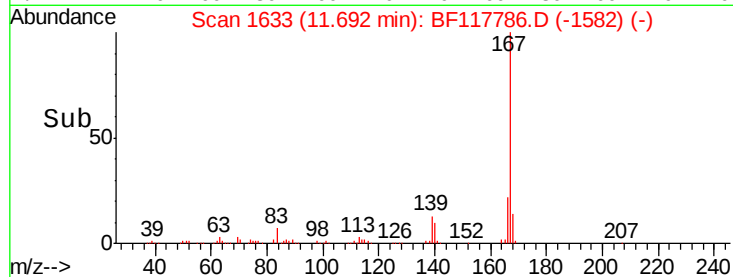
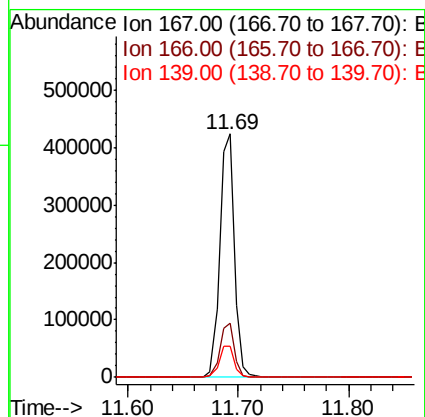
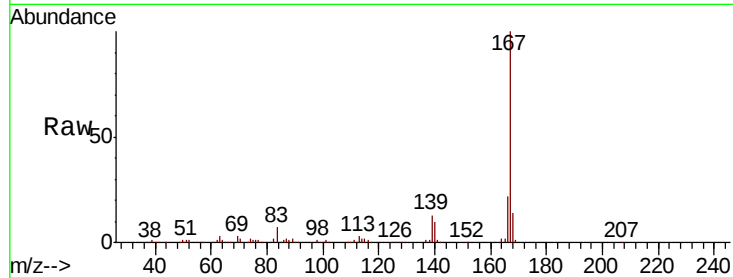




#73
 Carbazole
 Concen: 8.736 ng
 RT: 11.69 min Scan# 1633
 Delta R.T. 0.00 min
 Lab File: BF117786.D
 Acq: 14 Nov 2019 10:14

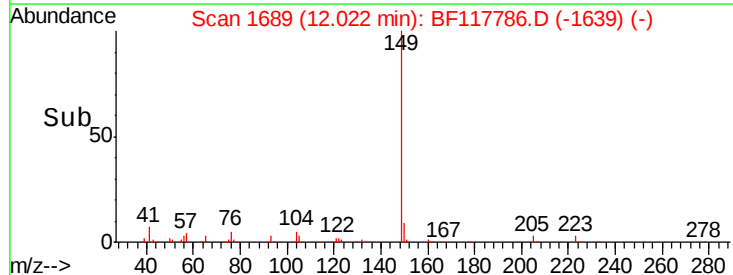
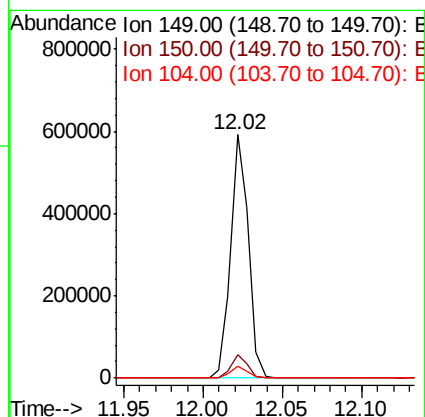
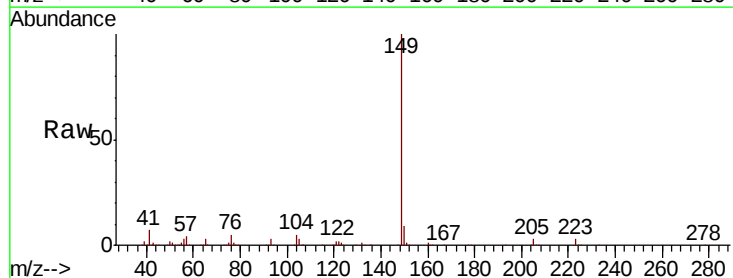
Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

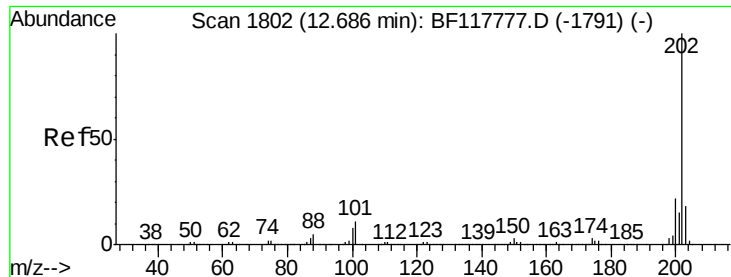
Tot Ion:167 Resp: 389617
 Ion Ratio Lower Upper
 167 100
 166 22.3 18.0 27.0
 139 12.9 11.7 17.5



#74
 Di-n-butylphthalate
 Concen: 8.226 ng
 RT: 12.02 min Scan# 1689
 Delta R.T. -0.01 min
 Lab File: BF117786.D
 Acq: 14 Nov 2019 10:14

Tgt Ion:149 Resp: 456797
 Ion Ratio Lower Upper
 149 100
 150 9.5 7.9 11.9
 104 5.1 4.2 6.4





#75

Fluoranthene

Concen: 8.972 ng

RT: 12.68 min Scan# 1801

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

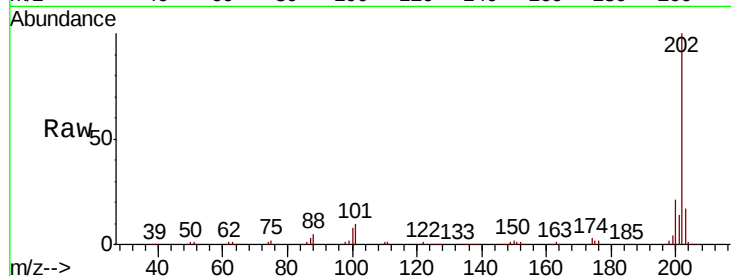
Tot Ion:202 Resp: 446795

Ion Ratio Lower Upper

202 100

101 10.2 0.0 31.1

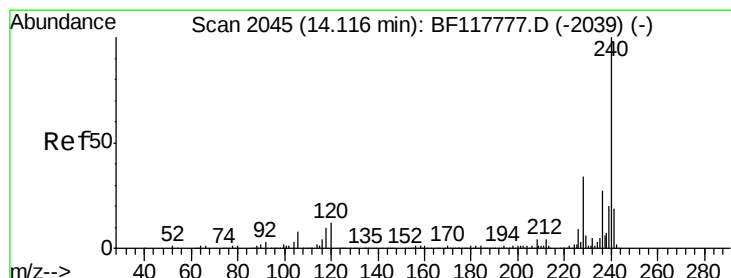
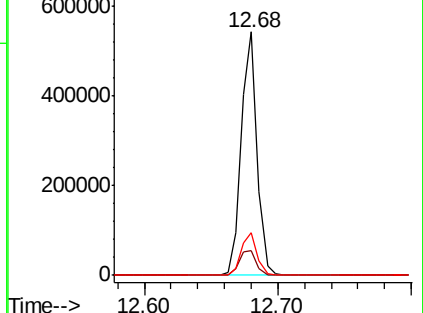
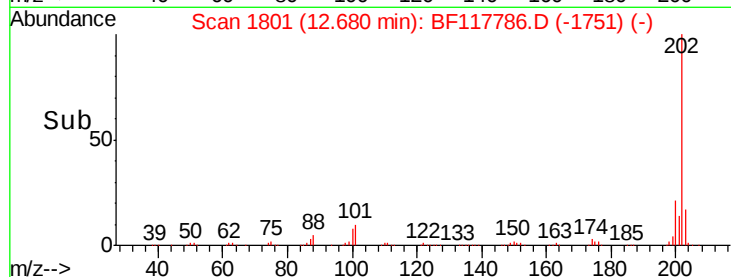
203 17.4 0.0 38.2



