

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082817\
 Data File : BF098090.D
 Acq On : 29 Aug 2017 2:25
 Operator : SJ/JU
 Sample : I4965-01
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-OLDCASTLE-CO

Quant Time: Aug 29 07:56:20 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	109571	20.00	ng	-0.01
21) Naphthalene-d8	8.02	136	433546	20.00	ng	-0.01
38) Acenaphthene-d10	9.77	164	193224	20.00	ng	-0.01
63) Phenanthrene-d10	11.26	188	353356	20.00	ng	0.00
75) Chrysene-d12	13.89	240	239635	20.00	ng	0.00
86) Perylene-d12	15.32	264	236201	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	767282	106.51	ng	0.00
7) Phenol-d6	6.38	99	1062102	108.52	ng	0.00
23) Nitrobenzene-d5	7.30	82	636148	79.71	ng	-0.02
41) 2,4,6-Tribromophenol	10.56	330	191277	114.09	ng	-0.01
44) 2-Fluorobiphenyl	9.10	172	926027	70.41	ng	-0.01
78) Terphenyl-d14	12.84	244	684402	59.56	ng	0.00

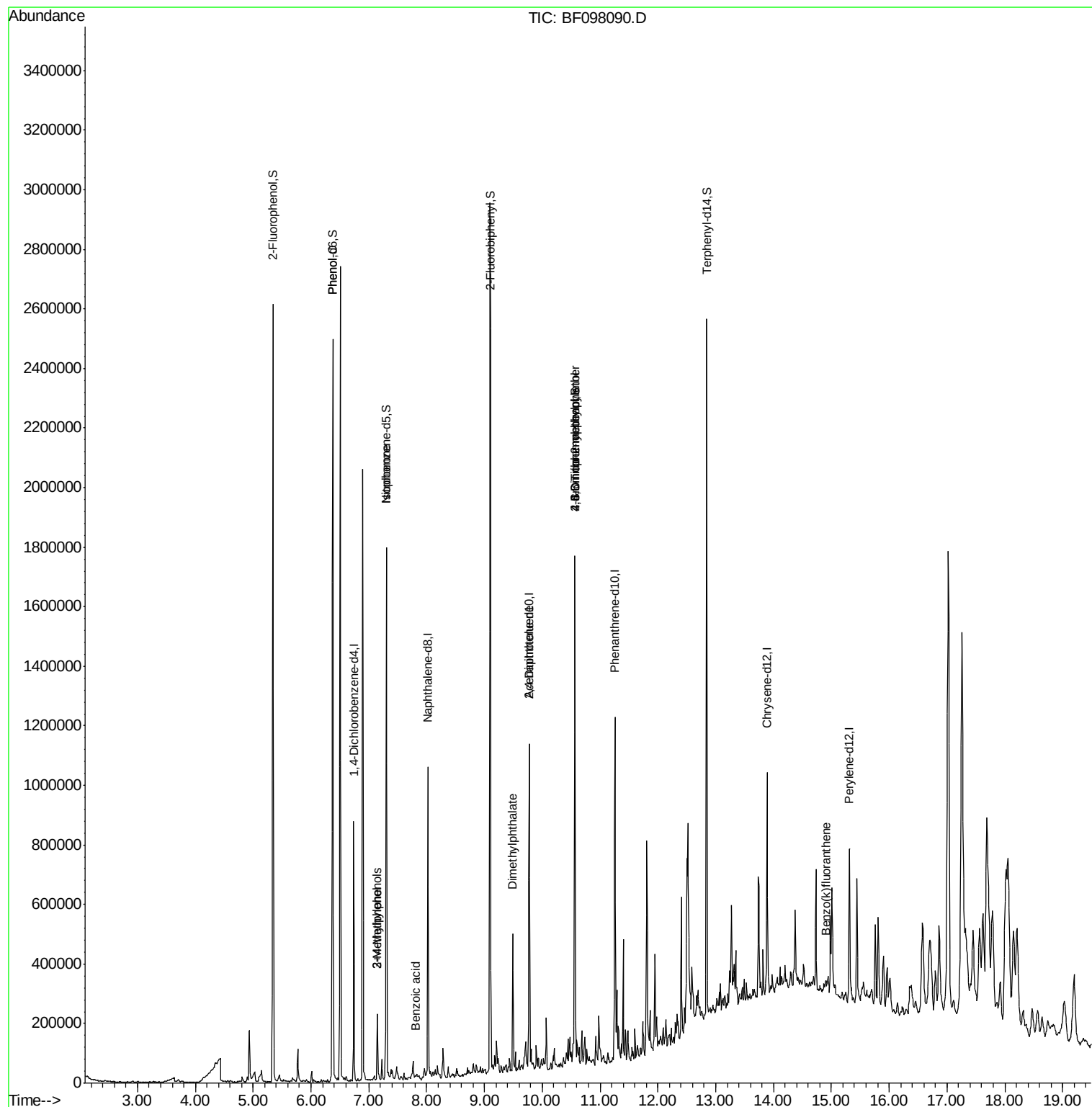
Target Compounds				Qvalue		
10) Phenol	6.39	94	37668	3.291	ng	97
17) 2-Methylphenol	7.15	107	58129	8.683	ng	# 74
20) 3+4-Methylphenols	7.15	107	58129	7.109	ng	# 64
25) Isophorone	7.30	82	628061	37.847	ng	# 67
32) Benzoic acid	7.80	122	1864	6.725	ng	# 57
49) Dimethylphthalate	9.49	163	161346	11.423	ng	100
56) 2,4-Dinitrotoluene	9.77	165	24224	6.847	ng	# 34
64) 4,6-Dinitro-2-methylphenol	10.56	198	561	8.599	ng	# 1
66) 4-Bromophenyl-phenylether	10.56	248	13089	3.567	ng	# 1
88) Benzo(k)fluoranthene	14.90	252	29195	2.087	ng	# 80

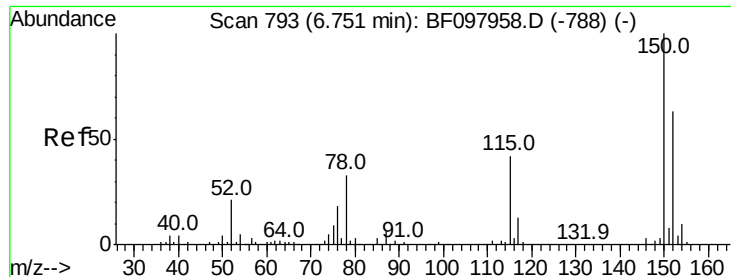
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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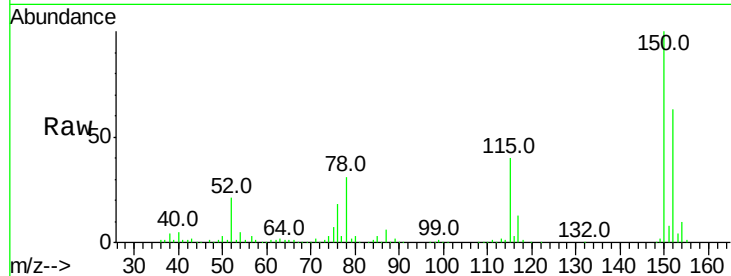


#1

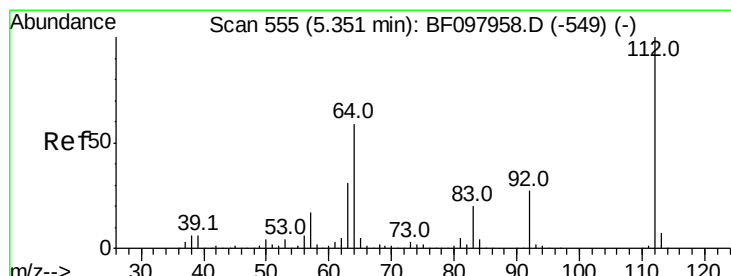
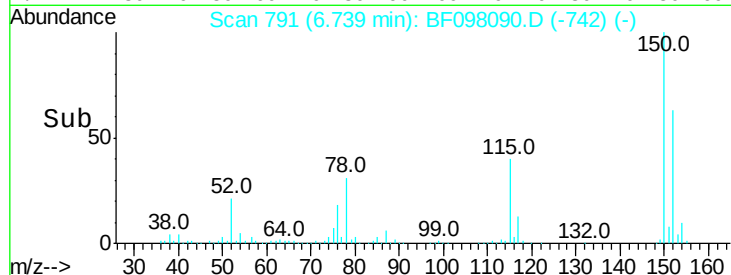
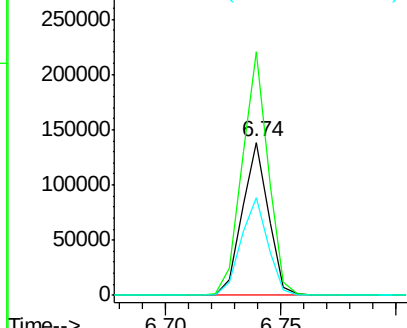
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.74 min Scan# 791
Delta R.T. -0.01 min
Lab File: BF098090.D
Acq: 29 Aug 2017 2:25

