

Data Path : S:\HPCHEM1\BNA_F\DATA\BF021815\
 Data File : BF077363.D
 Acq On : 18 Feb 2015 20:30
 Operator : TP/IZ
 Sample : G1303-01MSD
 Misc : TCLP
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMSD

Quant Time: Feb 19 03:29:51 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 09:51:00 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.36	152	51951	20.00	ng	-0.02
21) Naphthalene-d8	8.93	136	209750	20.00	ng	-0.02
38) Acenaphthene-d10	11.12	164	99635	20.00	ng	-0.02
63) Phenanthrene-d10	12.96	188	199647	20.00	ng	-0.02
75) Chrysene-d12	16.26	240	198360	20.00	ng	-0.01
86) Perylene-d12	18.00	264	216149	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.65	112	385055	126.66	ng	-0.01
7) Phenol-d6	6.90	99	451805	113.77	ng	-0.02
23) Nitrobenzene-d5	8.04	82	284054	93.78	ng	-0.02
41) 2,4,6-Tribromophenol	12.10	330	149370	160.64	ng	-0.01
44) 2-Fluorobiphenyl	10.28	172	669391	101.28	ng	-0.02
78) Terphenyl-d14	14.96	244	717324	82.22	ng	-0.02

Target Compounds					Qvalue
2) 1,4-Dioxane	2.37	88	46503	34.90 ng	96
3) Pyridine	3.13	79	93356	26.54 ng	94
4) n-Nitrosodimethylamine	3.02	42	56649	33.66 ng	93
6) Aniline	6.94	93	42486	7.58 ng	99
8) 2-Chlorophenol	7.08	128	149065	41.84 ng	93
9) Benzaldehyde	6.81	77	5907	2.47 ng	94
10) Phenol	6.92	94	162819	35.29 ng	92
11) bis(2-Chloroethyl)ether	7.05	93	134107	38.76 ng	85
12) 1,3-Dichlorobenzene	7.28	146	157417	39.16 ng	97
13) 1,4-Dichlorobenzene	7.38	146	166778	40.25 ng	99
14) 1,2-Dichlorobenzene	7.56	146	160046	40.05 ng	98
15) Benzyl Alcohol	7.53	79	122470	40.70 ng	97
16) 2,2'-oxybis(1-Chloropropan	7.71	45	196067	37.65 ng	99
17) 2-Methylphenol	7.68	107	118013	41.55 ng	92
18) Hexachloroethane	7.98	117	52900	39.17 ng	99
19) n-Nitroso-di-n-propylamine	7.87	70	106596	38.63 ng	98
20) 3+4-Methylphenols	7.86	107	152213	41.17 ng	94
22) Acetophenone	7.86	105	204906	41.52 ng	99
24) Nitrobenzene	8.06	77	145090	44.45 ng	97
25) Isophorone	8.37	82	278396	40.78 ng	# 85
26) 2-Nitrophenol	8.46	139	60568	60.47 ng	98
27) 2,4-Dimethylphenol	8.52	122	138501	44.54 ng	96
28) bis(2-Chloroethoxy)methane	8.65	93	182605	41.57 ng	99
29) 2,4-Dichlorophenol	8.76	162	123663	46.27 ng	90
30) 1,2,4-Trichlorobenzene	8.86	180	136298	40.16 ng	97
31) Naphthalene	8.96	128	450918	42.96 ng	99
32) Benzoic acid	8.61	122	54359	65.56 ng	96
33) 4-Chloroaniline	9.02	127	18026	4.02 ng	95
34) Hexachlorobutadiene	9.12	225	71921	38.77 ng	99
35) Caprolactam	9.45	113	32140	39.08 ng	90
36) 4-Chloro-3-methylphenol	9.63	107	134736	45.82 ng	# 86
37) 2-Methylnaphthalene	9.82	142	320974	42.52 ng	99
39) 1,2,4,5-Tetrachlorobenzene	10.03	216	128584	44.69 ng	98
40) Hexachlorocyclopentadiene	10.02	237	97472	68.15 ng	97

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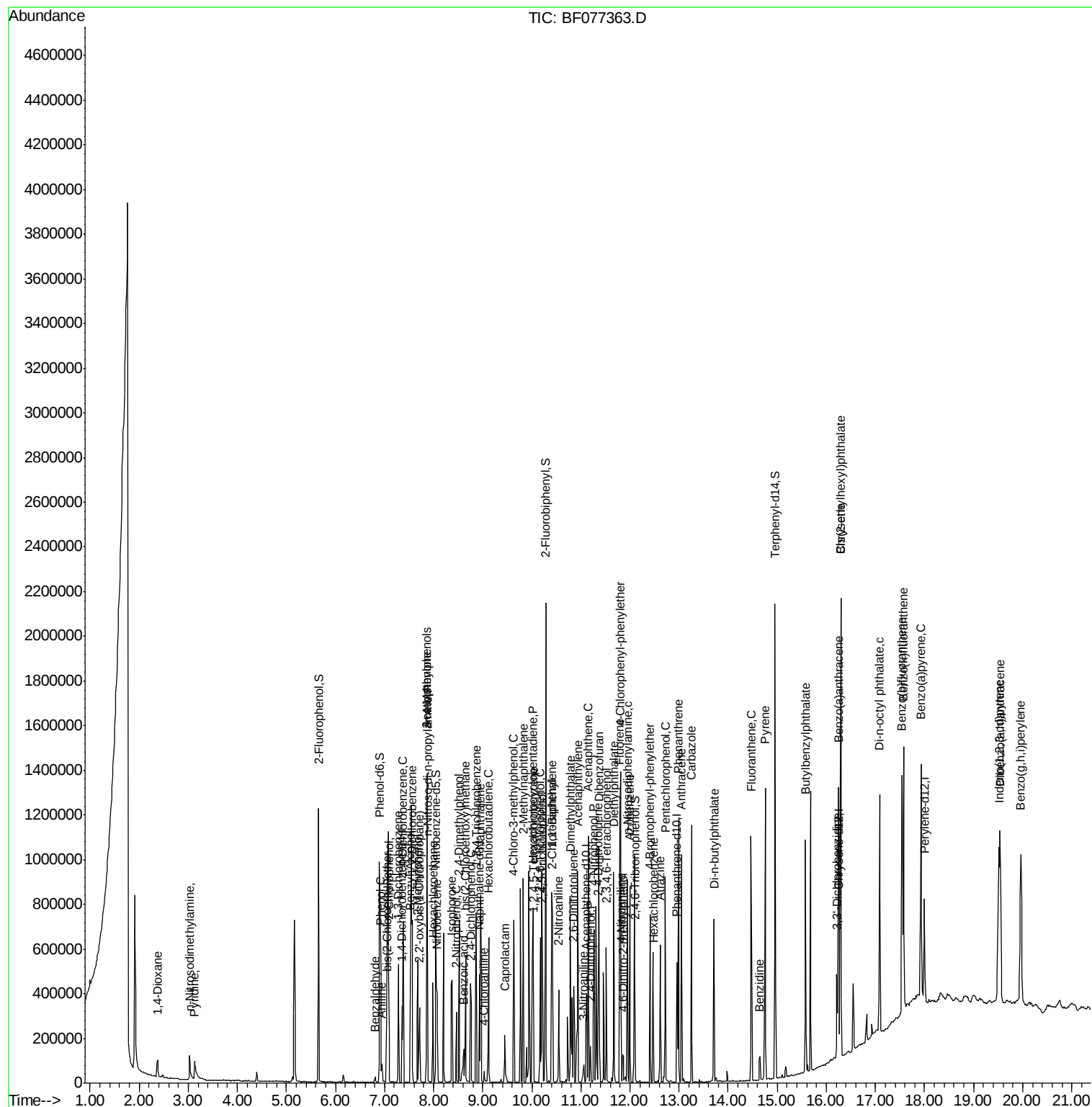
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	10.17	196	85285	52.91	ng	99
43) 2,4,5-Trichlorophenol	10.21	196	94138	54.62	ng	# 90
45) 1,1'-Biphenyl	10.41	154	374946	47.20	ng	95
46) 2-Chloronaphthalene	10.42	162	287301	48.68	ng	99
47) 2-Nitroaniline	10.54	65	75024	59.40	ng	97
48) Acenaphthylene	10.93	152	476360	48.96	ng	100
49) Dimethylphthalate	10.78	163	332740	48.53	ng	100
50) 2,6-Dinitrotoluene	10.85	165	67953	53.45	ng	98
51) Acenaphthene	11.15	154	276110	47.81	ng	100
52) 3-Nitroaniline	11.06	138	14808	9.93	ng	87
53) 2,4-Dinitrophenol	11.20	184	29490	148.87	ng	# 64
54) Dibenzofuran	11.37	168	413134	47.16	ng	99
55) 4-Nitrophenol	11.26	139	125005	121.30	ng	93
56) 2,4-Dinitrotoluene	11.36	165	100207	62.17	ng	98
57) Fluorene	11.79	166	331533	48.23	ng	98
58) 2,3,4,6-Tetrachlorophenol	11.52	232	71697	50.95	ng	93
59) Diethylphthalate	11.66	149	346258	48.51	ng	98
60) 4-Chlorophenyl-phenylether	11.80	204	153677	45.96	ng	97
61) 4-Nitroaniline	11.81	138	64478	44.25	ng	93
62) Azobenzene	12.00	77	317065	44.84	ng	97
64) 4,6-Dinitro-2-methylphenol	11.86	198	22602	60.39	ng	# 50
65) n-Nitrosodiphenylamine	11.95	169	292719	44.95	ng	100
66) 4-Bromophenyl-phenylether	12.41	248	93324	41.93	ng	96
67) Hexachlorobenzene	12.48	284	109193	43.24	ng	# 77
68) Atrazine	12.61	200	88752	45.60	ng	97
69) Pentachlorophenol	12.72	266	109403	121.70	ng	97
70) Phenanthrene	12.99	178	517724	44.63	ng	100
71) Anthracene	13.05	178	497981	43.17	ng	99
72) Carbazole	13.25	167	479999	47.33	ng	100
73) Di-n-butylphthalate	13.71	149	584385	46.80	ng	# 97
74) Fluoranthene	14.47	202	542898	46.35	ng	98
76) Benzidine	14.65	184	57246	9.39	ng	98
77) Pyrene	14.75	202	556066	45.35	ng	100
79) Butylbenzylphthalate	15.57	149	261686	53.38	ng	98
80) Benzo(a)anthracene	16.25	228	533121	46.15	ng	99
81) 3,3'-Dichlorobenzidine	16.21	252	90043	23.60	ng	# 97
82) Chrysene	16.29	228	470477	43.07	ng	99
83) Bis(2-ethylhexyl)phthalate	16.29	149	381700	46.72	ng	100
84) Di-n-octyl phthalate	17.08	149	674024	50.89	ng	97
85) Indeno(1,2,3-cd)pyrene	19.52	276	660172	52.92	ng	98
87) Benzo(b)fluoranthene	17.54	252	595120	42.83	ng	# 95
88) Benzo(k)fluoranthene	17.57	252	453895	39.55	ng	99
89) Benzo(a)pyrene	17.93	252	527572	43.62	ng	# 95
90) Dibenzo(a,h)anthracene	19.54	278	551303	44.79	ng	97
91) Benzo(g,h,i)perylene	19.96	276	564206	46.11	ng	98

