

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100517\
 Data File : BF099097.D
 Acq On : 5 Oct 2017 11:34
 Operator : SJ/JU
 Sample : I5275-01
 Misc : LOD 5 PPM
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT4-2017

Quant Time: Oct 06 01:16:56 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 05 09:04:50 2017
 Response via : Initial Calibration

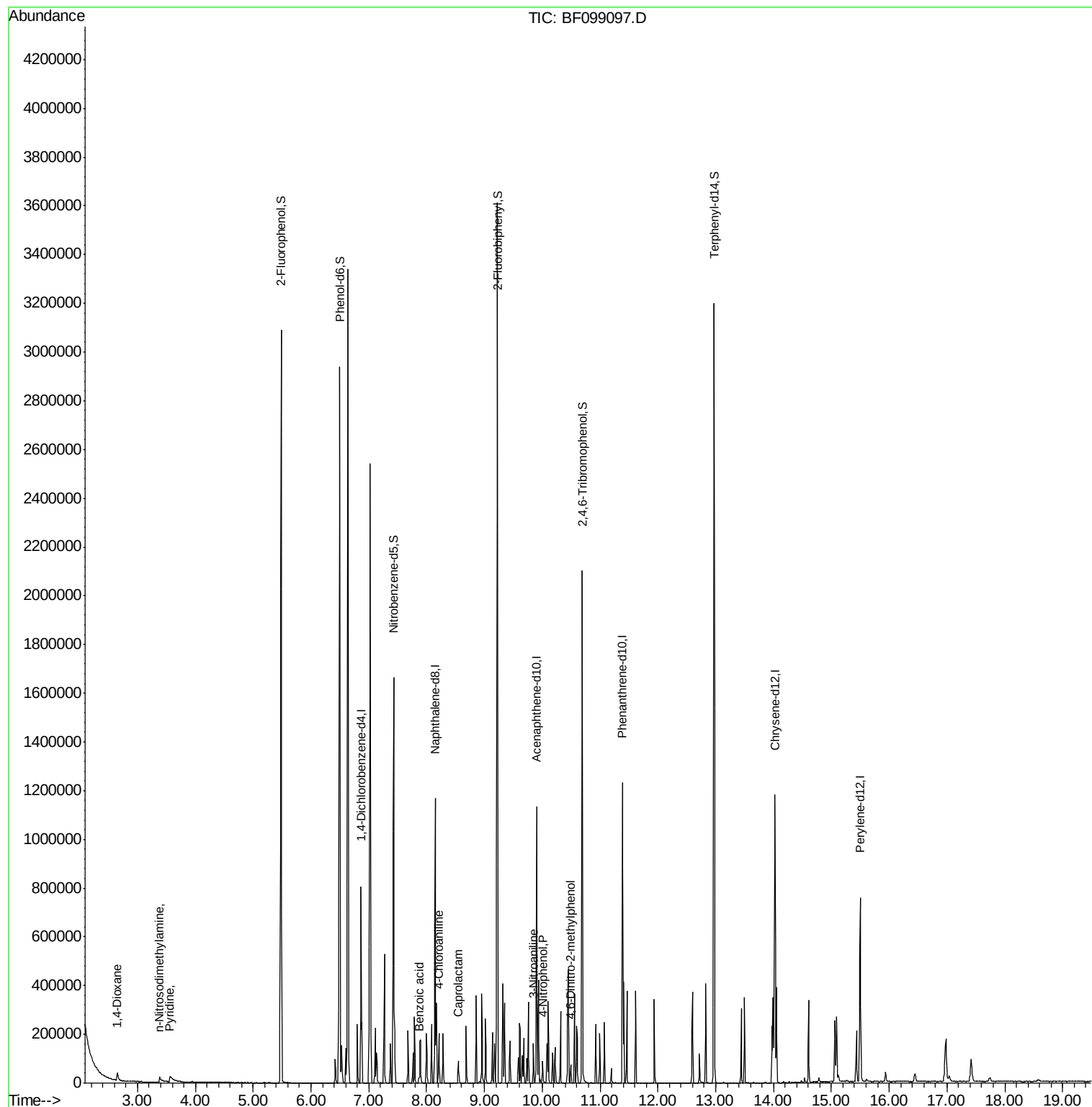
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	118460	20.00	ng	-0.06
21) Naphthalene-d8	8.15	136	491818	20.00	ng	-0.06
38) Acenaphthene-d10	9.90	164	227389	20.00	ng	-0.06
63) Phenanthrene-d10	11.39	188	409025	20.00	ng	-0.06
75) Chrysene-d12	14.03	240	345024	20.00	ng	-0.06
86) Perylene-d12	15.50	264	312301	20.00	ng	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	1076724	144.69	ng	-0.05
7) Phenol-d6	6.50	99	1322959	144.12	ng	-0.05
23) Nitrobenzene-d5	7.43	82	643358	83.89	ng	-0.06
41) 2,4,6-Tribromophenol	10.69	330	285622	153.51	ng	-0.06
44) 2-Fluorobiphenyl	9.22	172	1170526	85.94	ng	-0.06
78) Terphenyl-d14	12.97	244	1039385	68.51	ng	-0.06
Target Compounds						
2) 1,4-Dioxane	2.65	88	19642	5.526	ng	90
3) Pyridine	3.56	79	43461	4.520	ng	98
4) n-Nitrosodimethylamine	3.38	42	16262	3.988	ng	94
32) Benzoic acid	7.87	122	9992	1.540	ng	95
33) 4-Chloroaniline	8.22	127	53080	5.503	ng	97
35) Caprolactam	8.55	113	11510	5.290	ng	93
52) 3-Nitroaniline	9.85	138	24636	5.655	ng	99
55) 4-Nitrophenol	10.00	139	15522	4.214	ng	93
64) 4,6-Dinitro-2-methylphenol	10.49	198	8997	3.615	ng	98

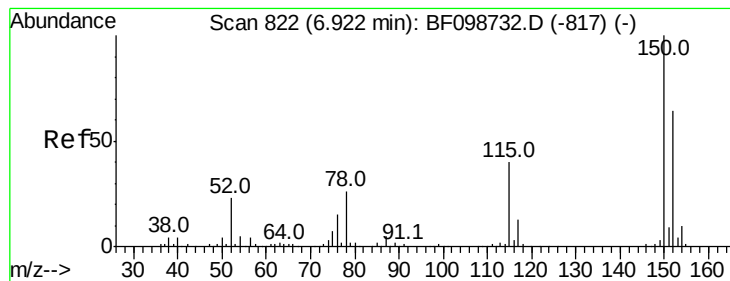
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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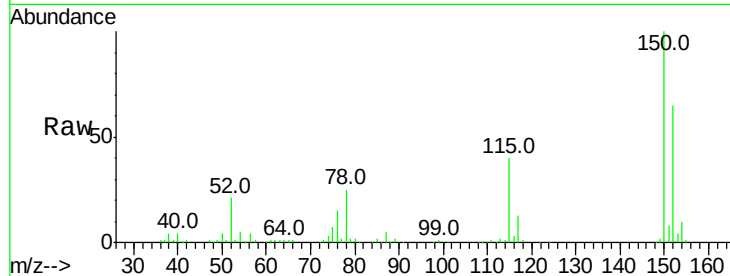


#1

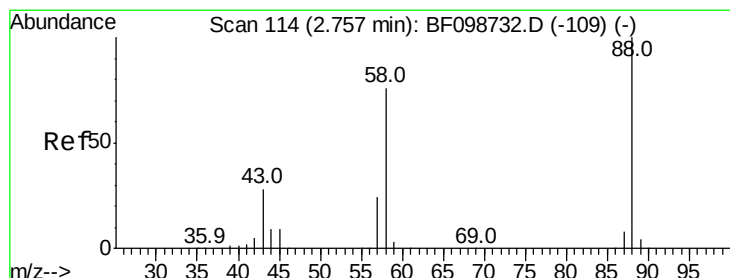
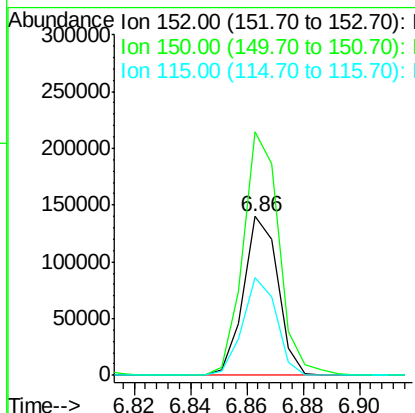
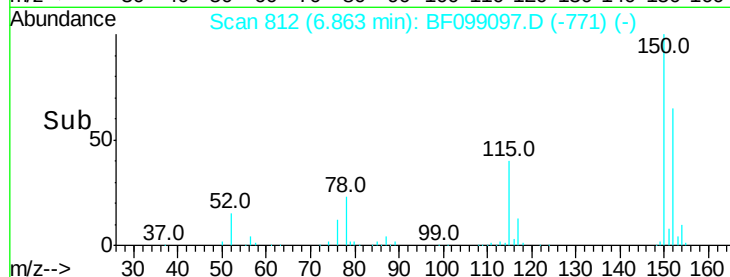
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.86 min Scan# 812
 Delta R.T. -0.06 min
 Lab File: BF099097.D
 Acq: 5 Oct 2017 11:34

