

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071317\
 Data File : BF096728.D
 Acq On : 13 Jul 2017 15:26
 Operator : SJ/JU
 Sample : I3757-01
 Misc : 2PPM LOD
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT3-2017

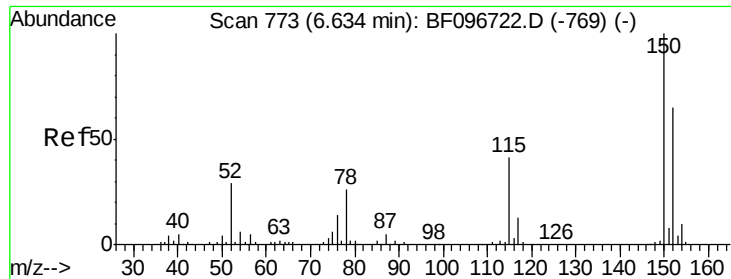
Quant Time: Jul 14 16:28:18 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 13 14:49:34 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	99767	20.00	ng	0.00
21) Naphthalene-d8	7.92	136	419269	20.00	ng	0.00
38) Acenaphthene-d10	9.66	164	191051	20.00	ng	0.00
63) Phenanthrene-d10	11.15	188	329711	20.00	ng	0.00
75) Chrysene-d12	13.77	240	276662	20.00	ng	0.00
86) Perylene-d12	15.15	264	182376	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.24	112	811089	122.24	ng	0.00
7) Phenol-d6	6.28	99	990240	124.36	ng	0.00
23) Nitrobenzene-d5	7.20	82	663180	97.98	ng	0.00
41) 2,4,6-Tribromophenol	10.46	330	220848	135.42	ng	0.00
44) 2-Fluorobiphenyl	9.00	172	1156425	95.63	ng	0.00
78) Terphenyl-d14	12.73	244	1009565	63.28	ng	0.00

Target Compounds				Qvalue		
17) 2-Methylphenol	6.89	107	10608	1.906	ng	88
19) n-Nitroso-di-n-propylamine	7.05	70	9521	1.985	ng	# 85
20) 3+4-Methylphenols	7.05	107	13742	2.034	ng	# 69
22) Acetophenone	7.04	105	19247	2.054	ng	# 96
25) Isophorone	7.45	82	23685	1.881	ng	97
26) 2-Nitrophenol	7.53	139	6688	1.718	ng	94
27) 2,4-Dimethylphenol	7.57	122	11623	1.815	ng	94
28) bis(2-Chloroethoxy)methane	7.67	93	16017	1.882	ng	96
29) 2,4-Dichlorophenol	7.77	162	10910	1.882	ng	97
30) 1,2,4-Trichlorobenzene	7.86	180	11111	2.016	ng	99
36) 4-Chloro-3-methylphenol	8.47	107	11510	1.847	ng	87
42) 2,4,6-Trichlorophenol	8.91	196	7279	1.911	ng	88
43) 2,4,5-Trichlorophenol	8.95	196	6941	1.807	ng	94
56) 2,4-Dinitrotoluene	9.85	165	7058	1.763	ng	# 73
60) 4-Chlorophenyl-phenylether	10.20	204	12618	1.400	ng	95
61) 4-Nitroaniline	10.22	138	6142	1.772	ng	80
76) Benzidine	12.47	184	8534	0.942	ng	97
81) 3,3'-Dichlorobenzidine	13.73	252	10236	1.651	ng	# 90

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

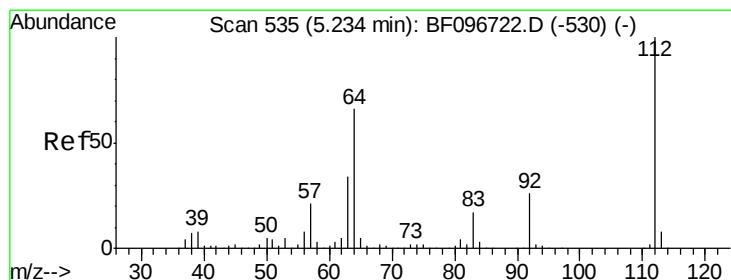
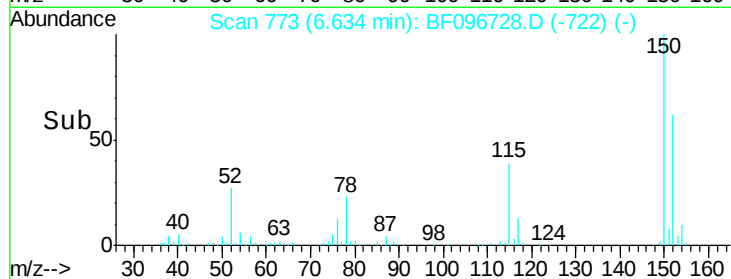
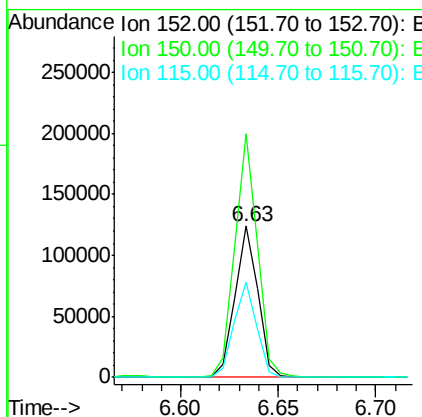
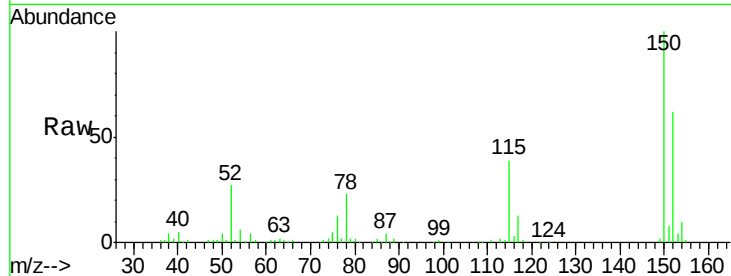


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.63 min Scan# 773
Delta R.T. -0.00 min
Lab File: BF096728.D
Acq: 13 Jul 2017 15:26

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT3-2017

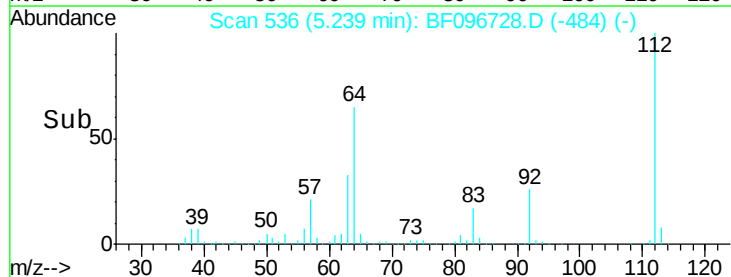
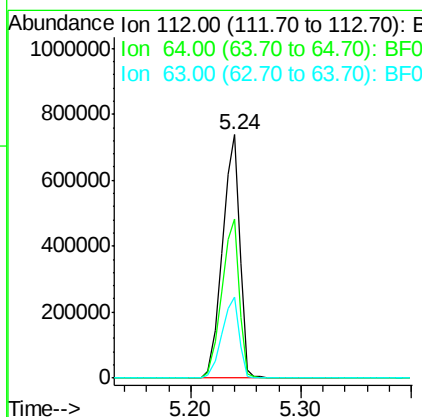
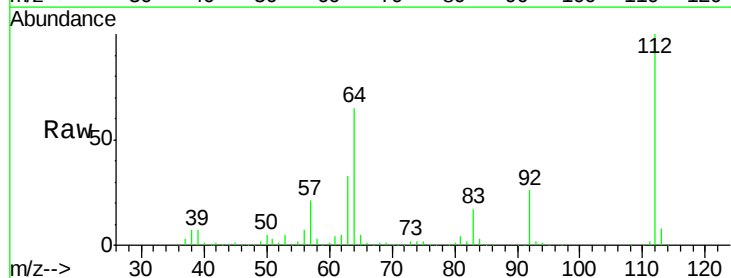
Tgt Ion:152 Resp: 99767
Ion Ratio Lower Upper
152 100
150 161.1 126.2 189.2
115 62.7 52.2 78.2

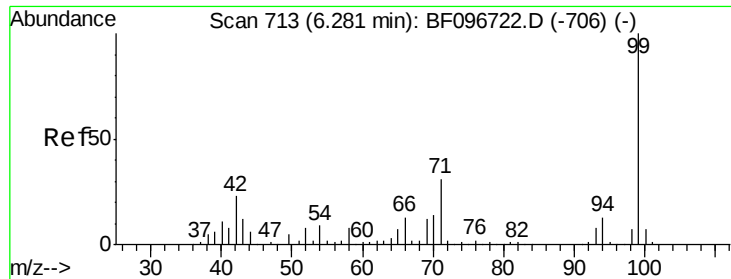


#5

2-Fluorophenol
Concen: 122.239 ng
RT: 5.24 min Scan# 536
Delta R.T. 0.01 min
Lab File: BF096728.D
Acq: 13 Jul 2017 15:26

Tgt Ion:112 Resp: 811089
Ion Ratio Lower Upper
112 100
64 65.3 46.0 69.0
63 33.3 23.4 35.0





#7

Phenol-d6

Concen: 124.363 ng

RT: 6.28 min Scan# 713

Delta R.T. -0.00 min

Lab File: BF096728.D

Acq: 13 Jul 2017 15:26

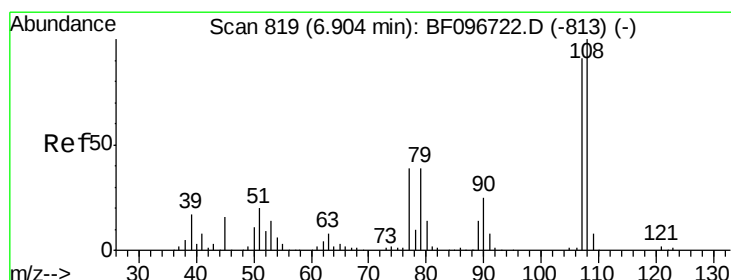
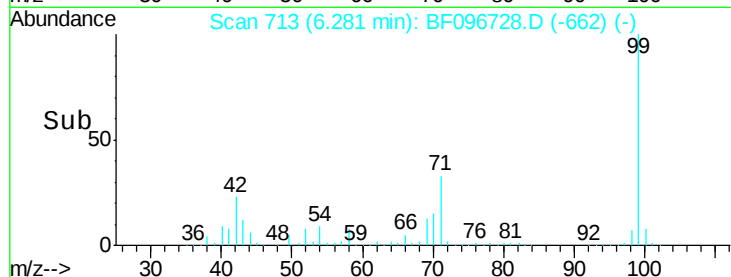
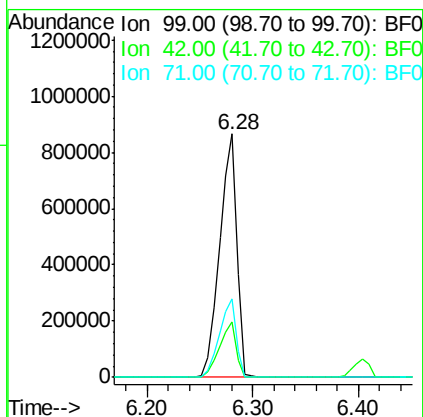
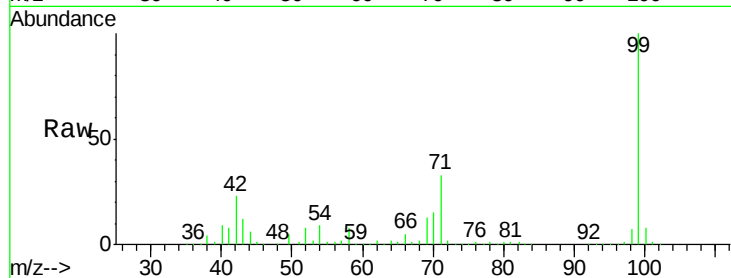
Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT3-2017