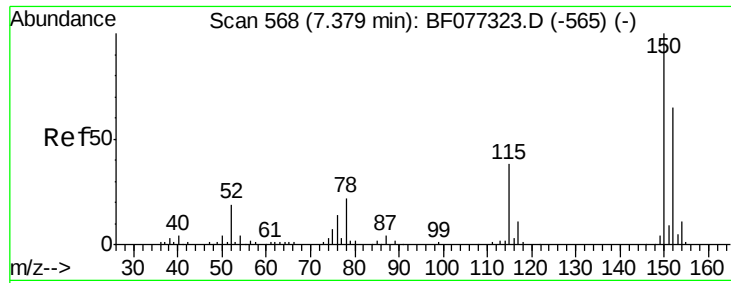
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.36 min Scan# 566

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

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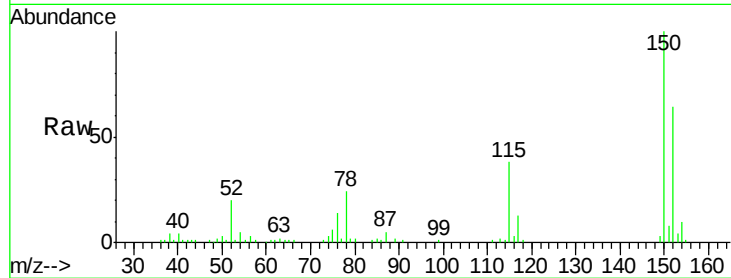
Tgt Ion:152 Resp: 51951

Ion Ratio Lower Upper

152 100

150 156.6 123.1 184.7

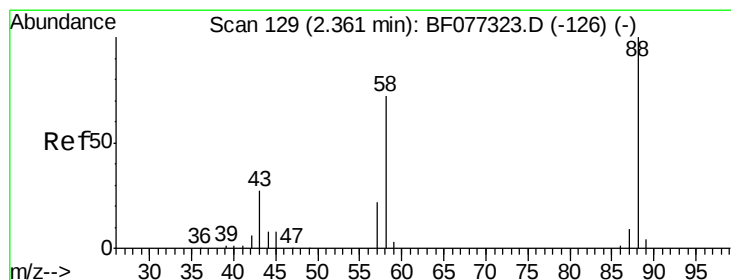
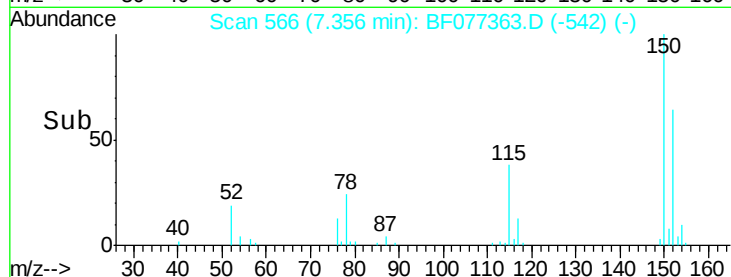
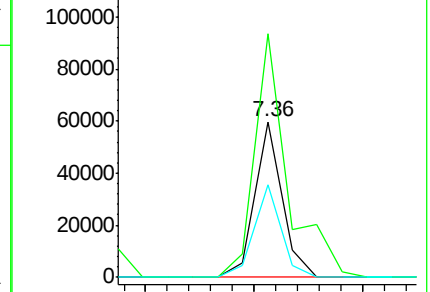
115 59.6 46.2 69.4



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: 34.90 ng

RT: 2.37 min Scan# 130

Delta R.T. 0.01 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

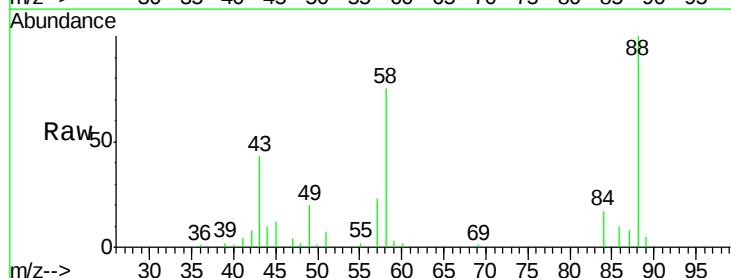
Tgt Ion: 88 Resp: 46503

Ion Ratio Lower Upper

88 100

58 76.2 57.8 86.6

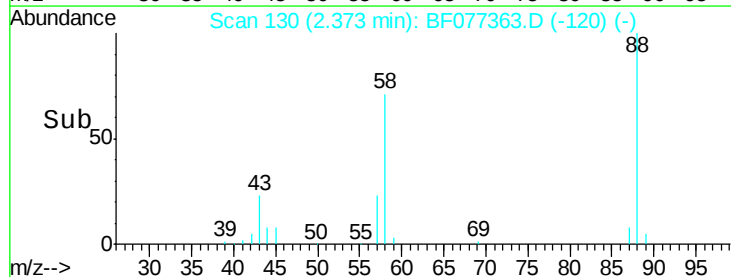
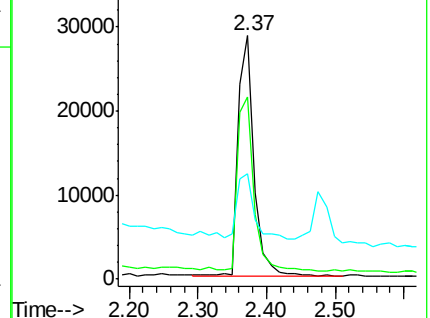
43 29.9 23.2 34.8

