

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041919\
 Data File : BF113855.D
 Acq On : 19 Apr 2019 13:45
 Operator : JU/SJ
 Sample : K2413-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NCC-TOPSOIL-KY

Quant Time: Apr 19 23:22:02 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 18 13:55:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	200546	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	685052	20.00	ng	0.00
39) Acenaphthene-d10	9.93	164	298526	20.00	ng	0.00
64) Phenanthrene-d10	11.41	188	517660	20.00	ng	0.00
76) Chrysene-d12	14.05	240	559340	20.00	ng	0.00
87) Perylene-d12	15.52	264	563166	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.52	112	839814	69.63	ng	0.00
7) Phenol-d6	6.52	99	1044817	69.47	ng	0.00
23) Nitrobenzene-d5	7.45	82	616091	54.77	ng	0.00
42) 2,4,6-Tribromophenol	10.72	330	238383	72.28	ng	0.00
45) 2-Fluorobiphenyl	9.25	172	1097695	56.08	ng	0.00
79) Terphenyl-d14	13.00	244	1165322	43.69	ng	0.00

Target Compounds

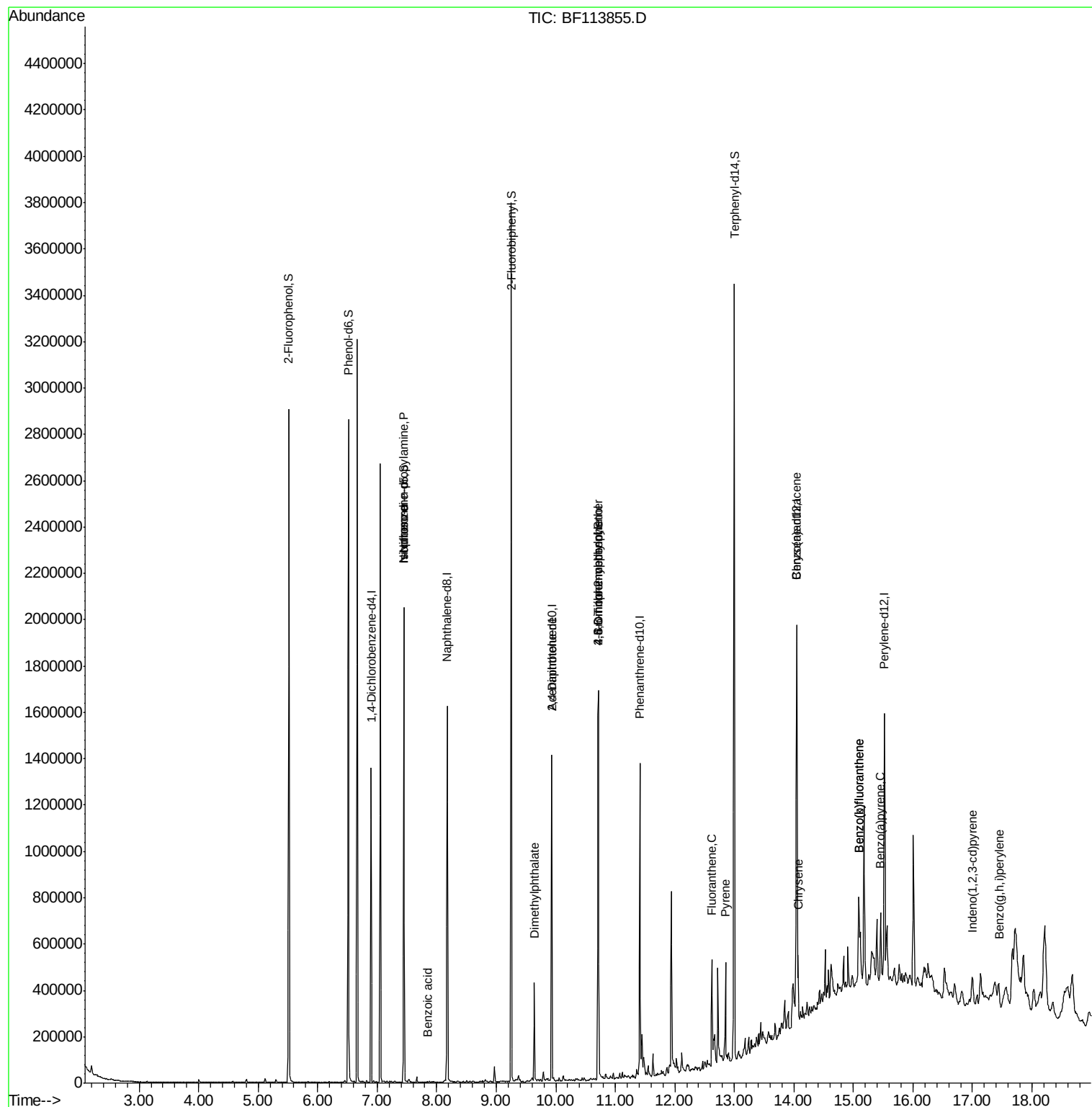
						Qvalue
9) Benzaldehyde	6.44	77	1042	Below Cal		93
19) n-Nitroso-di-n-propylamine	7.45	70	82845	8.252 ng	#	78
25) Isophorone	7.45	82	616084	26.451 ng	#	65
32) Benzoic acid	7.85	122	426	5.985 ng		90
50) Dimethylphthalate	9.64	163	156686	7.500 ng		99
57) 2,4-Dinitrotoluene	9.93	165	38410	6.715 ng	#	29
65) 4,6-Dinitro-2-methylphenol	10.72	198	333	7.060 ng	#	1
67) 4-Bromophenyl-phenylether	10.72	248	14360	2.362 ng	#	1
75) Fluoranthene	12.62	202	161418	5.777 ng		98
78) Pyrene	12.85	202	164641	4.177 ng		96
81) Benzo(a)anthracene	14.04	228	131489	4.022 ng		94
83) Chrysene	14.07	228	133006	4.098 ng		97
86) Indeno(1,2,3-cd)pyrene	16.99	276	83787	3.163 ng		95
88) Benzo(b)fluoranthene	15.09	252	298199	8.494 ng	#	96
89) Benzo(k)fluoranthene	15.09	252	298199	9.326 ng	#	97
90) Benzo(a)pyrene	15.46	252	141167	4.547 ng		95
92) Benzo(g,h,i)perylene	17.44	276	74595	2.657 ng		99

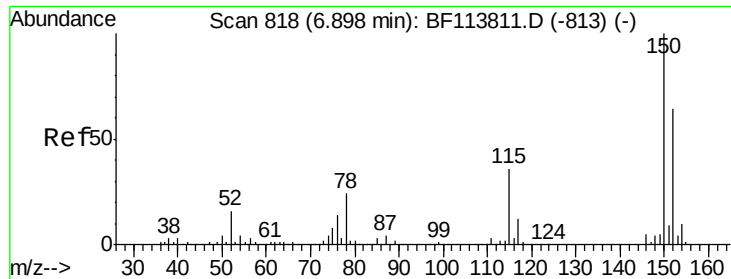
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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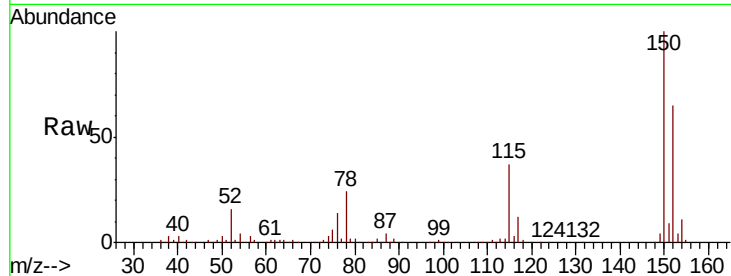


#1

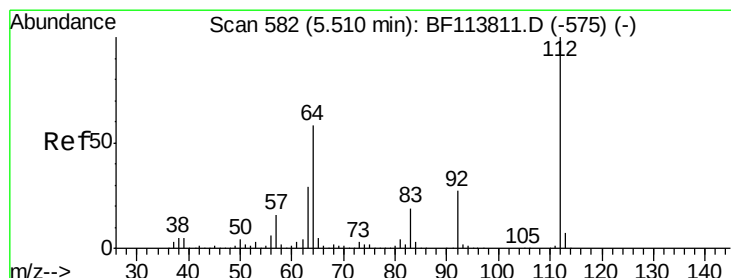
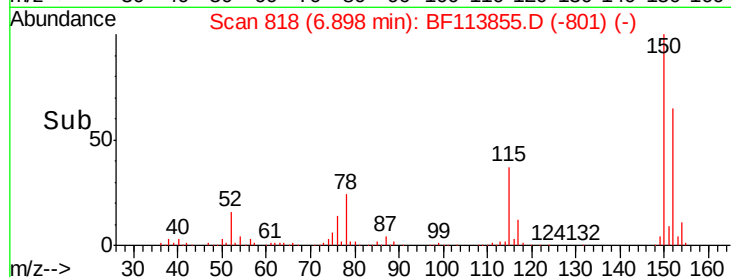
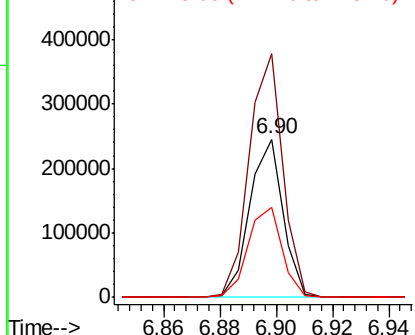
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.90 min Scan# 818
Delta R.T. -0.00 min
Lab File: BF113855.D
Acq: 19 Apr 2019 13:45

Instrument :
BNA_F
ClientSampleId :
NCC-TOPSOIL-KY

Tgt Ion:152 Resp: 200546
Ion Ratio Lower Upper
152 100
150 153.9 125.9 188.9
115 56.7 45.9 68.9



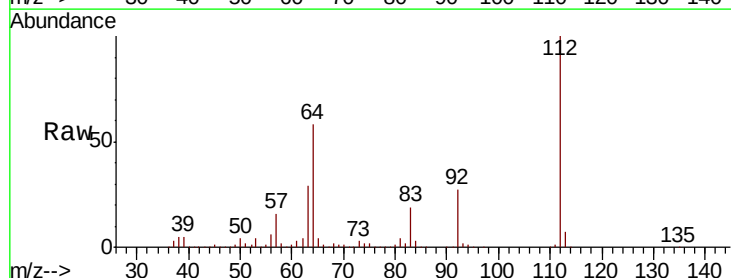
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