Tgt Ion:	99	Resp:	990240
Ion	Ratio	Lower	Upper
99	100		
42	22.6	13.5	20.3#
71	32.5	24.5	36.7



#17

2-Methylphenol

Concen: 1.906 ng

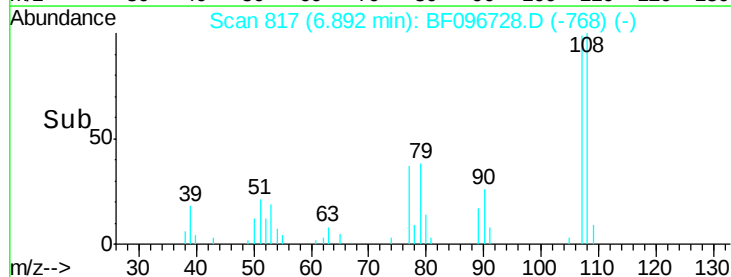
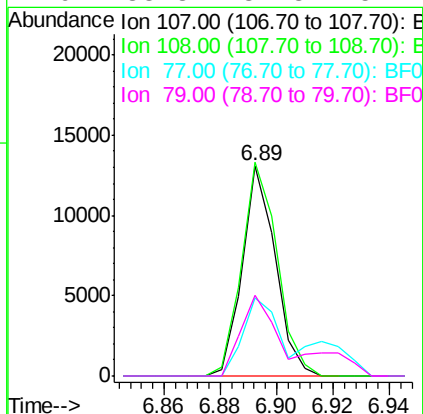
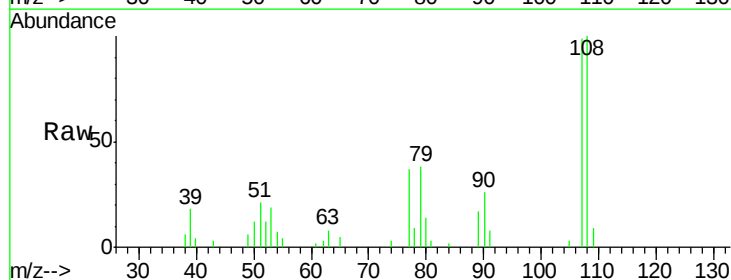
RT: 6.89 min Scan# 817

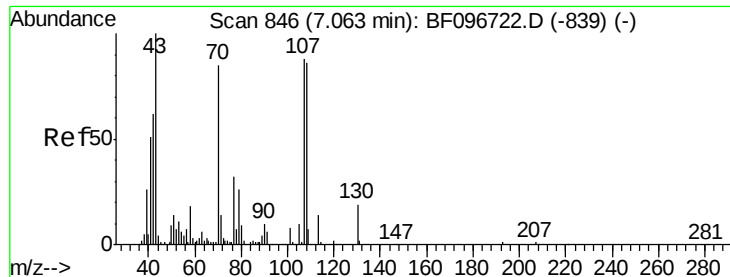
Delta R.T. -0.01 min

Lab File: BF096728.D

Acq: 13 Jul 2017 15:26

Tgt Ion:	107	Resp:	10608
Ion	Ratio	Lower	Upper
107	100		
108	101.5	93.4	140.0
77	37.1	35.8	53.6
79	38.3	34.8	52.2

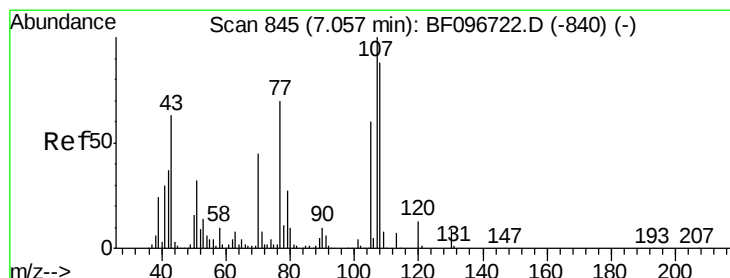
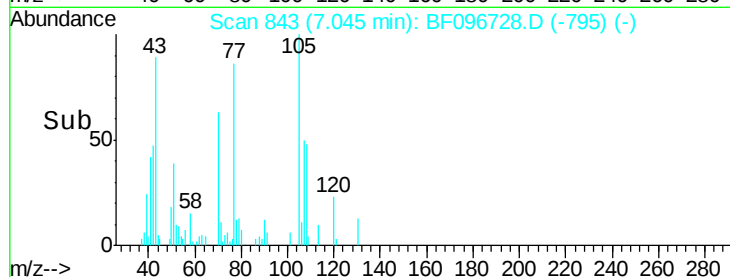
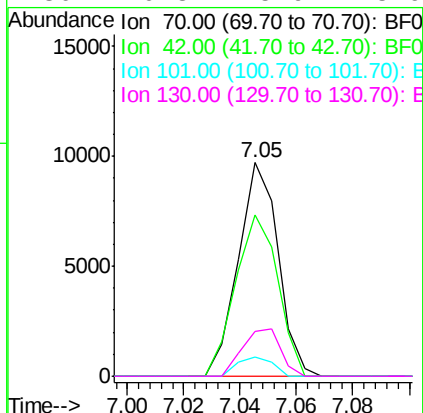
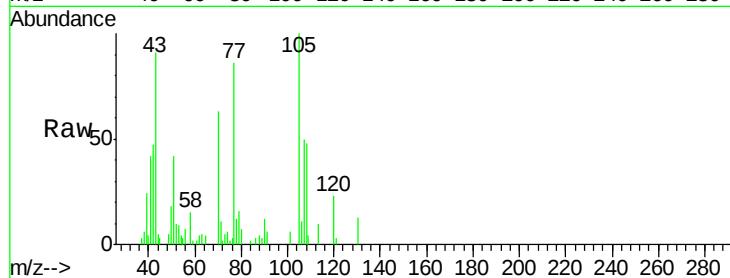




#19
n-Nitroso-di-n-propylamine
Concen: 1.985 ng
RT: 7.05 min Scan# 843
Delta R.T. -0.02 min
Lab File: BF096728.D
Acq: 13 Jul 2017 15:26

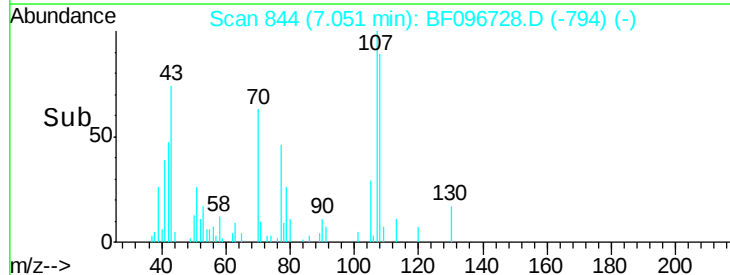
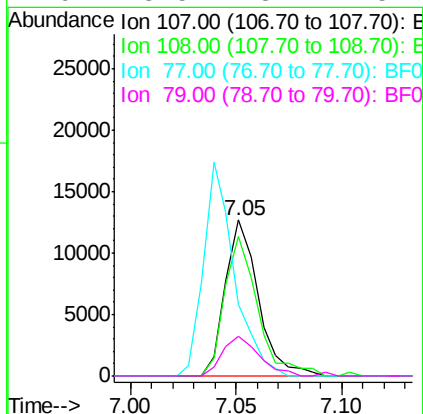
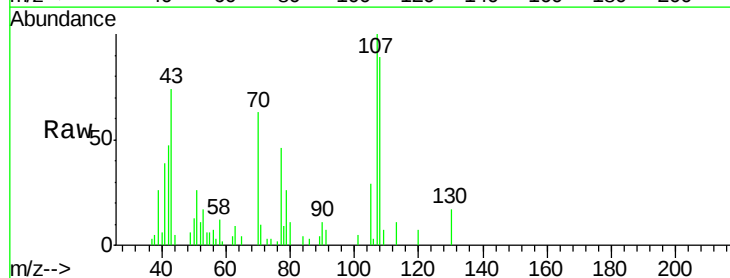
Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT3-2017

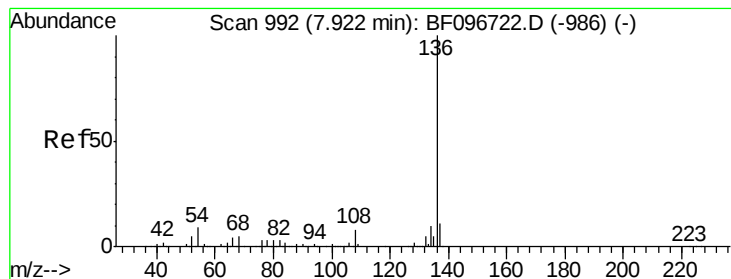
Tgt Ion:	70	Resp:	9521
Ion	Ratio	Lower	Upper
70	100		
42	75.4	47.2	70.8#
101	9.0	7.2	10.8
130	20.8	15.9	23.9



#20
3+4-Methylphenols
Concen: 2.034 ng
RT: 7.05 min Scan# 844
Delta R.T. -0.01 min
Lab File: BF096728.D
Acq: 13 Jul 2017 15:26

Tgt Ion:	107	Resp:	13742
Ion	Ratio	Lower	Upper
107	100		
108	89.3	71.0	111.0
77	45.9	90.5	130.5#
79	25.5	8.4	48.4





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.92 min Scan# 991

Delta R.T. -0.01 min

Lab File: BF096728.D

Acq: 13 Jul 2017 15:26

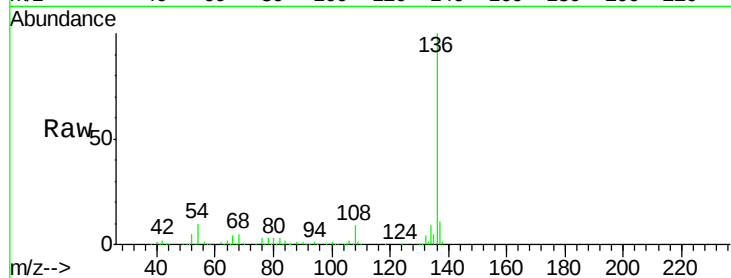
Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT3-2017

Tgt Ion:	136	Resp:	419269
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.5	12.7
54	10.1	4.9	7.3#
68	4.8	4.1	6.1