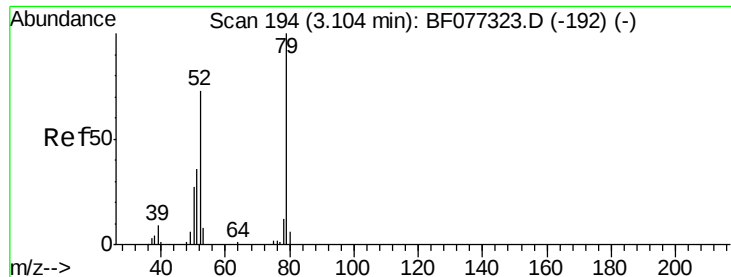


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#3

Pyridine

Concen: 26.54 ng

RT: 3.13 min Scan# 196

Delta R.T. 0.02 min

Lab File: BF077363.D

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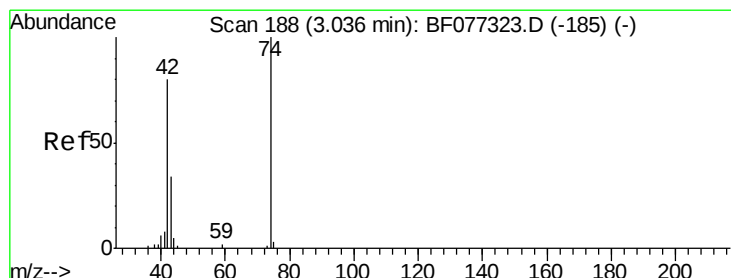
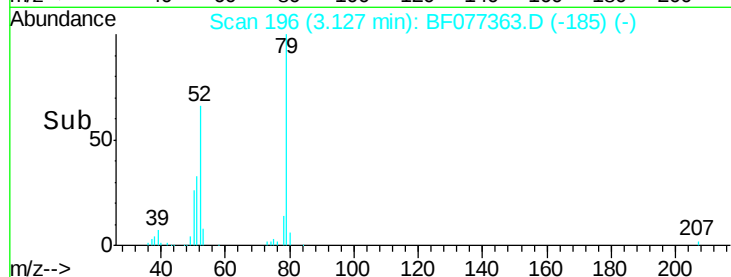
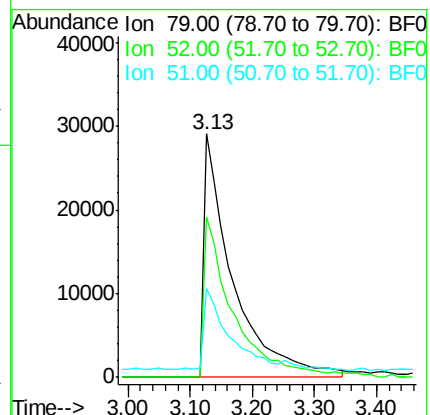
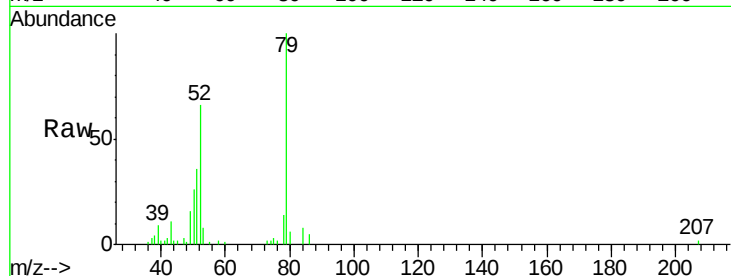
Tgt Ion: 79 Resp: 93356

Ion Ratio Lower Upper

79 100

52 66.1 58.4 87.6

51 36.3 29.0 43.4



#4

n-Nitrosodimethylamine

Concen: 33.66 ng

RT: 3.02 min Scan# 187

Delta R.T. -0.01 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

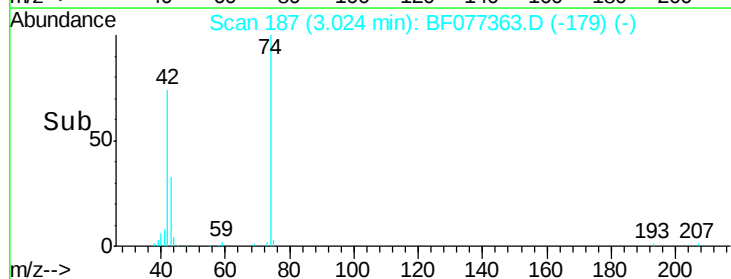
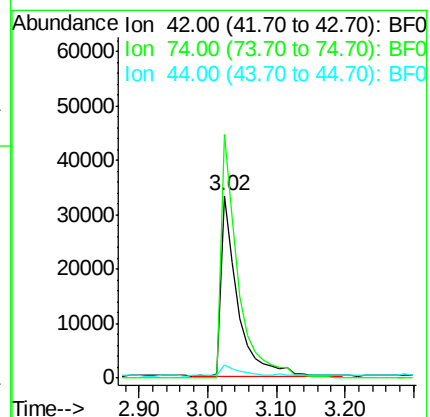
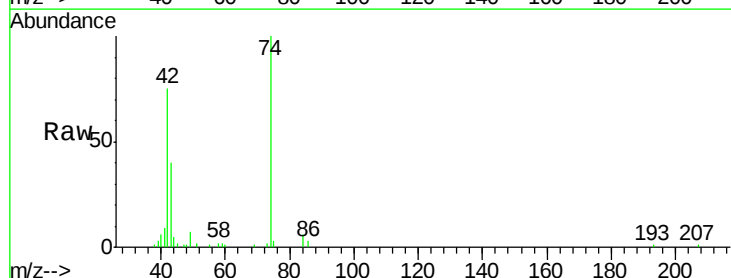
Tgt Ion: 42 Resp: 56649

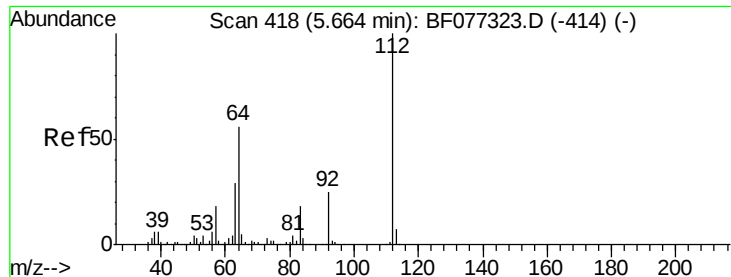
Ion Ratio Lower Upper

42 100

74 133.4 100.0 150.0

44 7.3 6.1 9.1





#5

2-Fluorophenol

Concen: 126.66 ng

RT: 5.65 min Scan# 417

Delta R.T. -0.01 min

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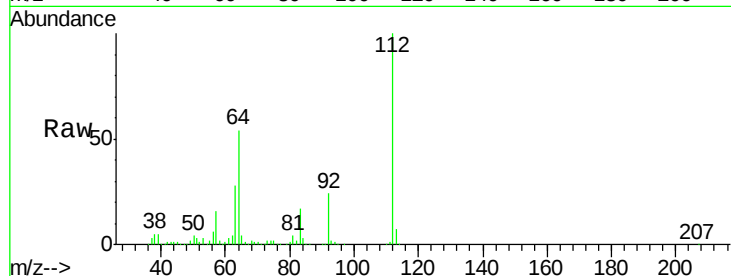
Tgt Ion: 112 Resp: 385055

Ion Ratio Lower Upper

112 100

64 53.9 44.7 67.1

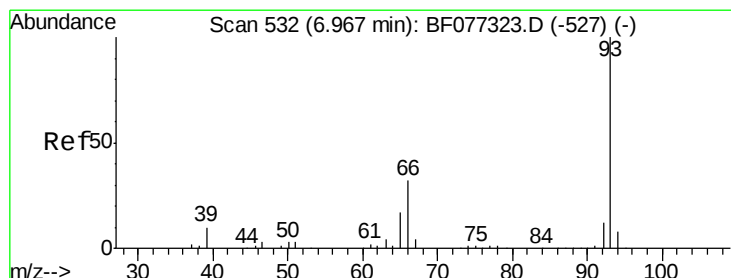
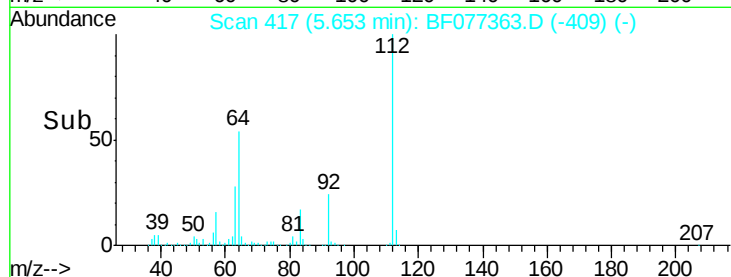
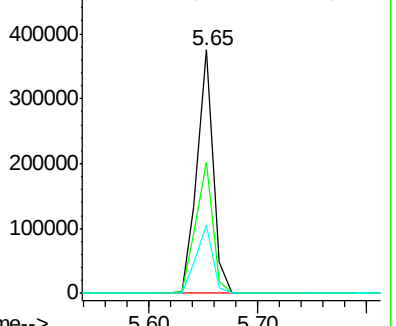
63 28.0 23.3 34.9



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



#6

Aniline

Concen: 7.58 ng

RT: 6.94 min Scan# 530

Delta R.T. -0.02 min

Lab File: BF077363.D

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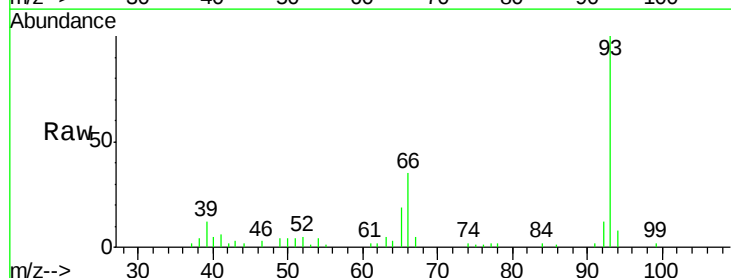
Tgt Ion: 93 Resp: 42486