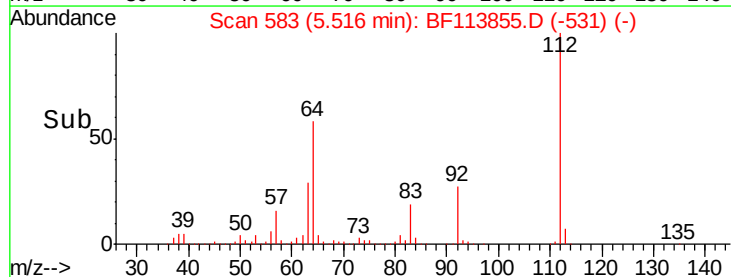
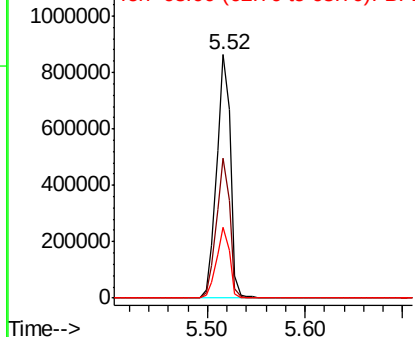
#5

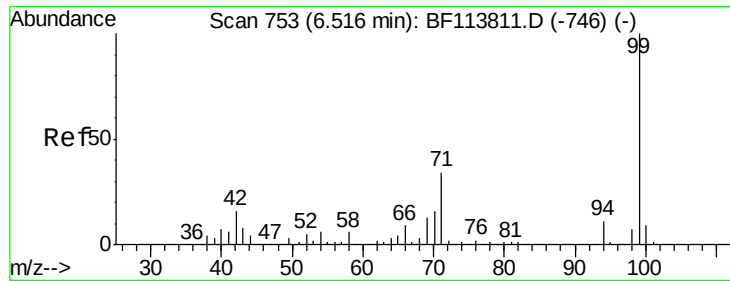
2-Fluorophenol
Concen: 69.631 ng
RT: 5.52 min Scan# 583
Delta R.T. 0.01 min
Lab File: BF113855.D
Acq: 19 Apr 2019 13:45

Tgt Ion:112 Resp: 839814
Ion Ratio Lower Upper
112 100
64 57.7 46.6 69.8
63 29.2 23.1 34.7



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





#7

Phenol-d6

Concen: 69.465 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.00 min

Lab File: BF113855.D

Acq: 19 Apr 2019 13:45

Instrument :

BNA_F

ClientSampleId :

NCC-TOPSOIL-KY

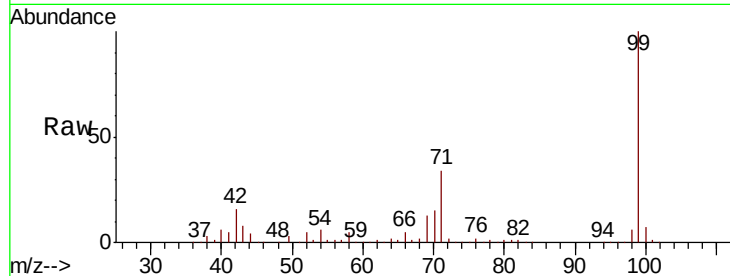
Tgt Ion: 99 Resp: 1044817

Ion Ratio Lower Upper

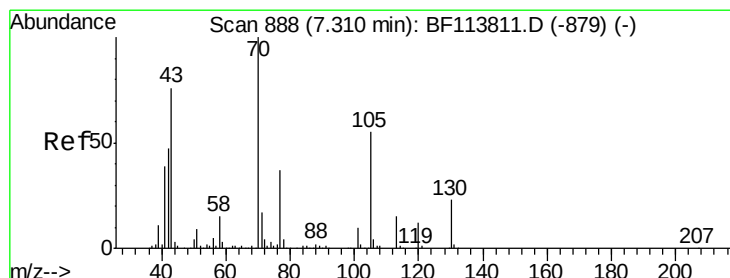
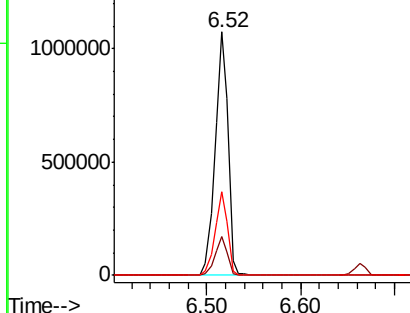
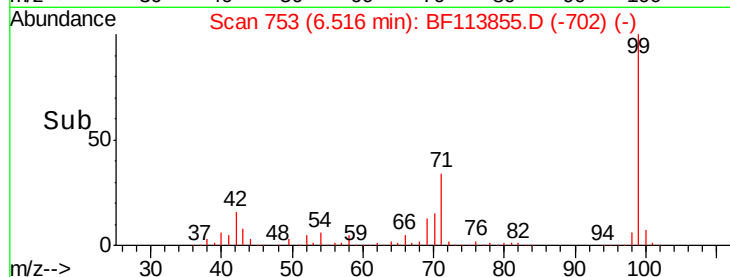
99 100

42 15.8 12.5 18.7

71 34.1 26.9 40.3



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 8.252 ng

RT: 7.45 min Scan# 912

Delta R.T. 0.14 min

Lab File: BF113855.D

Acq: 19 Apr 2019 13:45

Tgt Ion: 70 Resp: 82845

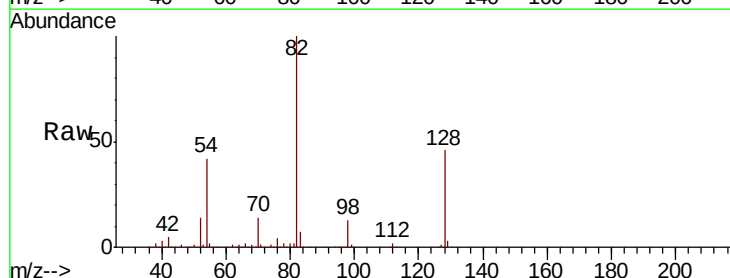
Ion Ratio Lower Upper

70 100

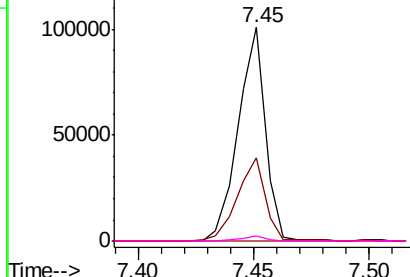
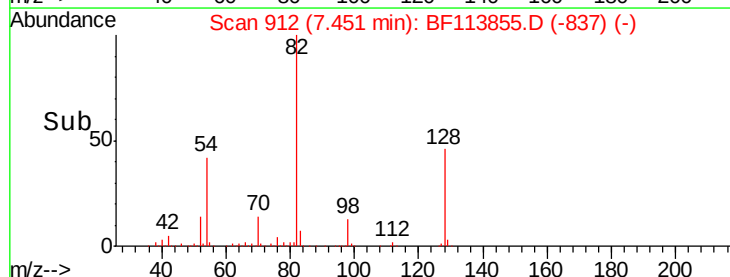
42 39.0 37.3 55.9

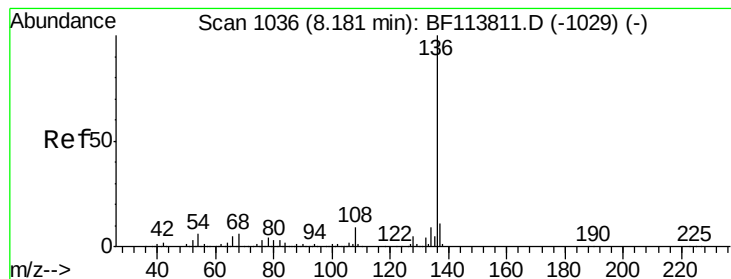
101 0.0 7.8 11.8#

130 2.5 18.2 27.2#



Abundance Ion 70.00 (69.70 to 70.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 101.00 (100.70 to 101.70): E
Ion 130.00 (129.70 to 130.70): E





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.17 min Scan# 1035

Delta R.T. -0.01 min

Lab File: BF113855.D

Acq: 19 Apr 2019 13:45

Instrument :

BNA_F

ClientSampleId :

NCC-TOPSOIL-KY

Tgt Ion:136 Resp: 685052

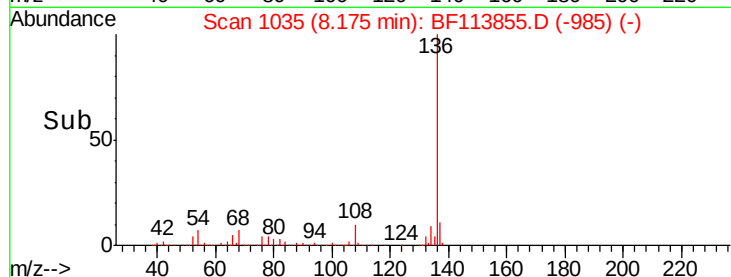
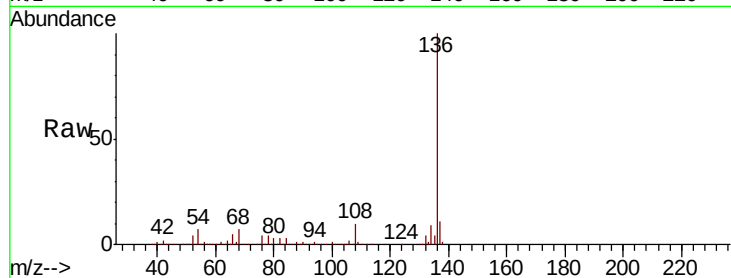
Ion Ratio Lower Upper

136 100

137 11.4 8.6 12.8

54 6.8 5.0 7.6

68 6.8 4.9 7.3

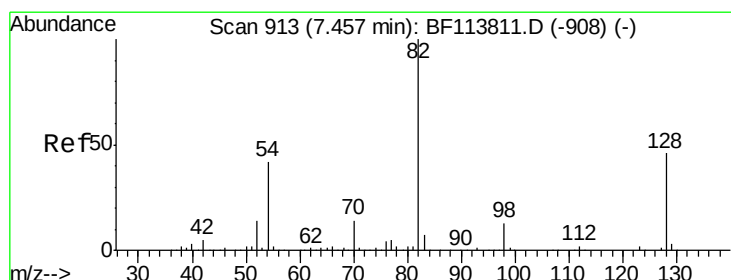
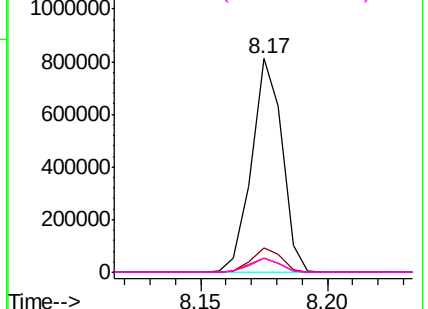