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.11 min Scan# 2044

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

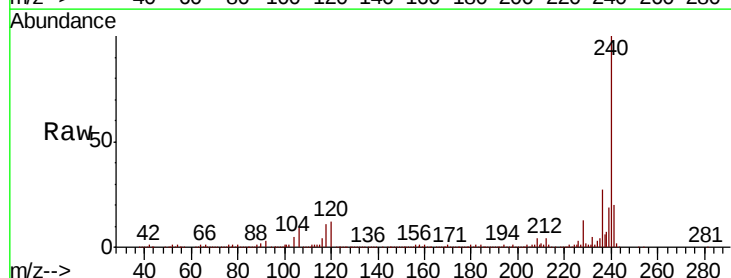
Tgt Ion:240 Resp: 756708

Ion Ratio Lower Upper

240 100

120 12.0 9.5 14.3

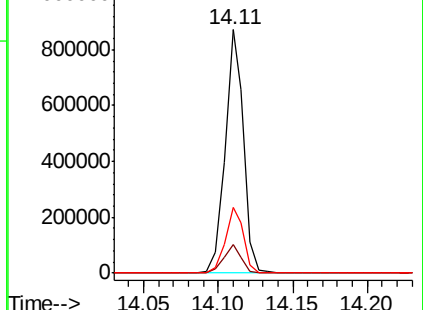
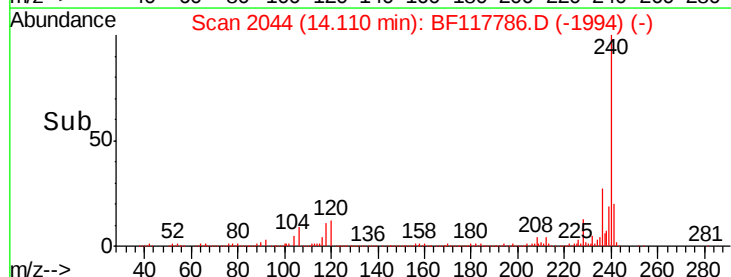
236 27.1 21.3 31.9

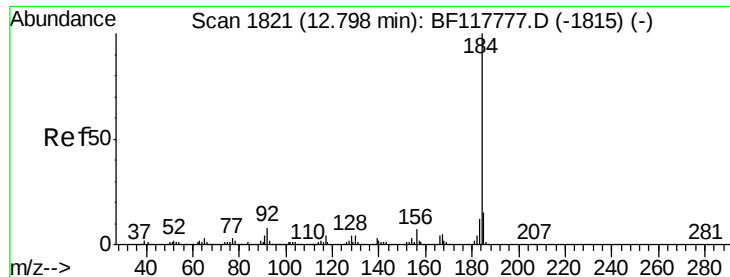


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 8.021 ng

RT: 12.80 min Scan# 1821

Delta R.T. 0.00 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

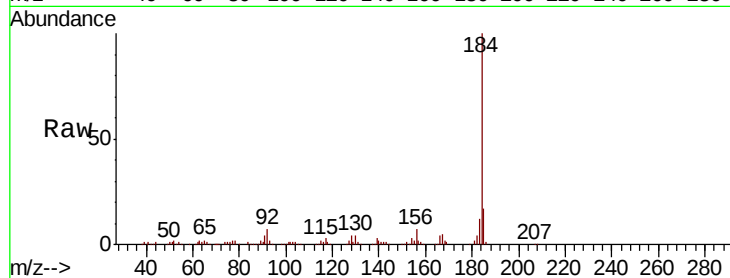
Tot Ion:184 Resp: 198815

Ion Ratio Lower Upper

184 100

185 17.1 12.2 18.4

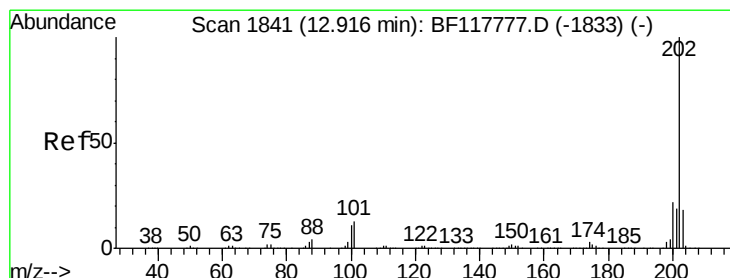
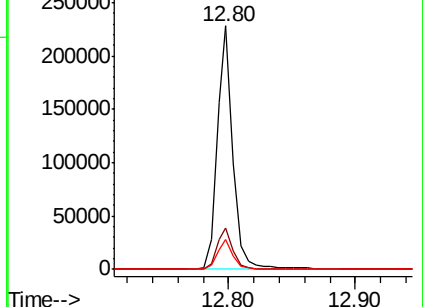
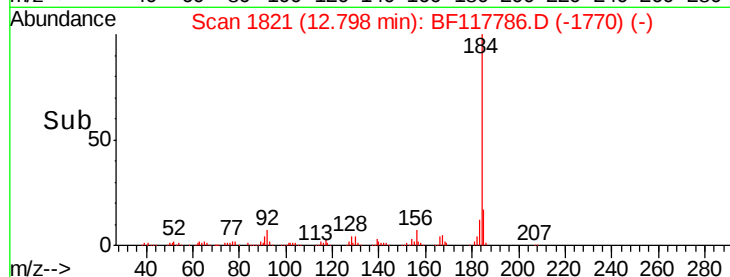
183 12.5 9.5 14.3



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 7.468 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

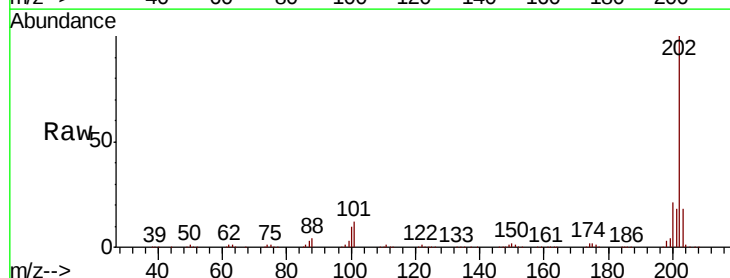
Tgt Ion:202 Resp: 456675

Ion Ratio Lower Upper

202 100

200 21.2 17.8 26.8

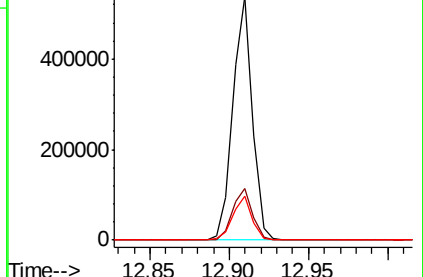
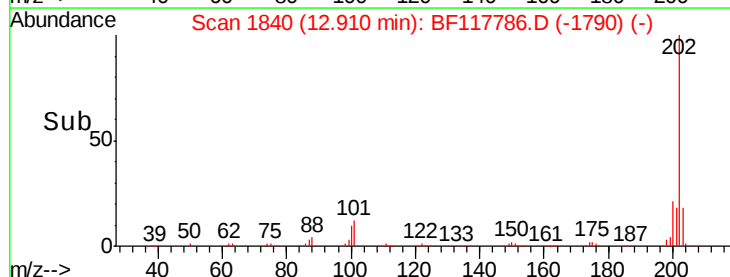
203 17.8 14.6 22.0