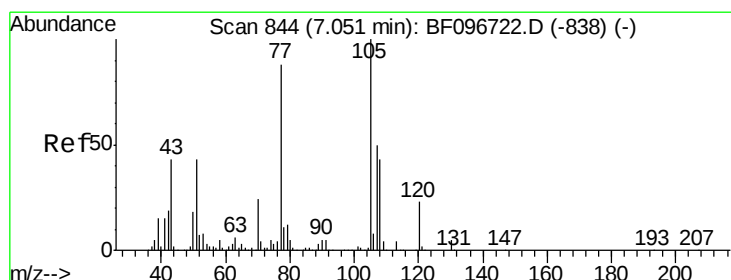
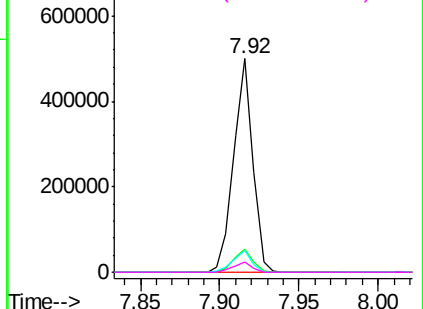
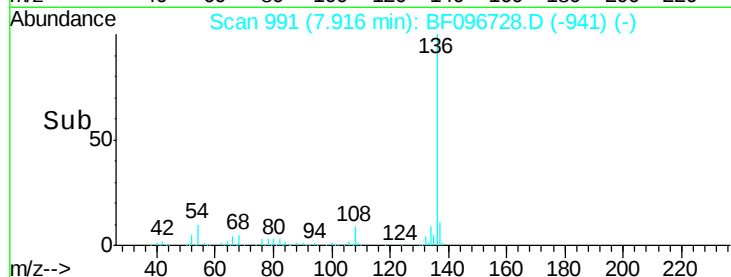


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#22

Acetophenone

Concen: 2.054 ng

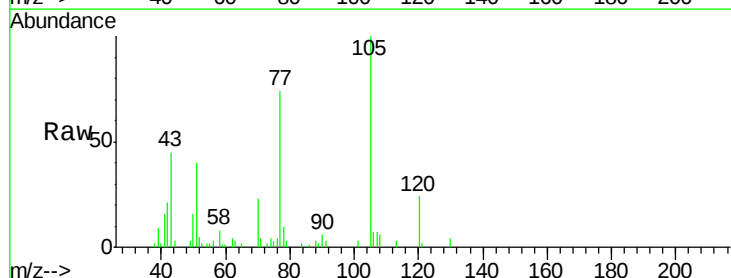
RT: 7.04 min Scan# 842

Delta R.T. -0.01 min

Lab File: BF096728.D

Acq: 13 Jul 2017 15:26

Tgt Ion:	105	Resp:	19247
Ion	Ratio	Lower	Upper
105	100		
71	4.2	2.8	4.2#
51	40.1	30.7	46.1
120	24.3	17.4	26.0

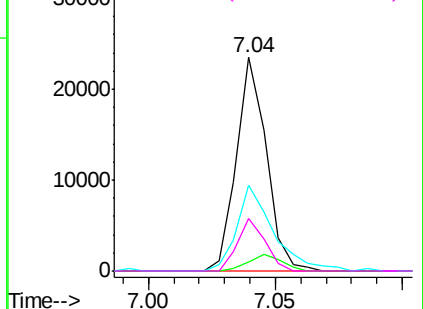
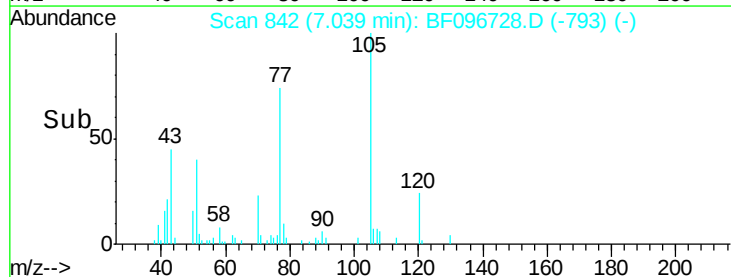


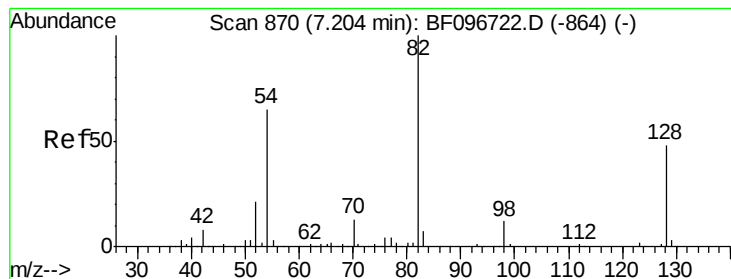
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E





#23

Nitrobenzene-d5

Concen: 97.975 ng

RT: 7.20 min Scan# 869

Delta R.T. -0.01 min

Lab File: BF096728.D

Acq: 13 Jul 2017 15:26

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT3-2017

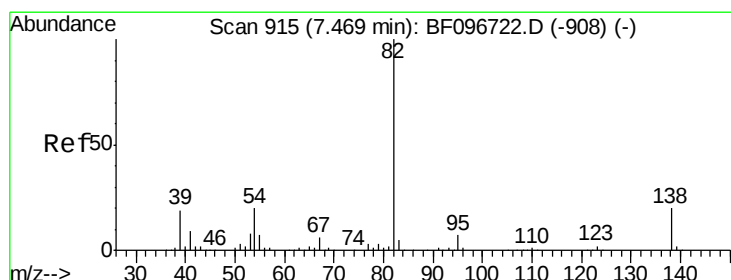
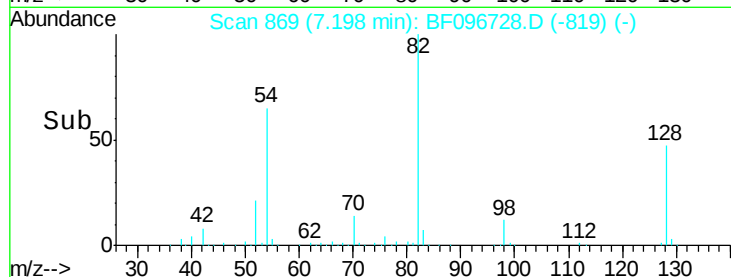
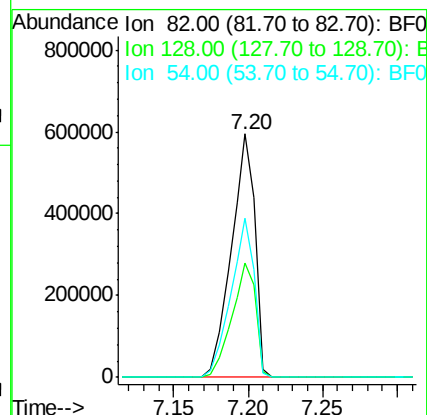
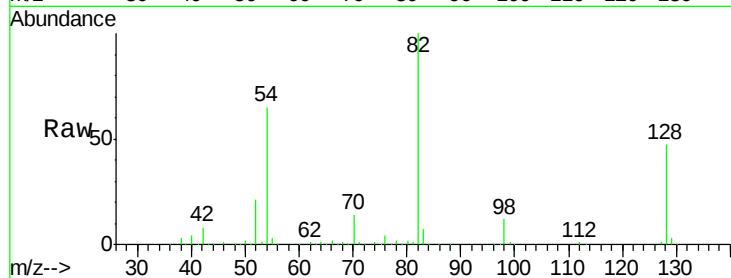
Tgt Ion: 82 Resp: 663180

Ion Ratio Lower Upper

82 100

128 47.0 34.0 51.0

54 65.3 42.2 63.2#



#25

Isophorone

Concen: 1.881 ng

RT: 7.45 min Scan# 912

Delta R.T. -0.02 min

Lab File: BF096728.D

Acq: 13 Jul 2017 15:26

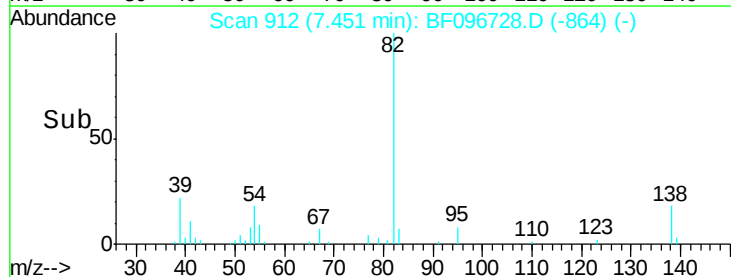
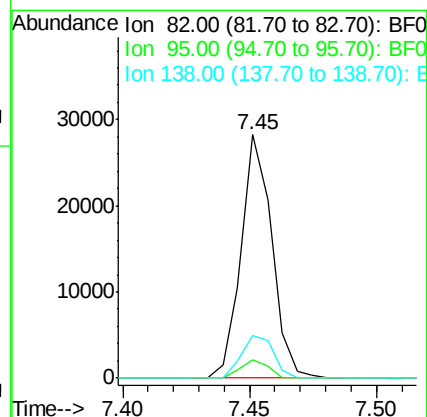
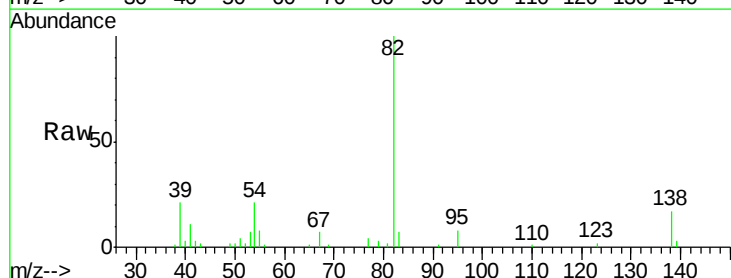
Tgt Ion: 82 Resp: 23685