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 54.766 ng

RT: 7.45 min Scan# 912

Delta R.T. -0.01 min

Lab File: BF113855.D

Acq: 19 Apr 2019 13:45

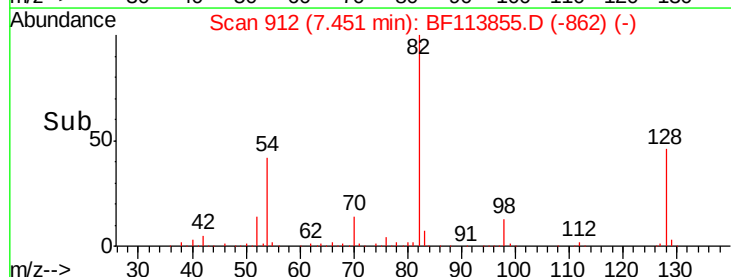
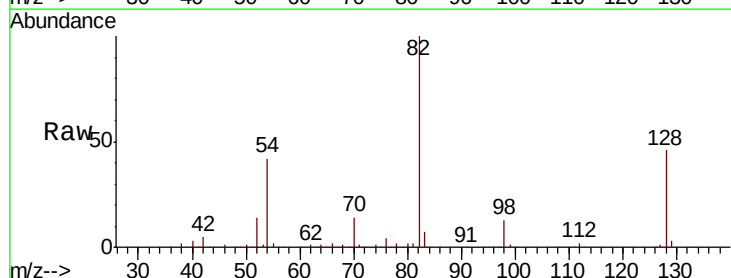
Tgt Ion: 82 Resp: 616091

Ion Ratio Lower Upper

82 100

128 46.3 36.8 55.2

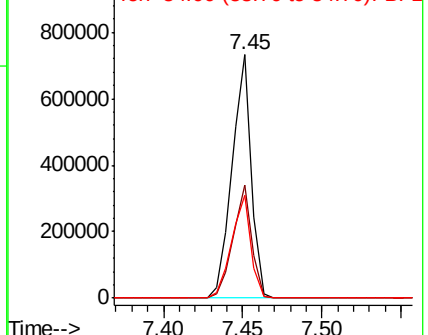
54 42.3 33.8 50.6

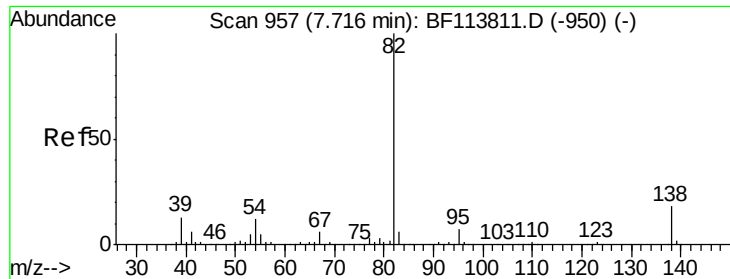


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 26.451 ng

RT: 7.45 min Scan# 912

Delta R.T. -0.26 min

Lab File: BF113855.D

Acq: 19 Apr 2019 13:45

Instrument :

BNA_F

ClientSampleId :

NCC-TOPSOIL-KY

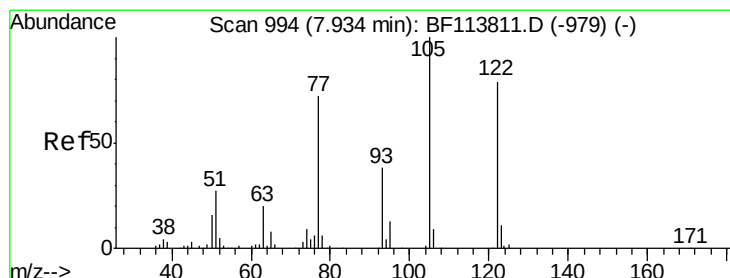
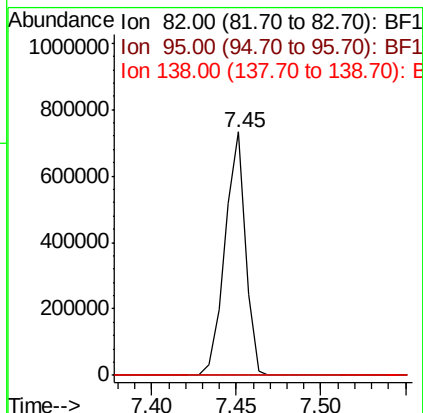
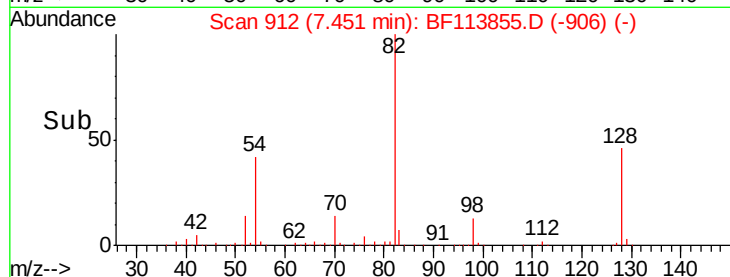
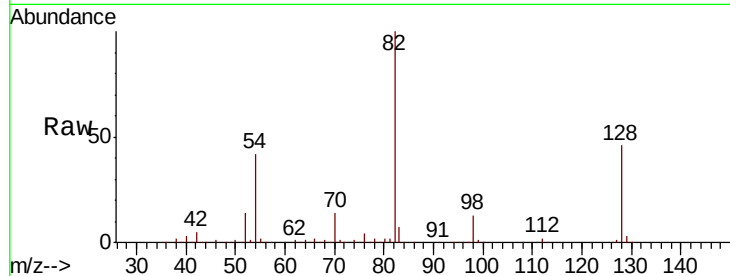
Tgt Ion: 82 Resp: 616084

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

138 0.0 14.6 22.0#



#32

Benzoic acid

Concen: 5.985 ng

RT: 7.85 min Scan# 980

Delta R.T. -0.08 min

Lab File: BF113855.D

Acq: 19 Apr 2019 13:45

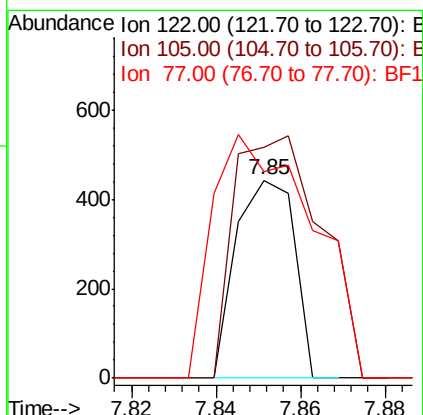
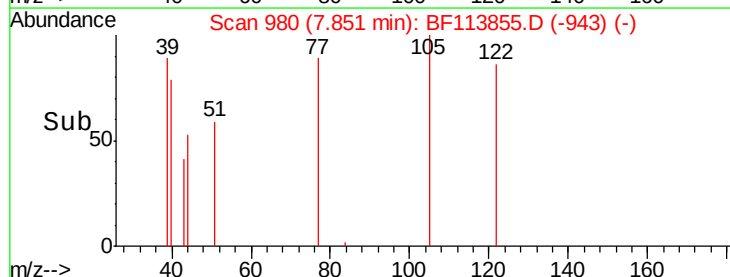
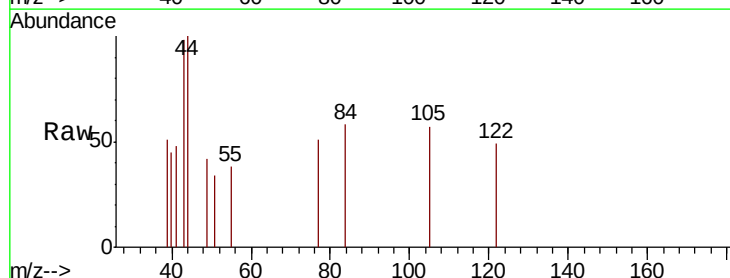
Tgt Ion: 122 Resp: 426

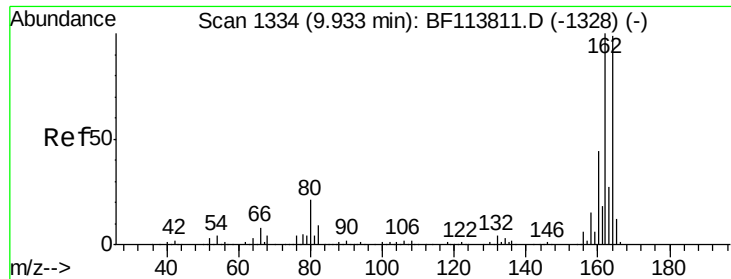
Ion Ratio Lower Upper

122 100

105 116.5 104.3 144.3

77 104.1 70.4 110.4

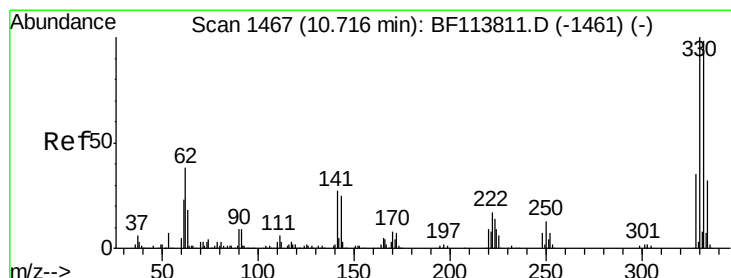
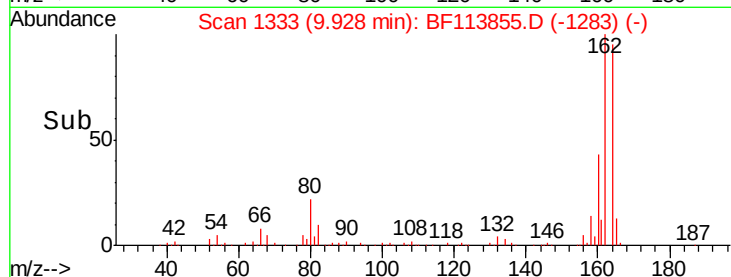
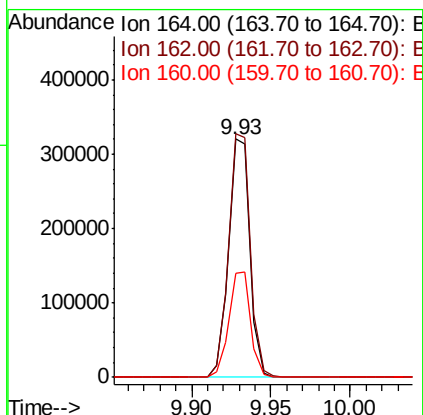
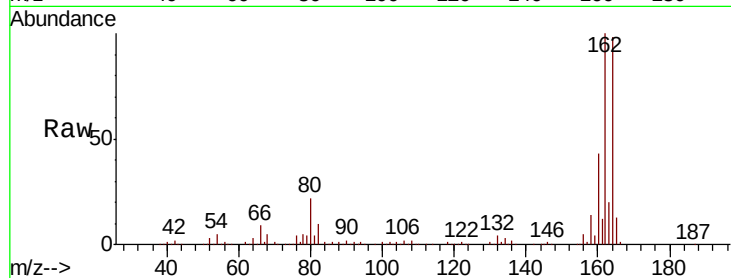