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT4-2017

Tot Ion:152 Resp: 118460
 Ion Ratio Lower Upper
 152 100
 150 153.6 124.6 186.8
 115 61.7 50.1 75.1



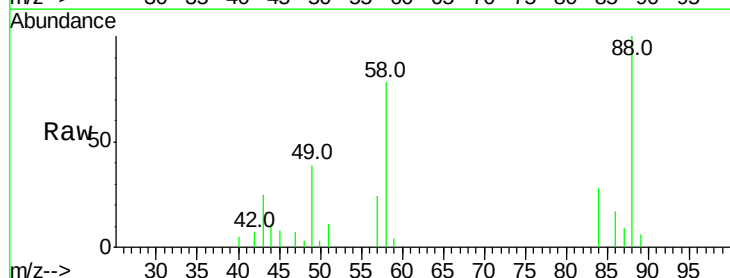
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



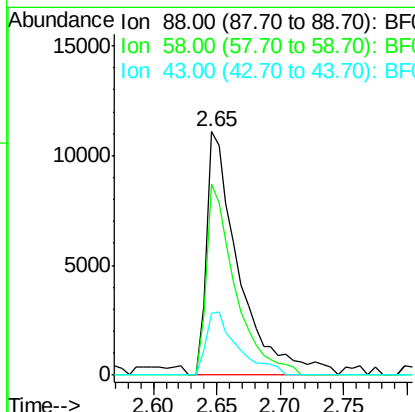
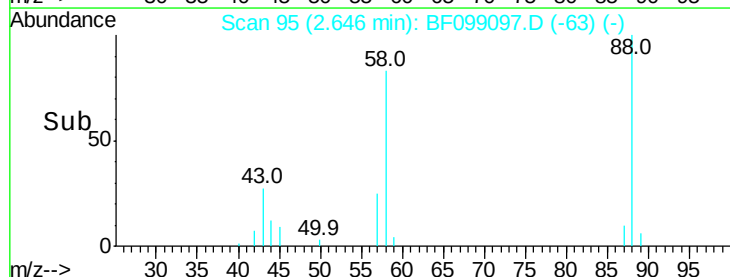
#2

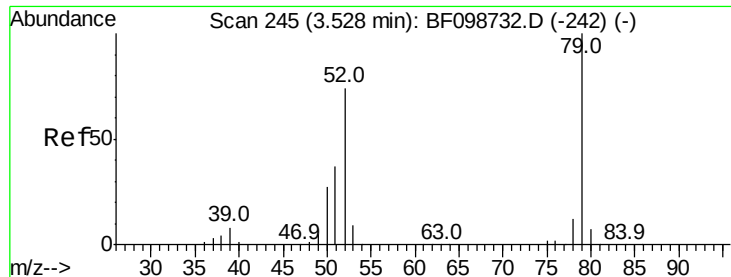
1,4-Dioxane
 Concen: 5.526 ng
 RT: 2.65 min Scan# 95
 Delta R.T. -0.11 min
 Lab File: BF099097.D
 Acq: 5 Oct 2017 11:34

Tgt Ion: 88 Resp: 19642
 Ion Ratio Lower Upper
 88 100
 58 70.0 62.6 93.8
 43 25.4 24.6 37.0



Abundance Ion 88.00 (87.70 to 88.70): BF0
 Ion 58.00 (57.70 to 58.70): BF0
 Ion 43.00 (42.70 to 43.70): BF0





#3

Pvridine

Concen: 4.520 ng

RT: 3.56 min Scan# 250

Delta R.T. 0.03 min

Lab File: BF099097.D

Acq: 5 Oct 2017 11:34

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT4-2017

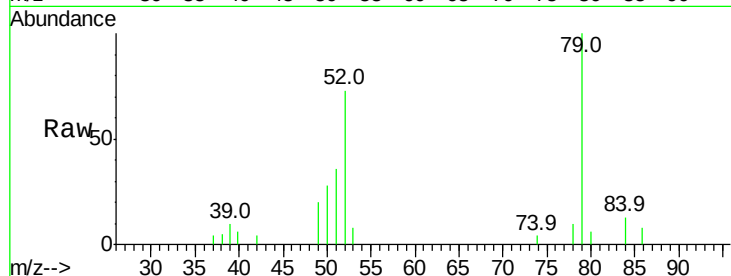
Tot Ion: 79 Resp: 43461

Ion Ratio Lower Upper

79 100

52 72.6 59.8 89.6

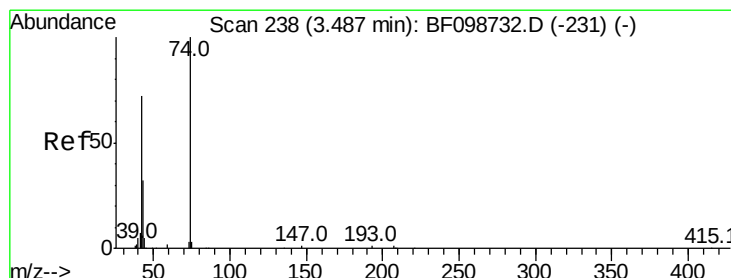
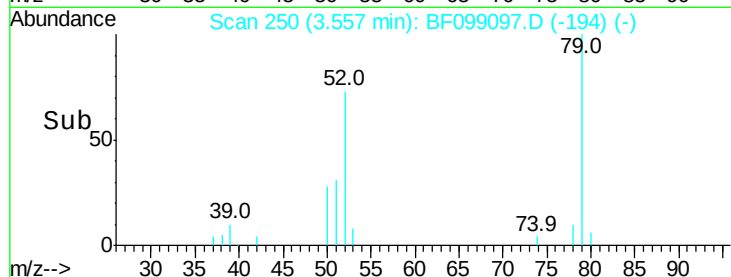
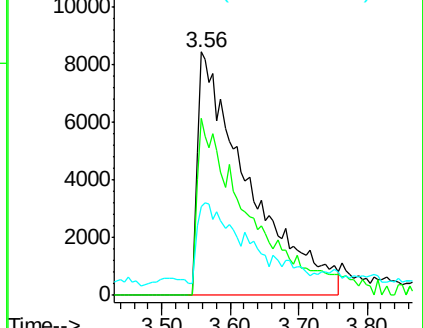
51 36.3 29.8 44.8



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 52.00 (51.70 to 52.70): BF0