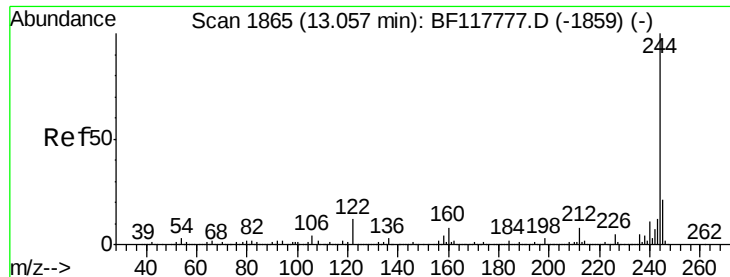


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 84.574 ng

RT: 13.06 min Scan# 1865

Delta R.T. 0.00 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

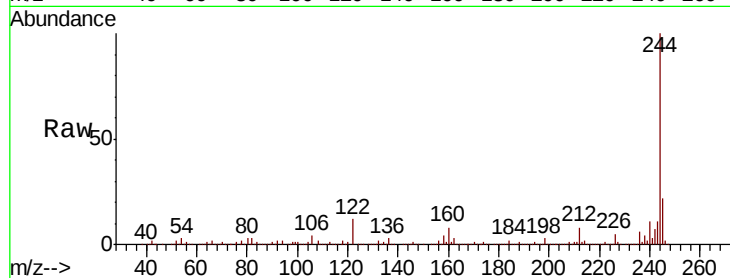
Tot Ion:244 Resp: 3501713

Ion Ratio Lower Upper

244 100

212 7.7 6.3 9.5

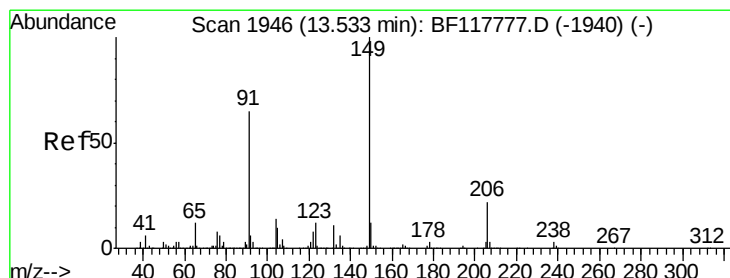
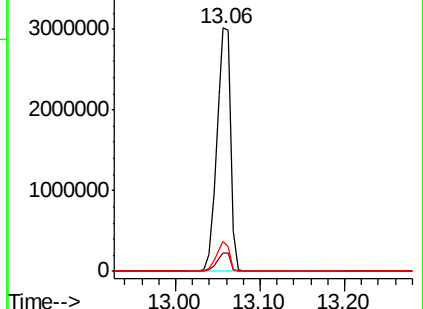
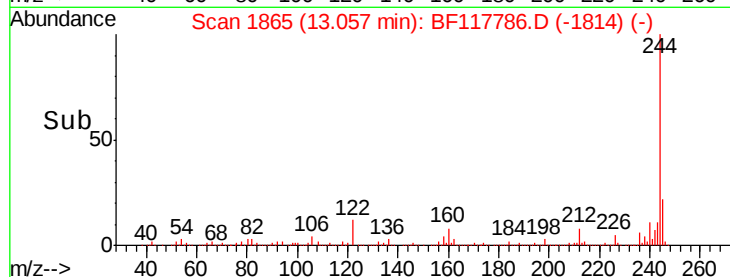
122 12.4 9.4 14.2



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Butylbenzylphthalate

Concen: 6.500 ng

RT: 13.53 min Scan# 1945

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

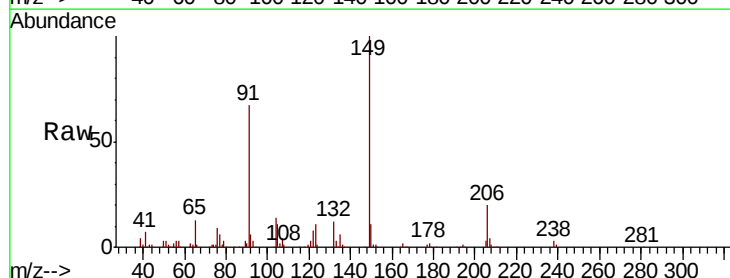
Tgt Ion:149 Resp: 170717

Ion Ratio Lower Upper

149 100

91 66.6 51.9 77.9

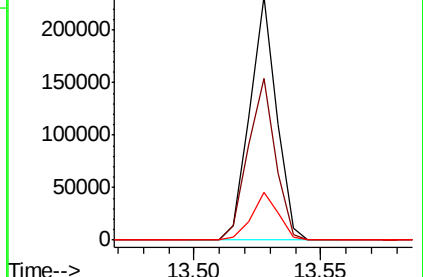
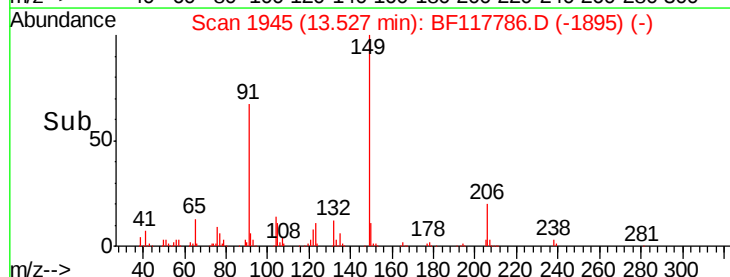
206 19.7 17.2 25.8

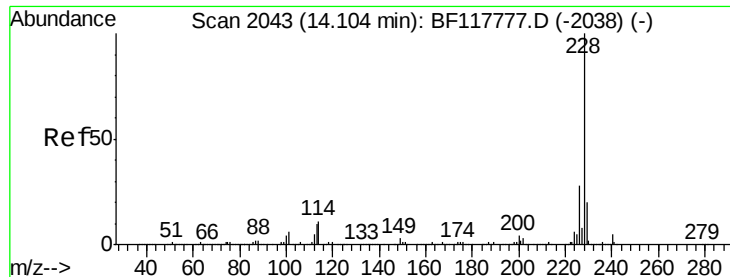


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF1

Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 7.866 ng

RT: 14.10 min Scan# 2042

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

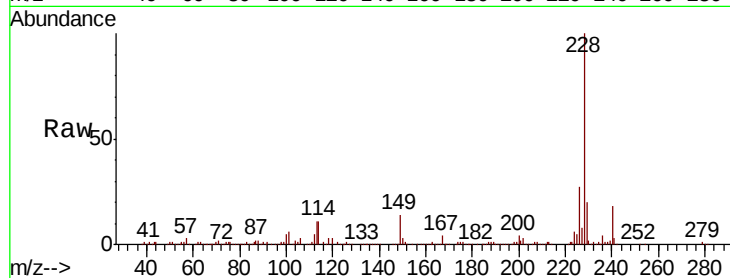
Tot Ion:228 Resp: 393318

Ion Ratio Lower Upper

228 100

226 26.7 22.2 33.2

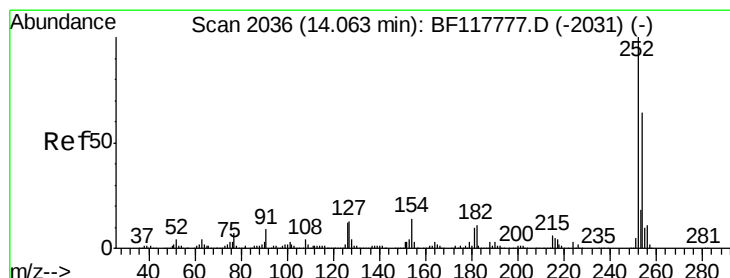
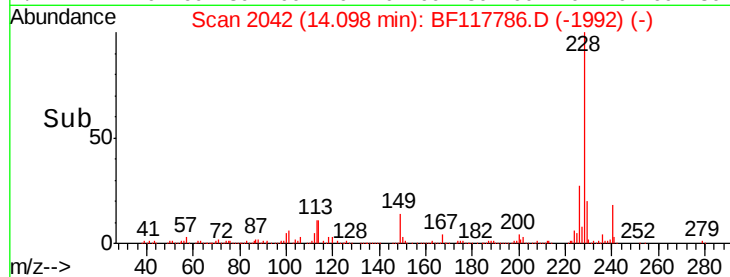
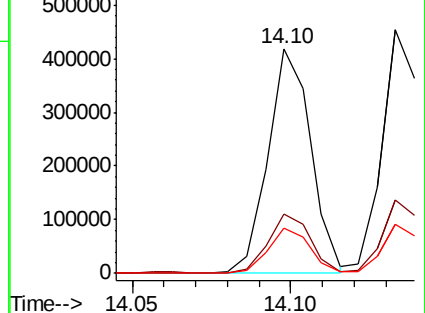
229 20.3 15.9 23.9