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OLDCASTLE-CO

Tot Ion:152 Resp: 109571
Ion Ratio Lower Upper
152 100
150 159.4 126.2 189.2
115 64.2 52.2 78.2



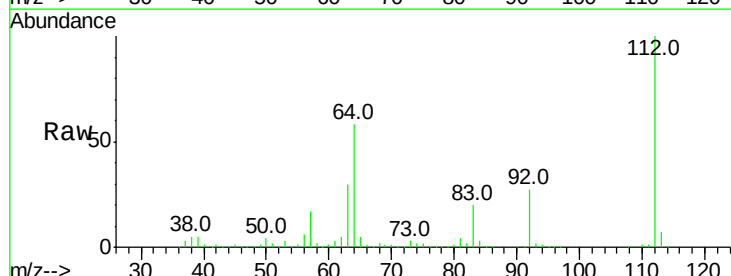
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



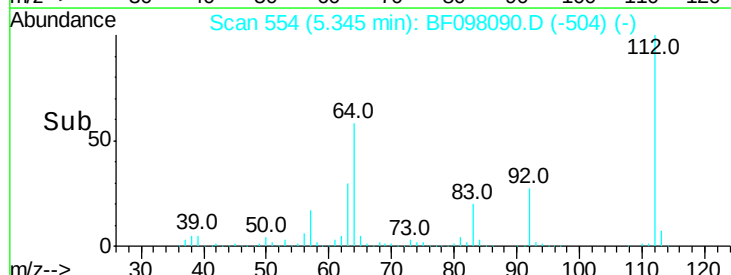
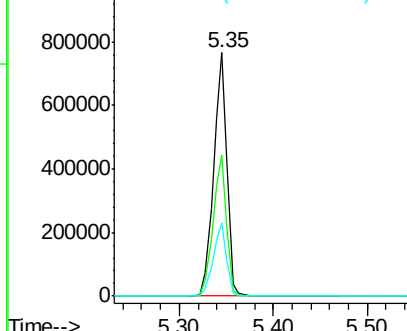
#5

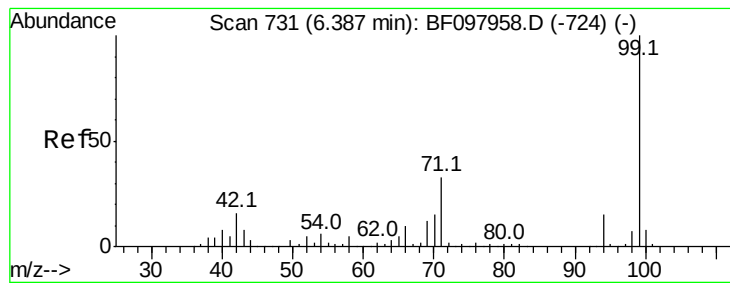
2-Fluorophenol
Concen: 106.515 ng
RT: 5.35 min Scan# 554
Delta R.T. -0.01 min
Lab File: BF098090.D
Acq: 29 Aug 2017 2:25

Tgt Ion:112 Resp: 767282
Ion Ratio Lower Upper
112 100
64 58.2 46.0 69.0
63 29.9 23.4 35.0



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: 108.516 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF098090.D

Acq: 29 Aug 2017 2:25

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OLDCASTLE-CO

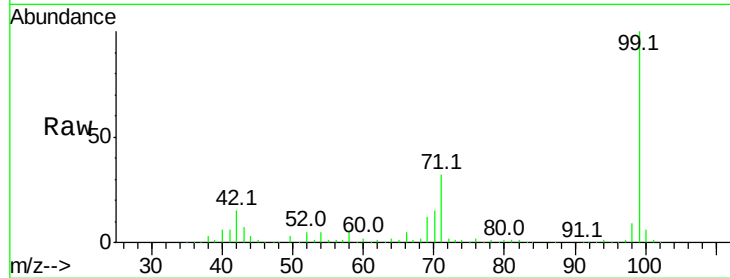
Tot Ion: 99 Resp: 1062102

Ion Ratio Lower Upper

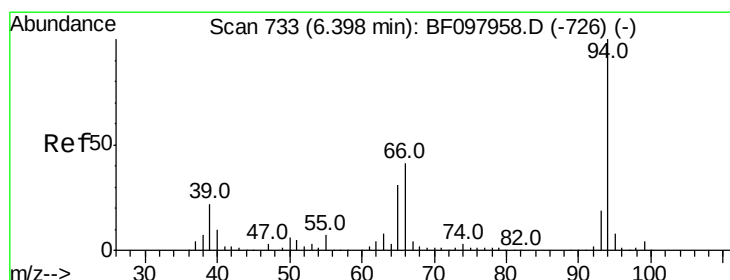
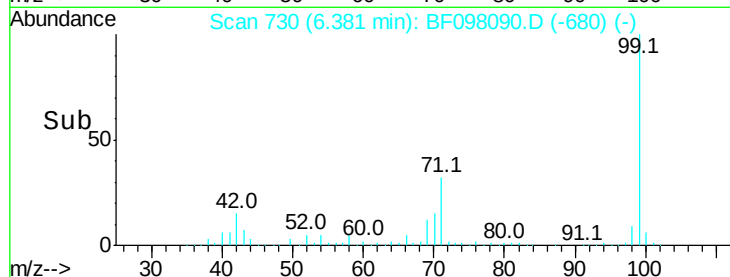
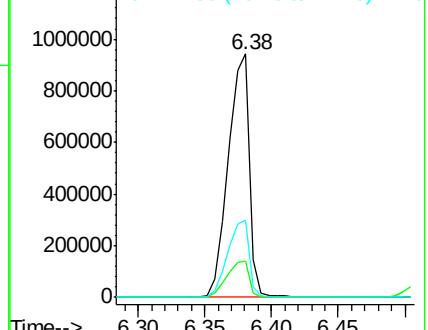
99 100

42 14.9 13.5 20.3

71 31.5 24.5 36.7



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



#10

Phenol

Concen: 3.291 ng

RT: 6.39 min Scan# 731

Delta R.T. -0.01 min

Lab File: BF098090.D

Acq: 29 Aug 2017 2:25

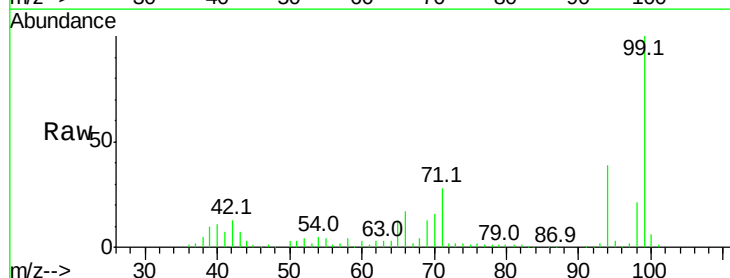
Tgt Ion: 94 Resp: 37668

Ion Ratio Lower Upper

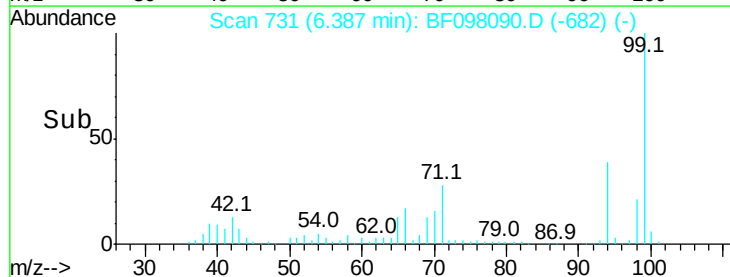
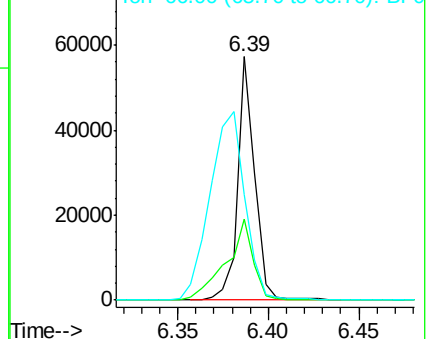
94 100