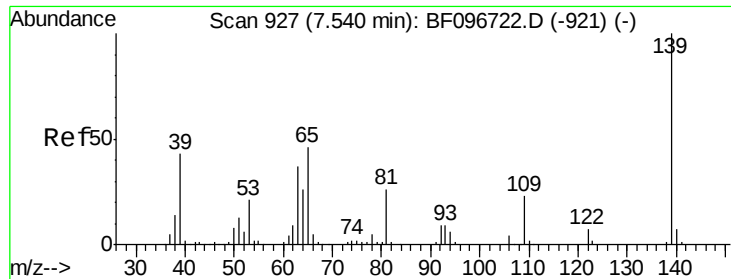
Ion Ratio Lower Upper

82 100

95 7.5 5.3 7.9

138 17.4 13.1 19.7

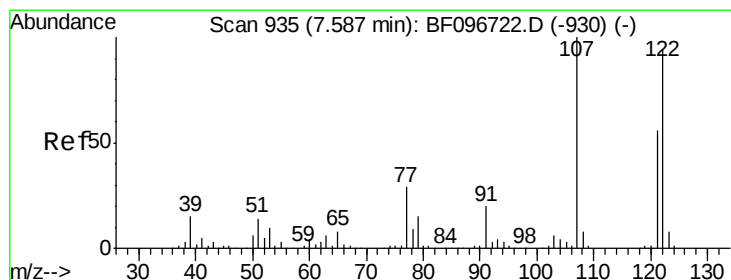
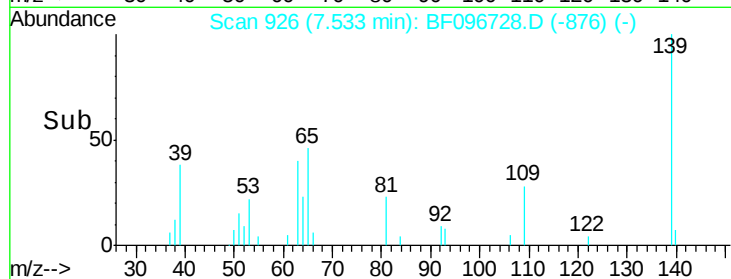
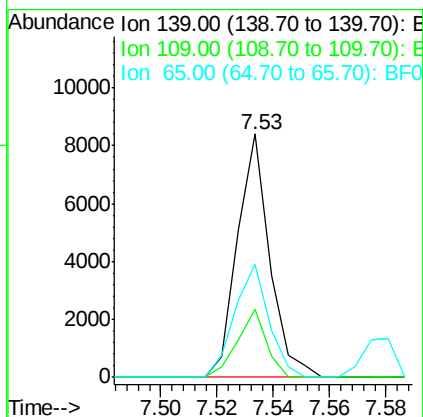
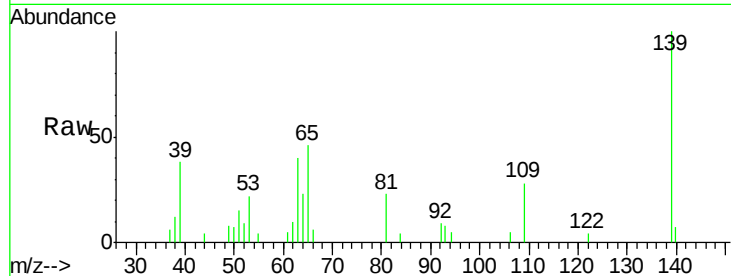




#26
 2-Nitrophenol
 Concen: 1.718 ng
 RT: 7.53 min Scan# 926
 Delta R.T. -0.01 min
 Lab File: BF096728.D
 Acq: 13 Jul 2017 15:26

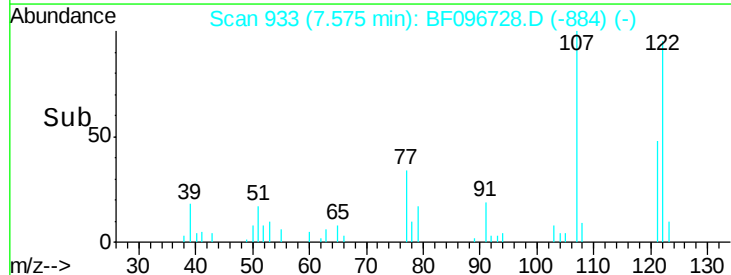
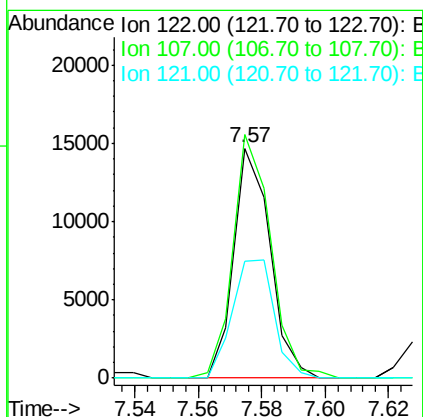
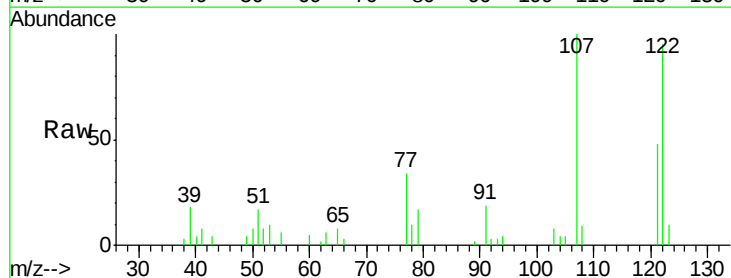
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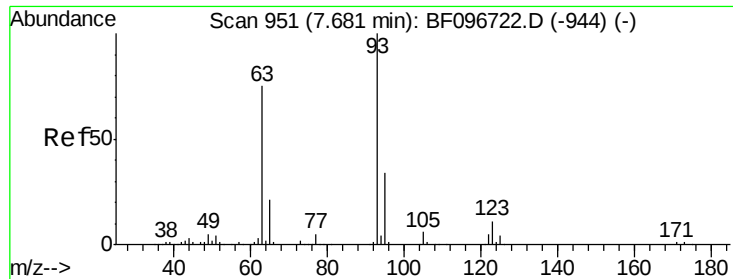
Tgt Ion:139 Resp: 6688
 Ion Ratio Lower Upper
 139 100
 109 27.8 21.0 31.6
 65 46.4 33.0 49.6



#27
 2,4-Dimethylphenol
 Concen: 1.815 ng
 RT: 7.57 min Scan# 933
 Delta R.T. -0.01 min
 Lab File: BF096728.D
 Acq: 13 Jul 2017 15:26

Tgt Ion:122 Resp: 11623
 Ion Ratio Lower Upper
 122 100
 107 105.8 89.2 133.8
 121 50.7 45.2 67.8



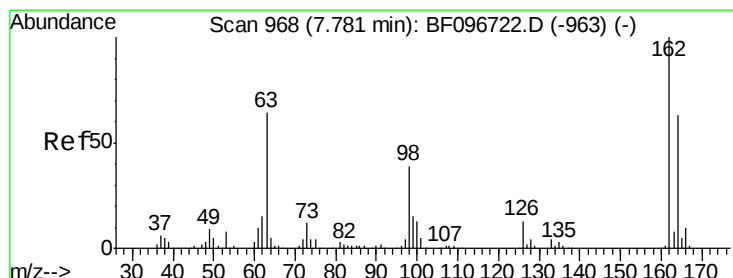
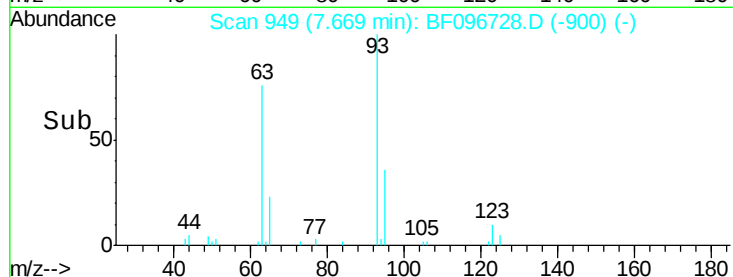
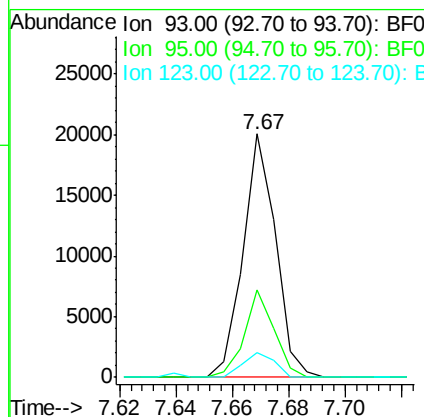
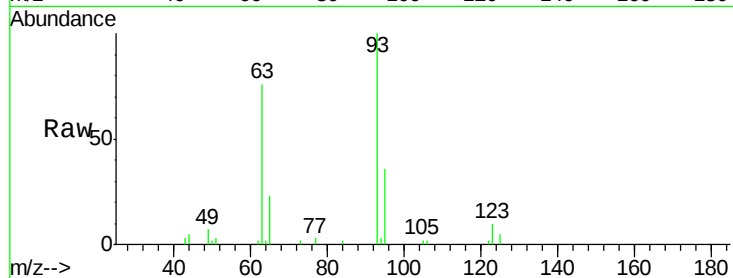


#28
bis(2-Chloroethoxy)methane
Concen: 1.882 ng
RT: 7.67 min Scan# 949
Delta R.T. -0.01 min
Lab File: BF096728.D
Acq: 13 Jul 2017 15:26

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT3-2017

Tgt Ion: 93 Resp: 16017

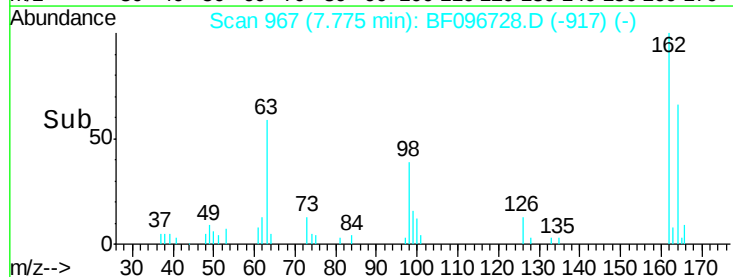
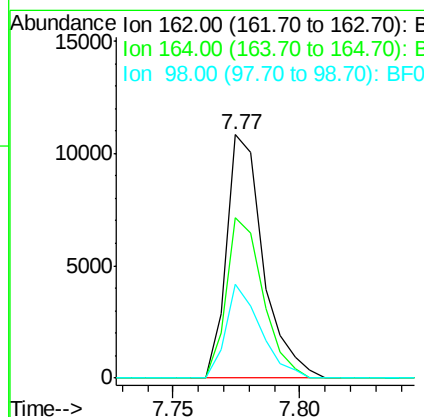
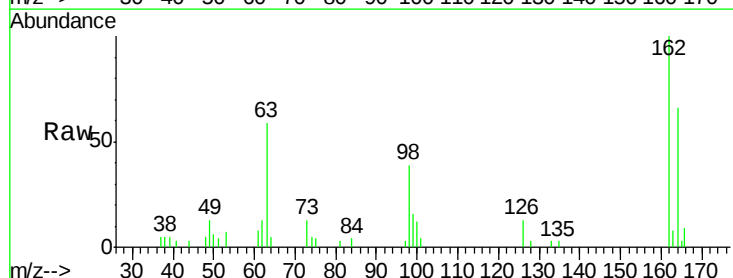
Ion	Ratio	Lower	Upper
93	100		
95	35.9	26.5	39.7
123	10.2	9.0	13.4

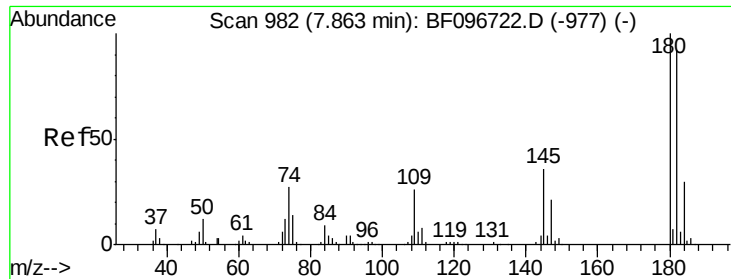


#29
2,4-Dichlorophenol
Concen: 1.882 ng
RT: 7.77 min Scan# 967
Delta R.T. -0.01 min
Lab File: BF096728.D
Acq: 13 Jul 2017 15:26