Ion 51.00 (50.70 to 51.70): BF0



#4

n-Nitrosodimethylamine

Concen: 3.988 ng

RT: 3.38 min Scan# 220

Delta R.T. -0.11 min

Lab File: BF099097.D

Acq: 5 Oct 2017 11:34

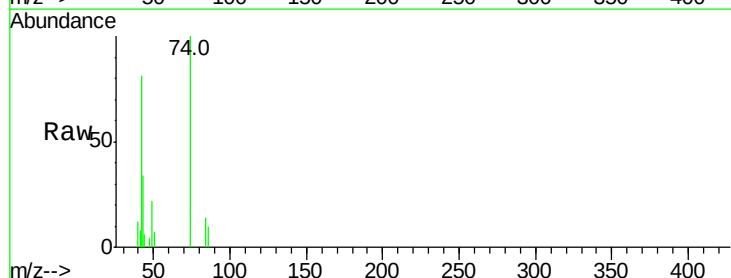
Tgt Ion: 42 Resp: 16262

Ion Ratio Lower Upper

42 100

74 123.2 104.9 157.3

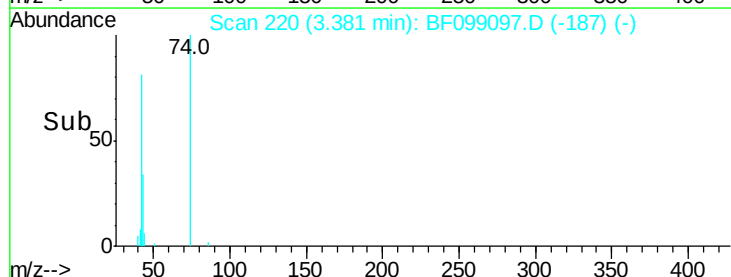
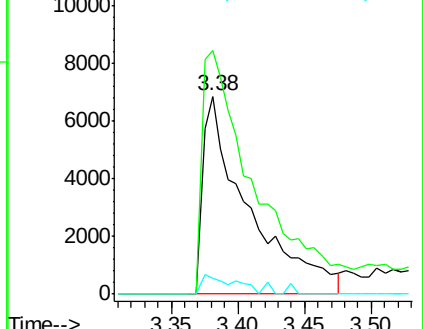
44 7.7 6.9 10.3

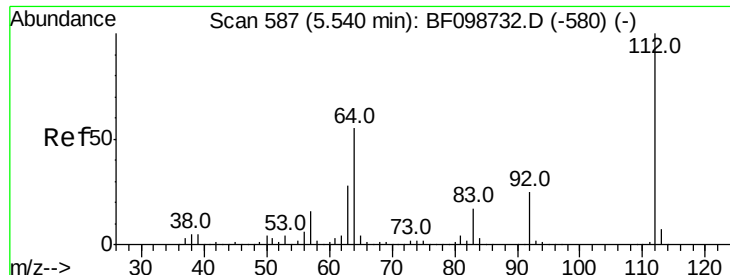


Abundance Ion 42.00 (41.70 to 42.70): BF0

Ion 74.00 (73.70 to 74.70): BF0

Ion 44.00 (43.70 to 44.70): BF0





#5

2-Fluorophenol

Concen: 144.693 ng

RT: 5.49 min Scan# 578

Delta R.T. -0.05 min

Lab File: BF099097.D

Acq: 5 Oct 2017 11:34

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT4-2017

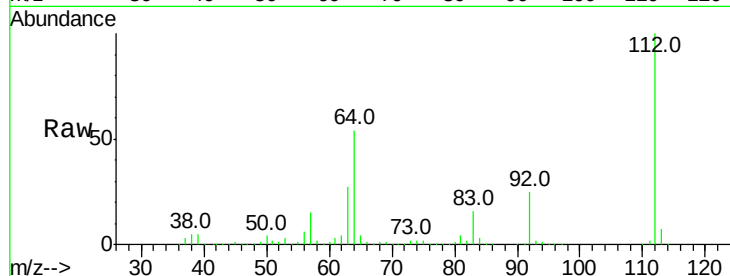
Tot Ion:112 Resp: 1076724

Ion Ratio Lower Upper

112 100

64 54.4 47.9 71.9

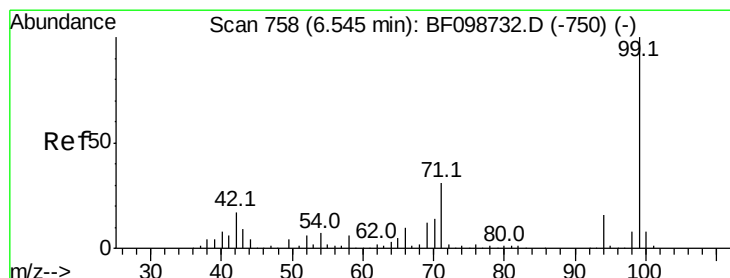
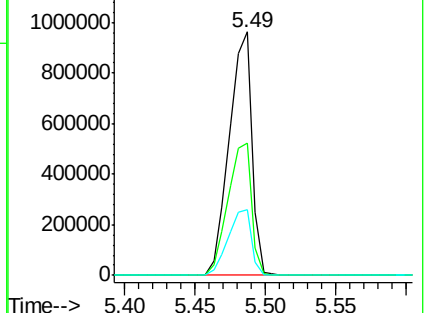
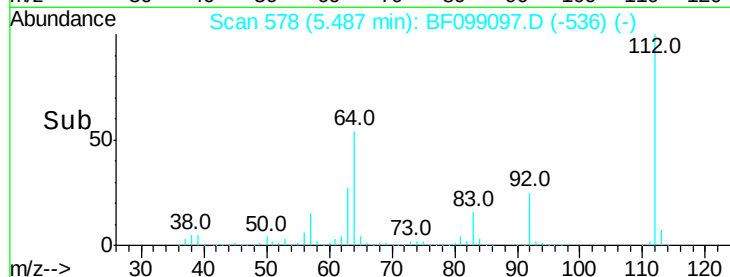
63 27.1 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#7

Phenol-d6

Concen: 144.116 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.05 min

Lab File: BF099097.D

Acq: 5 Oct 2017 11:34

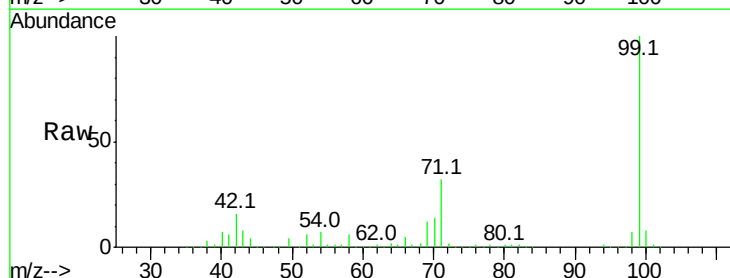
Tgt Ion: 99 Resp: 1322959

Ion Ratio Lower Upper

99 100

42 16.3 14.5 21.7

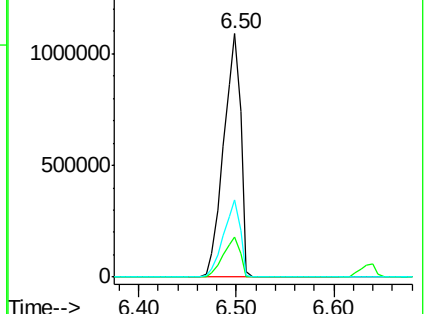
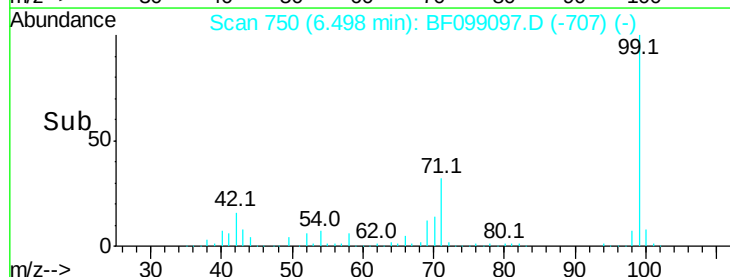
71 31.6 25.4 38.0