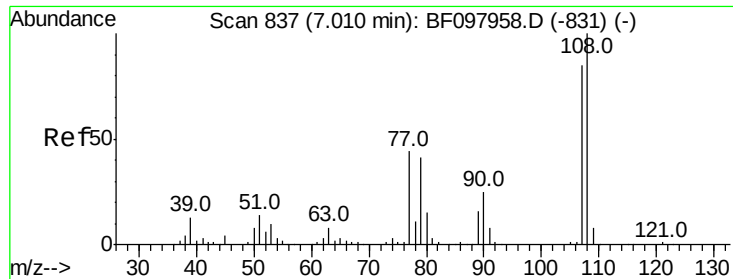
65 33.2 9.9 49.9

66 43.5 23.1 63.1



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0

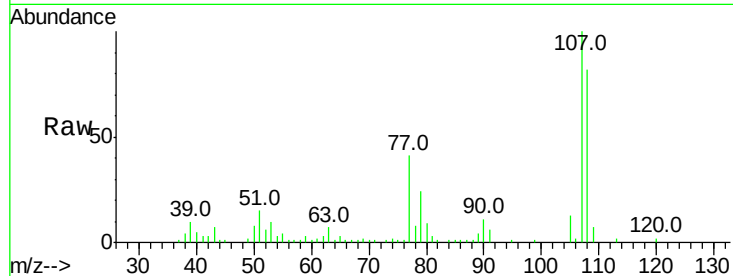




#17
2-Methylphenol
Concen: 8.683 ng
RT: 7.15 min Scan# 860
Delta R.T. 0.14 min
Lab File: BF098090.D
Acq: 29 Aug 2017 2:25

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OLDCASTLE-CO

Tot Ion	Ratio	Lower	Upper
107	100		
108	82.0	93.4	140.0#
77	41.3	35.8	53.6
79	23.6	34.8	52.2#



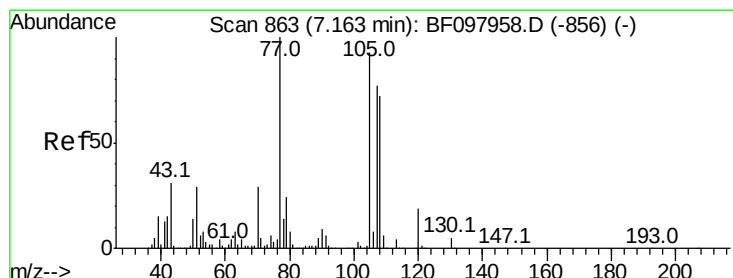
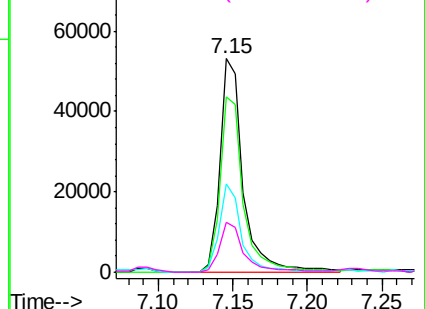
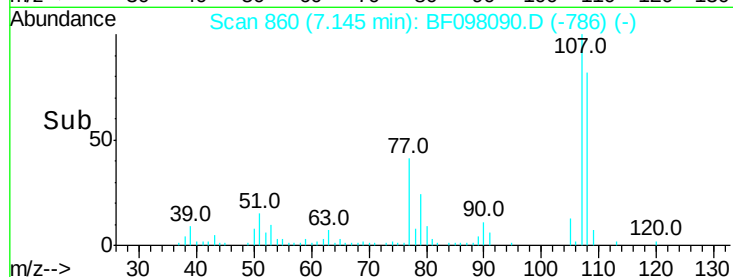
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

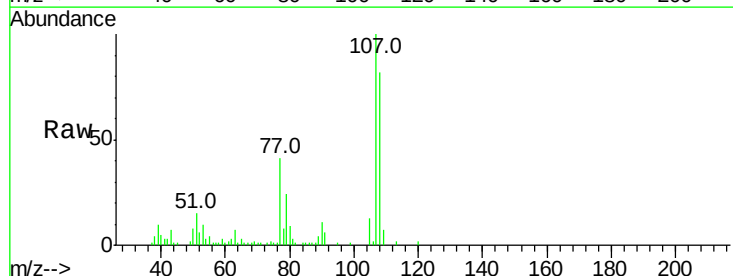
Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



#20
3+4-Methylphenols
Concen: 7.109 ng
RT: 7.15 min Scan# 860
Delta R.T. -0.02 min
Lab File: BF098090.D
Acq: 29 Aug 2017 2:25

Tgt Ion	Ratio	Lower	Upper
107	100		
108	82.0	71.0	111.0
77	41.3	90.5	130.5#
79	23.6	8.4	48.4



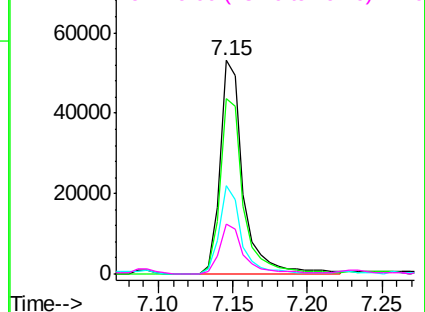
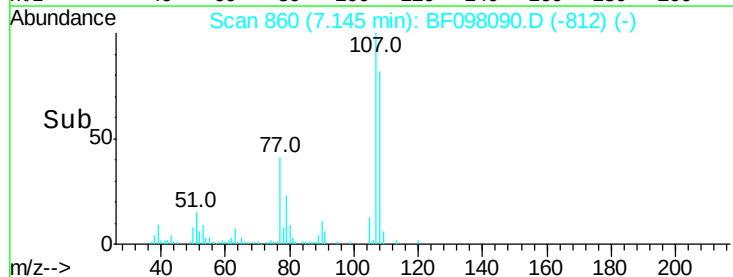
Abundance

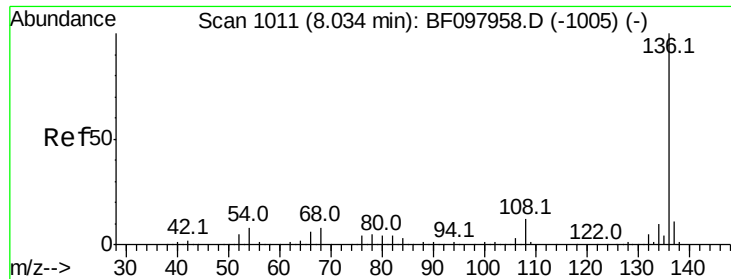
Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0