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.93 min Scan# 1333
 Delta R.T. -0.01 min
 Lab File: BF113855.D
 Acq: 19 Apr 2019 13:45

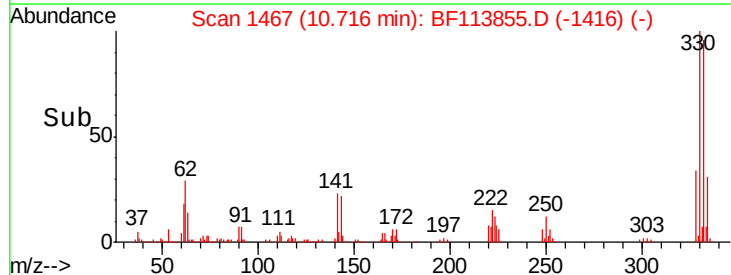
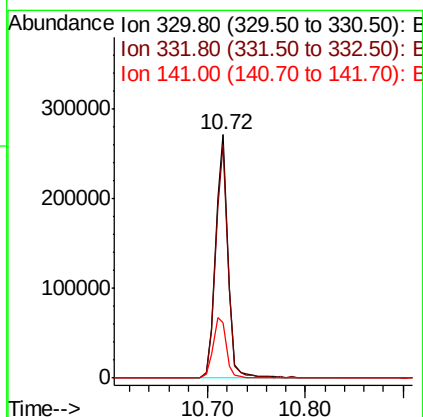
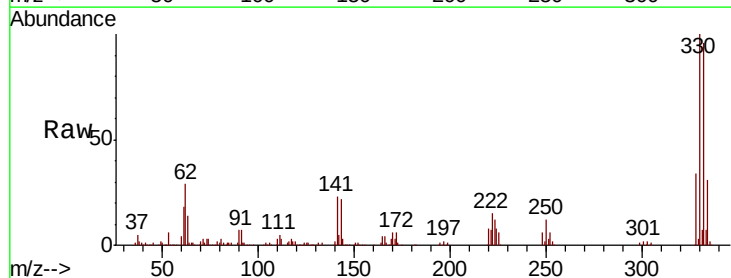
Instrument :
 BNA_F
 ClientSampleId :
 NCC-TOPSOIL-KY

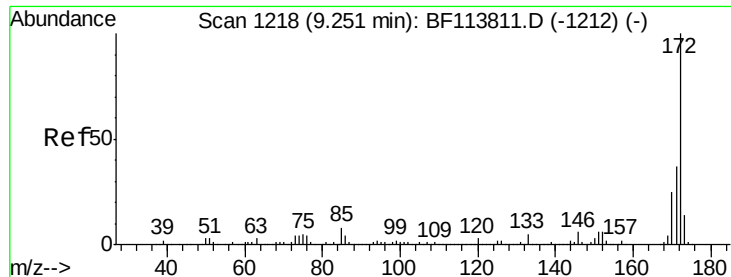
Tgt Ion:164 Resp: 298526
 Ion Ratio Lower Upper
 164 100
 162 102.1 81.1 121.7
 160 43.6 35.8 53.6



#42
 2,4,6-Tribromophenol
 Concen: 72.277 ng
 RT: 10.72 min Scan# 1467
 Delta R.T. -0.00 min
 Lab File: BF113855.D
 Acq: 19 Apr 2019 13:45

Tgt Ion:330 Resp: 238383
 Ion Ratio Lower Upper
 330 100
 332 96.5 77.5 116.3
 141 27.6 22.2 33.2

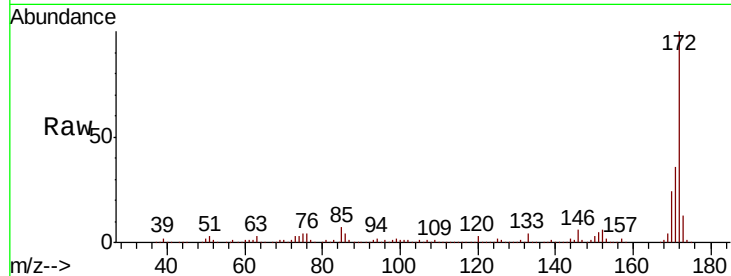




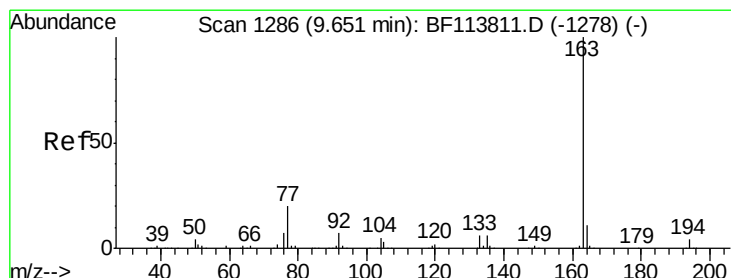
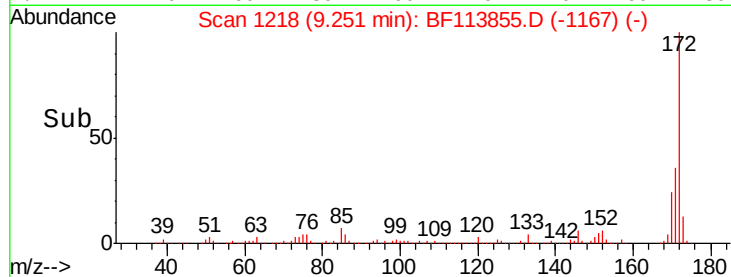
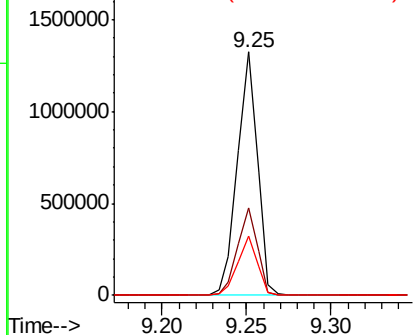
#45
2-Fluorobiphenyl
Concen: 56.076 ng
RT: 9.25 min Scan# 1218
Delta R.T. -0.00 min
Lab File: BF113855.D
Acq: 19 Apr 2019 13:45

Instrument :
BNA_F
ClientSampleId :
NCC-TOPSOIL-KY

Tgt Ion:172 Resp: 1097695
Ion Ratio Lower Upper
172 100
171 36.1 29.4 44.0
170 24.1 19.9 29.9

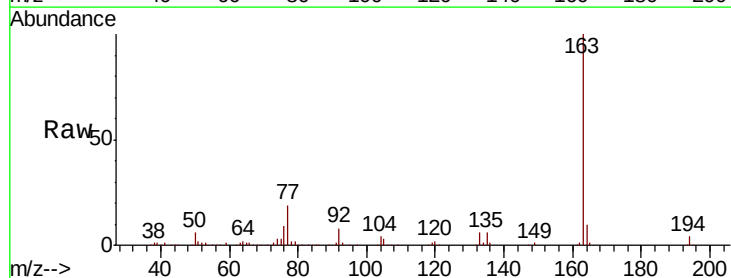


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

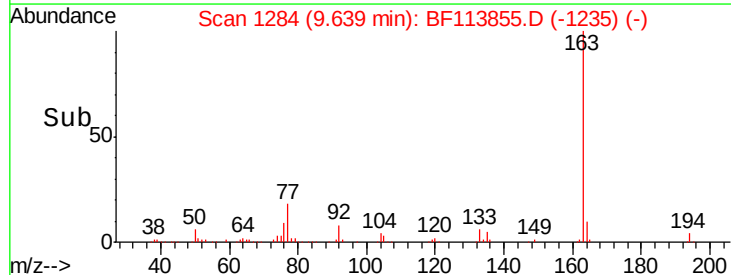
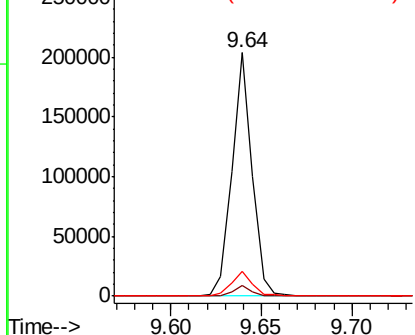


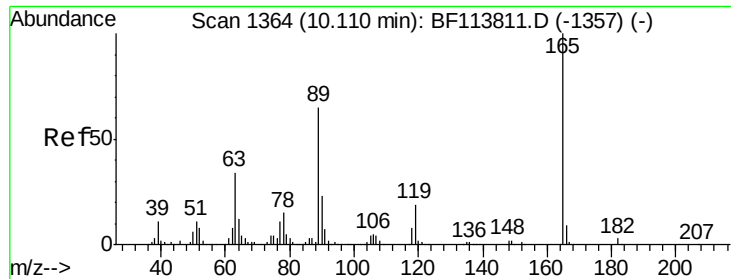
#50
Dimethylphthalate
Concen: 7.500 ng
RT: 9.64 min Scan# 1284
Delta R.T. -0.01 min
Lab File: BF113855.D
Acq: 19 Apr 2019 13:45

Tgt Ion:163 Resp: 156686
Ion Ratio Lower Upper
163 100
194 4.4 3.4 5.2
164 10.1 8.5 12.7



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





#57

2,4-Dinitrotoluene

Concen: 6.715 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.18 min

Lab File: BF113855.D

Acq: 19 Apr 2019 13:45

Instrument :

BNA_F

ClientSampleId :