Tgt Ion: 162 Resp: 10910

Ion	Ratio	Lower	Upper
162	100		
164	65.7	44.6	84.6
98	38.6	14.8	54.8

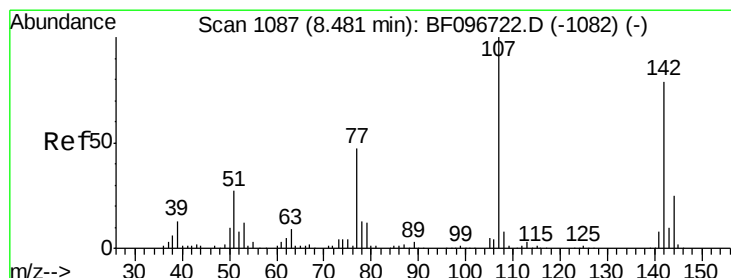
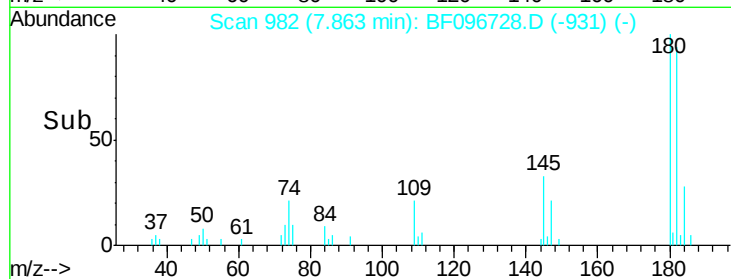
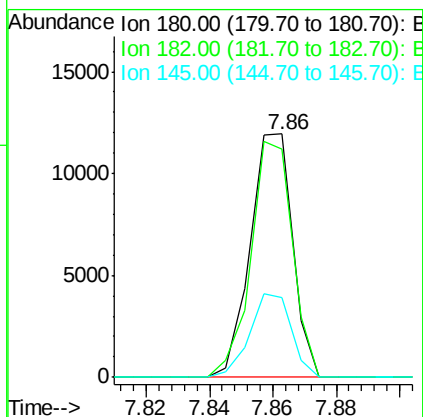
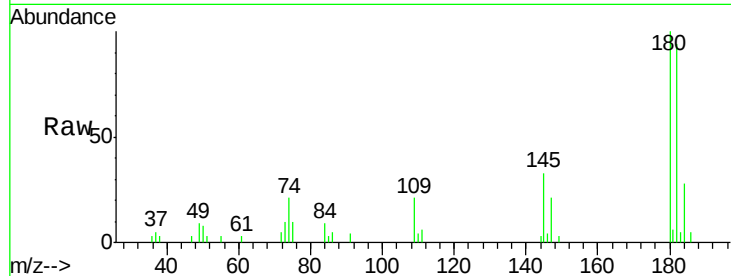




#30
 1,2,4-Trichlorobenzene
 Concen: 2.016 ng
 RT: 7.86 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: BF096728.D
 Acq: 13 Jul 2017 15:26

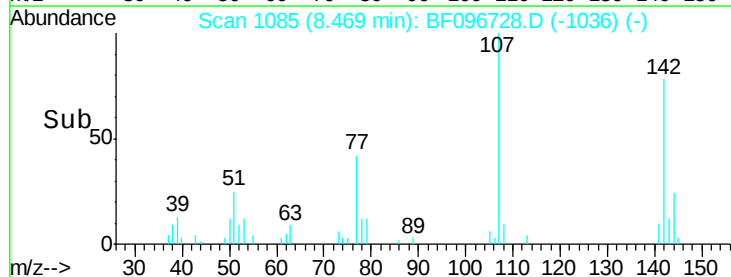
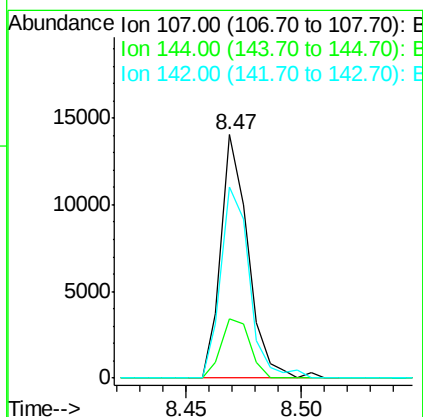
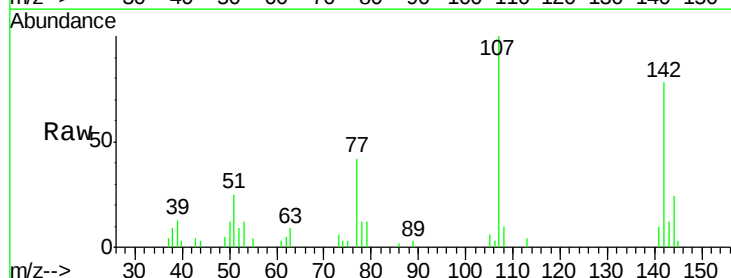
Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT3-2017

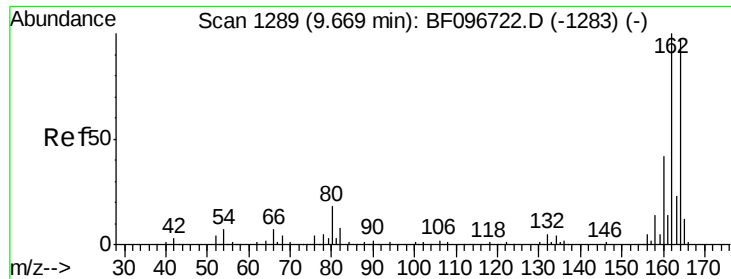
Tgt Ion:180 Resp: 11111
 Ion Ratio Lower Upper
 180 100
 182 93.7 75.8 113.6
 145 32.9 25.3 37.9



#36
 4-Chloro-3-methylphenol
 Concen: 1.847 ng
 RT: 8.47 min Scan# 1085
 Delta R.T. -0.01 min
 Lab File: BF096728.D
 Acq: 13 Jul 2017 15:26

Tgt Ion:107 Resp: 11510
 Ion Ratio Lower Upper
 107 100
 144 24.4 24.2 36.4
 142 78.4 73.4 110.0





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.66 min Scan# 1288

Delta R.T. -0.01 min

Lab File: BF096728.D

Acq: 13 Jul 2017 15:26

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT3-2017

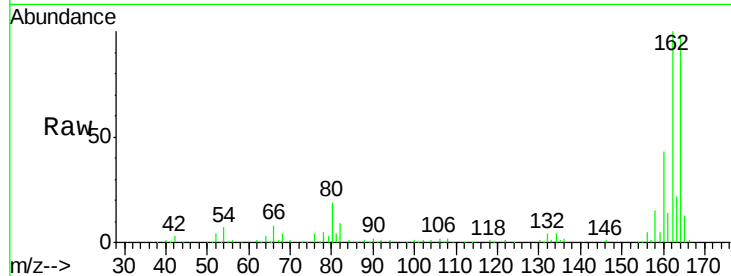
Tgt Ion:164 Resp: 191051

Ion Ratio Lower Upper

164 100

162 102.4 82.6 123.8

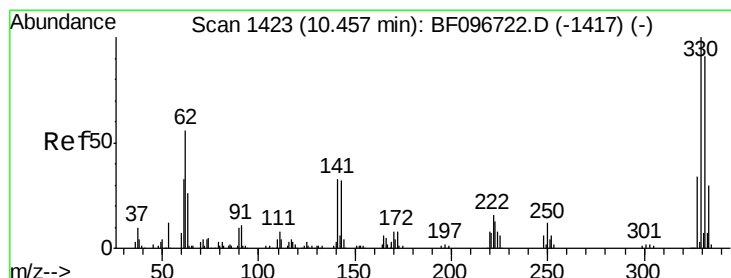
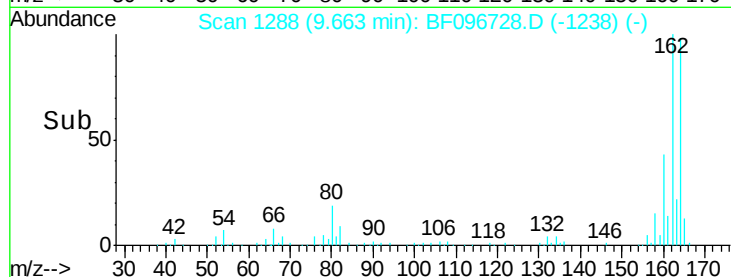
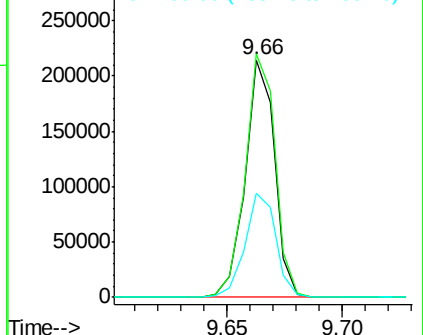
160 43.6 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 135.424 ng

RT: 10.46 min Scan# 1423

Delta R.T. -0.00 min

Lab File: BF096728.D

Acq: 13 Jul 2017 15:26

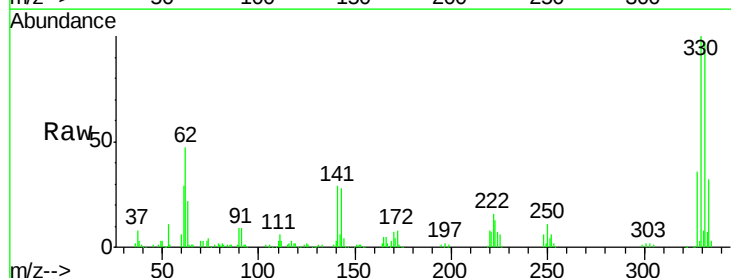
Tgt Ion:330 Resp: 220848

Ion Ratio Lower Upper

330 100

332 95.3 76.6 115.0

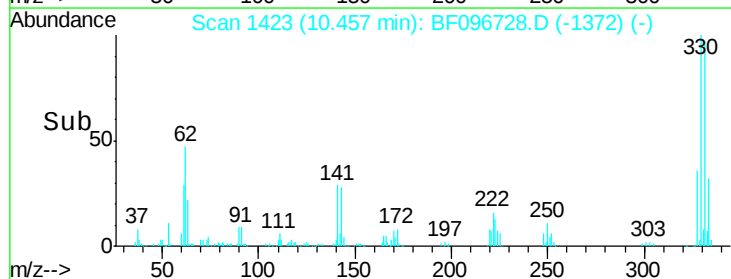
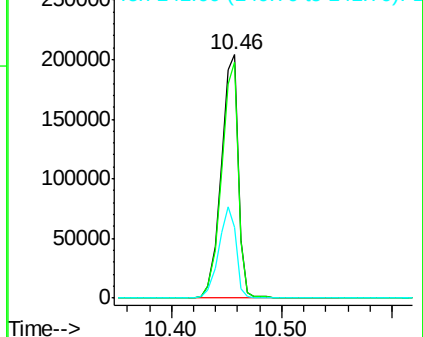
141 37.6 31.4 47.2