Ion Ratio Lower Upper

93 100

66 35.4 28.3 42.5

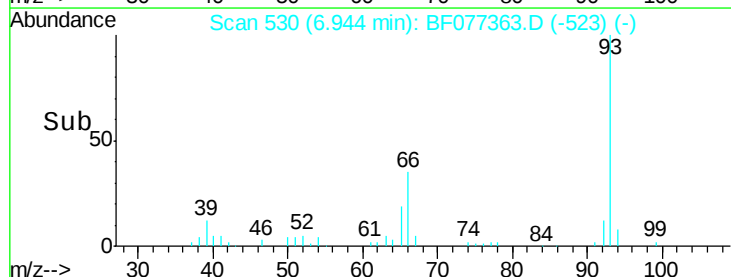
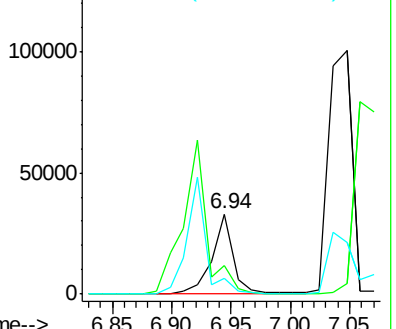
65 19.3 14.1 21.1

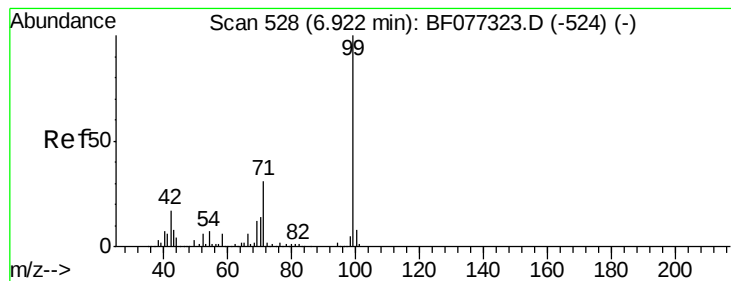


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 113.77 ng

RT: 6.90 min Scan# 526

Delta R.T. -0.02 min

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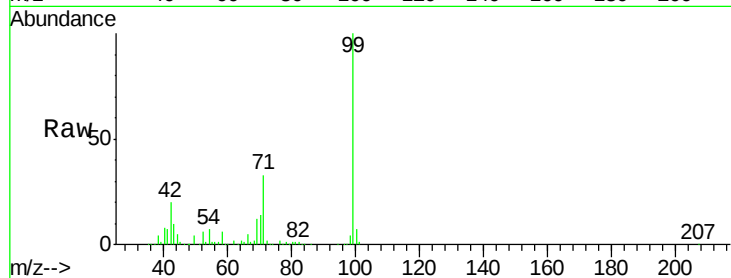
Tgt Ion: 99 Resp: 451805

Ion Ratio Lower Upper

99 100

42 19.9 13.8 20.6

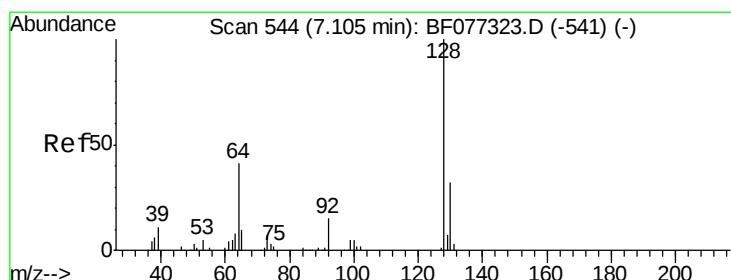
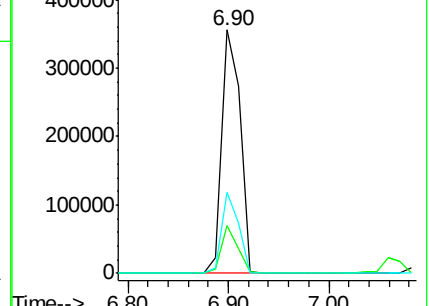
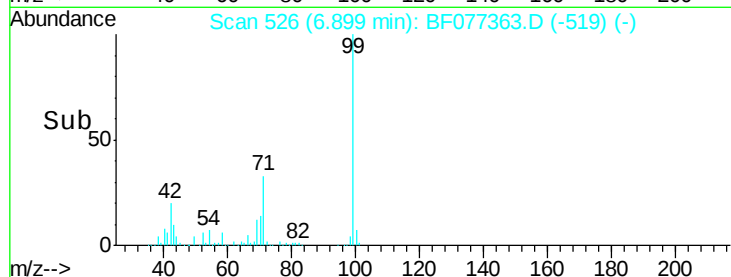
71 33.3 24.6 37.0



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



#8

2-Chlorophenol

Concen: 41.84 ng

RT: 7.08 min Scan# 542

Delta R.T. -0.02 min

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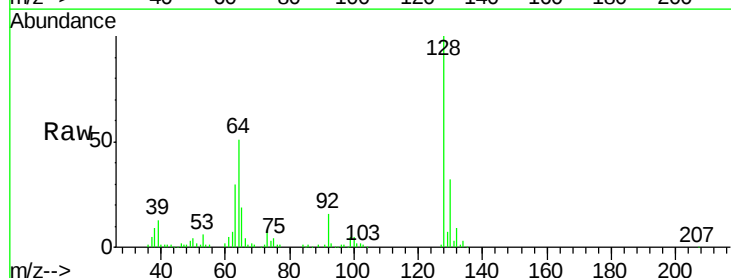
Tgt Ion: 128 Resp: 149065

Ion Ratio Lower Upper

128 100

130 31.8 12.4 52.4

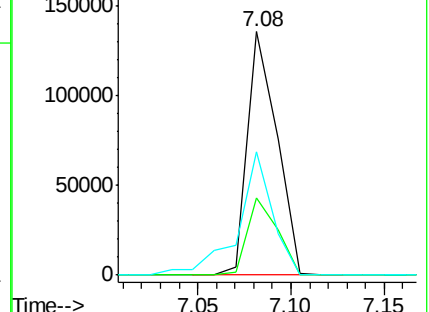
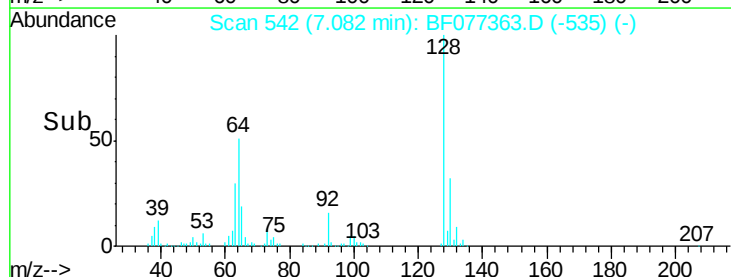
64 50.9 23.2 63.2

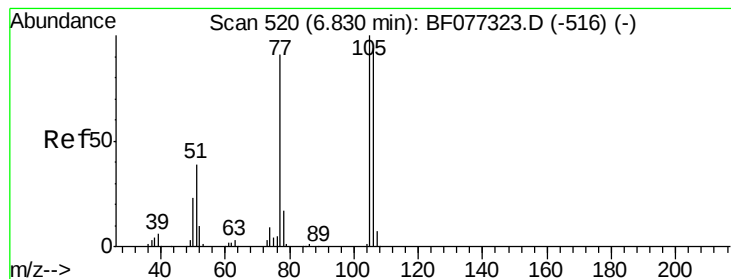


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF0





#9

Benzaldehyde

Concen: 2.47 ng

RT: 6.81 min Scan# 518

Delta R.T. -0.02 min

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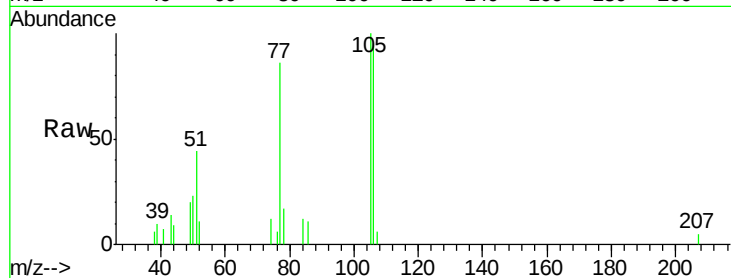
Tgt Ion: 77 Resp: 5907

Ion Ratio Lower Upper

77 100

105 115.8 89.5 129.5

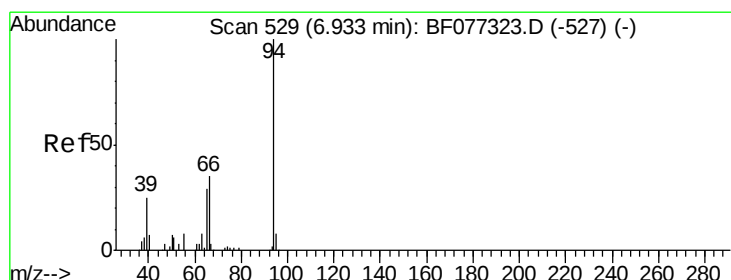
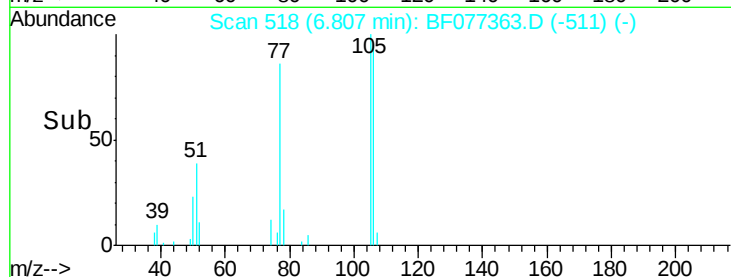
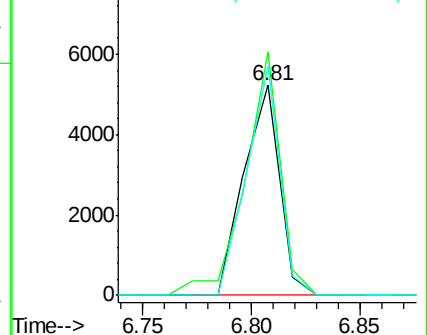
106 109.5 83.2 123.2



Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): BF0

Ion 106.00 (105.70 to 106.70): BF0



#10

Phenol

Concen: 35.29 ng

RT: 6.92 min Scan# 528

Delta R.T. -0.01 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

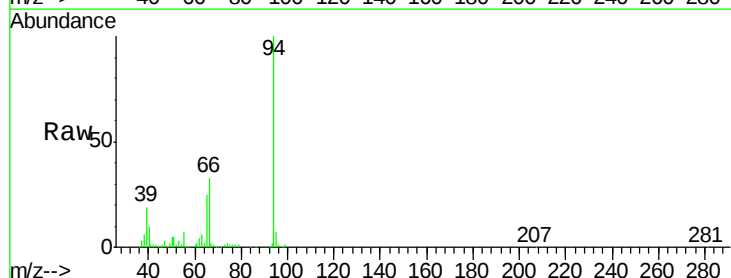
Tgt Ion: 94 Resp: 162819

Ion Ratio Lower Upper

94 100

65 25.4 9.3 49.3

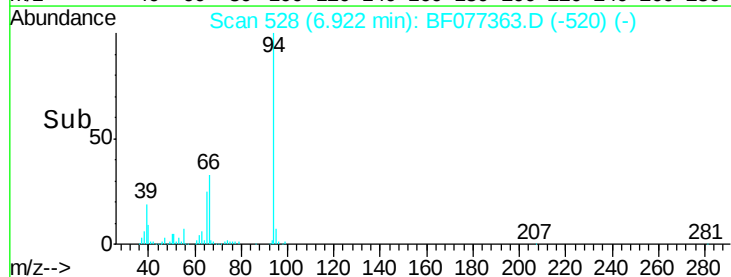
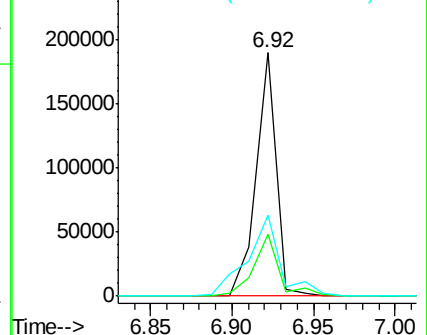
66 33.4 18.3 58.3

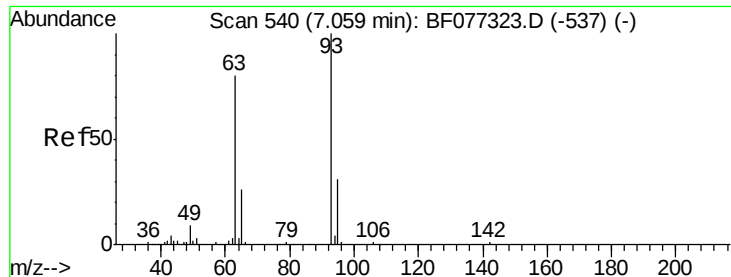


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#11

bis(2-Chloroethyl)ether

Concen: 38.76 ng

RT: 7.05 min Scan# 539

Delta R.T. -0.01 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

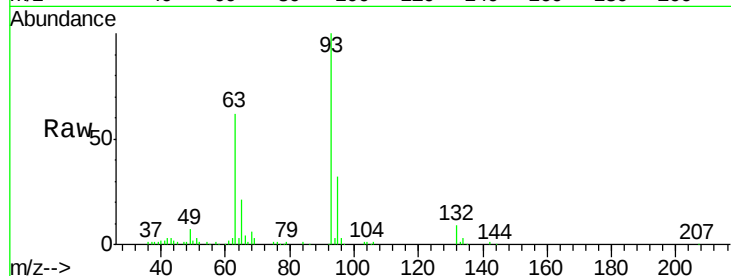
Tgt Ion: 93 Resp: 134107

Ion Ratio Lower Upper

93 100

63 62.2 60.0 100.0

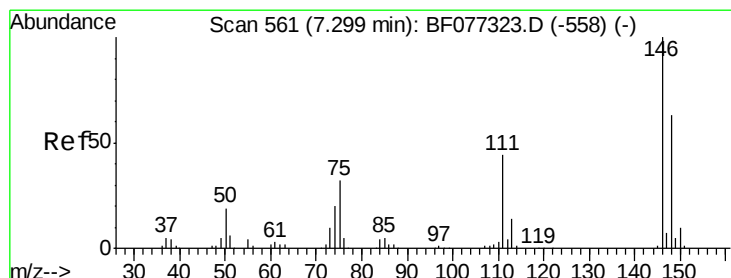
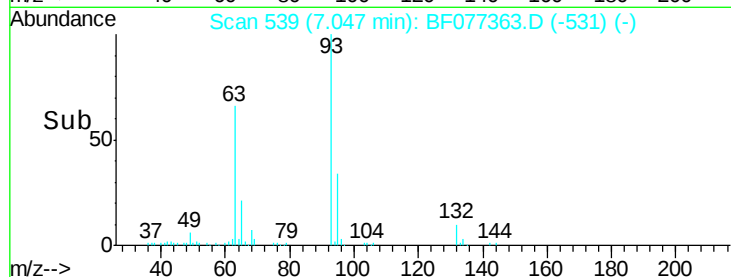
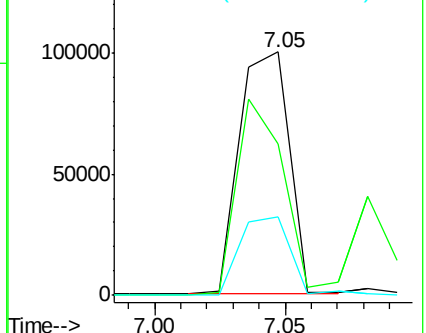
95 32.5 11.4 51.4



Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Ion 95.00 (94.70 to 95.70): BF0



#12

1,3-Dichlorobenzene

Concen: 39.16 ng

RT: 7.28 min Scan# 559

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

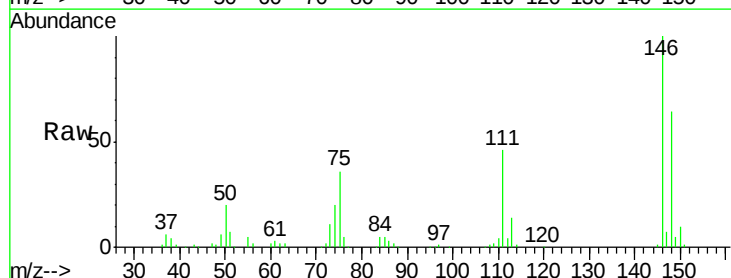
Tgt Ion: 146 Resp: 157417

Ion Ratio Lower Upper

146 100

148 63.9 50.2 75.4

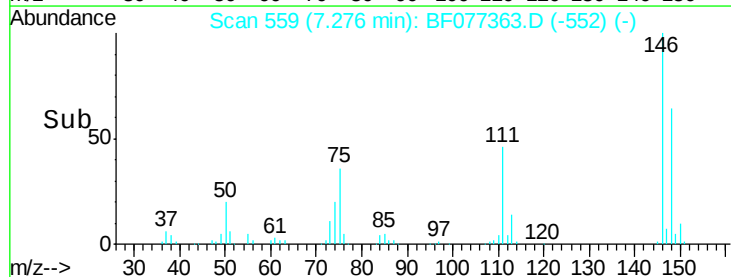
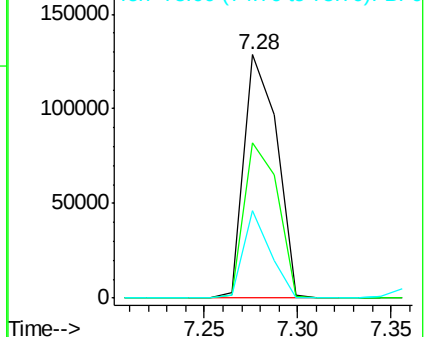
75 35.9 25.9 38.9