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

3,3'-Dichlorobenzidine

Concen: 8.039 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

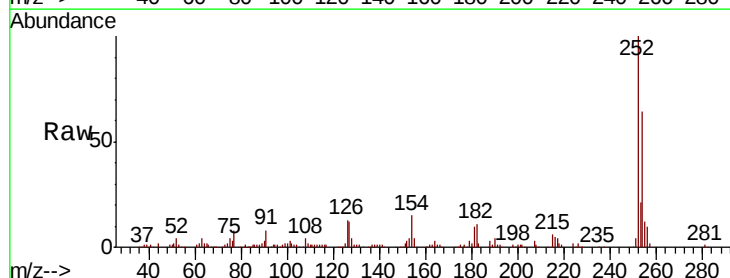
Tgt Ion:252 Resp: 140609

Ion Ratio Lower Upper

252 100

254 64.2 51.0 76.6

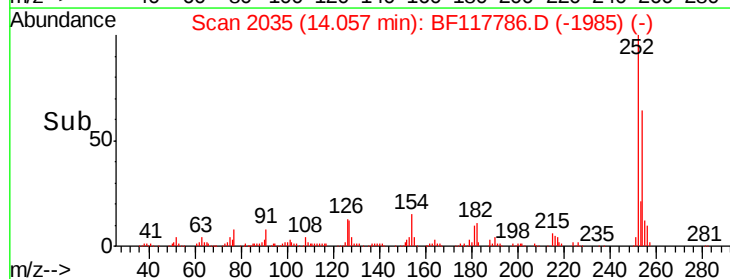
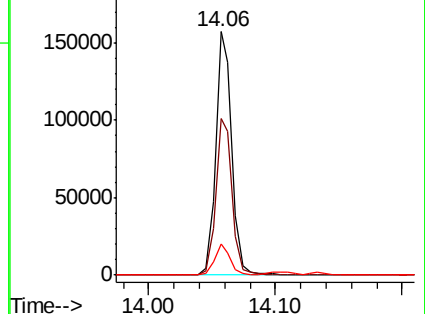
126 12.7 9.7 14.5

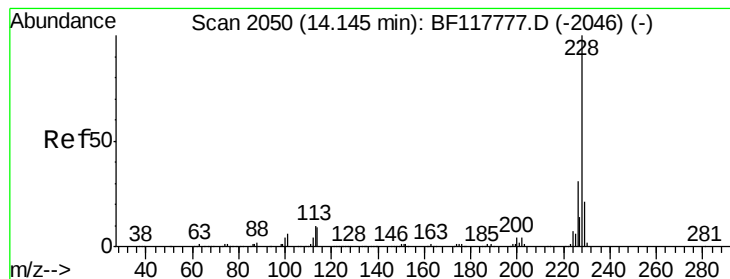


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#83

Chrysene

Concen: 7.993 ng

RT: 14.13 min Scan# 2048

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

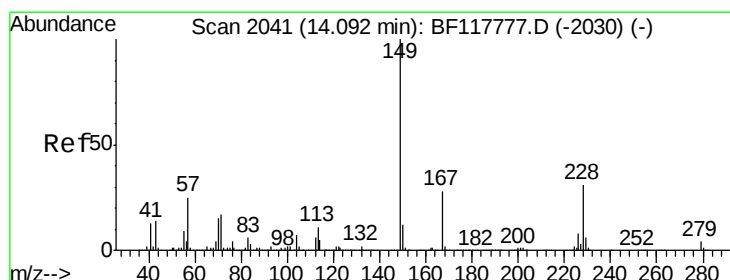
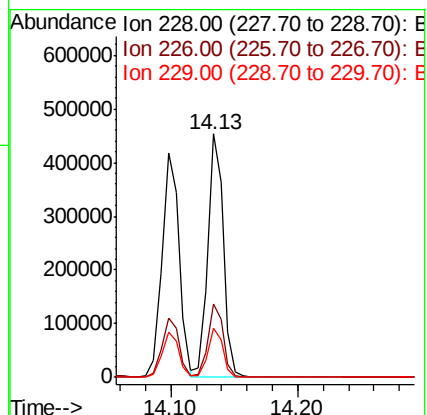
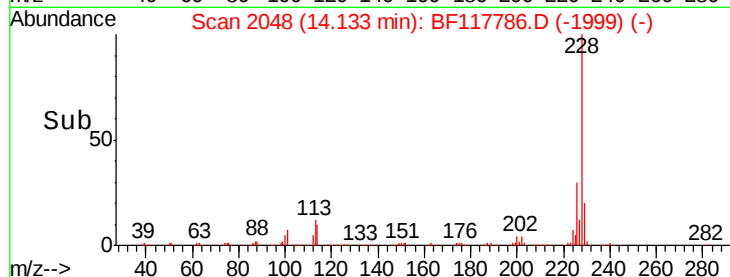
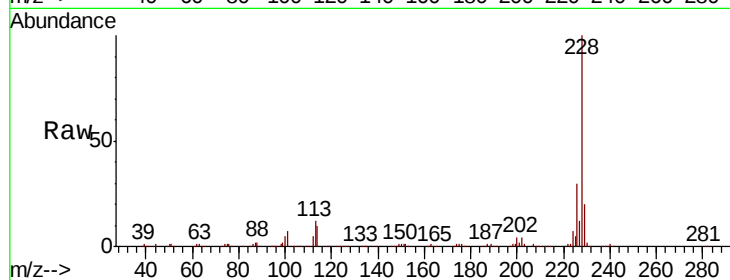
Tot Ion:228 Resp: 387303

Ion Ratio Lower Upper

228 100

226 30.0 25.0 37.4

229 20.1 16.6 25.0



#84

Bis(2-ethylhexyl)phthalate

Concen: 7.339 ng

RT: 14.09 min Scan# 2040

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

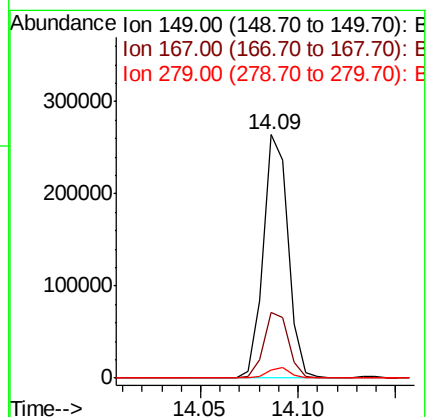
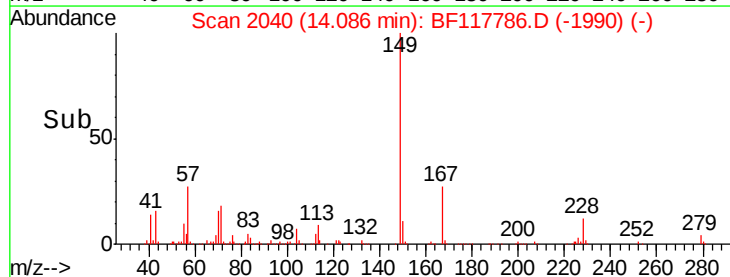
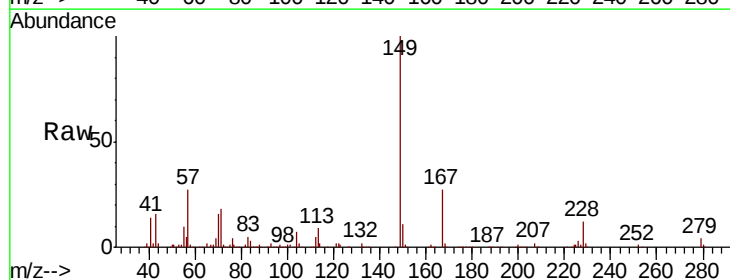
Tgt Ion:149 Resp: 233687