NCC-TOPSOIL-KY

Tgt Ion:165 Resp: 38410

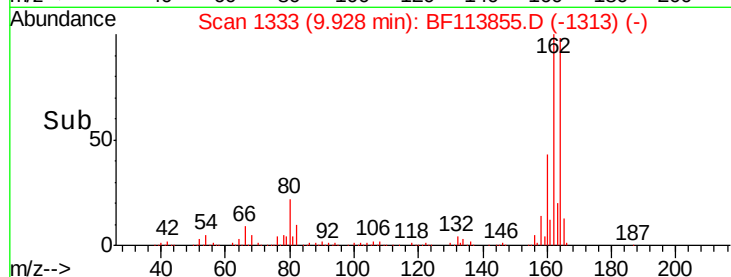
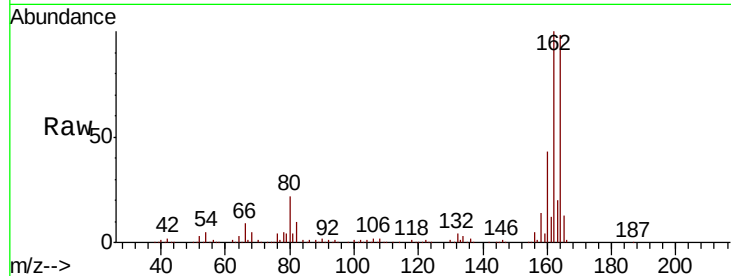
Ion Ratio Lower Upper

165 100

63 1.2 27.4 41.0#

89 1.3 51.8 77.6#

182 0.0 2.2 3.2#

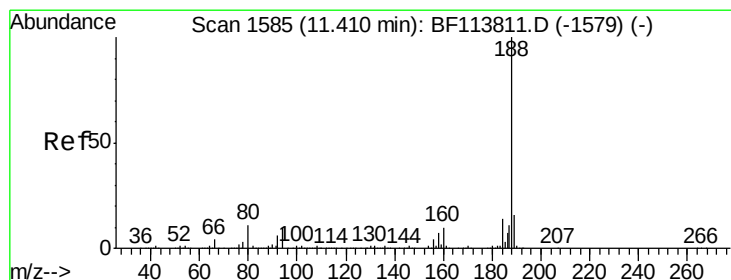
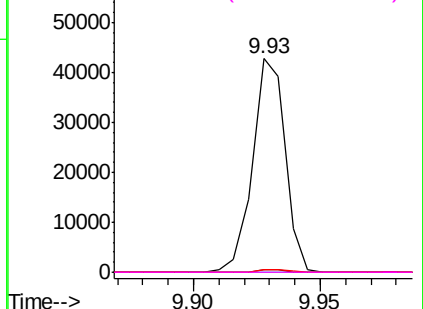


Abundance Ion 165.00 (164.70 to 165.70): E

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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.00 min

Lab File: BF113855.D

Acq: 19 Apr 2019 13:45

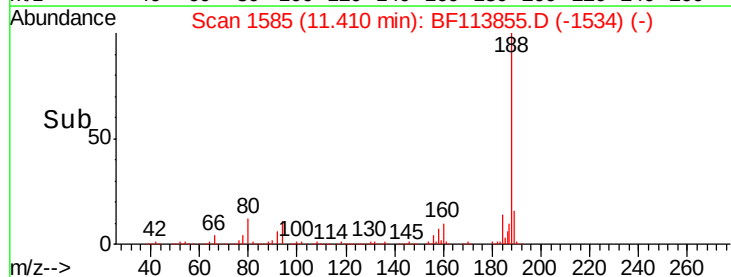
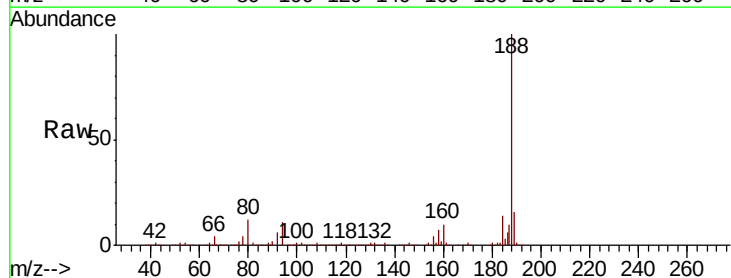
Tgt Ion:188 Resp: 517660

Ion Ratio Lower Upper

188 100

94 10.5 8.2 12.4

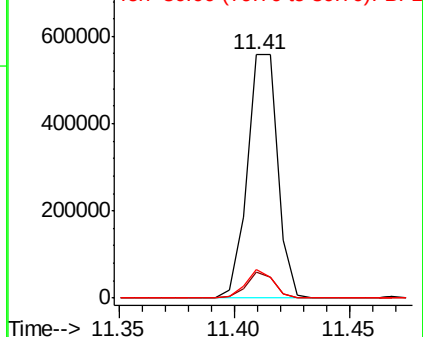
80 11.8 9.0 13.6

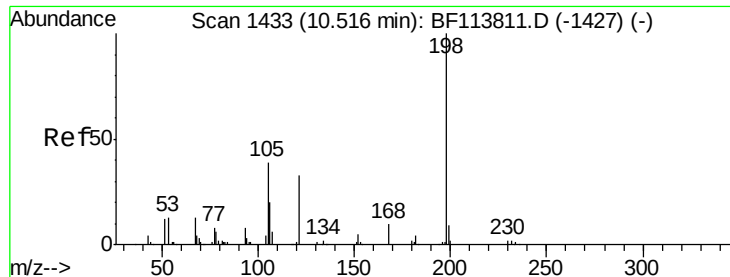


Abundance Ion 188.00 (187.70 to 188.70): E

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: 7.060 ng

RT: 10.72 min Scan# 1467

Delta R.T. 0.20 min

Lab File: BF113855.D

Acq: 19 Apr 2019 13:45

Instrument :

BNA_F

ClientSampleId :

NCC-TOPSOIL-KY

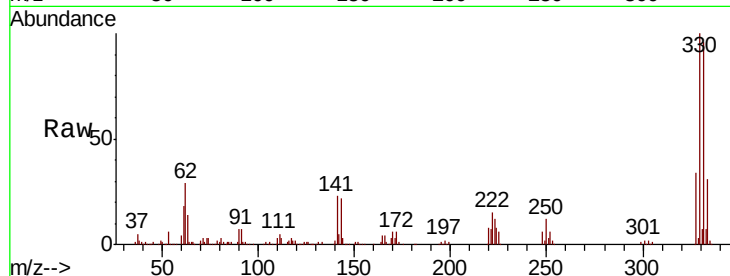
Tgt Ion:198 Resp: 333

Ion Ratio Lower Upper

198 100

51 177.2 11.1 51.1#

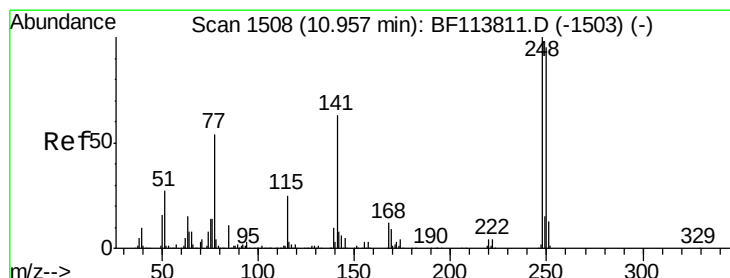
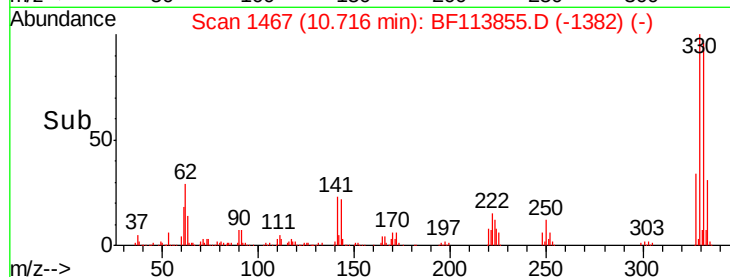
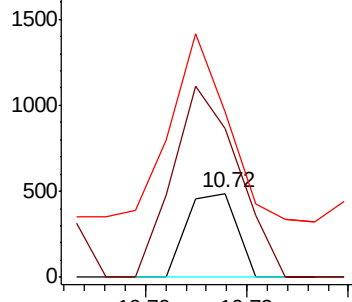
105 197.7 20.7 60.7#



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



#67

4-Bromophenyl-phenylether

Concen: 2.362 ng

RT: 10.72 min Scan# 1467

Delta R.T. -0.24 min

Lab File: BF113855.D

Acq: 19 Apr 2019 13:45

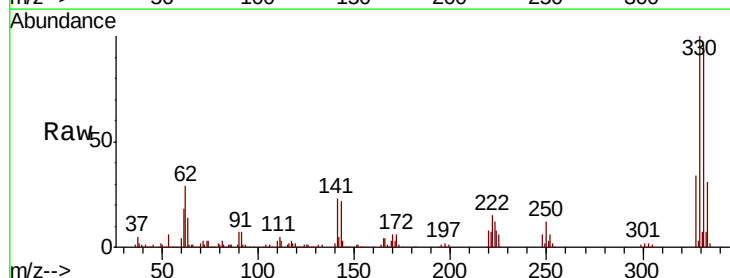
Tgt Ion:248 Resp: 14360

Ion Ratio Lower Upper

248 100

250 191.0 75.8 113.6#

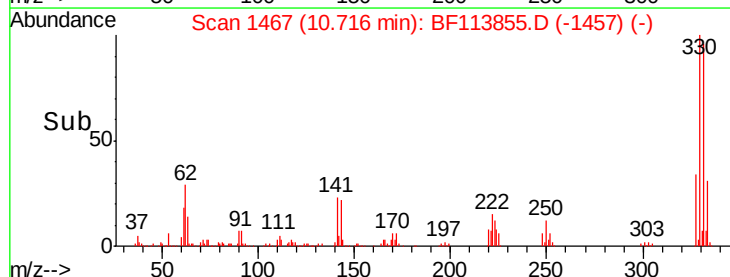
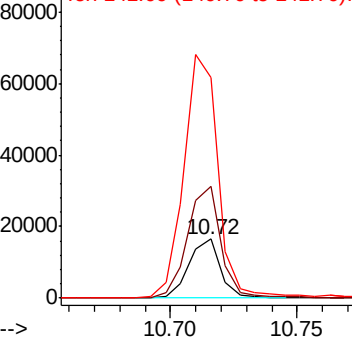
141 375.4 50.2 75.4#

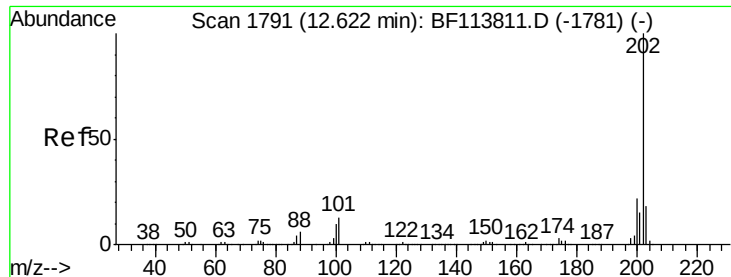


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Fluoranthene

Concen: 5.777 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.00 min

Lab File: BF113855.D

Acq: 19 Apr 2019 13:45

Instrument :