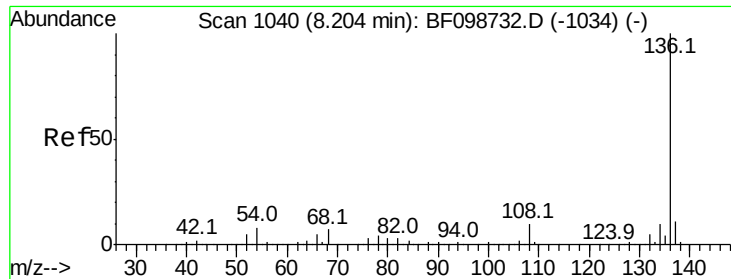


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

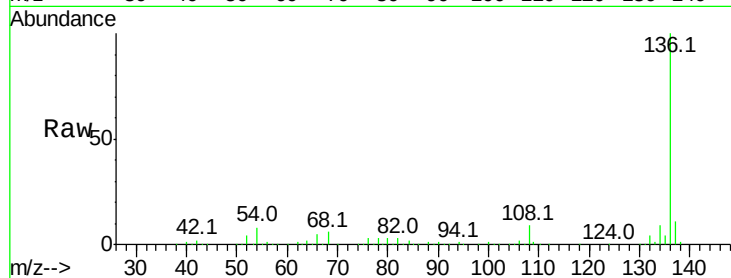




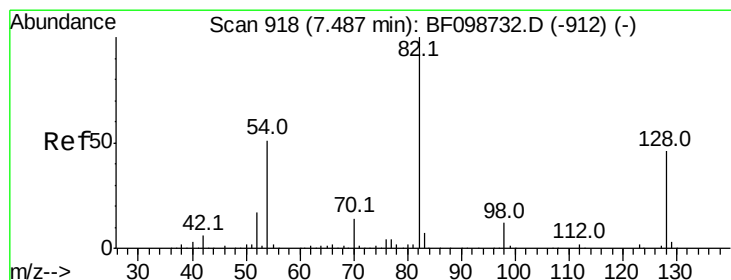
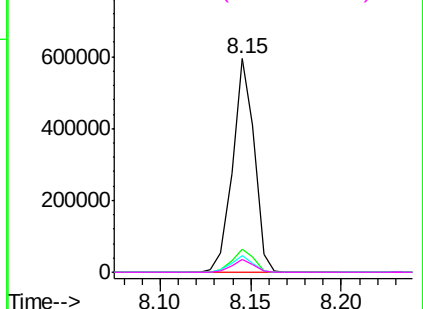
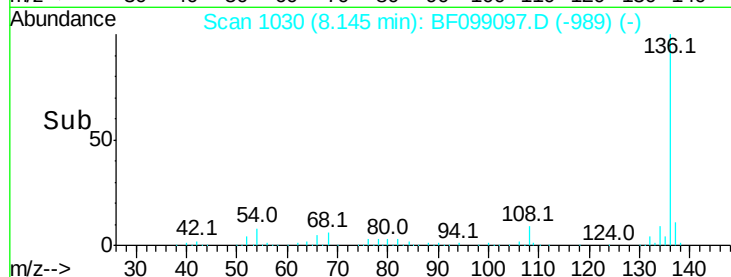
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.15 min Scan# 1030
Delta R.T. -0.06 min
Lab File: BF099097.D
Acq: 5 Oct 2017 11:34

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BNA_F
ClientSampleId :
LOD-SOIL-01-QT4-2017

Tot Ion:	136	Resp:	491818
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	7.8	6.6	9.8
68	6.3	5.0	7.4

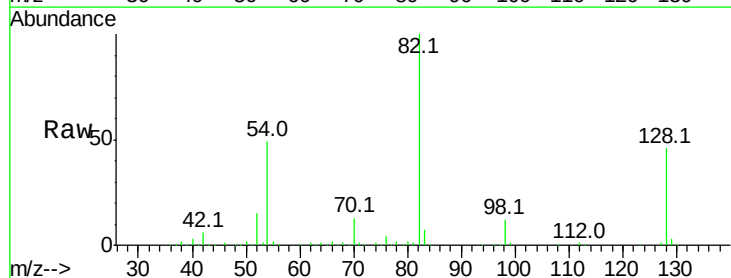


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

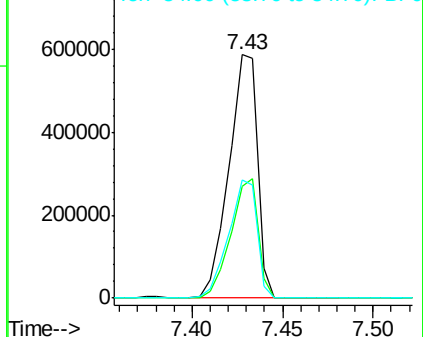
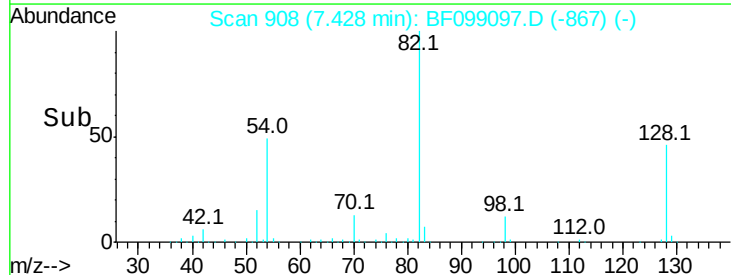


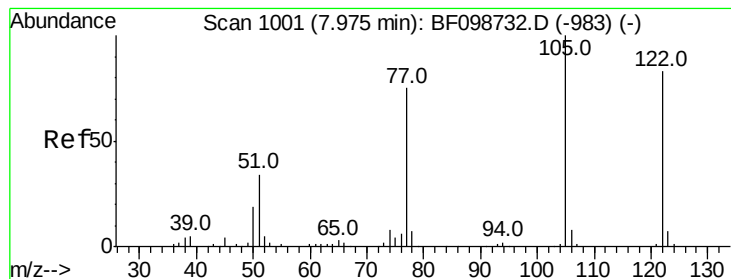
#23
Nitrobenzene-d5
Concen: 83.890 ng
RT: 7.43 min Scan# 908
Delta R.T. -0.06 min
Lab File: BF099097.D
Acq: 5 Oct 2017 11:34

Tgt Ion:	82	Resp:	643358
Ion	Ratio	Lower	Upper
82	100		
128	45.9	36.1	54.1
54	48.7	41.4	62.2



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





#32

Benzoic acid

Concen: 1.540 ng

RT: 7.87 min Scan# 983

Delta R.T. -0.11 min

Lab File: BF099097.D

Acq: 5 Oct 2017 11:34

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT4-2017

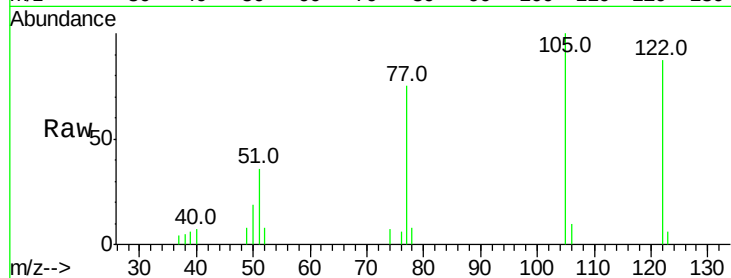
Tot Ion:122 Resp: 9992

Ion Ratio Lower Upper

122 100

105 115.2 101.1 141.1

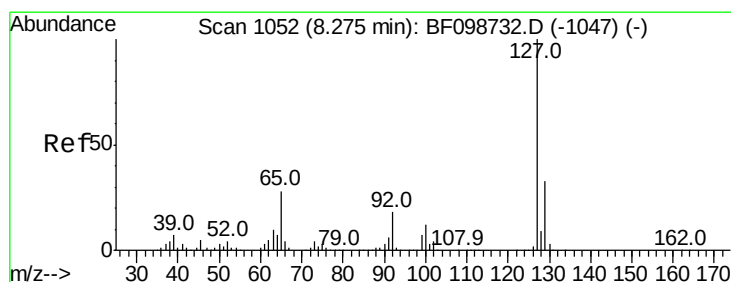
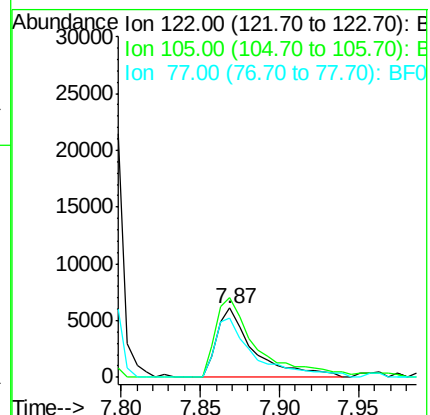
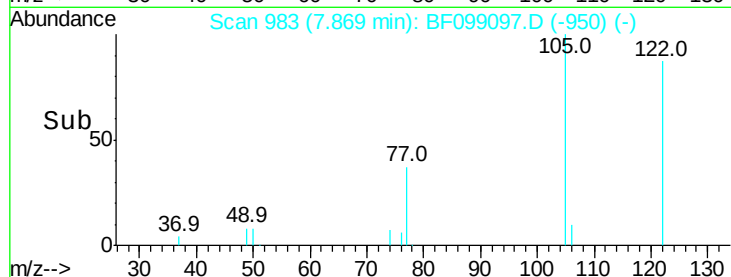
77 86.6 70.7 110.7