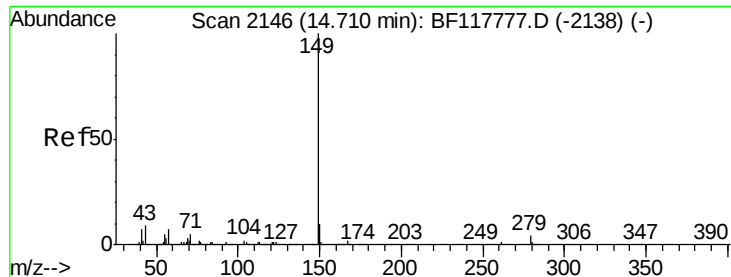
Ion Ratio Lower Upper

149 100

167 26.8 22.2 33.2

279 3.5 3.4 5.2

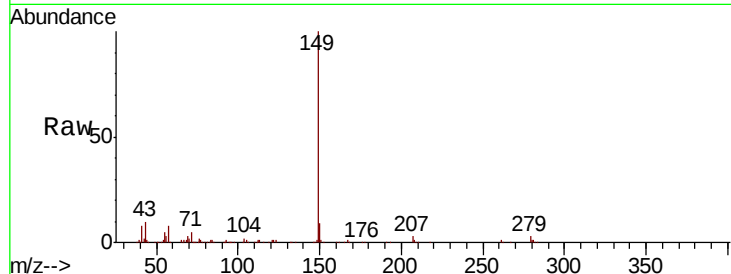




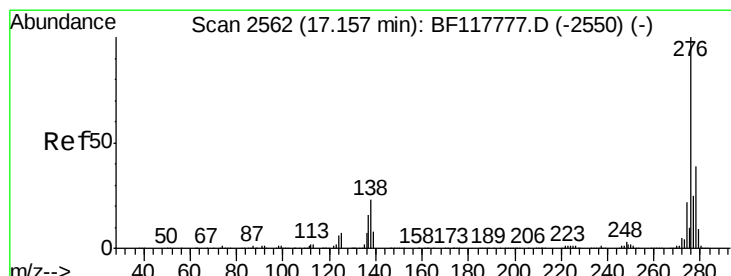
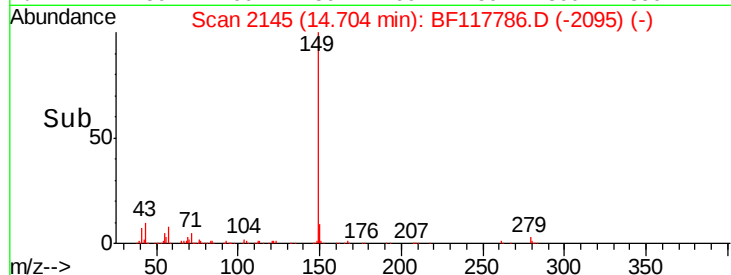
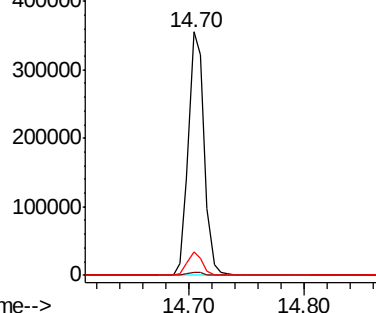
#85
Di-n-octyl phthalate
Concen: 7.248 ng
RT: 14.70 min Scan# 2145
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
149	100		
167	1.4	1.2	1.8
43	9.3	7.4	11.2

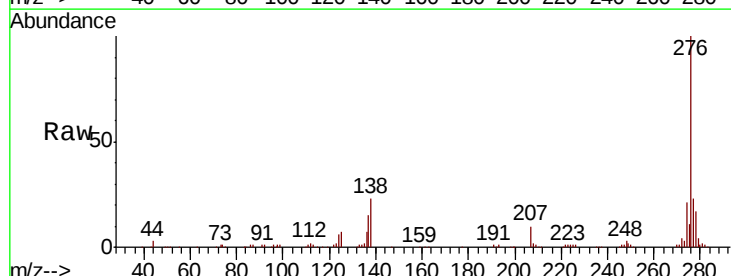


Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 43.00 (42.70 to 43.70): BF1

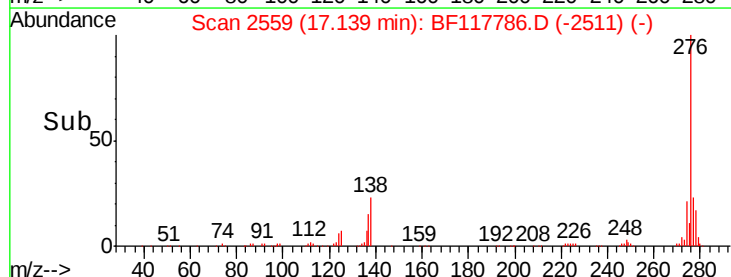
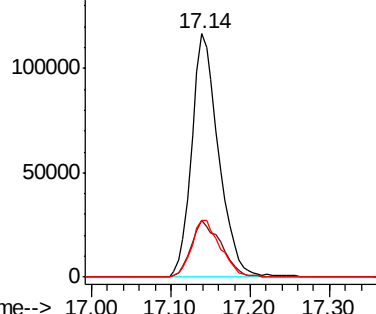


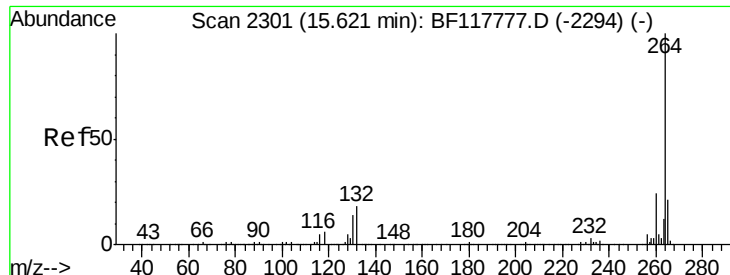
#86
Indeno(1,2,3-cd)pyrene
Concen: 6.663 ng
RT: 17.14 min Scan# 2559
Delta R.T. -0.02 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.5	20.9	31.3
277	24.9	20.3	30.5