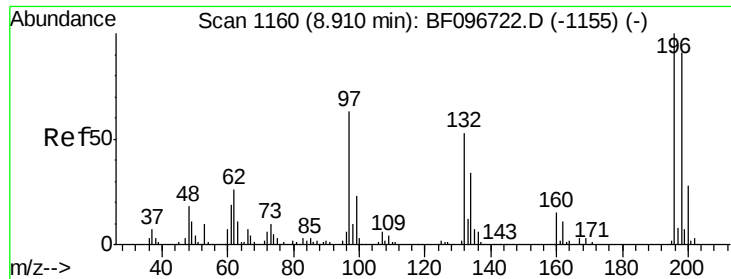


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

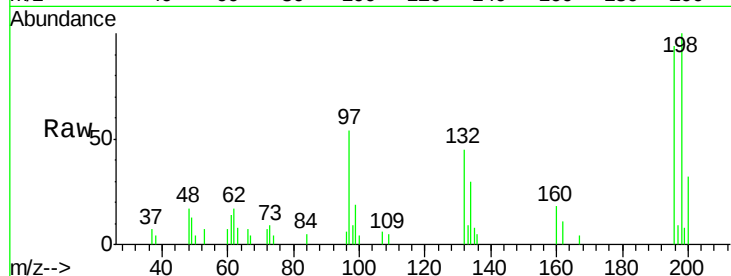




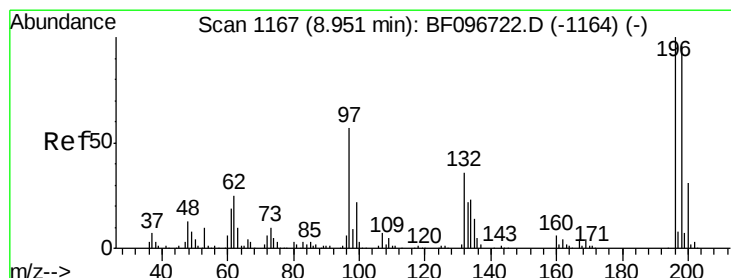
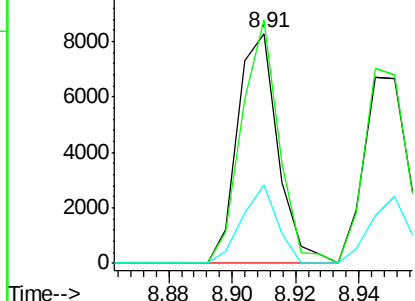
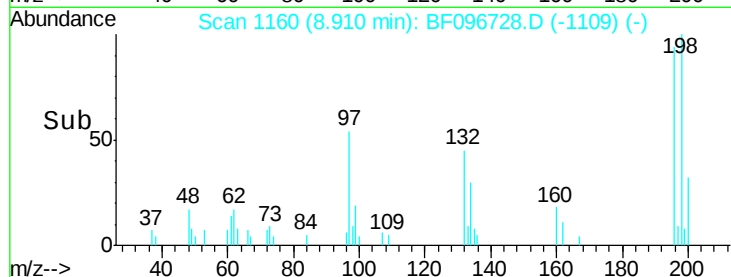
#42
 2,4,6-Trichlorophenol
 Concen: 1.911 ng
 RT: 8.91 min Scan# 1160
 Delta R.T. -0.00 min
 Lab File: BF096728.D
 Acq: 13 Jul 2017 15:26

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT3-2017

Tgt Ion:196 Resp: 7279
 Ion Ratio Lower Upper
 196 100
 198 106.0 74.2 111.4
 200 34.2 24.0 36.0

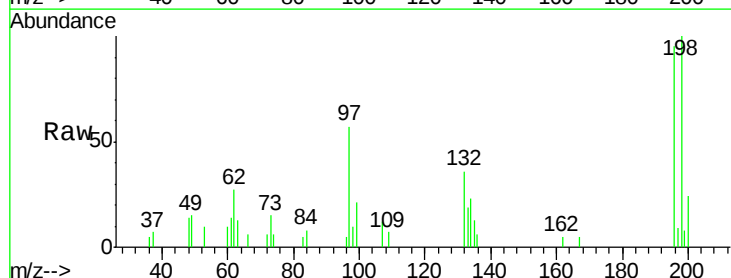


Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 200.00 (199.70 to 200.70): E

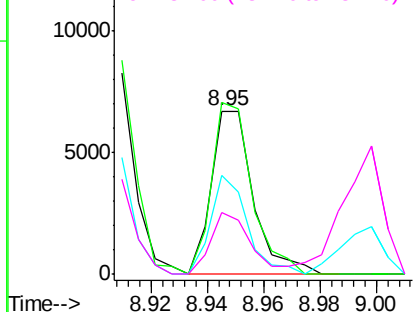
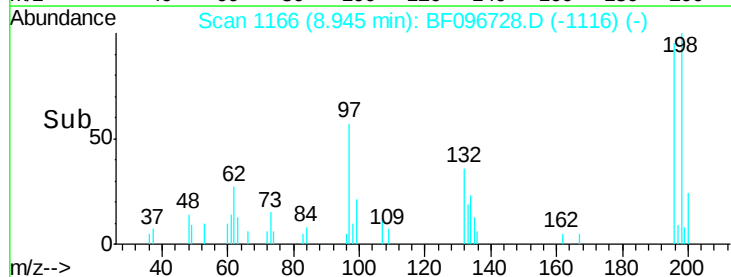


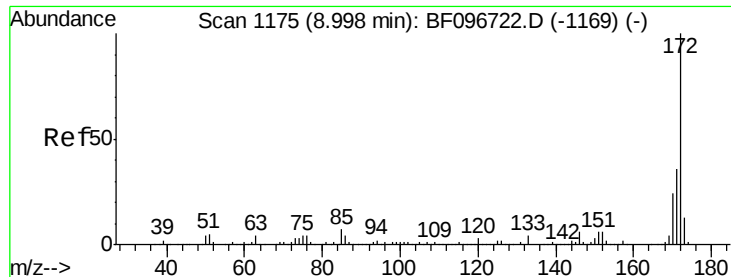
#43
 2,4,5-Trichlorophenol
 Concen: 1.807 ng
 RT: 8.95 min Scan# 1166
 Delta R.T. -0.01 min
 Lab File: BF096728.D
 Acq: 13 Jul 2017 15:26

Tgt Ion:196 Resp: 6941
 Ion Ratio Lower Upper
 196 100
 198 104.9 75.7 113.5
 97 60.1 47.7 71.5
 132 38.0 28.0 42.0



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): BF0
 Ion 132.00 (131.70 to 132.70): E

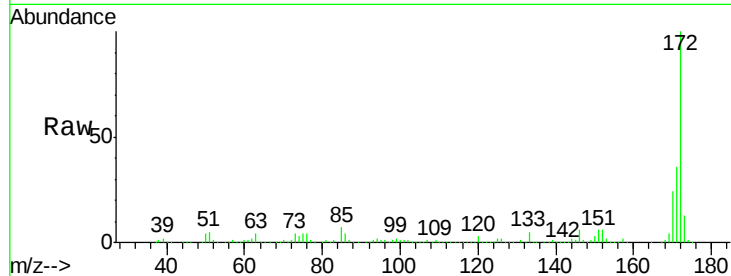




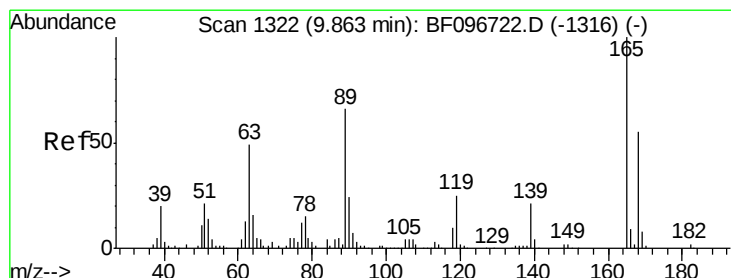
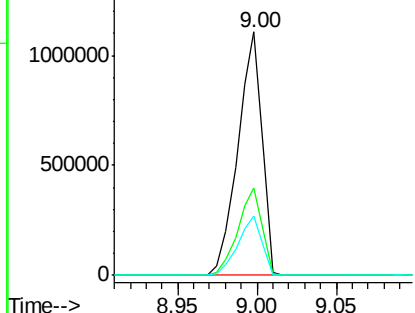
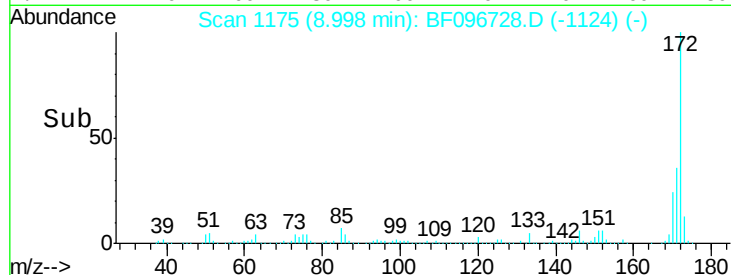
#44
 2-Fluorobiphenyl
 Concen: 95.632 ng
 RT: 9.00 min Scan# 1175
 Delta R.T. -0.00 min
 Lab File: BF096728.D
 Acq: 13 Jul 2017 15:26

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT3-2017

Tgt Ion:172 Resp: 1156425
 Ion Ratio Lower Upper
 172 100
 171 36.1 29.6 44.4
 170 24.5 19.8 29.8

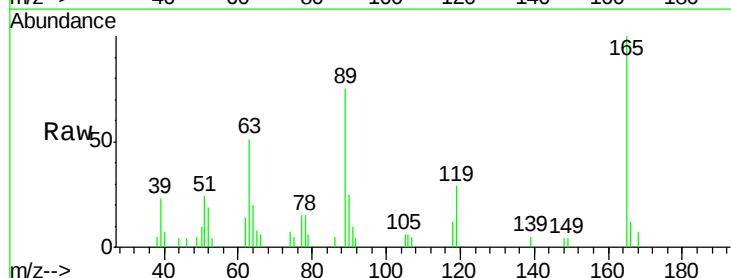


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

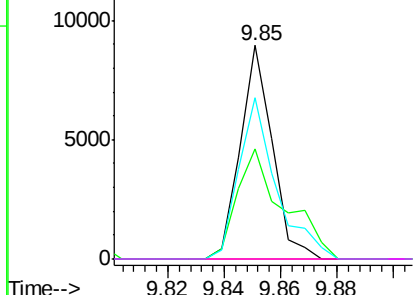
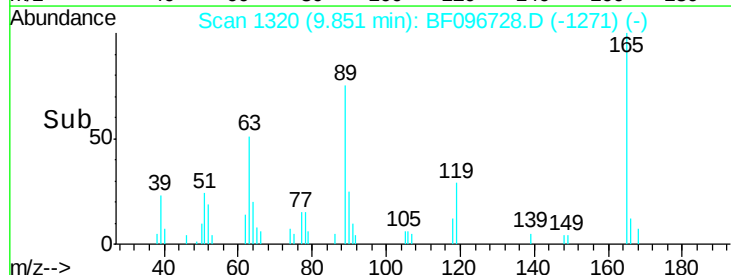