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): BF0



#33

4-Chloroaniline

Concen: 5.503 ng

RT: 8.22 min Scan# 1042

Delta R.T. -0.06 min

Lab File: BF099097.D

Acq: 5 Oct 2017 11:34

Tgt Ion:127 Resp: 53080

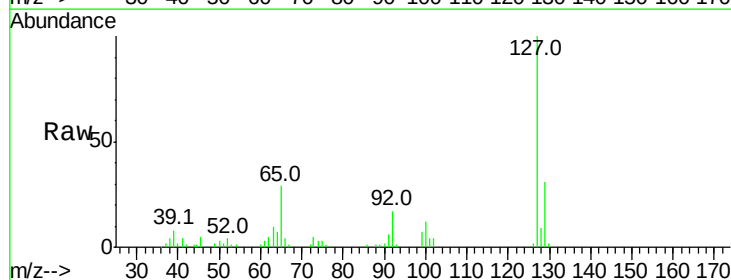
Ion Ratio Lower Upper

127 100

129 31.3 25.9 38.9

65 29.1 25.0 37.4

92 17.5 15.2 22.8

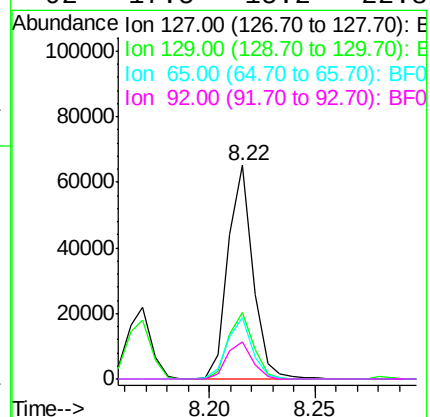
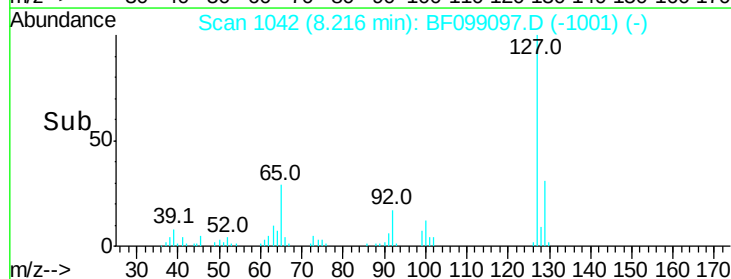


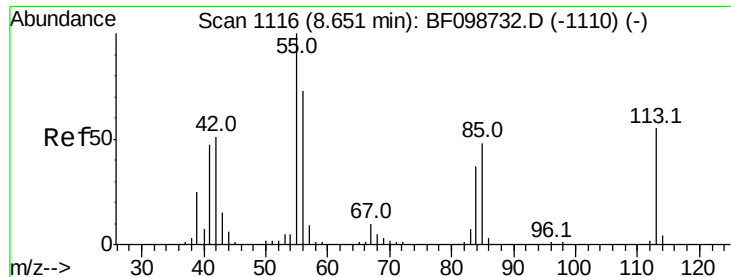
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0

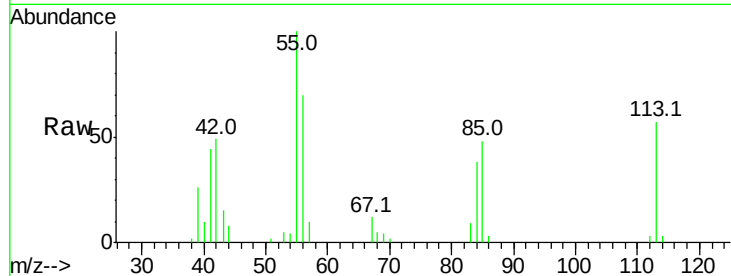




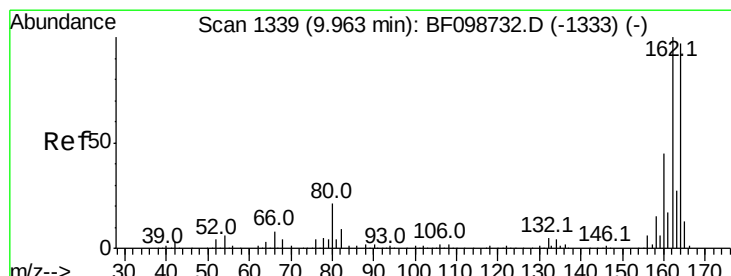
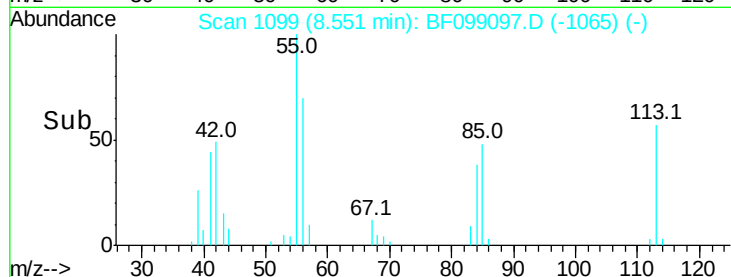
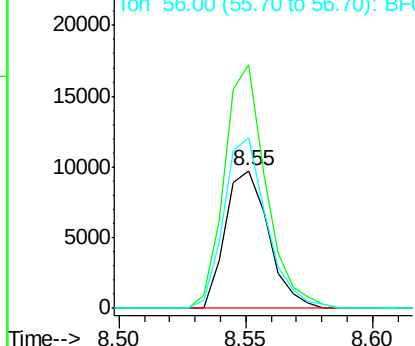
#35
Caprolactam
Concen: 5.290 ng
RT: 8.55 min Scan# 1099
Delta R.T. -0.10 min
Lab File: BF099097.D
Acq: 5 Oct 2017 11:34

Instrument :
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Tot Ion:113 Resp: 11510
Ion Ratio Lower Upper
113 100
55 176.9 163.3 203.3
56 124.2 115.7 155.7

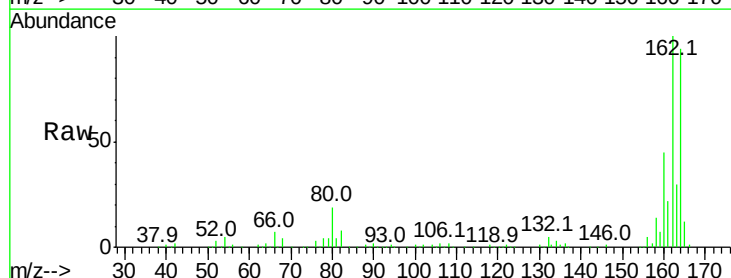


Abundance Ion 113.00 (112.70 to 113.70): E
Ion 55.00 (54.70 to 55.70): BF0
Ion 56.00 (55.70 to 56.70): BF0

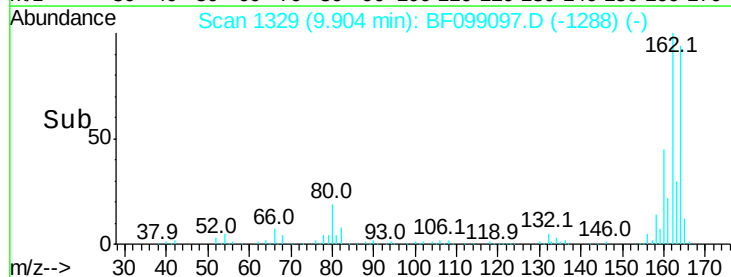
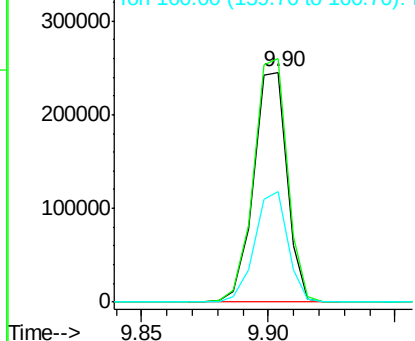