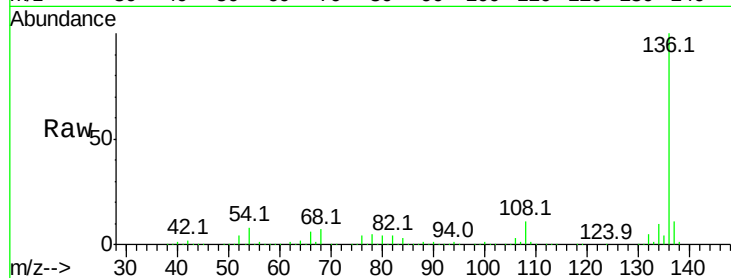




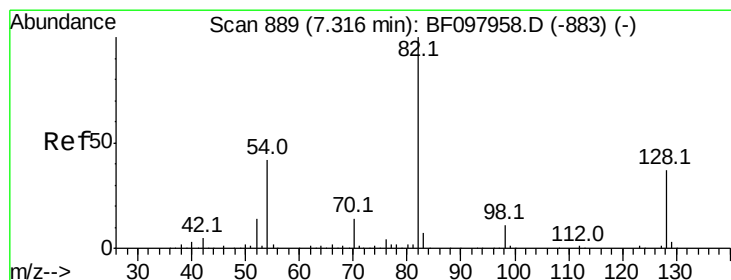
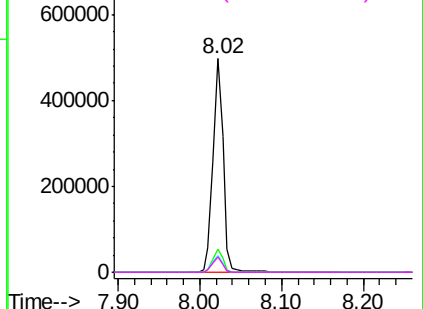
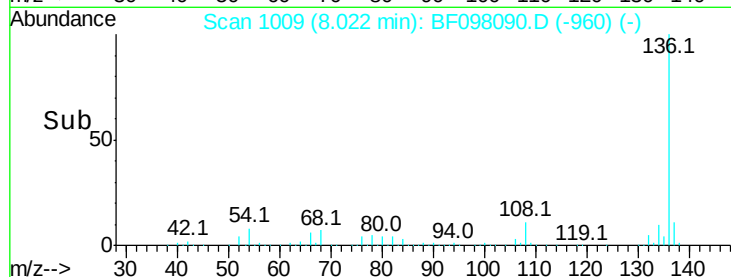
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.02 min Scan# 1009
Delta R.T. -0.01 min
Lab File: BF098090.D
Acq: 29 Aug 2017 2:25

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OLDCASTLE-CO

Tot Ion:136	Resp:	433546
Ion Ratio	Lower	Upper
136	100	
137	11.0	8.5 12.7
54	7.6	4.9 7.3#
68	7.3	4.1 6.1#

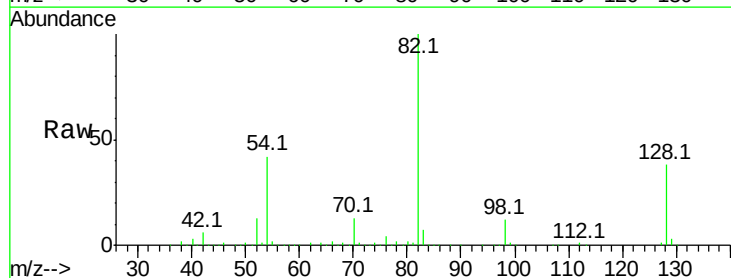


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

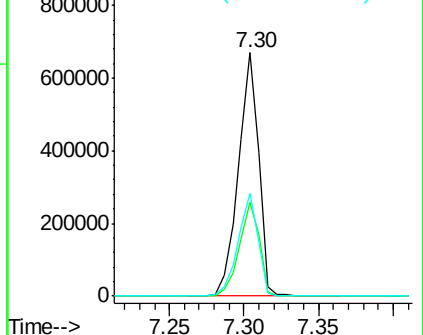
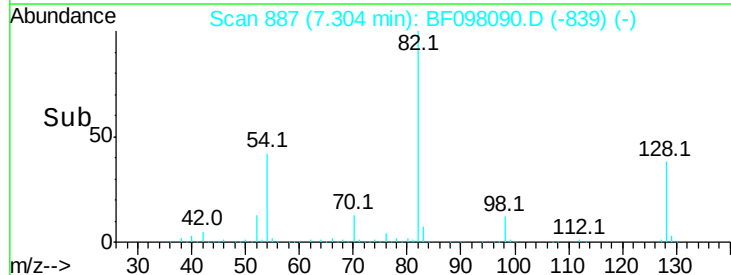


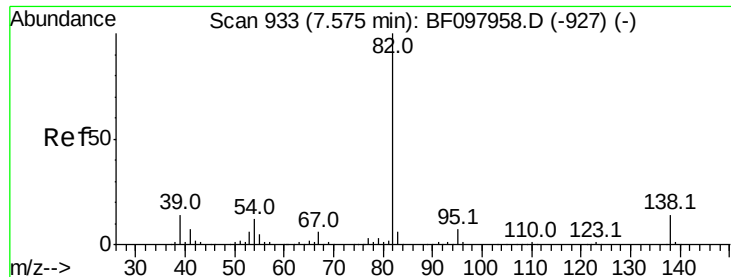
#23
Nitrobenzene-d5
Concen: 79.711 ng
RT: 7.30 min Scan# 887
Delta R.T. -0.02 min
Lab File: BF098090.D
Acq: 29 Aug 2017 2:25

Tgt Ion: 82	Resp:	636148
Ion Ratio	Lower	Upper
82	100	
128	38.4	34.0 51.0
54	42.3	42.2 63.2



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





#25

Isophorone

Concen: 37.847 ng

RT: 7.30 min Scan# 887

Delta R.T. -0.28 min

Lab File: BF098090.D

Acq: 29 Aug 2017 2:25

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OLDCASTLE-CO

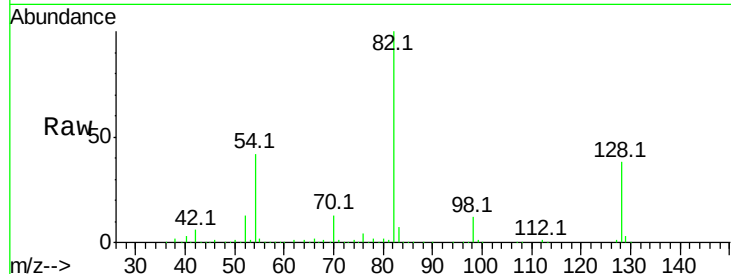
Tot Ion: 82 Resp: 628061

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

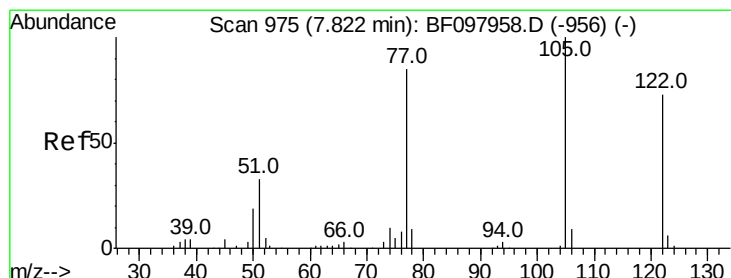
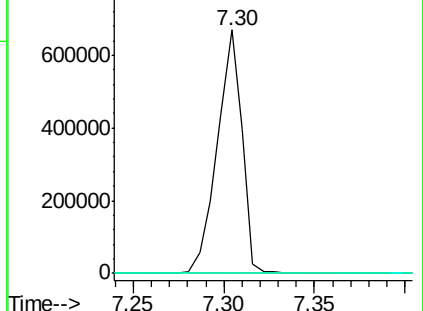
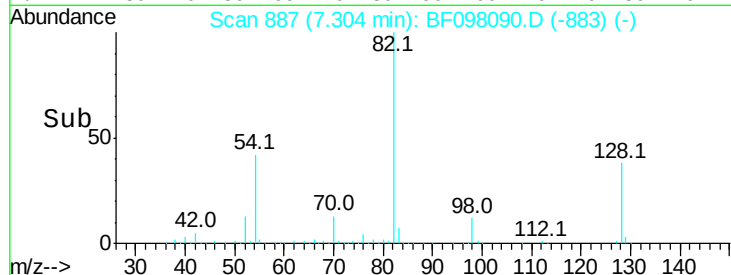
138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#32