BNA_F

ClientSampleId :

NCC-TOPSOIL-KY

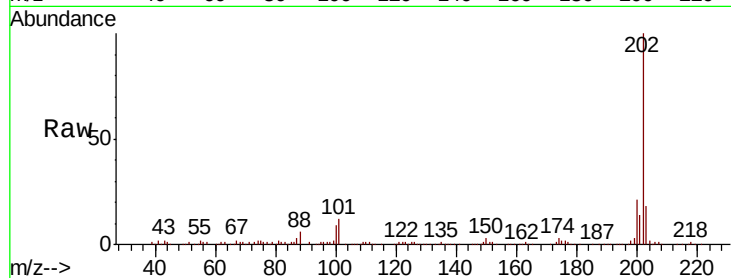
Tgt Ion:202 Resp: 161418

Ion Ratio Lower Upper

202 100

101 11.6 0.0 32.9

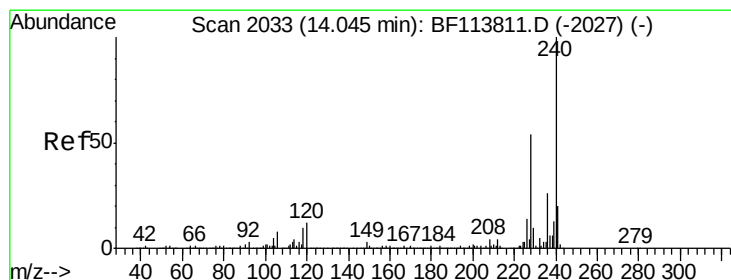
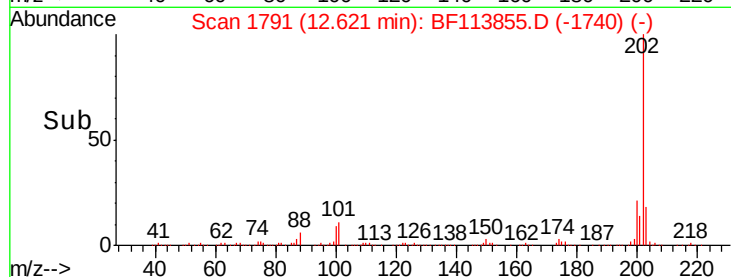
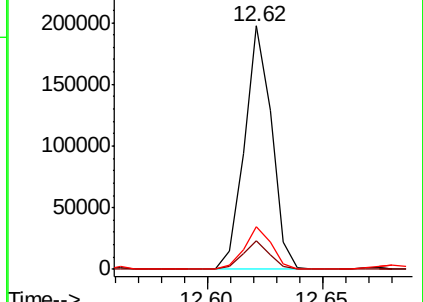
203 17.8 0.0 38.2



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: 14.05 min Scan# 2034

Delta R.T. 0.01 min

Lab File: BF113855.D

Acq: 19 Apr 2019 13:45

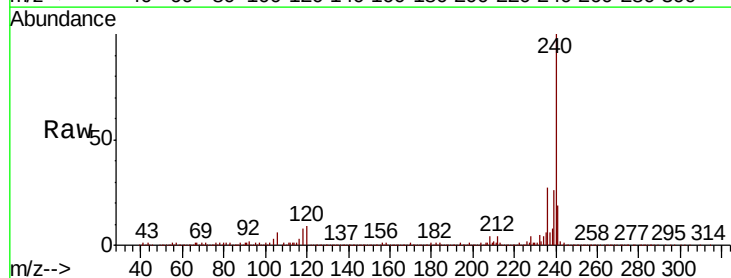
Tgt Ion:240 Resp: 559340

Ion Ratio Lower Upper

240 100

120 8.8 9.3 13.9#

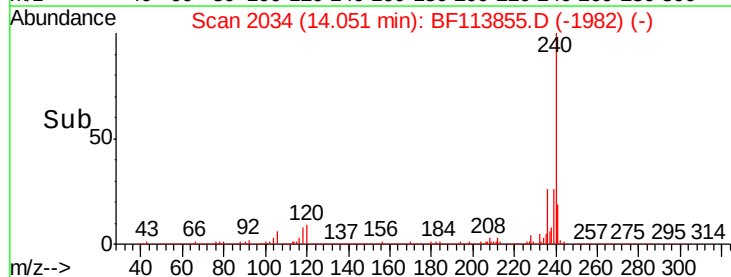
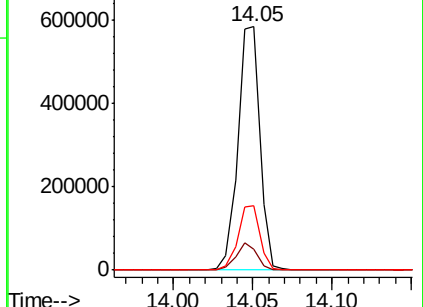
236 26.6 21.2 31.8

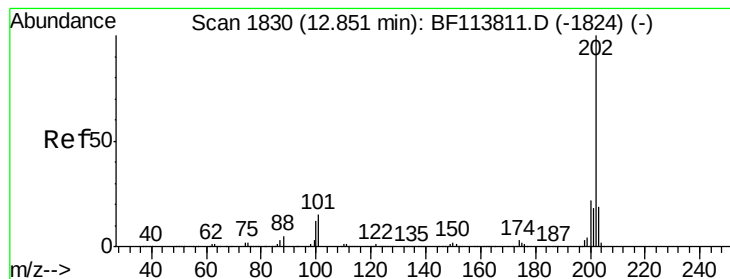


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 4.177 ng

RT: 12.85 min Scan# 1830

Delta R.T. -0.00 min

Lab File: BF113855.D

Acq: 19 Apr 2019 13:45

Instrument :

BNA_F

ClientSampleId :

NCC-TOPSOIL-KY

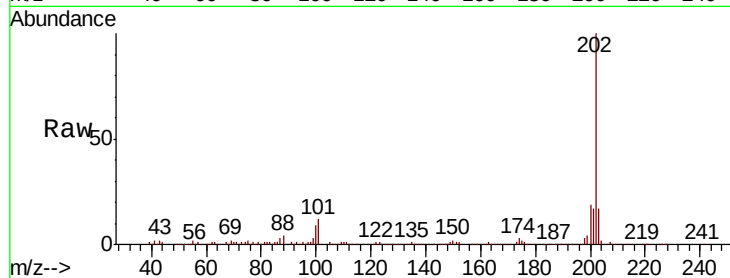
Tgt Ion: 202 Resp: 164641

Ion Ratio Lower Upper

202 100

200 19.5 17.7 26.5

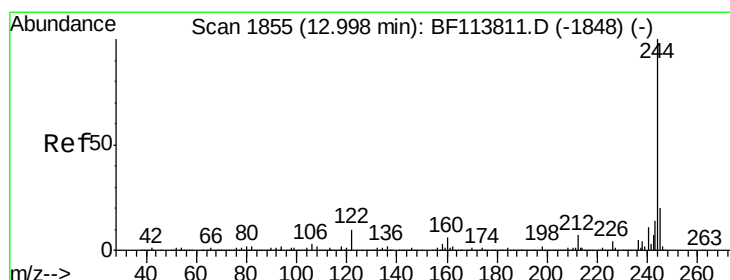
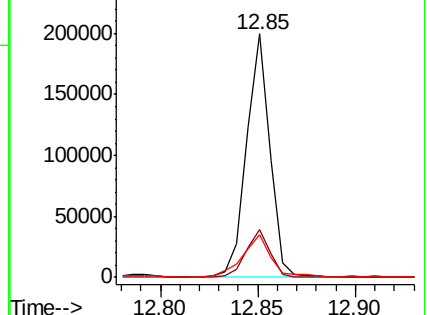
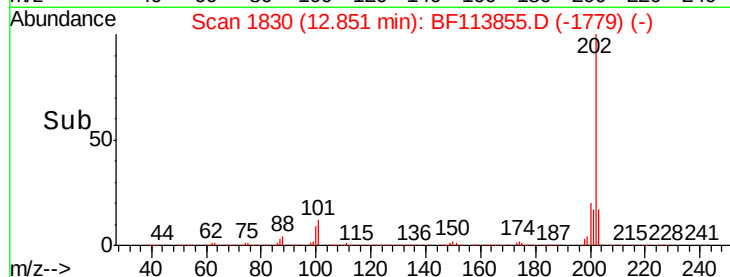
203 17.5 15.0 22.6



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: 43.688 ng

RT: 13.00 min Scan# 1855

Delta R.T. -0.00 min

Lab File: BF113855.D

Acq: 19 Apr 2019 13:45

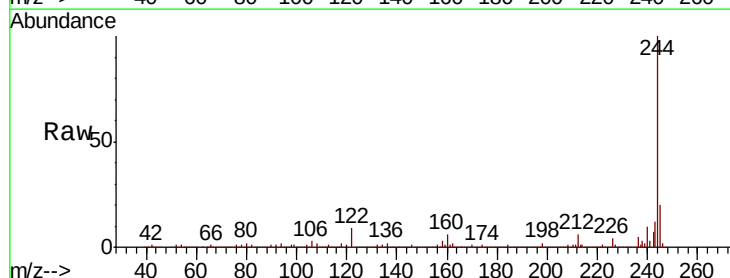
Tgt Ion: 244 Resp: 1165322

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.2

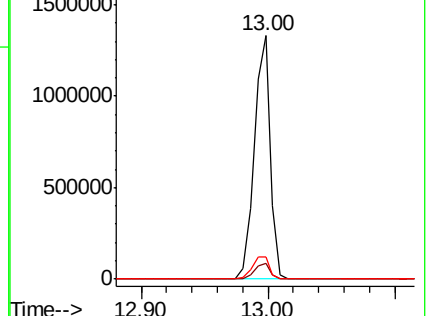
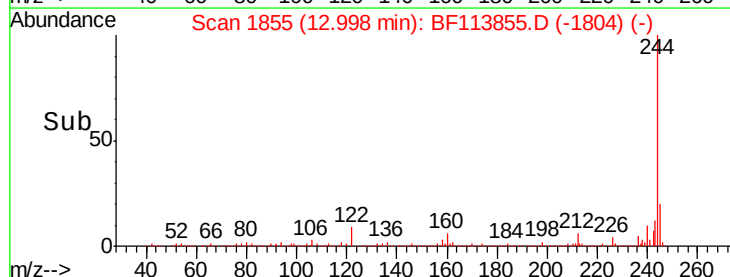
122 8.9 7.6 11.4