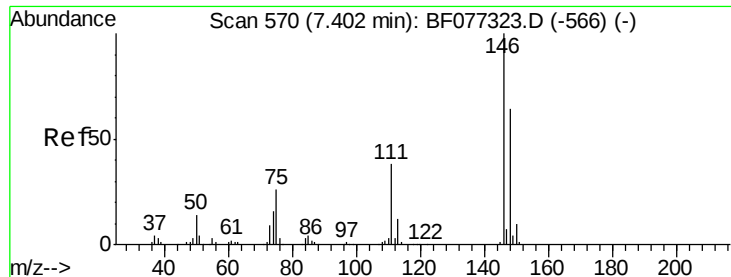


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BF0





#13

1,4-Dichlorobenzene

Concen: 40.25 ng

RT: 7.38 min Scan# 568

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

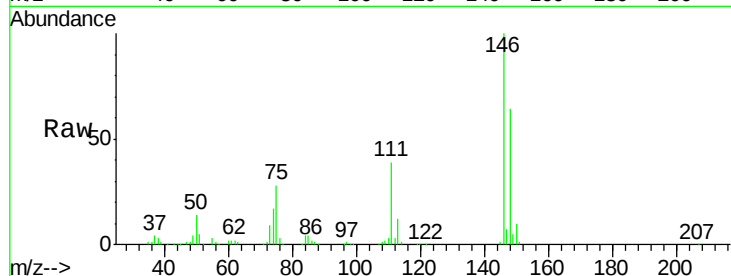
Tgt Ion:146 Resp: 166778

Ion Ratio Lower Upper

146 100

148 64.4 51.6 77.4

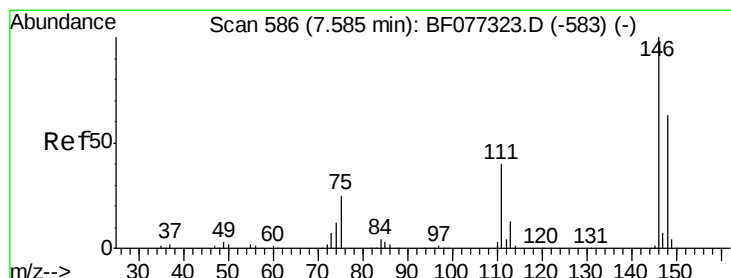
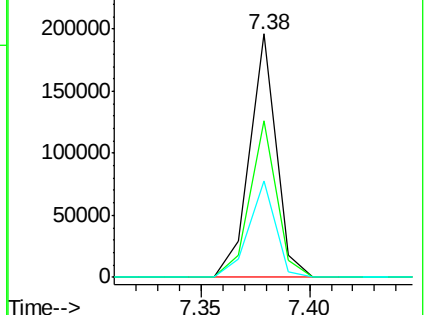
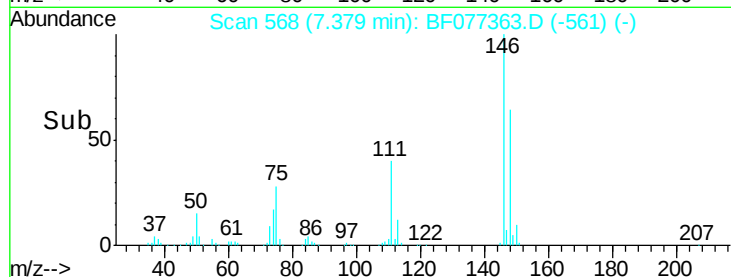
111 39.5 30.7 46.1



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#14

1,2-Dichlorobenzene

Concen: 40.05 ng

RT: 7.56 min Scan# 584

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

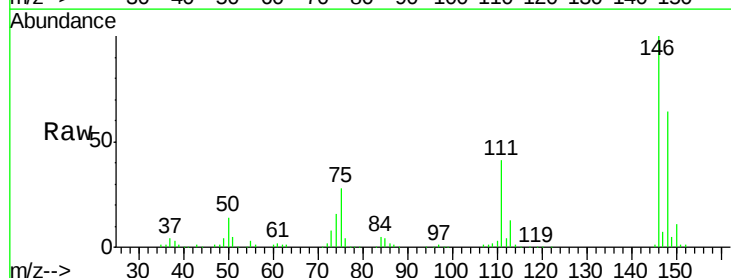
Tgt Ion:146 Resp: 160046

Ion Ratio Lower Upper

146 100

148 64.0 50.3 75.5

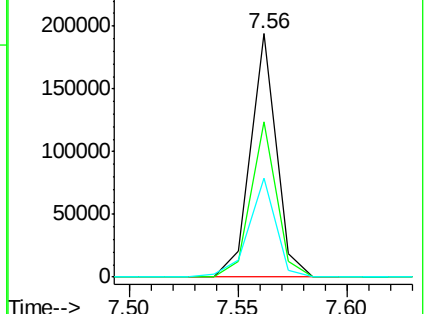
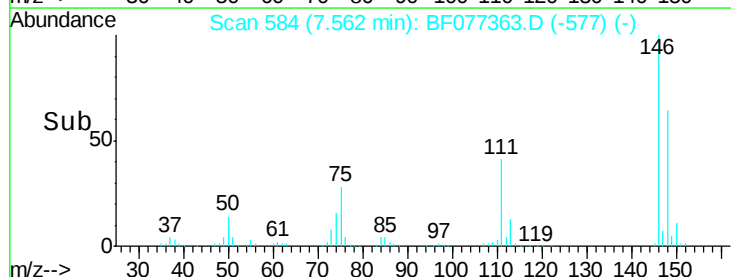
111 40.8 31.8 47.8

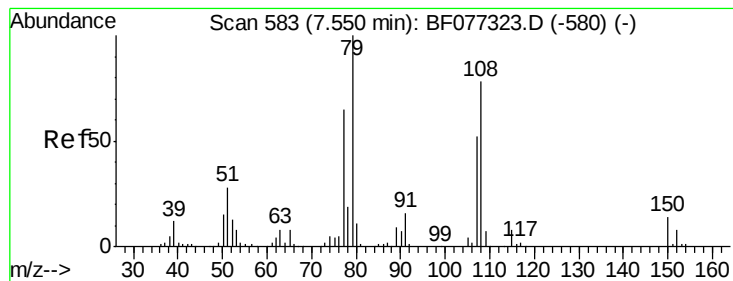


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#15

Benzyl Alcohol

Concen: 40.70 ng

RT: 7.53 min Scan# 581

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

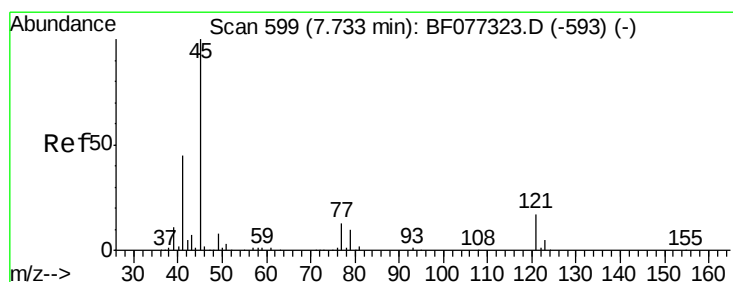
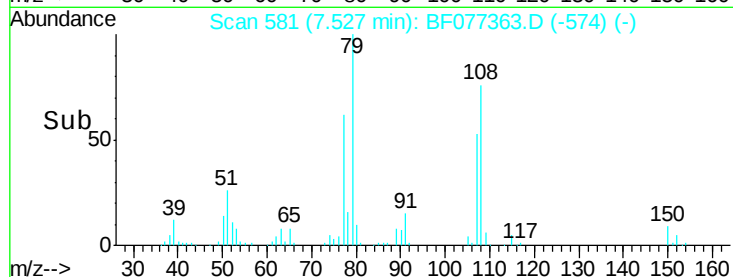
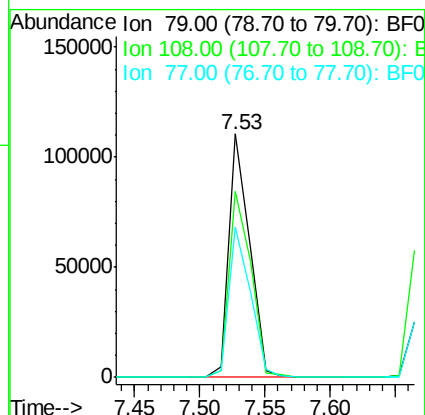
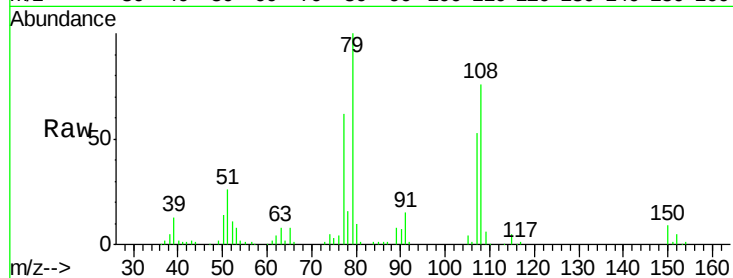
Tgt Ion: 79 Resp: 122470

Ion Ratio Lower Upper

79 100

108 76.4 62.0 93.0

77 61.6 52.0 78.0



#16

2,2'-oxybis(1-Chloropropane)