Benzoic acid

Concen: 6.725 ng

RT: 7.80 min Scan# 972

Delta R.T. -0.03 min

Lab File: BF098090.D

Acq: 29 Aug 2017 2:25

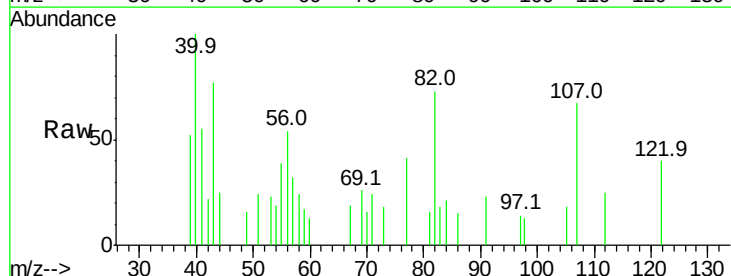
Tgt Ion:122 Resp: 1864

Ion Ratio Lower Upper

122 100

105 46.7 103.3 143.3#

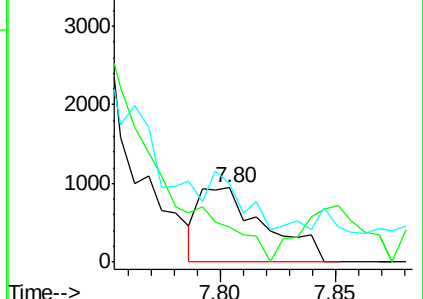
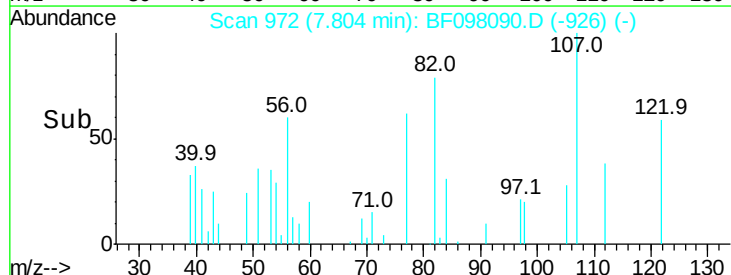
77 104.5 73.7 113.7

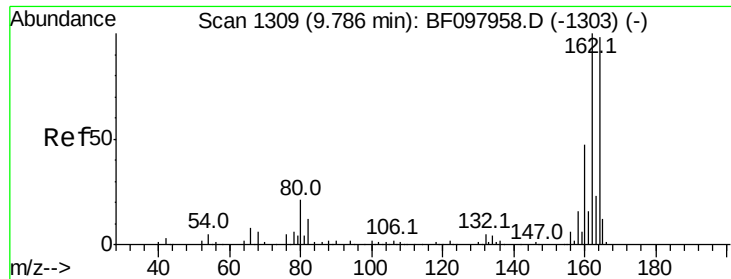


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF098090.D

Acq: 29 Aug 2017 2:25

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OLDCASTLE-CO

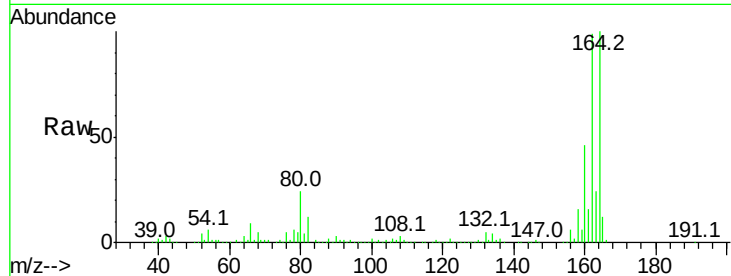
Tot Ion:164 Resp: 193224

Ion Ratio Lower Upper

164 100

162 98.7 82.6 123.8

160 45.7 36.2 54.2



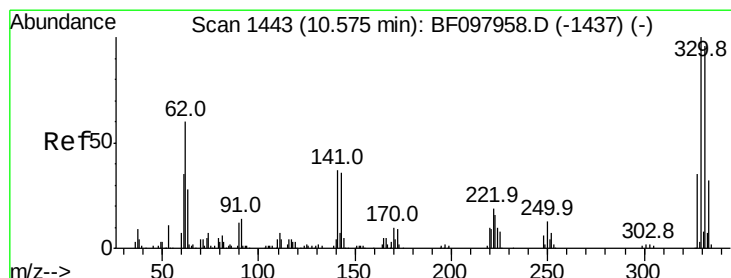
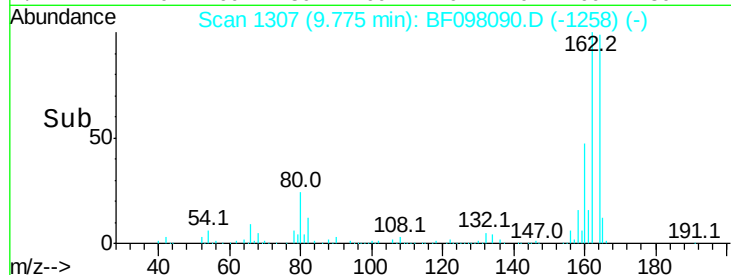
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

9.77

Time-->



#41

2,4,6-Tribromophenol

Concen: 114.091 ng

RT: 10.56 min Scan# 1441

Delta R.T. -0.01 min

Lab File: BF098090.D

Acq: 29 Aug 2017 2:25

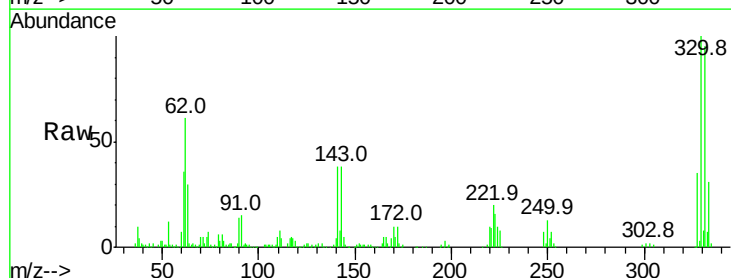
Tgt Ion:330 Resp: 191277

Ion Ratio Lower Upper

330 100

332 95.8 76.6 115.0

141 38.6 31.4 47.2



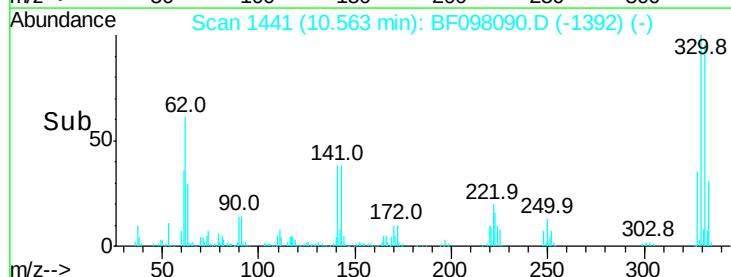
Abundance Ion 329.80 (329.50 to 330.50): E

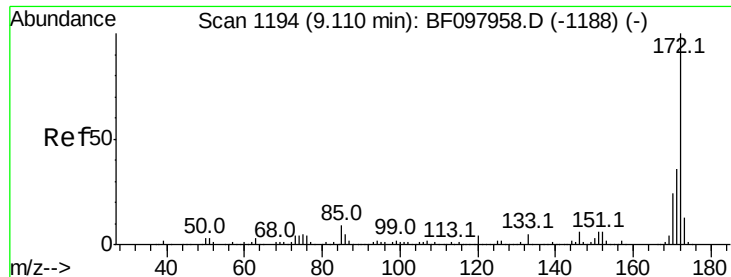
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