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

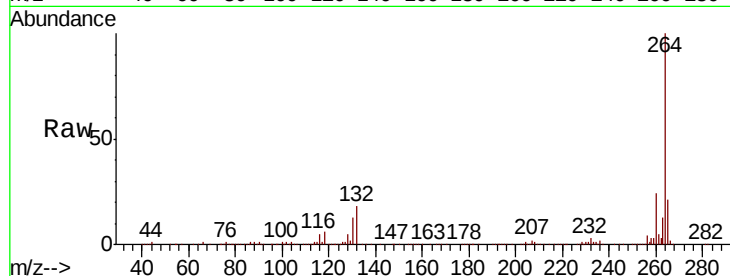




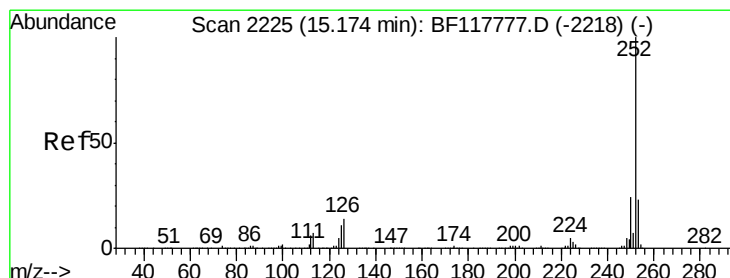
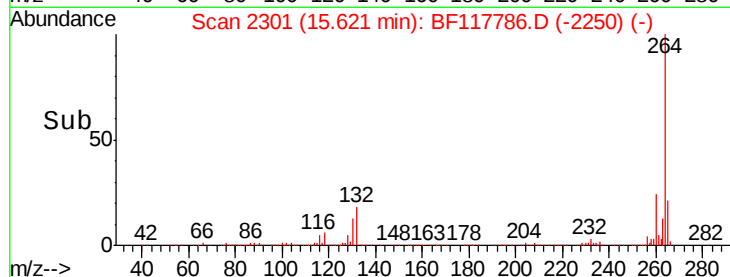
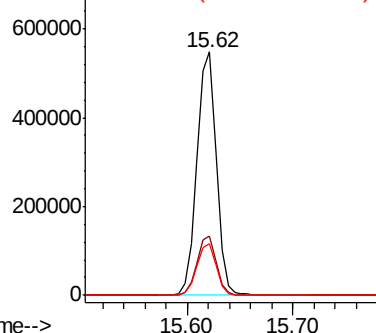
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.62 min Scan# 2301
Delta R.T. 0.00 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:264 Resp: 697152
Ion Ratio Lower Upper
264 100
260 24.1 19.4 29.0
265 21.1 17.1 25.7

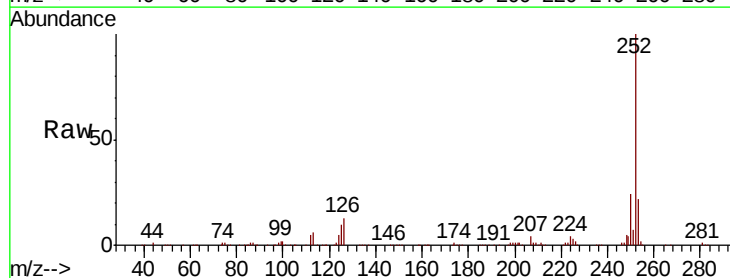


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

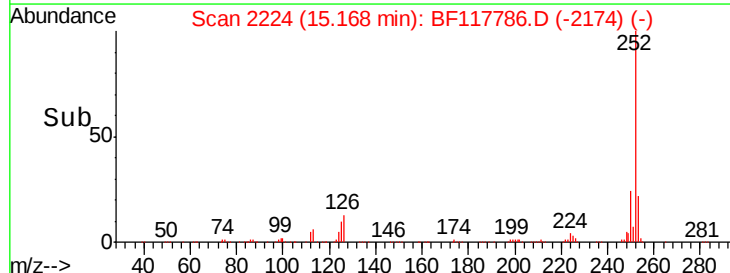
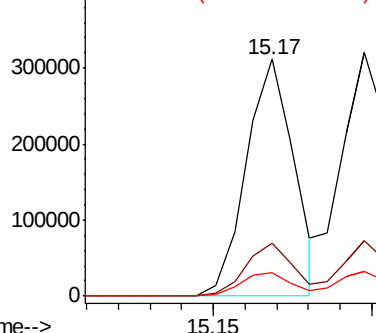


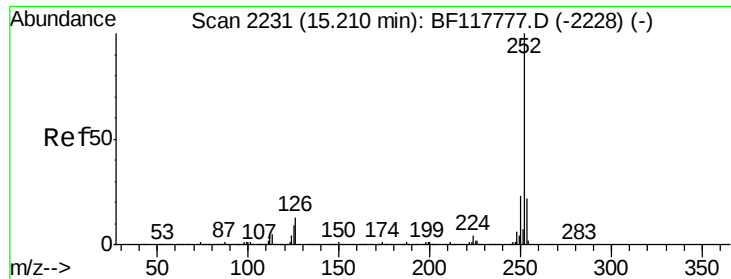
#88
Benzo(b)fluoranthene
Concen: 7.212 ng
RT: 15.17 min Scan# 2224
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion:252 Resp: 326671
Ion Ratio Lower Upper
252 100
253 22.2 18.0 27.0
125 10.1 8.6 13.0



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

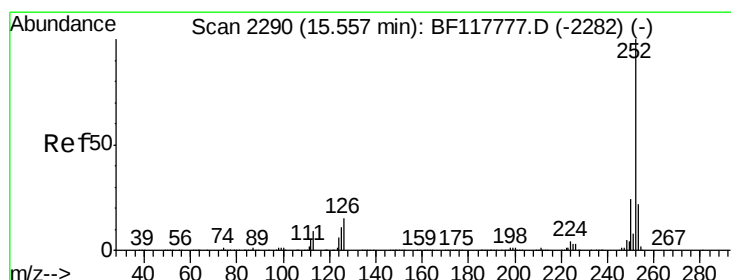
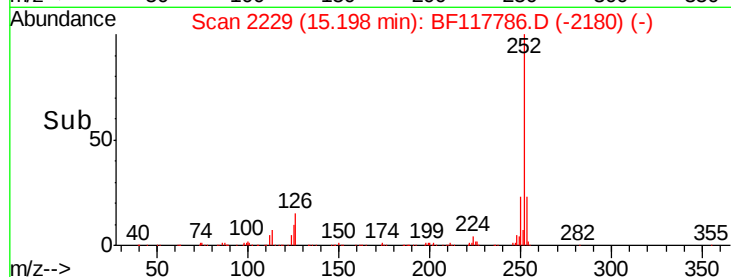
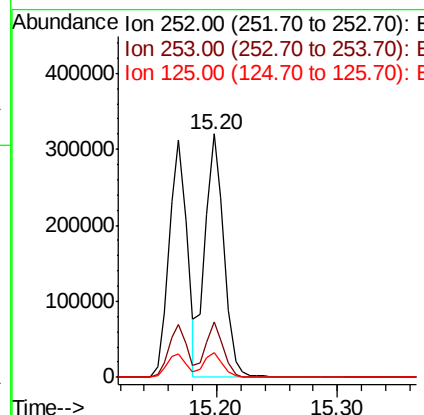
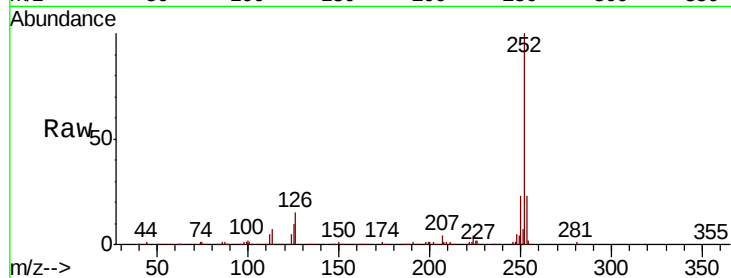




#89
Benzo(k)fluoranthene
Concen: 8.117 ng
RT: 15.20 min Scan# 2229
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