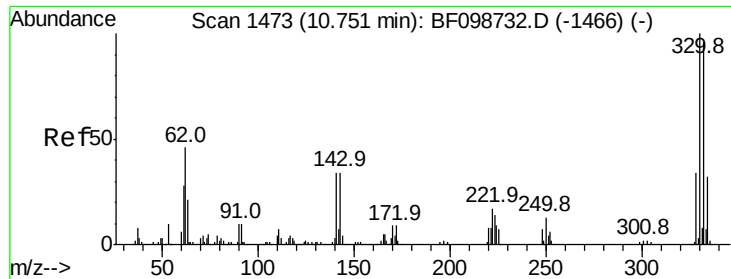
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1329
Delta R.T. -0.06 min
Lab File: BF099097.D
Acq: 5 Oct 2017 11:34

Tgt Ion:164 Resp: 227389
Ion Ratio Lower Upper
164 100
162 105.9 86.1 129.1
160 48.1 38.3 57.5



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

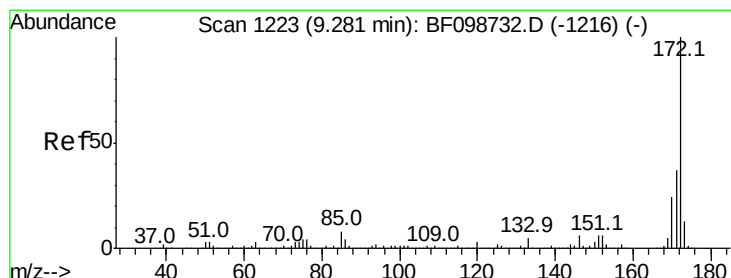
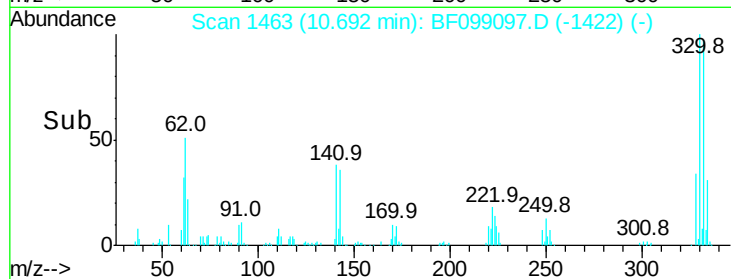
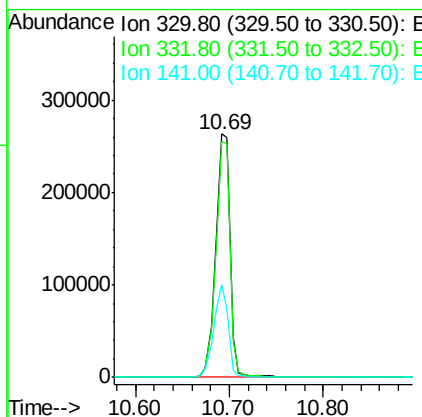
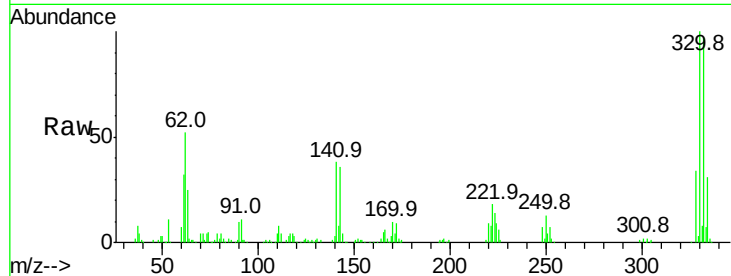




#41
 2,4,6-Tribromophenol
 Concen: 153.506 ng
 RT: 10.69 min Scan# 1463
 Delta R.T. -0.06 min
 Lab File: BF099097.D
 Acq: 5 Oct 2017 11:34

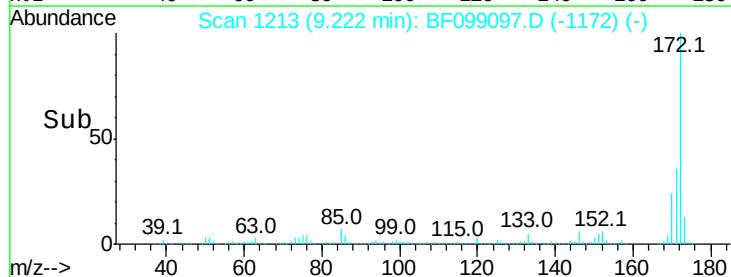
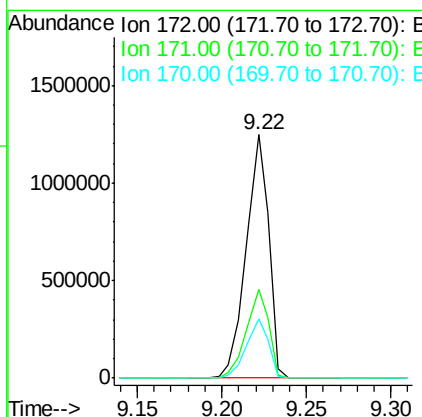
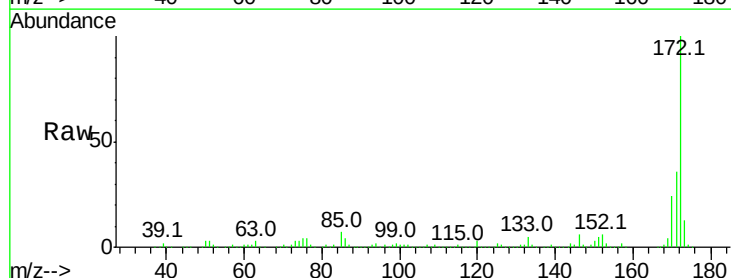
Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT4-2017

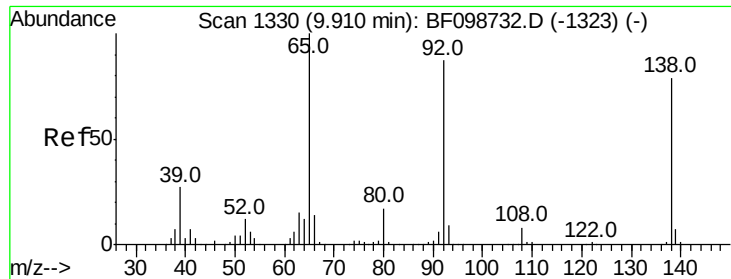
Tot Ion:330 Resp: 285622
 Ion Ratio Lower Upper
 330 100
 332 95.8 77.0 115.6
 141 38.1 29.9 44.9



#44
 2-Fluorobiphenyl
 Concen: 85.936 ng
 RT: 9.22 min Scan# 1213
 Delta R.T. -0.06 min
 Lab File: BF099097.D
 Acq: 5 Oct 2017 11:34

Tgt Ion:172 Resp: 1170526
 Ion Ratio Lower Upper
 172 100
 171 36.4 29.7 44.5
 170 24.1 19.6 29.4