10.56

Time-->

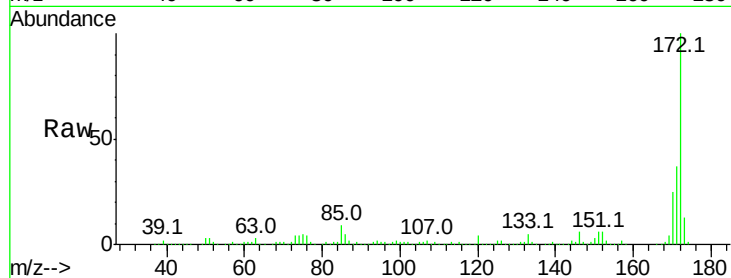




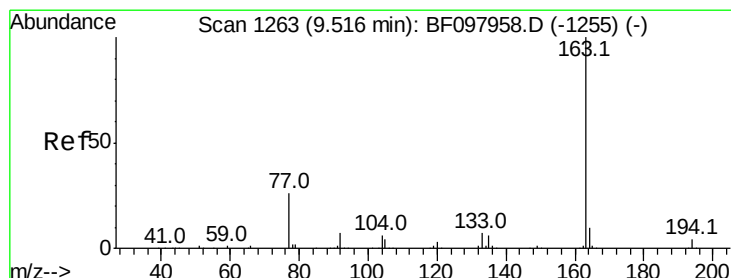
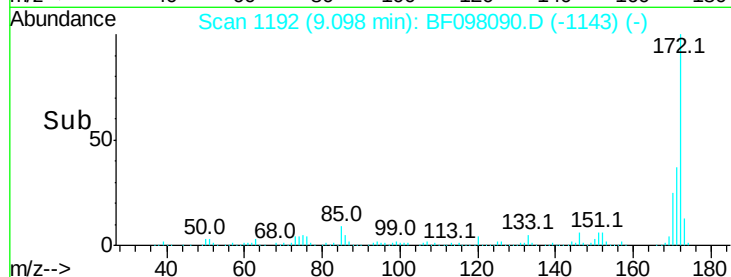
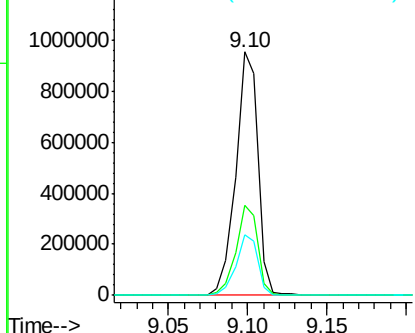
#44
2-Fluorobiphenyl
Concen: 70.412 ng
RT: 9.10 min Scan# 1192
Delta R.T. -0.01 min
Lab File: BF098090.D
Acq: 29 Aug 2017 2:25

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OLDCASTLE-CO

Tot Ion:172 Resp: 926027
Ion Ratio Lower Upper
172 100
171 36.8 29.6 44.4
170 24.7 19.8 29.8

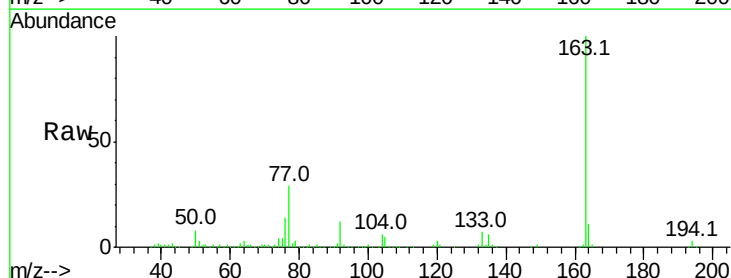


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

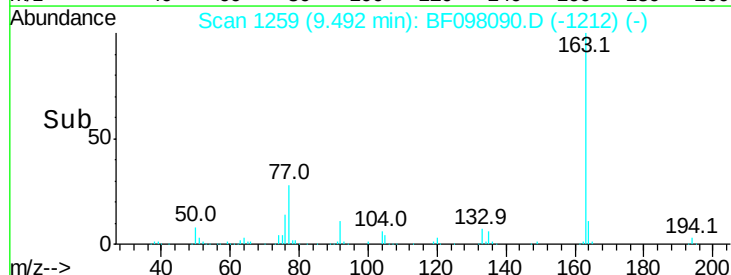
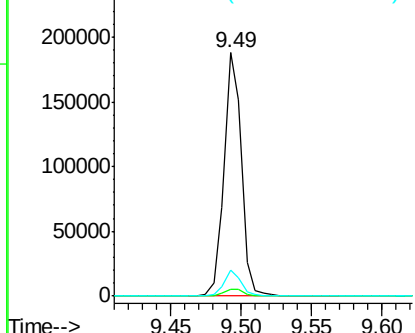


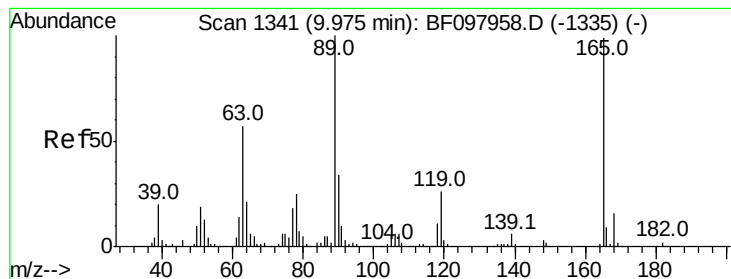
#49
Dimethylphthalate
Concen: 11.423 ng
RT: 9.49 min Scan# 1259
Delta R.T. -0.02 min
Lab File: BF098090.D
Acq: 29 Aug 2017 2:25

Tgt Ion:163 Resp: 161346
Ion Ratio Lower Upper
163 100
194 3.1 2.6 4.0
164 10.6 8.4 12.6



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





#56

2,4-Dinitrotoluene

Concen: 6.847 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.20 min

Lab File: BF098090.D

Acq: 29 Aug 2017 2:25

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OLDCASTLE-CO

Tot Ion:165 Resp: 24224

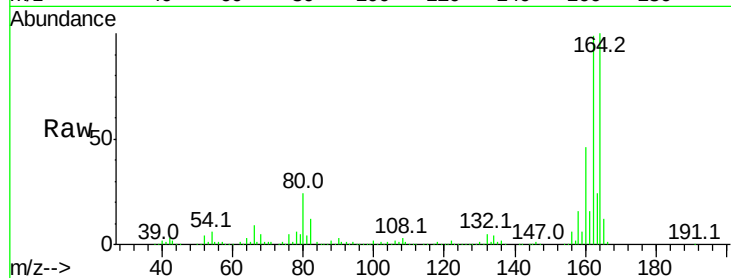
Ion Ratio Lower Upper

165 100

63 2.0 25.4 38.0#

89 2.5 46.4 69.6#

182 0.0 1.8 2.6#

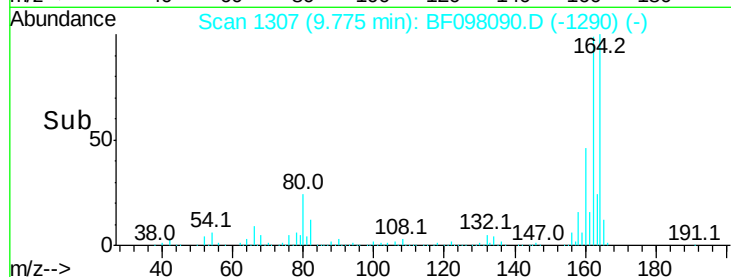


Abundance Ion 165.00 (164.70 to 165.70): E

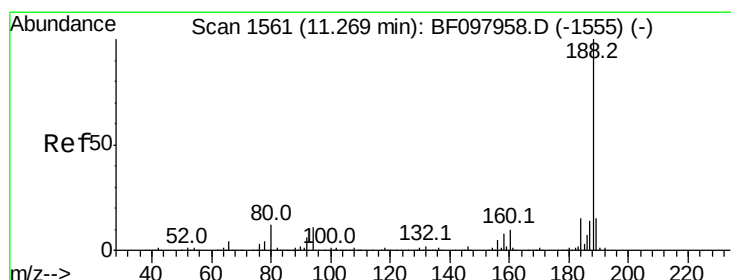
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