Concen: 37.65 ng

RT: 7.71 min Scan# 597

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

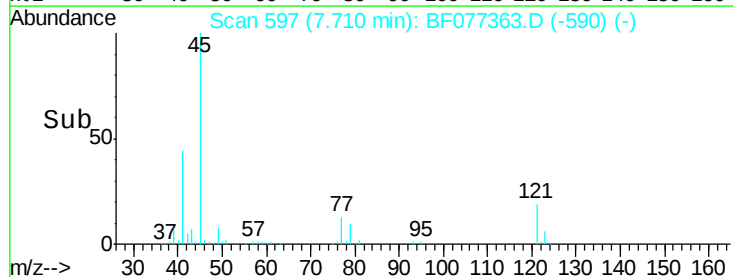
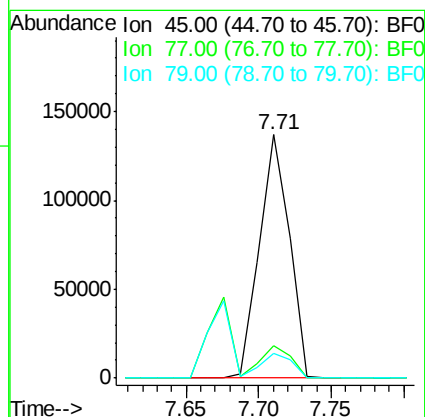
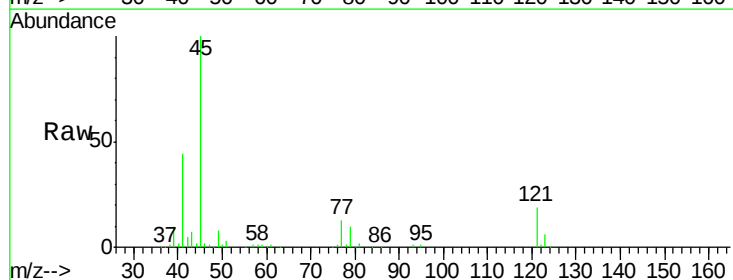
Tgt Ion: 45 Resp: 196067

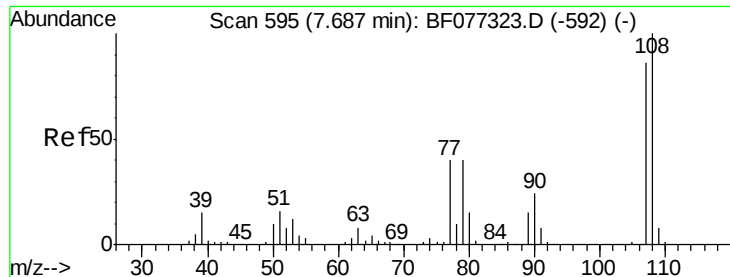
Ion Ratio Lower Upper

45 100

77 13.1 0.0 32.7

79 10.2 0.0 30.0

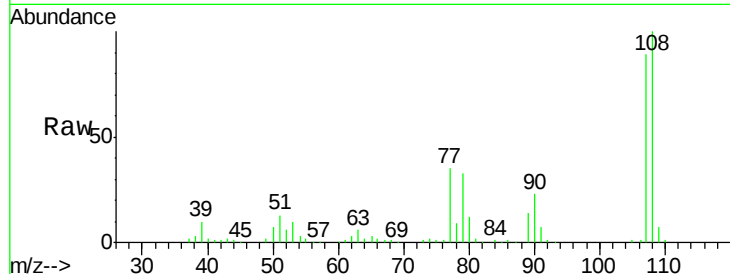




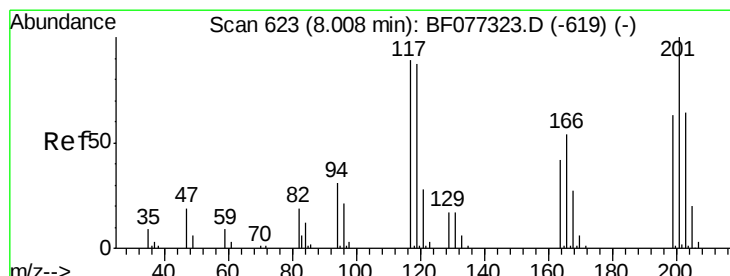
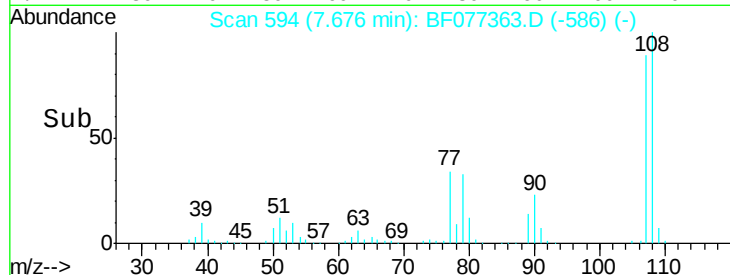
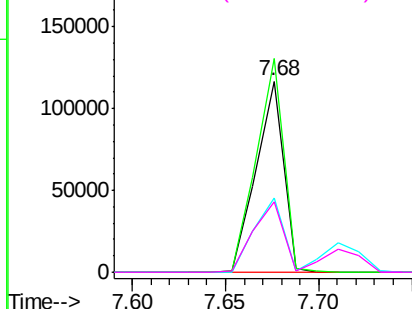
#17
2-Methylphenol
Concen: 41.55 ng
RT: 7.68 min Scan# 594
Delta R.T. -0.01 min
Lab File: BF077363.D
Acq: 18 Feb 2015 20:30

Instrument :
BNA_F
ClientSampleId :
SOIL-CHARACTERIZATIONMSD

Tgt Ion:	107	Resp:	118013
Ion	Ratio	Lower	Upper
107	100		
108	111.9	92.6	138.8
77	38.9	37.4	56.0
79	37.0	36.8	55.2

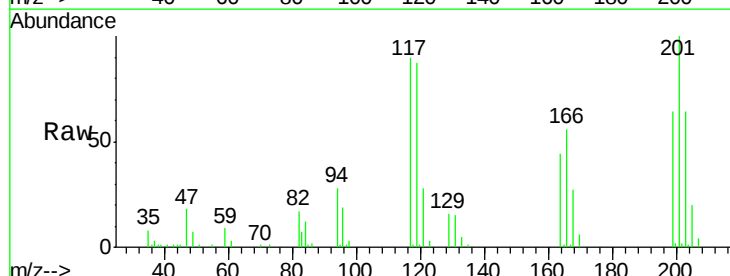


Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BF0
Ion 79.00 (78.70 to 79.70): BF0

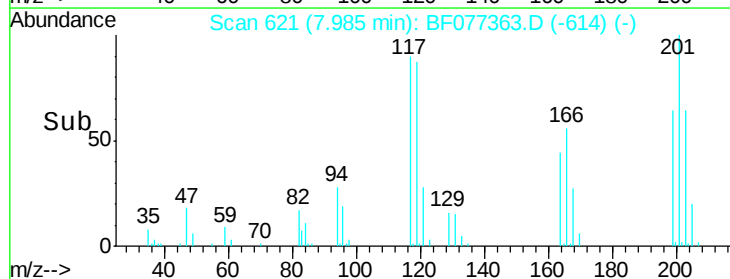
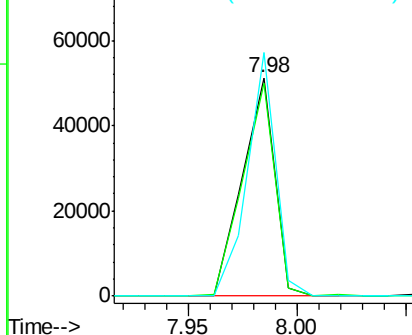


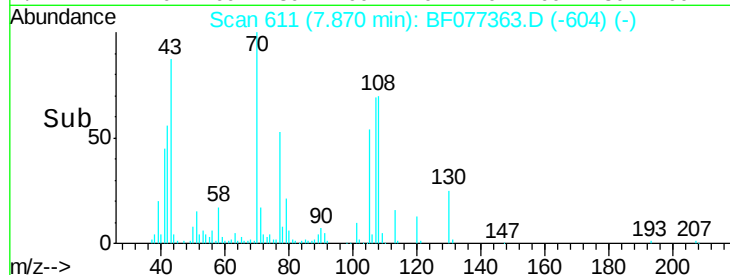
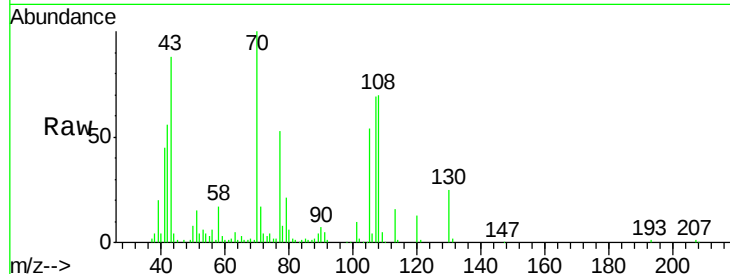
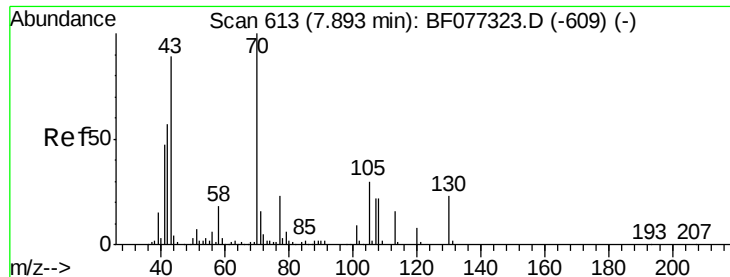
#18
Hexachloroethane
Concen: 39.17 ng
RT: 7.98 min Scan# 621
Delta R.T. -0.02 min
Lab File: BF077363.D
Acq: 18 Feb 2015 20:30