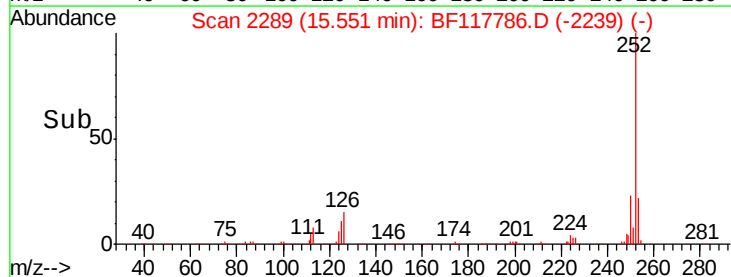
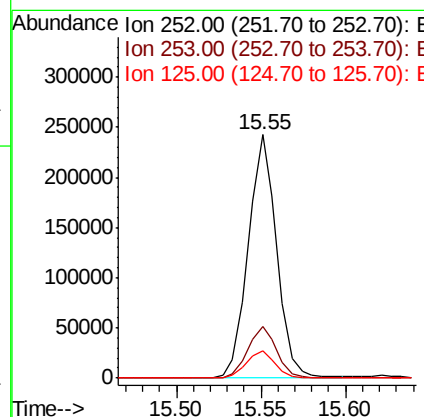
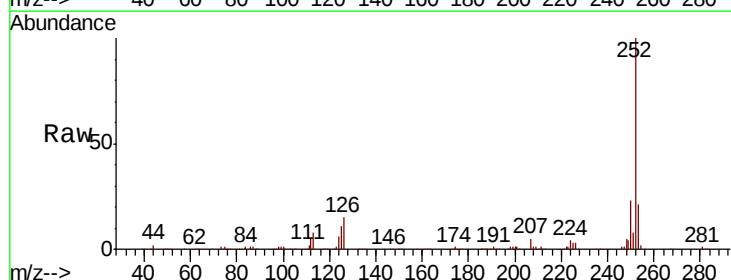
Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

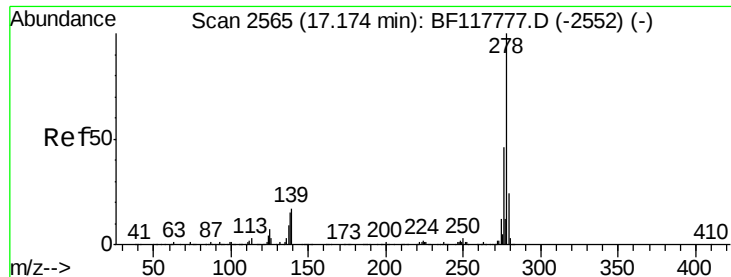
Tot Ion:252 Resp: 346395
Ion Ratio Lower Upper
252 100
253 22.8 17.5 26.3
125 10.2 7.9 11.9



#90
Benzo(a)pyrene
Concen: 7.160 ng
RT: 15.55 min Scan# 2289
Delta R.T. -0.01 min
Lab File: BF117786.D
Acq: 14 Nov 2019 10:14

Tgt Ion:252 Resp: 285188
Ion Ratio Lower Upper
252 100
253 21.5 17.8 26.6
125 11.0 9.2 13.8





#91

Dibenzo(a,h)anthracene

Concen: 6.686 ng

RT: 17.16 min Scan# 2563

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

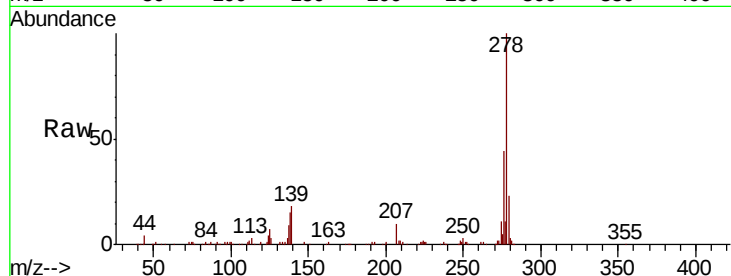
Tot Ion:278 Resp: 229200

Ion Ratio Lower Upper

278 100

139 17.7 13.8 20.8

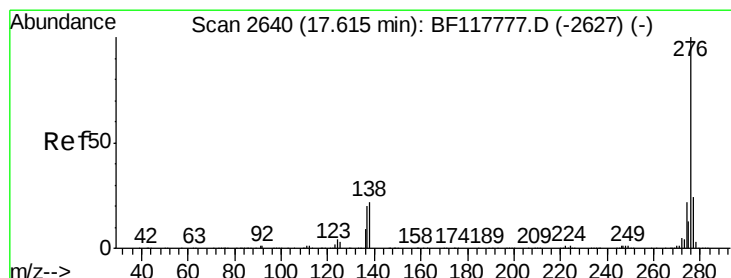
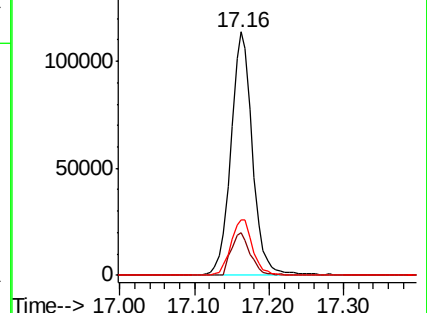
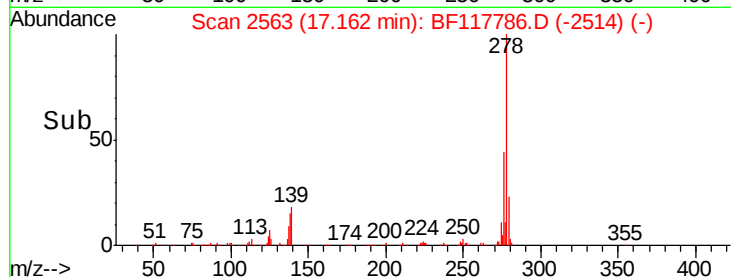
279 22.7 19.6 29.4



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 6.476 ng

RT: 17.60 min Scan# 2638

Delta R.T. -0.01 min

Lab File: BF117786.D

Acq: 14 Nov 2019 10:14

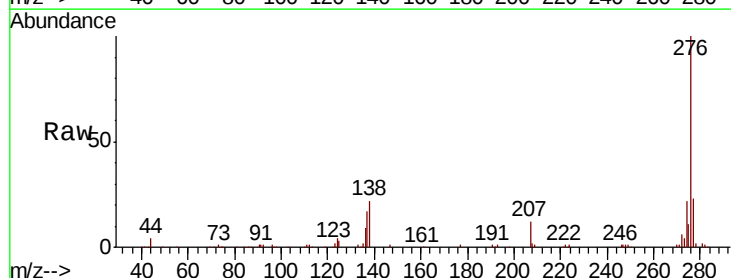
Tgt Ion:276 Resp: 221124

Ion Ratio Lower Upper

276 100

277 23.4 18.9 28.3

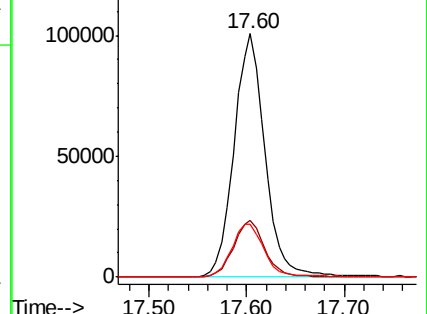
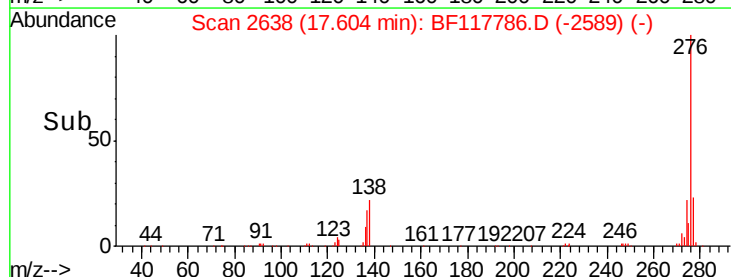
138 21.9 17.4 26.2