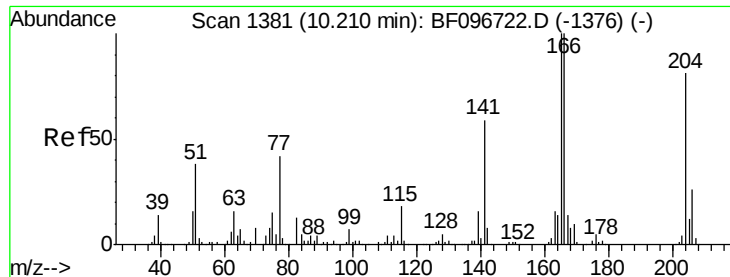
#56
 2,4-Dinitrotoluene
 Concen: 1.763 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: BF096728.D
 Acq: 13 Jul 2017 15:26

Tgt Ion:165 Resp: 7058
 Ion Ratio Lower Upper
 165 100
 63 51.3 25.4 38.0#
 89 75.4 46.4 69.6#
 182 0.0 1.8 2.6#



Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0
 Ion 182.00 (181.70 to 182.70): E

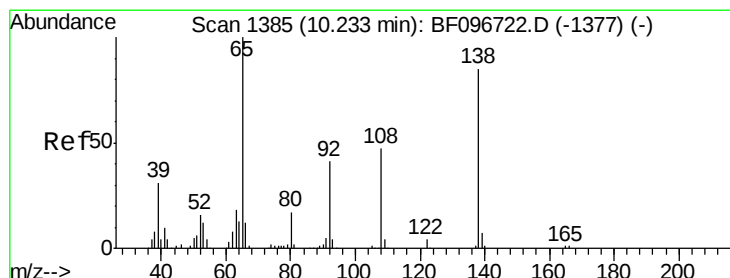
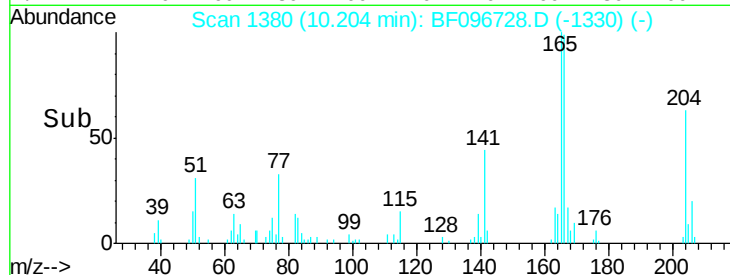
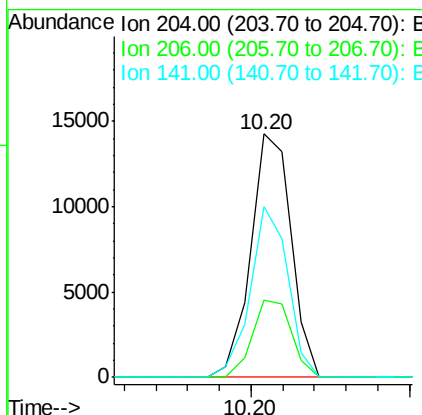
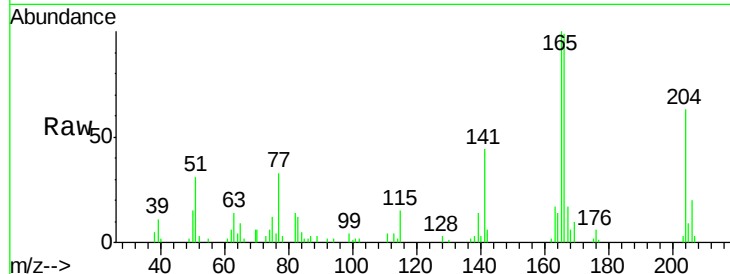




#60
 4-Chlorophenyl-phenylether
 Concen: 1.400 ng
 RT: 10.20 min Scan# 1380
 Delta R.T. -0.01 min
 Lab File: BF096728.D
 Acq: 13 Jul 2017 15:26

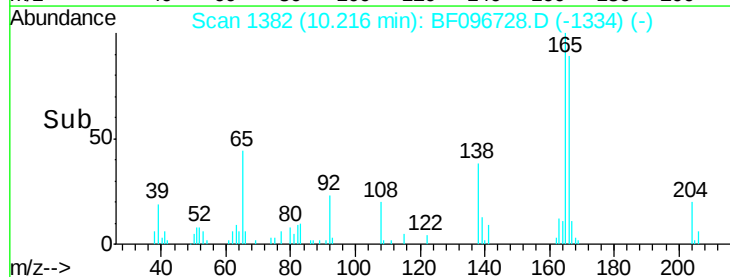
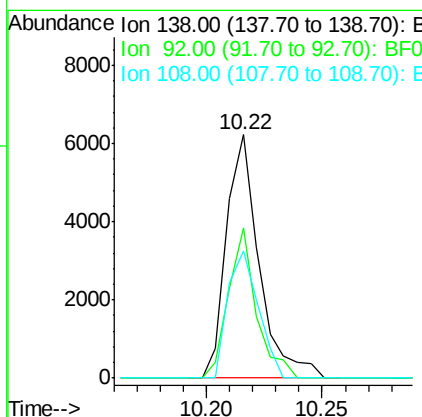
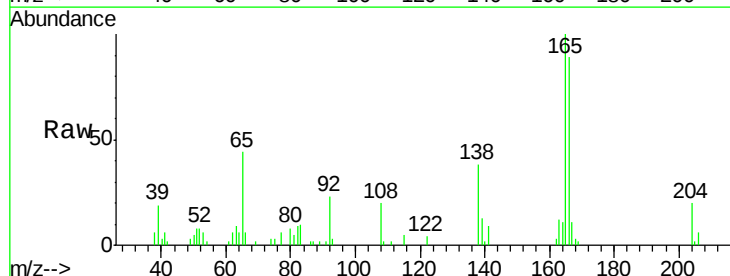
Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT3-2017

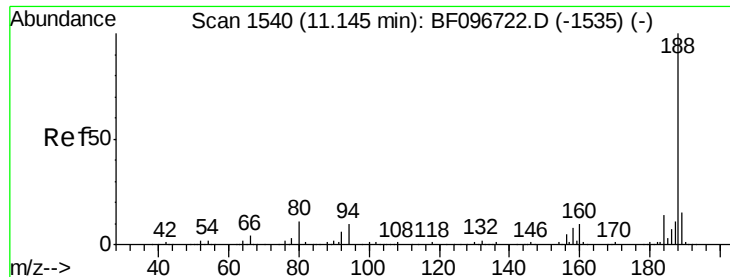
Tgt Ion: 204 Resp: 12618
 Ion Ratio Lower Upper
 204 100
 206 31.7 26.2 39.2
 141 70.0 60.8 91.2



#61
 4-Nitroaniline
 Concen: 1.772 ng
 RT: 10.22 min Scan# 1382
 Delta R.T. -0.02 min
 Lab File: BF096728.D
 Acq: 13 Jul 2017 15:26

Tgt Ion: 138 Resp: 6142
 Ion Ratio Lower Upper
 138 100
 92 61.5 21.8 61.8
 108 52.4 42.3 82.3





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.15 min Scan# 1540

Delta R.T. -0.00 min

Lab File: BF096728.D

Acq: 13 Jul 2017 15:26

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT3-2017

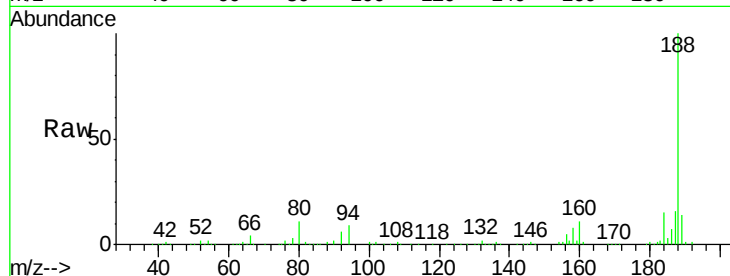
Tgt Ion:188 Resp: 329711

Ion Ratio Lower Upper

188 100

94 9.3 9.4 14.2#

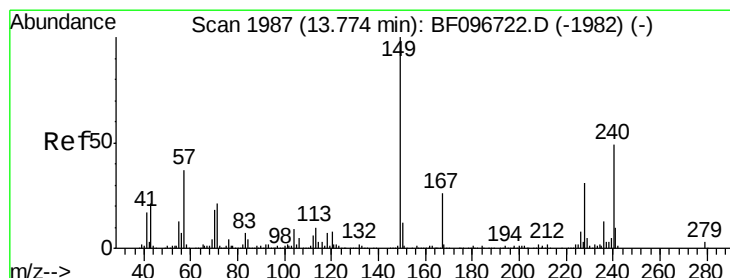
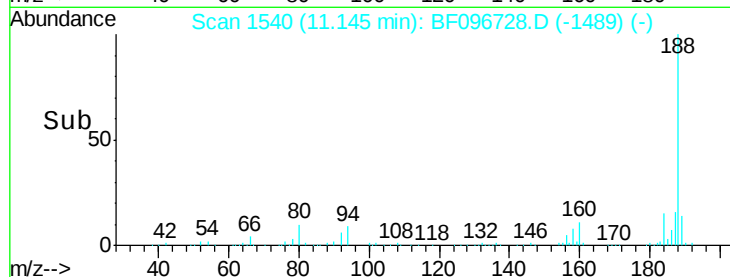
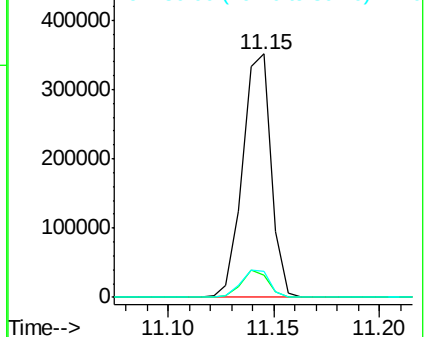
80 10.5 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.77 min Scan# 1986

Delta R.T. -0.01 min

Lab File: BF096728.D

Acq: 13 Jul 2017 15:26

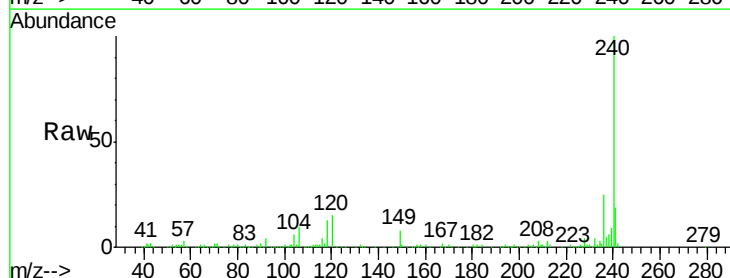
Tgt Ion:240 Resp: 276662

Ion Ratio Lower Upper

240 100

120 14.8 5.8 8.8#

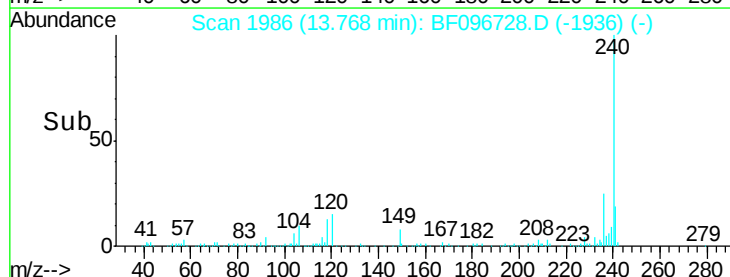
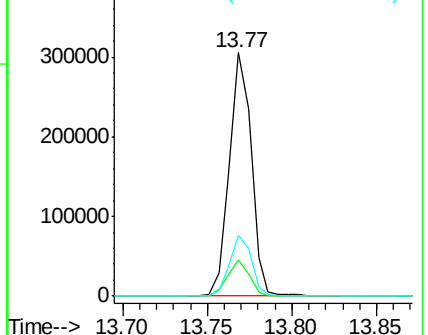
236 24.8 20.5 30.7