#52

3-Nitroaniline

Concen: 5.655 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.06 min

Lab File: BF099097.D

Acq: 5 Oct 2017 11:34

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT4-2017

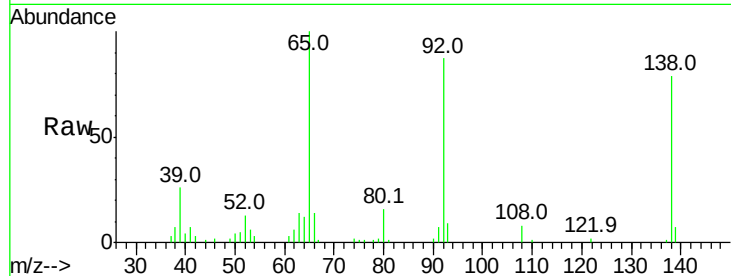
Tot Ion:138 Resp: 24636

Ion Ratio Lower Upper

138 100

108 10.3 9.4 14.0

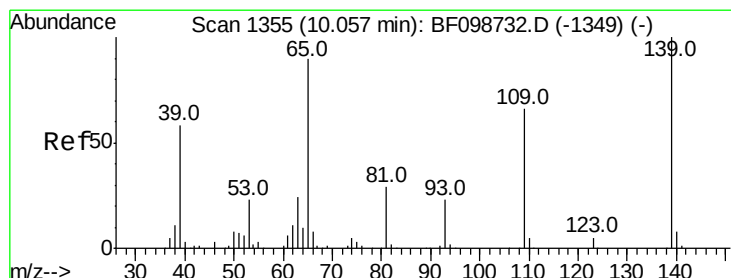
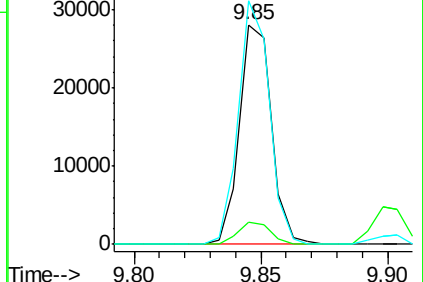
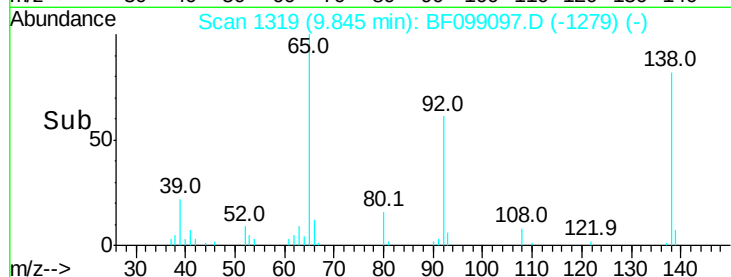
92 110.7 89.4 134.2



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0



#55

4-Nitrophenol

Concen: 4.214 ng

RT: 10.00 min Scan# 1346

Delta R.T. -0.05 min

Lab File: BF099097.D

Acq: 5 Oct 2017 11:34

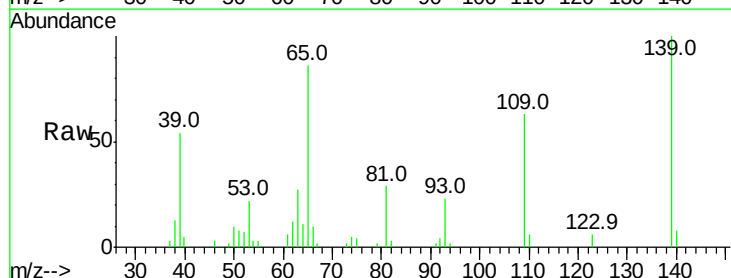
Tgt Ion:139 Resp: 15522

Ion Ratio Lower Upper

139 100

109 62.8 48.4 88.4

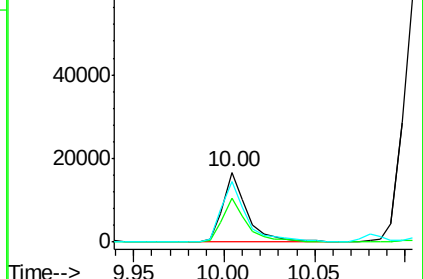
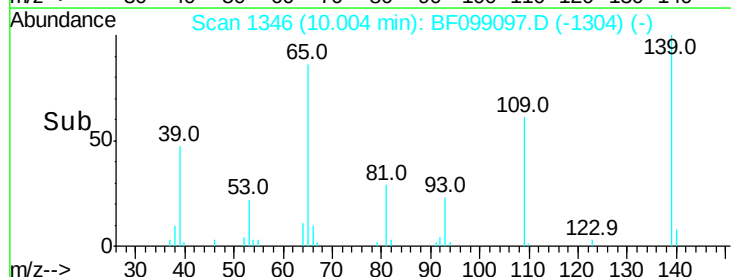
65 85.6 72.6 112.6

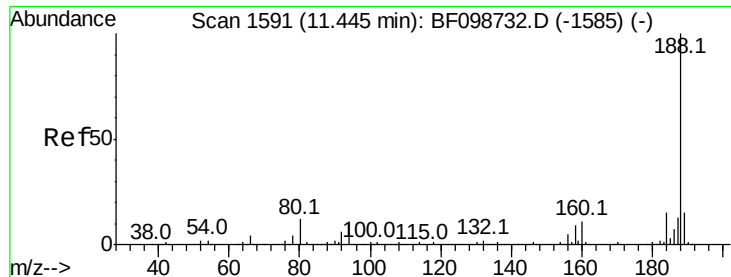


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

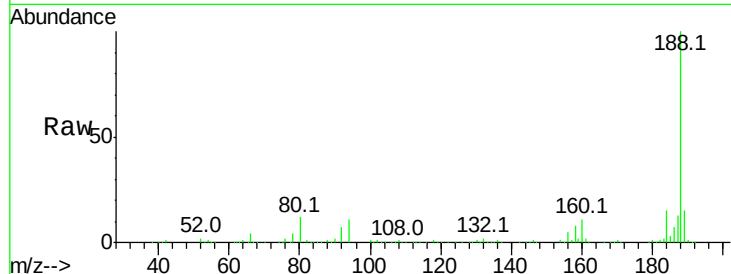




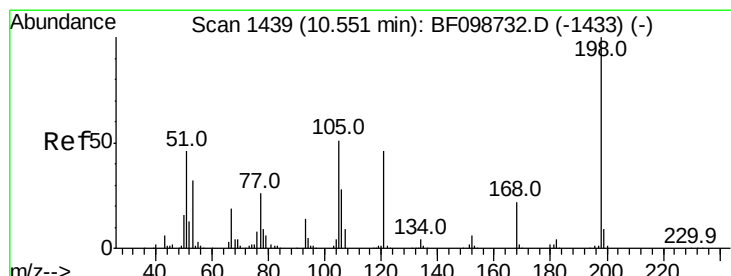
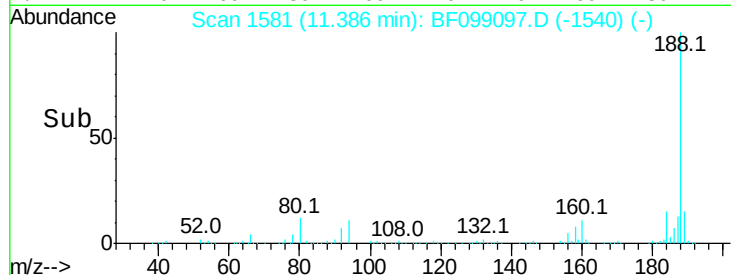
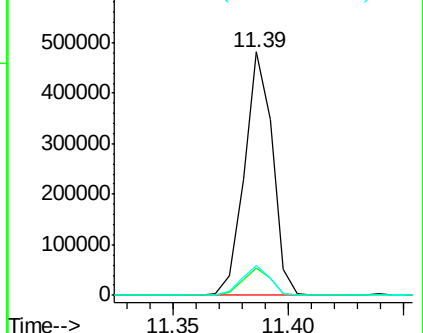
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.06 min
Lab File: BF099097.D
Acq: 5 Oct 2017 11:34

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL-01-QT4-2017

Tot Ion:188 Resp: 409025
Ion Ratio Lower Upper
188 100
94 11.4 8.5 12.7
80 12.3 9.2 13.8

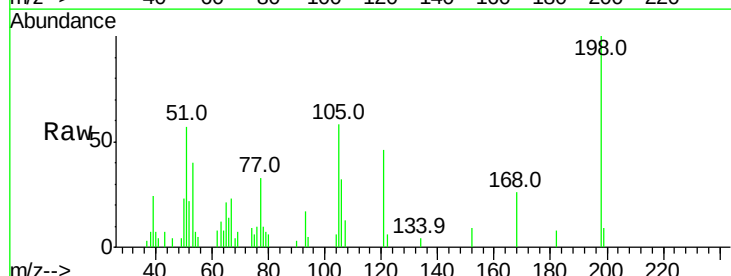


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

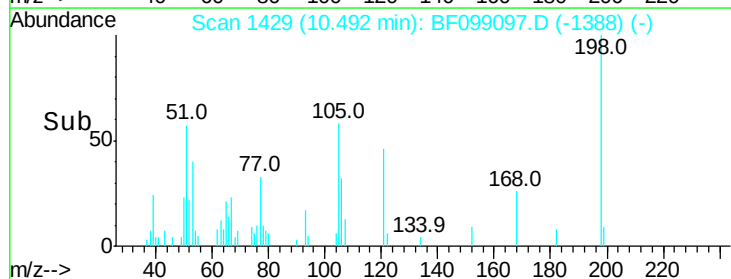
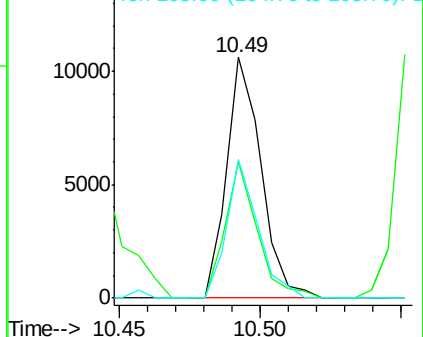