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111419\
 Data File : BF117786.D
 Acq On : 14 Nov 2019 10:14
 Operator : JU
 Sample : K5111-01
 Misc : LOD-MDL-SOIL-8PPM
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Quant Time: Nov 14 11:04:32 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 14 10:38:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.92	152	253504	20.00	ng	0.00
21) Naphthalene-d8	8.21	136	1006145	20.00	ng	0.00
39) Acenaphthene-d10	9.97	164	542023	20.00	ng	0.00
64) Phenanthrene-d10	11.46	188	1023897	20.00	ng	0.00
76) Chrysene-d12	14.11	240	756708	20.00	ng	0.00
87) Perylene-d12	15.62	264	697152	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.53	112	1898325	132.55	ng	0.00
7) Phenol-d6	6.55	99	2285184	132.29	ng	0.00
23) Nitrobenzene-d5	7.49	82	1729191	102.17	ng	0.00
42) 2,4,6-Tribromophenol	10.77	330	764777	133.27	ng	0.00
45) 2-Fluorobiphenyl	9.29	172	3040519	100.64	ng	0.00
79) Terphenyl-d14	13.06	244	3501713	84.57	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.72	88	48762	7.284	ng	98
3) Pyridine	3.53	79	115171	6.559	ng	99
4) n-Nitrosodimethylamine	3.42	42	57190	7.461	ng	# 96
6) Aniline	6.59	93	193844	8.492	ng	99
8) 2-Chlorophenol	6.71	128	133978	8.621	ng	96
9) Benzaldehyde	6.47	77	109642	10.161	ng	98
10) Phenol	6.56	94	144603	8.056	ng	96
11) bis(2-Chloroethyl)ether	6.66	93	121235	8.411	ng	97
12) 1,3-Dichlorobenzene	6.86	146	148088	8.094	ng	99
13) 1,4-Dichlorobenzene	6.94	146	151322	8.183	ng	99
14) 1,2-Dichlorobenzene	7.10	146	143636	8.121	ng	98
15) Benzyl Alcohol	7.06	79	91828	6.886	ng	98
16) 2,2'-oxybis(1-Chloropropan	7.19	45	174900	7.881	ng	98
17) 2-Methylphenol	7.16	107	109204	8.298	ng	98
18) Hexachloroethane	7.44	117	52930	7.791	ng	94
19) n-Nitroso-di-n-propylamine	7.33	70	92659	8.695	ng	99
20) 3+4-Methylphenols	7.32	107	140571	8.605	ng	98
22) Acetophenone	7.33	105	192486	8.515	ng	97
24) Nitrobenzene	7.50	77	147861	8.468	ng	97
25) Isophorone	7.74	82	250990	8.091	ng	97
26) 2-Nitrophenol	7.82	139	63898	7.519	ng	99
27) 2,4-Dimethylphenol	7.85	122	116340	8.810	ng	98
28) bis(2-Chloroethoxy)methane	7.95	93	156466	7.948	ng	97
29) 2,4-Dichlorophenol	8.06	162	114659	8.004	ng	95
30) 1,2,4-Trichlorobenzene	8.15	180	128612	7.740	ng	98
31) Naphthalene	8.23	128	412942	8.804	ng	97
32) Benzoic acid	7.90	122	45488	4.114	ng	96
33) 4-Chloroaniline	8.27	127	167712	7.987	ng	97
34) Hexachlorobutadiene	8.35	225	72119	7.424	ng	99
35) Caprolactam	8.61	113	33861	7.438	ng	92
36) 4-Chloro-3-methylphenol	8.75	107	114467	7.874	ng	96
37) 2-Methylnaphthalene	8.92	142	278177	8.777	ng	98
38) 1-Methylnaphthalene	9.02	142	261694	8.734	ng	100
40) 1,2,4,5-Tetrachlorobenzene	9.09	216	122035	7.753	ng	99

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111419\
 Data File : BF117786.D
 Acq On : 14 Nov 2019 10:14
 Operator : JU
 Sample : K5111-01
 Misc : LOD-MDL-SOIL-8PPM
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Quant Time: Nov 14 11:04:32 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 14 10:38:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Hexachlorocyclopentadiene	9.08	237	66723	7.564	ng	97
43) 2,4,6-Trichlorophenol	9.20	196	79762	7.074	ng	96
44) 2,4,5-Trichlorophenol	9.23	196	86806	7.415	ng	99
46) 1,1'-Biphenyl	9.39	154	344721	8.572	ng	98
47) 2-Chloronaphthalene	9.42	162	259368	7.840	ng	98
48) 2-Nitroaniline	9.50	65	68138	6.822	ng	95
49) Acenaphthylene	9.83	152	415229	8.609	ng	97
50) Dimethylphthalate	9.68	163	298079	7.842	ng	98
51) 2,6-Dinitrotoluene	9.75	165	62201	7.488	ng	91
52) Acenaphthene	10.00	154	254694	8.243	ng	99
53) 3-Nitroaniline	9.91	138	67248	6.765	ng	96
54) 2,4-Dinitrophenol	10.02	184	18718	5.076	ng	# 1
55) Dibenzofuran	10.17	168	372094	8.697	ng	97
56) 4-Nitrophenol	10.06	139	51814	6.983	ng	97
57) 2,4-Dinitrotoluene	10.15	165	79774	7.549	ng	98
58) Fluorene	10.52	166	287378	8.668	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.29	232	71668	7.451	ng	98
60) Diethylphthalate	10.39	149	294167	7.938	ng	99
61) 4-Chlorophenyl-phenylether	10.52	204	140512	8.351	ng	95
62) 4-Nitroaniline	10.52	138	68599	6.893	ng	97
63) Azobenzene	10.67	77	278198	8.252	ng	97
65) 4,6-Dinitro-2-methylphenol	10.56	198	29388	6.148	ng	90
66) n-Nitrosodiphenylamine	10.63	169	250960	8.422	ng	99
67) 4-Bromophenyl-phenylether	11.00	248	86451	7.825	ng	92
68) Hexachlorobenzene	11.07	284	100263	7.783	ng	# 91
69) Atrazine	11.15	200	72663	7.413	ng	98
70) Pentachlorophenol	11.26	266	49754	6.611	ng	99
71) Phenanthrene	11.49	178	445302	8.650	ng	96
72) Anthracene	11.54	178	445745	8.733	ng	97
73) Carbazole	11.69	167	389617	8.736	ng	98
74) Di-n-butylphthalate	12.02	149	456797	8.226	ng	99
75) Fluoranthene	12.68	202	446795	8.972	ng	98
77) Benzidine	12.80	184	198815	8.021	ng	97
78) Pyrene	12.91	202	456675	7.468	ng	98
80) Butylbenzylphthalate	13.53	149	170717	6.500	ng	97
81) Benzo(a)anthracene	14.10	228	393318	7.866	ng	98
82) 3,3'-Dichlorobenzidine	14.06	252	140609	8.039	ng	99
83) Chrysene	14.13	228	387303	7.993	ng	98
84) Bis(2-ethylhexyl)phthalate	14.09	149	233687	7.339	ng	98
85) Di-n-octyl phthalate	14.70	149	339058	7.248	ng	100
86) Indeno(1,2,3-cd)pyrene	17.14	276	274796	6.663	ng	99
88) Benzo(b)fluoranthene	15.17	252	326671	7.212	ng	99
89) Benzo(k)fluoranthene	15.20	252	346395	8.117	ng	98
90) Benzo(a)pyrene	15.55	252	285188	7.160	ng	99
91) Dibenzo(a,h)anthracene	17.16	278	229200	6.686	ng	97
92) Benzo(g,h,i)perylene	17.60	276	221124	6.476	ng	100

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