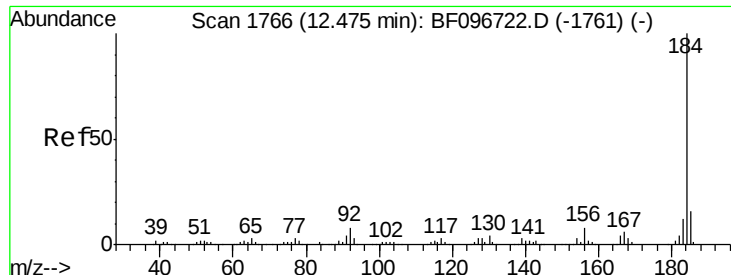


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

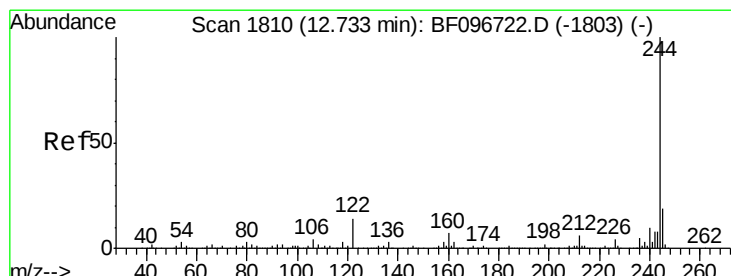
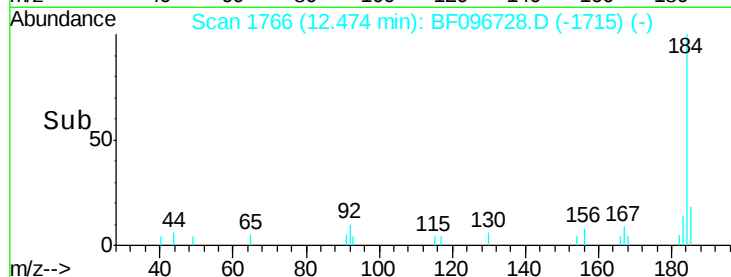
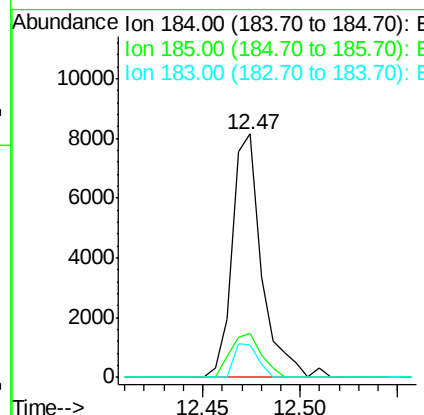
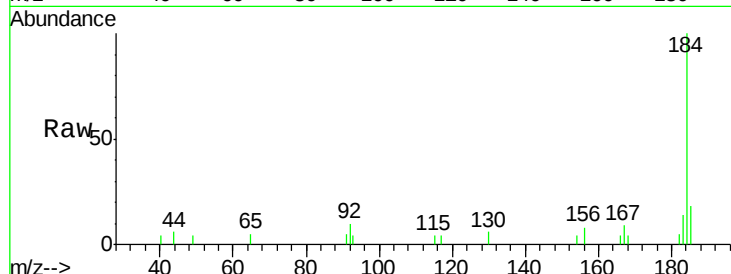




#76
Benzidine
Concen: 0.942 ng
RT: 12.47 min Scan# 1766
Delta R.T. -0.00 min
Lab File: BF096728.D
Acq: 13 Jul 2017 15:26

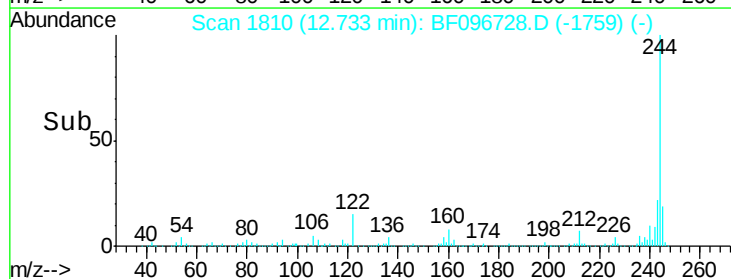
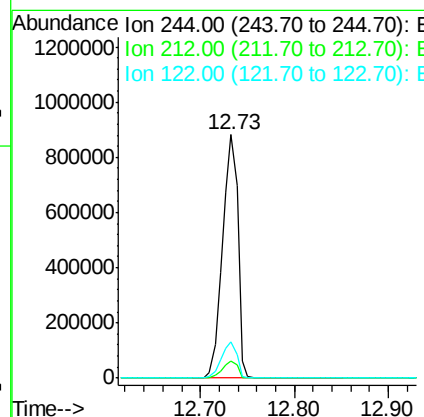
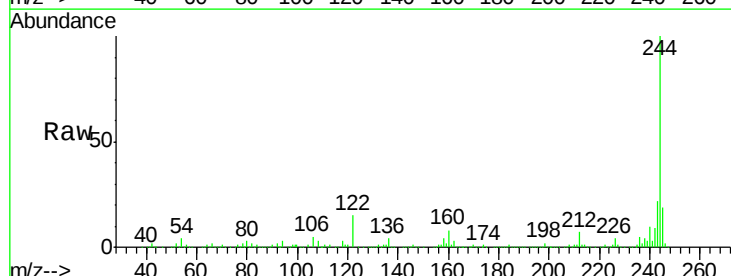
Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT3-2017

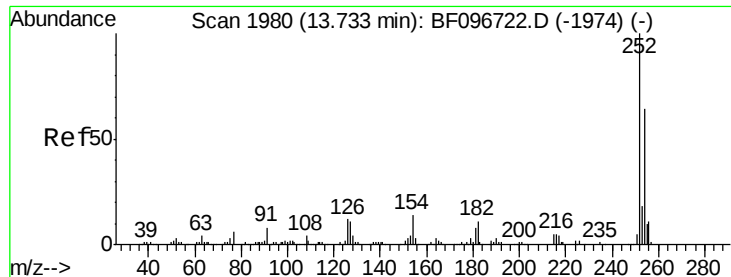
Tgt Ion:184 Resp: 8534
Ion Ratio Lower Upper
184 100
185 18.0 15.5 23.3
183 13.5 9.8 14.6



#78
Terphenyl-d14
Concen: 63.285 ng
RT: 12.73 min Scan# 1810
Delta R.T. -0.00 min
Lab File: BF096728.D
Acq: 13 Jul 2017 15:26

Tgt Ion:244 Resp: 1009565
Ion Ratio Lower Upper
244 100
212 6.9 6.0 9.0
122 14.7 10.3 15.5





#81

3,3'-Dichlorobenzidine

Concen: 1.651 ng

RT: 13.73 min Scan# 1979

Delta R.T. -0.01 min

Lab File: BF096728.D

Acq: 13 Jul 2017 15:26

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT3-2017

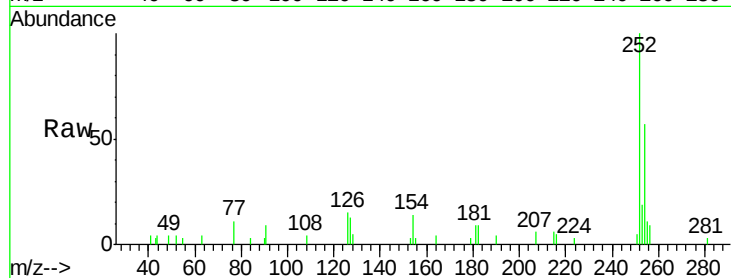
Tgt Ion:252 Resp: 10236

Ion Ratio Lower Upper

252 100

254 57.2 51.5 77.3

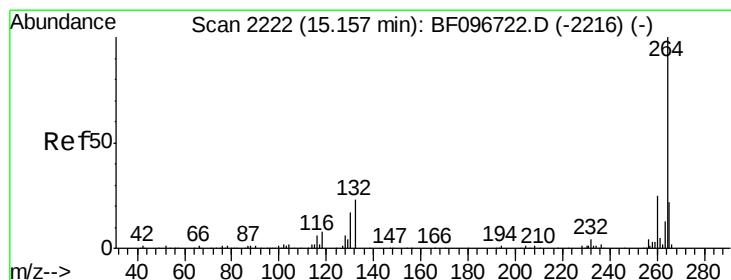
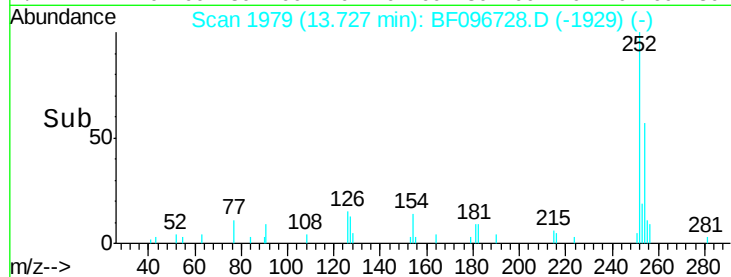
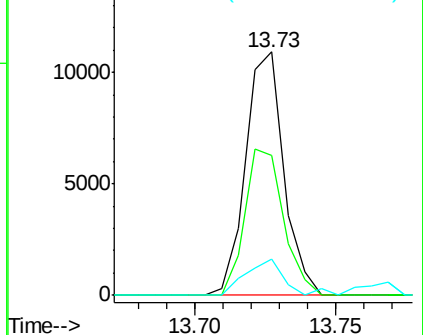
126 14.8 15.8 23.8#



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.15 min Scan# 2221

Delta R.T. -0.01 min

Lab File: BF096728.D

Acq: 13 Jul 2017 15:26

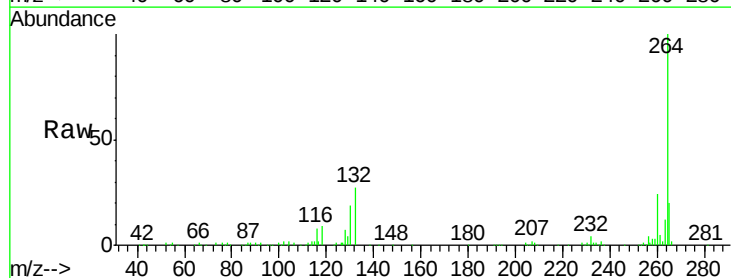
Tgt Ion:264 Resp: 182376

Ion Ratio Lower Upper

264 100

260 23.9 19.5 29.3

265 20.1 17.2 25.8



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