Time-->



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.26 min Scan# 1559

Delta R.T. -0.01 min

Lab File: BF098090.D

Acq: 29 Aug 2017 2:25

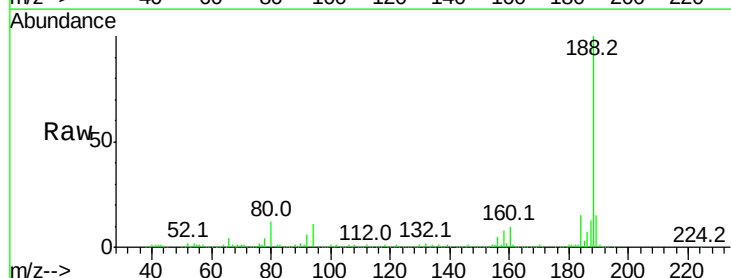
Tgt Ion:188 Resp: 353356

Ion Ratio Lower Upper

188 100

94 11.0 9.4 14.2

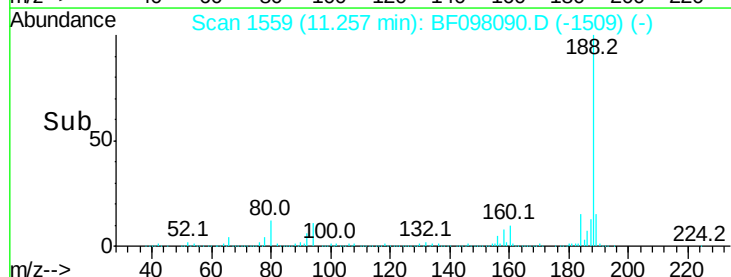
80 12.1 10.2 15.2



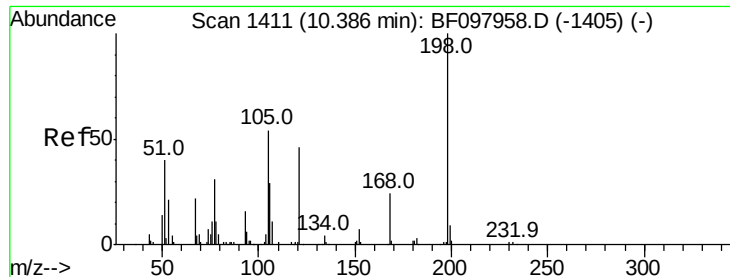
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



Time-->



#64

4,6-Dinitro-2-methylphenol

Concen: 8.599 ng

RT: 10.56 min Scan# 1441

Delta R.T. 0.18 min

Lab File: BF098090.D

Acq: 29 Aug 2017 2:25

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OLDCASTLE-CO

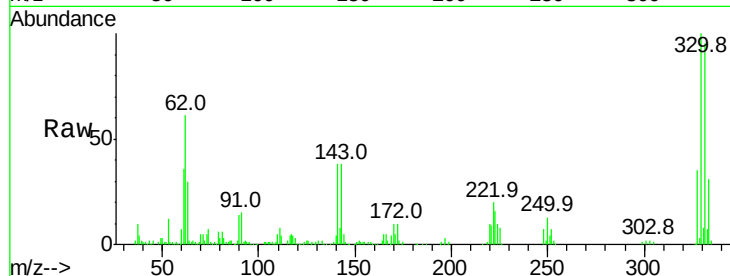
Tot Ion:198 Resp: 561

Ion Ratio Lower Upper

198 100

51 158.0 53.2 93.2#

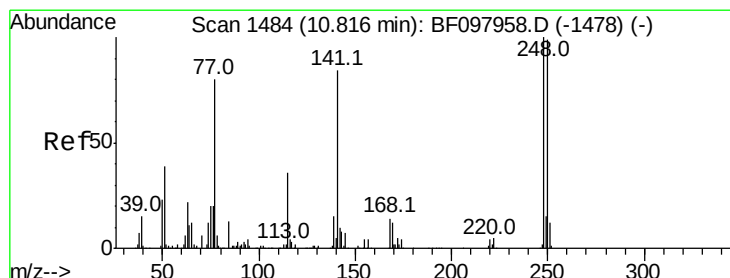
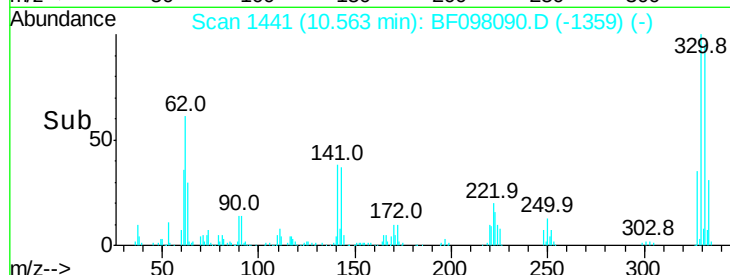
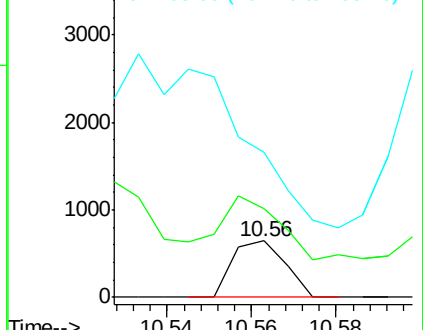
105 256.6 45.8 85.8#



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



#66

4-Bromophenyl-phenylether

Concen: 3.567 ng

RT: 10.56 min Scan# 1441

Delta R.T. -0.25 min

Lab File: BF098090.D

Acq: 29 Aug 2017 2:25

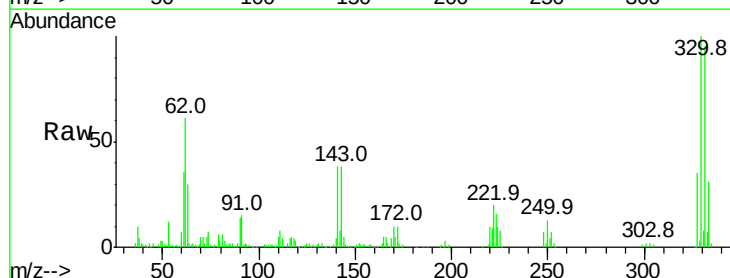
Tgt Ion:248 Resp: 13089

Ion Ratio Lower Upper

248 100

250 182.7 76.8 115.2#

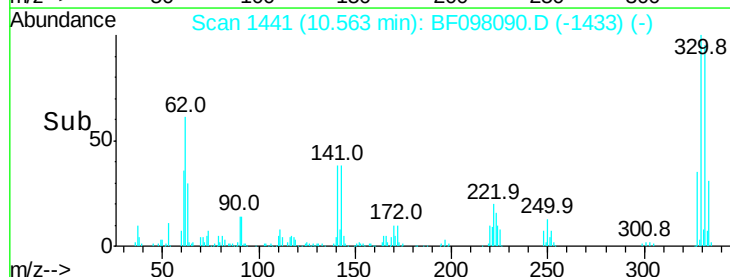
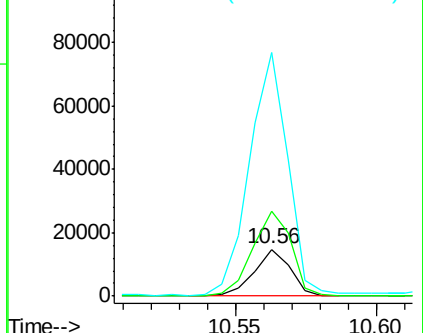
141 520.2 68.6 103.0#