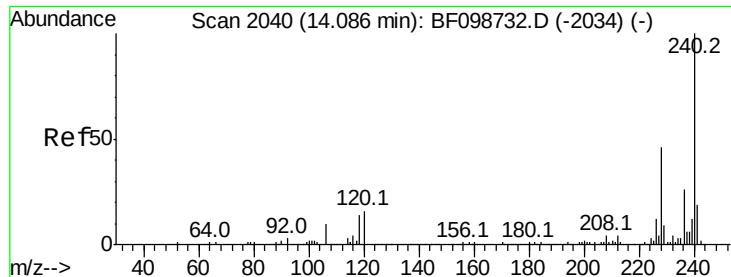
#64
4,6-Dinitro-2-methylphenol
Concen: 3.615 ng
RT: 10.49 min Scan# 1429
Delta R.T. -0.06 min
Lab File: BF099097.D
Acq: 5 Oct 2017 11:34

Tgt Ion:198 Resp: 8997
Ion Ratio Lower Upper
198 100
51 56.8 37.7 77.7
105 57.8 36.3 76.3



Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF0
Ion 105.00 (104.70 to 105.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.06 min

Lab File: BF099097.D

Acq: 5 Oct 2017 11:34

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL-01-QT4-2017

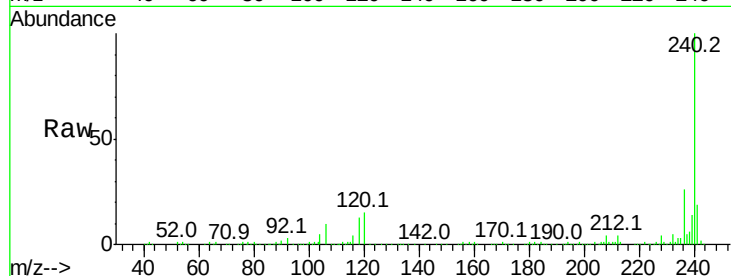
Tot Ion:240 Resp: 345024

Ion Ratio Lower Upper

240 100

120 14.9 9.5 14.3#

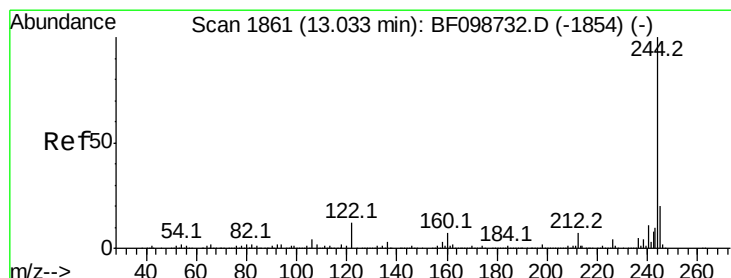
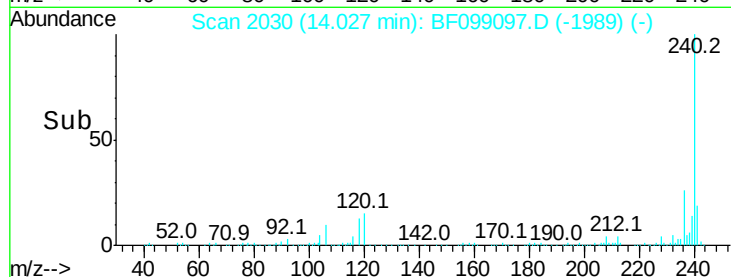
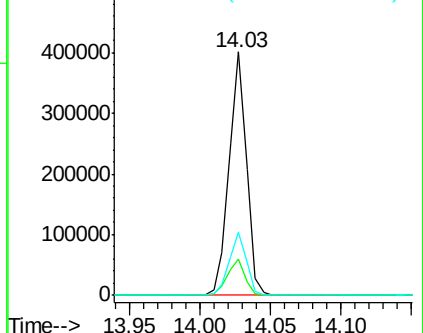
236 25.9 20.7 31.1



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

Terphenyl-d14

Concen: 68.510 ng

RT: 12.97 min Scan# 1851

Delta R.T. -0.06 min

Lab File: BF099097.D

Acq: 5 Oct 2017 11:34

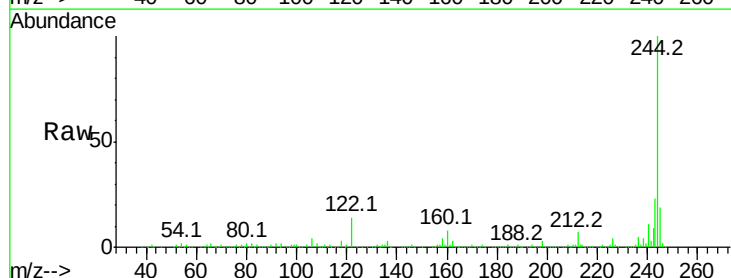
Tgt Ion:244 Resp: 1039385

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

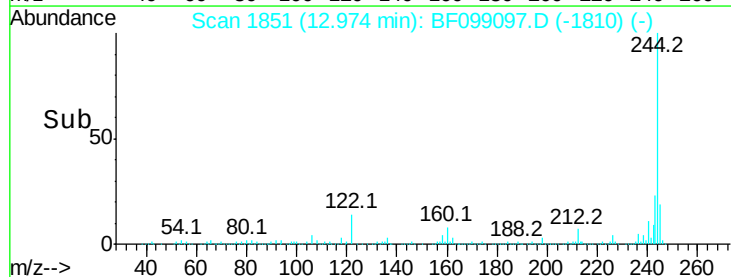
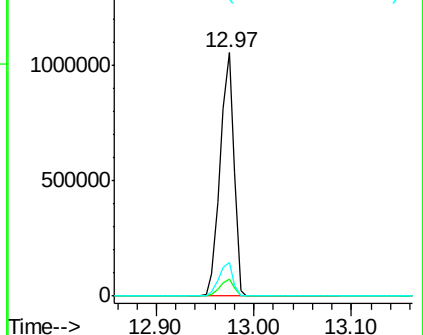
122 13.7 11.0 16.4

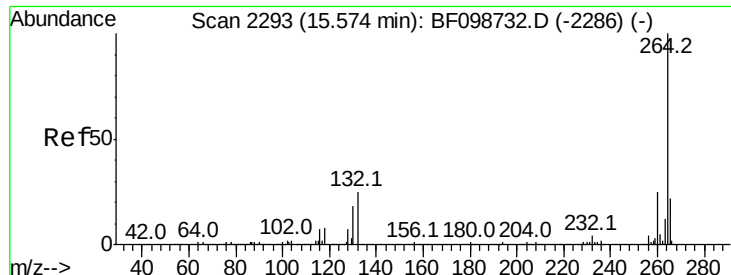


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

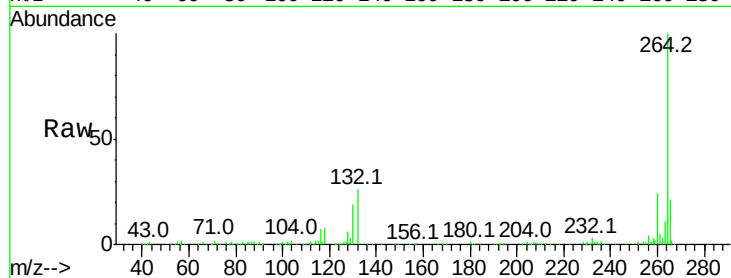




#86
 Pervlene-d12
 Concen: 20.000 ng
 RT: 15.50 min Scan# 2280
 Delta R.T. -0.08 min
 Lab File: BF099097.D
 Acq: 5 Oct 2017 11:34

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL-01-QT4-2017

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	21.1	17.5	26.3



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