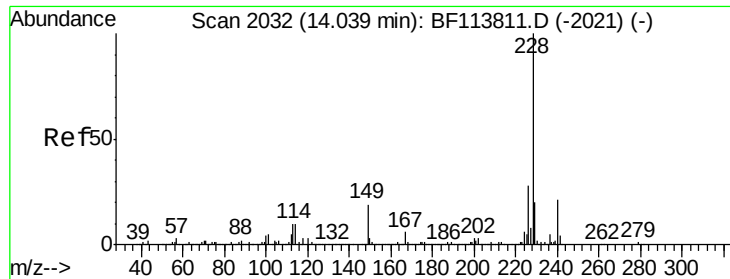


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

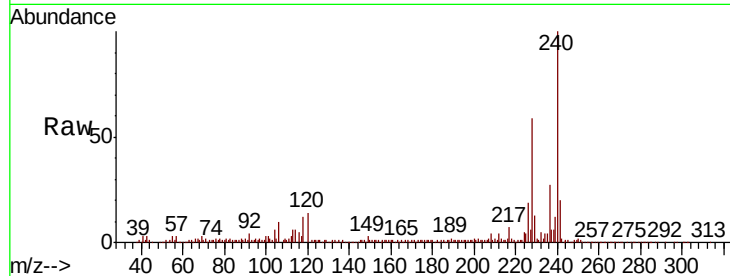




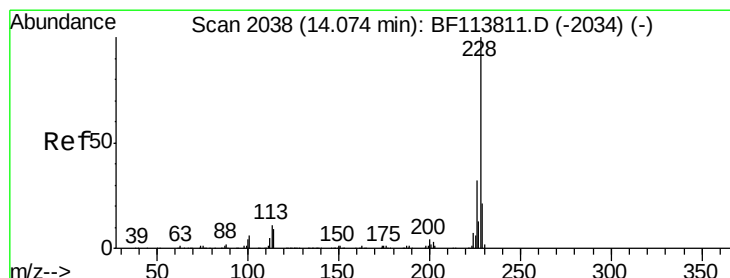
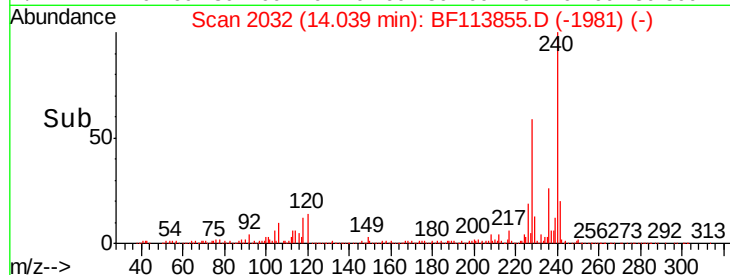
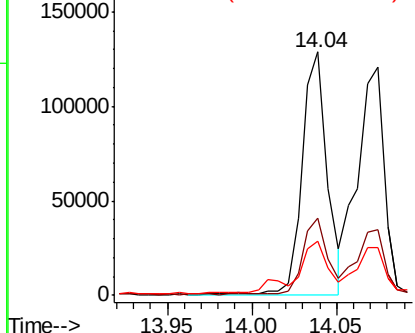
#81
Benzo(a)anthracene
Concen: 4.022 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.00 min
Lab File: BF113855.D
Acq: 19 Apr 2019 13:45

Instrument :
BNA_F
ClientSampleId :
NCC-TOPSOIL-KY

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.9	22.2	33.2
229	22.1	16.0	24.0

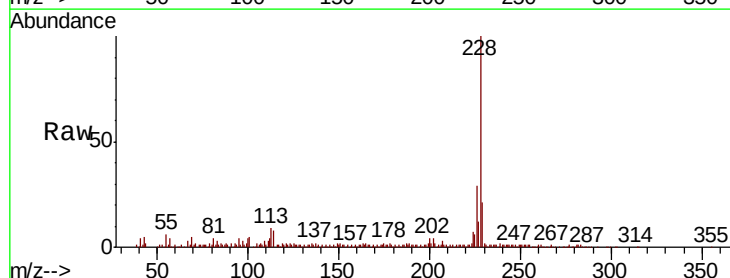


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

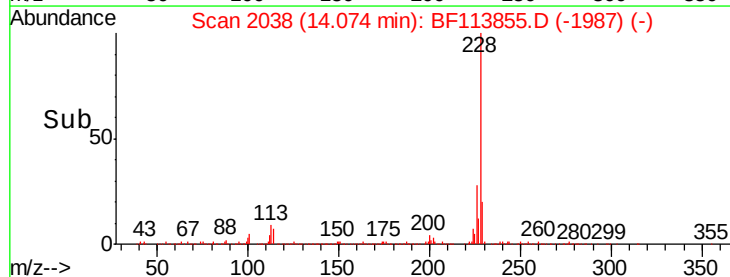
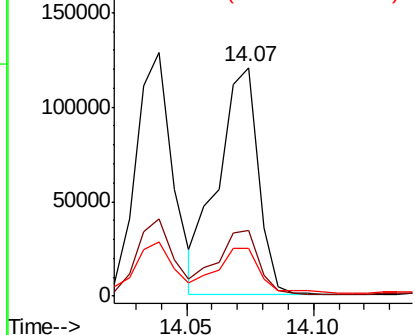


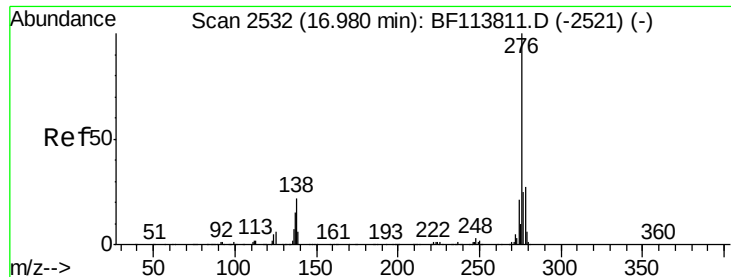
#83
Chrysene
Concen: 4.098 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.00 min
Lab File: BF113855.D
Acq: 19 Apr 2019 13:45

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	25.2	37.8
229	21.2	16.7	25.1



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

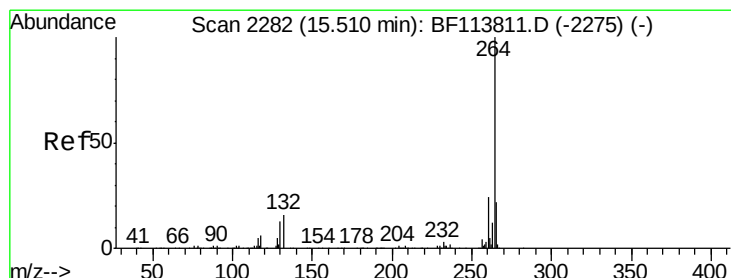
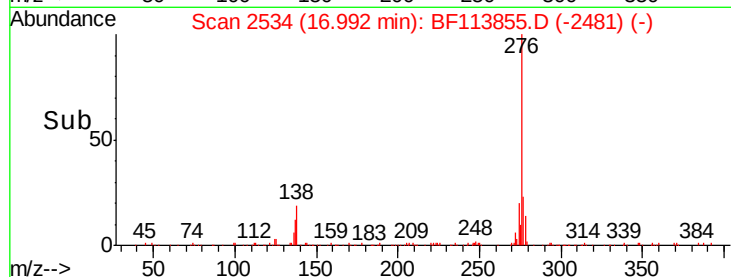
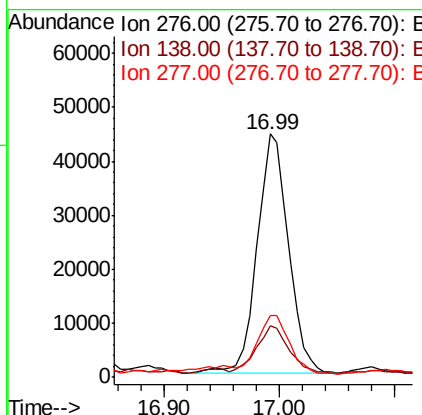
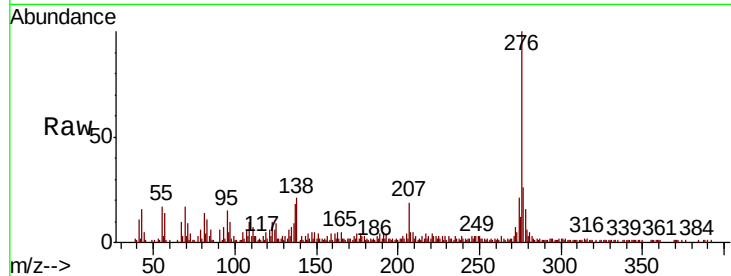




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 3.163 ng
 RT: 16.99 min Scan# 2534
 Delta R.T. 0.01 min
 Lab File: BF113855.D
 Acq: 19 Apr 2019 13:45

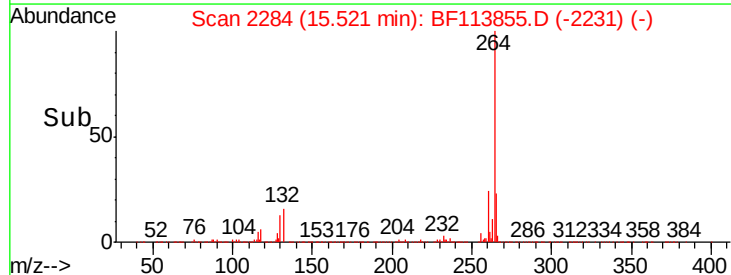
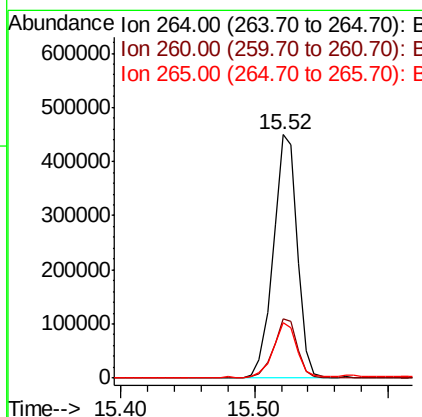
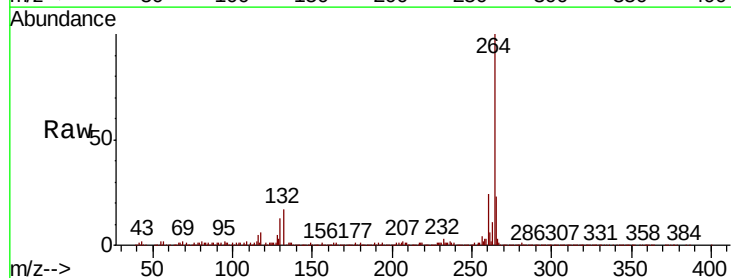
Instrument :
 BNA_F
 ClientSampleId :
 NCC-TOPSOIL-KY