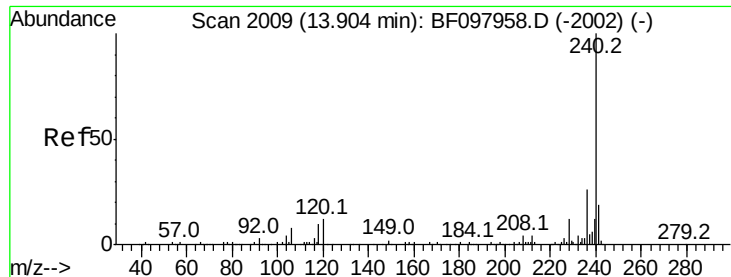


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF098090.D

Acq: 29 Aug 2017 2:25

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OLDCASTLE-CO

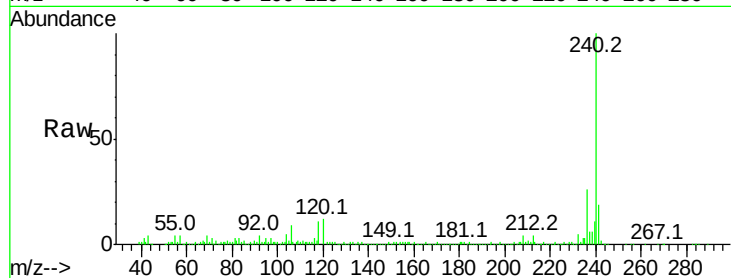
Tot Ion:240 Resp: 239635

Ion Ratio Lower Upper

240 100

120 12.0 5.8 8.8#

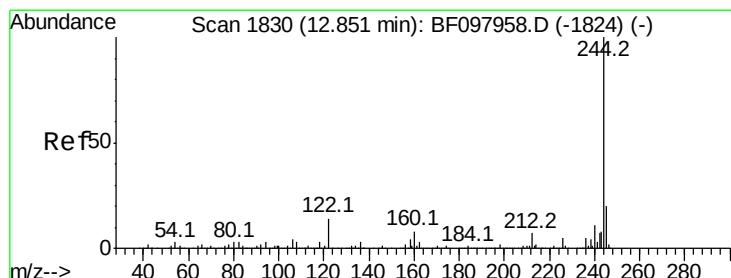
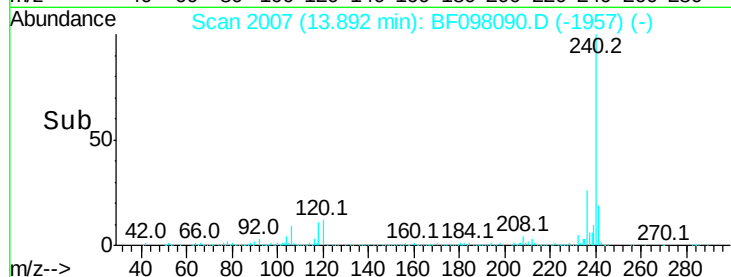
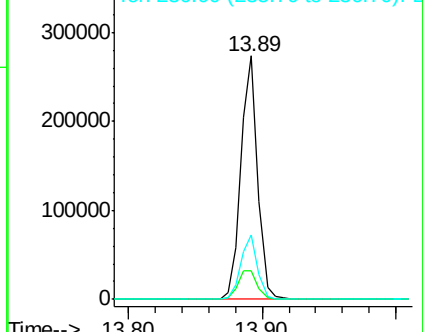
236 26.3 20.5 30.7



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



#78

Terphenyl-d14

Concen: 59.558 ng

RT: 12.84 min Scan# 1829

Delta R.T. -0.01 min

Lab File: BF098090.D

Acq: 29 Aug 2017 2:25

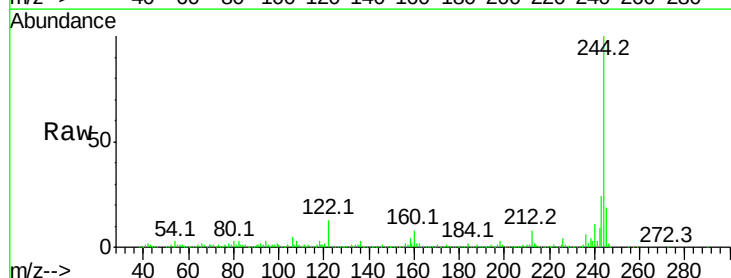
Tgt Ion:244 Resp: 684402

Ion Ratio Lower Upper

244 100

212 7.6 6.0 9.0

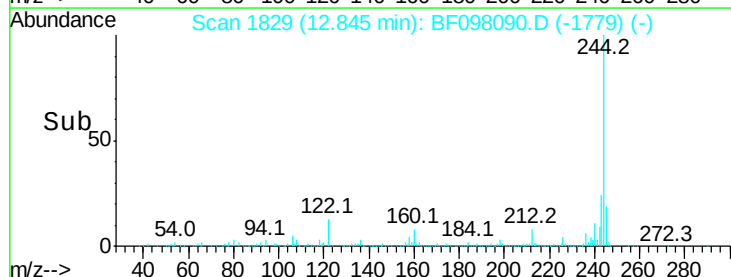
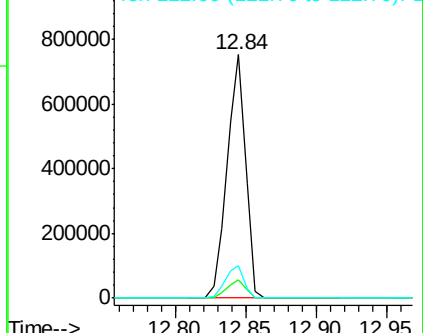
122 13.2 10.3 15.5

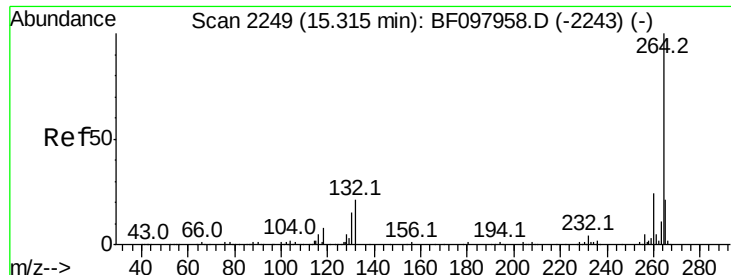


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



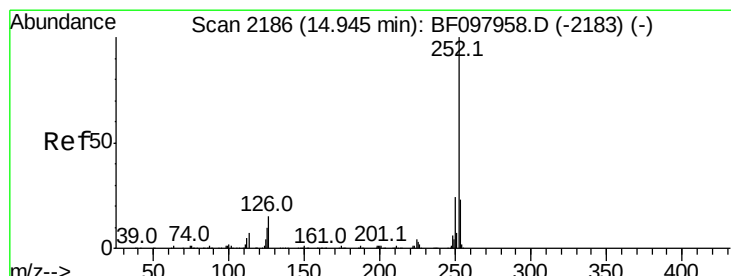
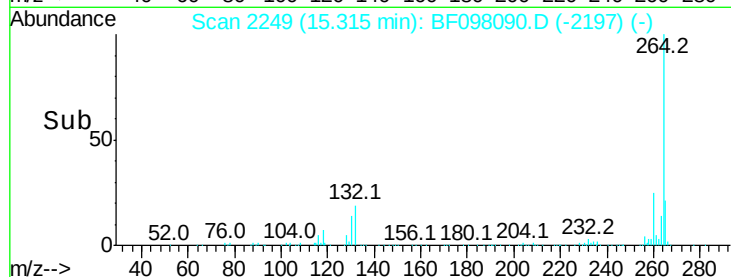
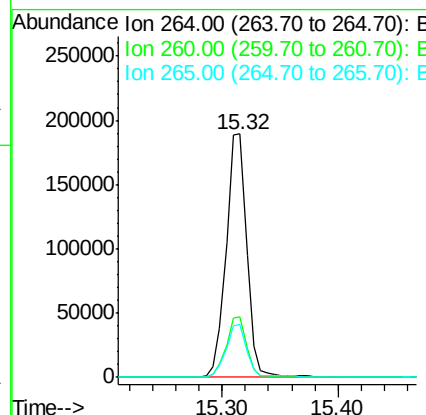
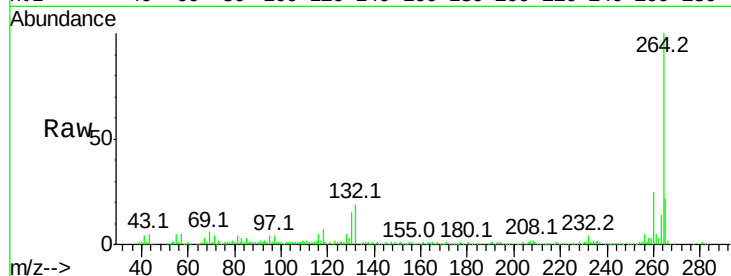


#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.32 min Scan# 2249
Delta R.T. 0.01 min
Lab File: BF098090.D
Acq: 29 Aug 2017 2:25

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OLDCASTLE-CO

Tot Ion:264 Resp: 236201

Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.5	29.3
265	21.5	17.2	25.8



#88
Benzo(k)fluoranthene
Concen: 2.087 ng
RT: 14.90 min Scan# 2179
Delta R.T. -0.04 min
Lab File: BF098090.D
Acq: 29 Aug 2017 2:25

Tgt Ion:252 Resp: 29195

Ion	Ratio	Lower	Upper
252	100		
253	24.6	18.4	27.6
125	34.7	13.1	19.7#