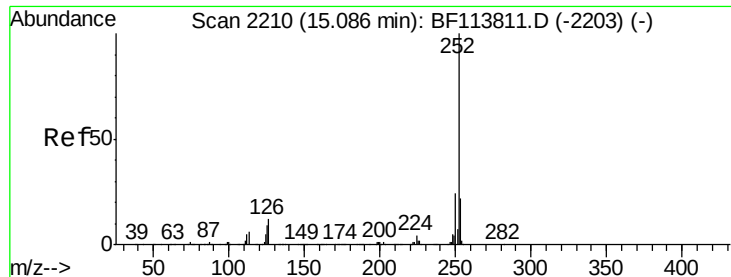
Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.7	19.6	29.4
277	24.9	20.2	30.4



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.52 min Scan# 2284
 Delta R.T. 0.01 min
 Lab File: BF113855.D
 Acq: 19 Apr 2019 13:45

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	18.9	28.3
265	22.8	17.3	25.9

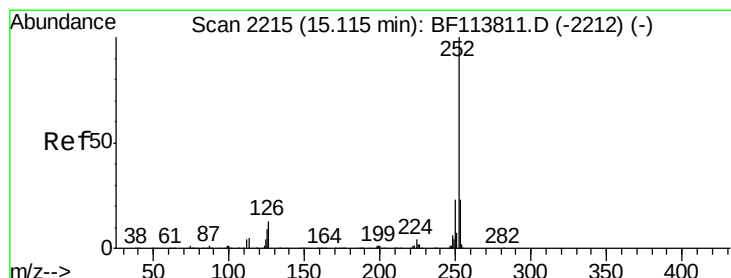
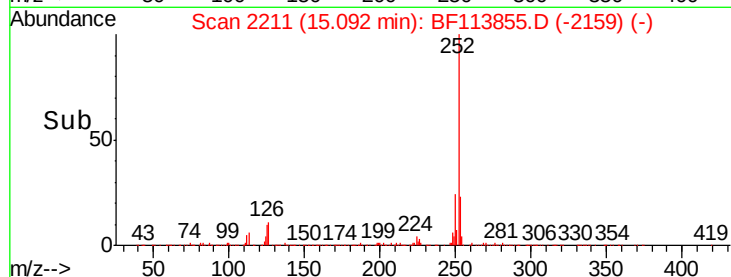
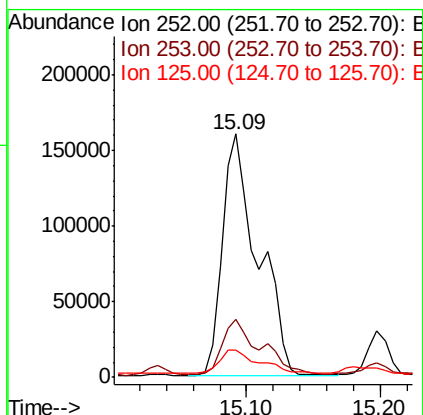
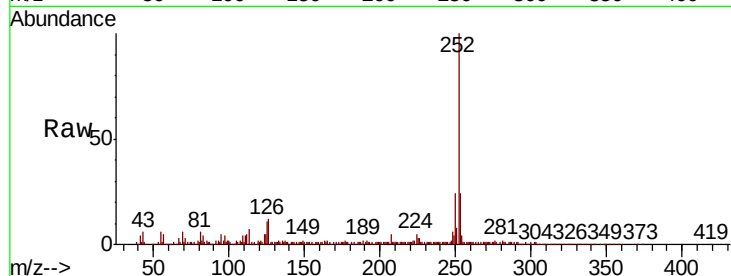




#88
Benzo(b)fluoranthene
Concen: 8.494 ng
RT: 15.09 min Scan# 2211
Delta R.T. 0.01 min
Lab File: BF113855.D
Acq: 19 Apr 2019 13:45

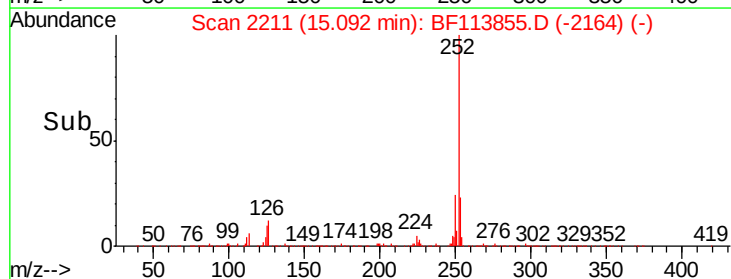
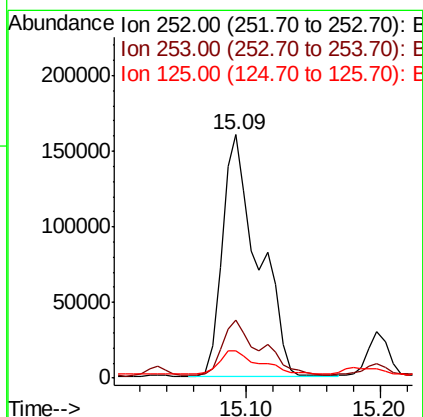
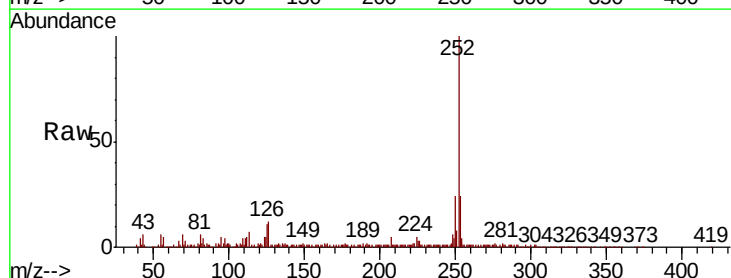
Instrument :
BNA_F
ClientSampleId :
NCC-TOPSOIL-KY

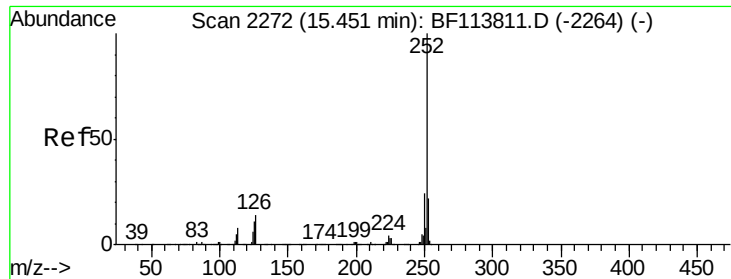
Tgt Ion:252 Resp: 298199
Ion Ratio Lower Upper
252 100
253 23.6 17.8 26.6
125 11.4 7.0 10.6#



#89
Benzo(k)fluoranthene
Concen: 9.326 ng
RT: 15.09 min Scan# 2211
Delta R.T. -0.02 min
Lab File: BF113855.D
Acq: 19 Apr 2019 13:45

Tgt Ion:252 Resp: 298199
Ion Ratio Lower Upper
252 100
253 23.6 18.2 27.2
125 11.4 7.4 11.2#

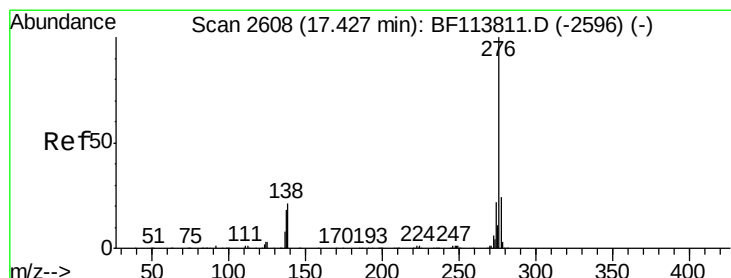
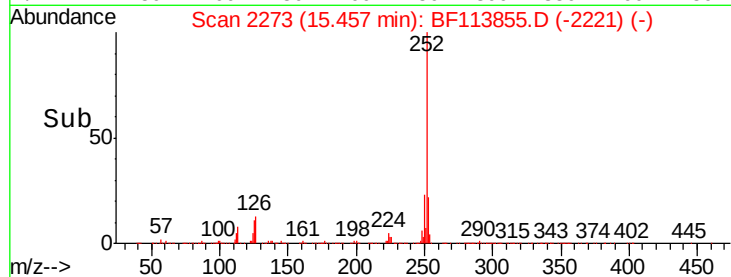
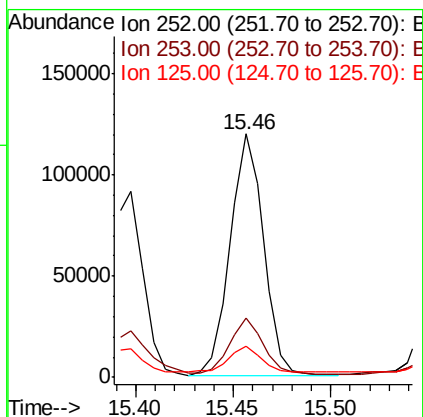
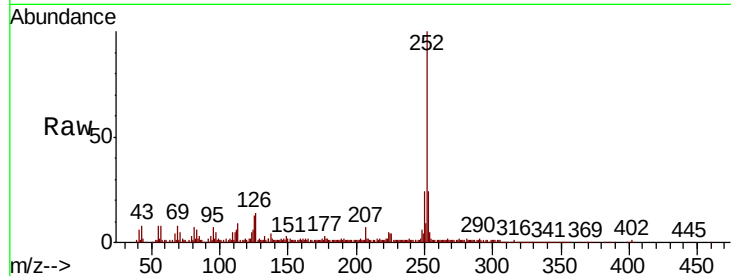




#90
Benzo(a)pyrene
Concen: 4.547 ng
RT: 15.46 min Scan# 2273
Delta R.T. 0.01 min
Lab File: BF113855.D
Acq: 19 Apr 2019 13:45

Instrument :
BNA_F
ClientSampleId :
NCC-TOPSOIL-KY

Tgt Ion: 252 Resp: 141167
Ion Ratio Lower Upper
252 100
253 24.2 17.5 26.3
125 12.6 8.5 12.7



#92
Benzo(g,h,i)perylene
Concen: 2.657 ng
RT: 17.44 min Scan# 2610
Delta R.T. 0.01 min
Lab File: BF113855.D
Acq: 19 Apr 2019 13:45

Tgt Ion: 276 Resp: 74595
Ion Ratio Lower Upper
276 100
277 24.2 19.0 28.4
138 20.7 16.6 25.0