Tgt Ion:	117	Resp:	52900
Ion	Ratio	Lower	Upper
117	100		
119	97.2	78.4	117.6
201	111.4	90.1	135.1



Abundance Ion 117.00 (116.70 to 117.70): E
Ion 119.00 (118.70 to 119.70): E
Ion 201.00 (200.70 to 201.70): E

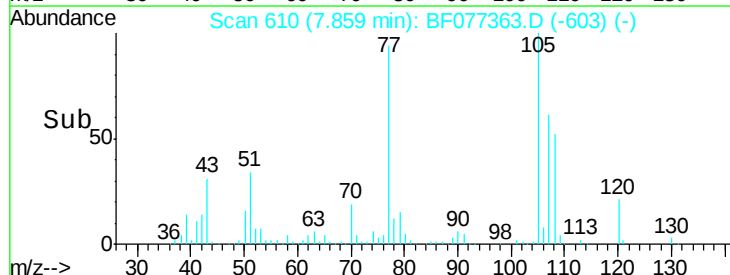
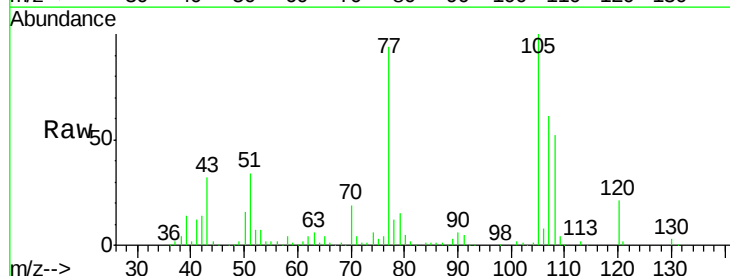
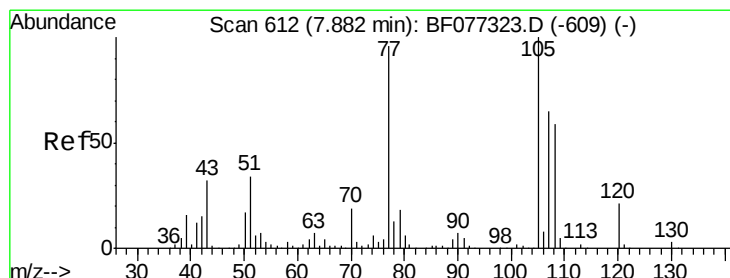
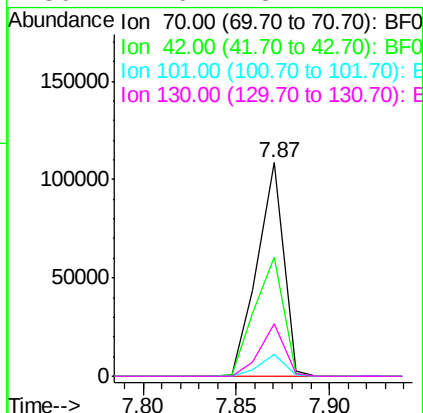




#19
n-Nitroso-di-n-propylamine
Concen: 38.63 ng
RT: 7.87 min Scan# 611
Delta R.T. -0.02 min
Lab File: BF077363.D
Acq: 18 Feb 2015 20:30

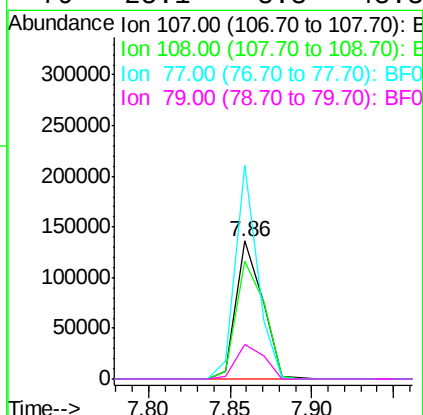
Instrument :
BNA_F
ClientSampleId :
SOIL-CHARACTERIZATIONMSD

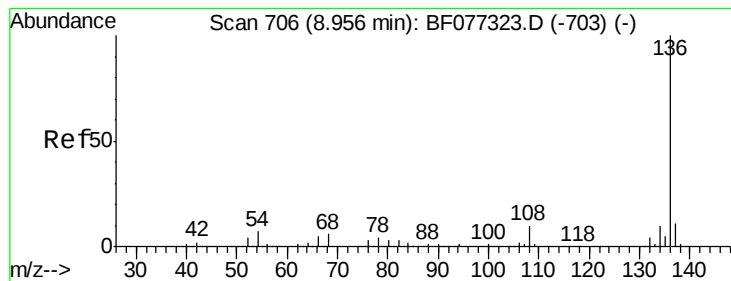
Tgt Ion:	70	Resp:	106596
Ion	Ratio	Lower	Upper
70	100		
42	55.5	45.5	68.3
101	10.0	7.5	11.3
130	24.6	18.2	27.2



#20
3+4-Methylphenols
Concen: 41.17 ng
RT: 7.86 min Scan# 610
Delta R.T. -0.02 min
Lab File: BF077363.D
Acq: 18 Feb 2015 20:30

Tgt Ion:	107	Resp:	152213
Ion	Ratio	Lower	Upper
107	100		
108	85.2	70.6	110.6
77	154.7	126.5	166.5
79	25.1	8.3	48.3





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.93 min Scan# 704

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

Tgt Ion:136 Resp: 209750

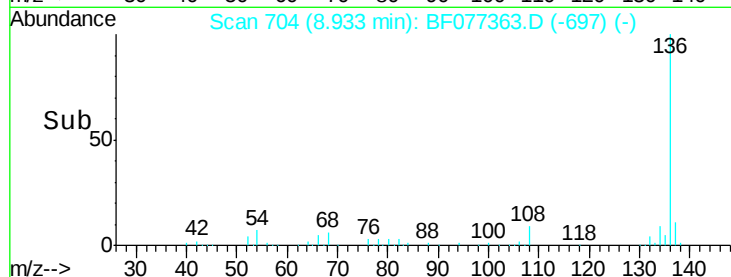
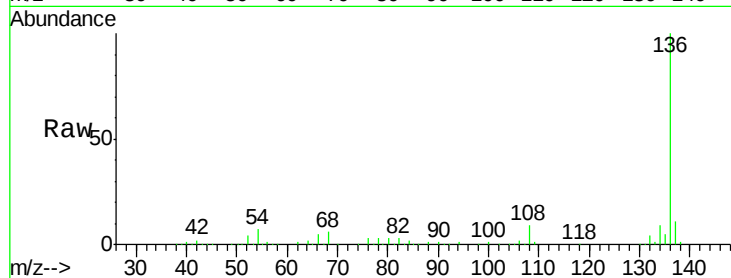
Ion Ratio Lower Upper

136 100

137 10.5 8.7 13.1

54 7.3 5.8 8.6

68 6.2 4.6 6.8

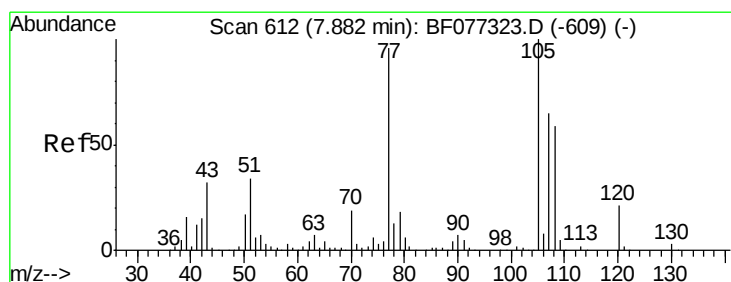
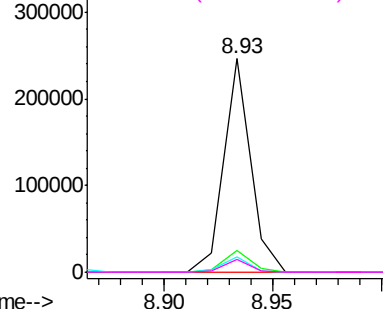


Abundance Ion 136.00 (135.70 to 136.70): E

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: 41.52 ng

RT: 7.86 min Scan# 610

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Tgt Ion:105 Resp: 204906

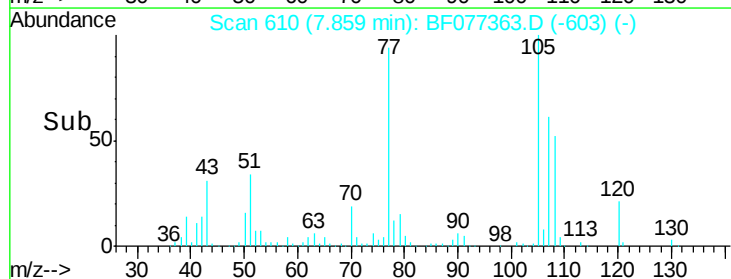
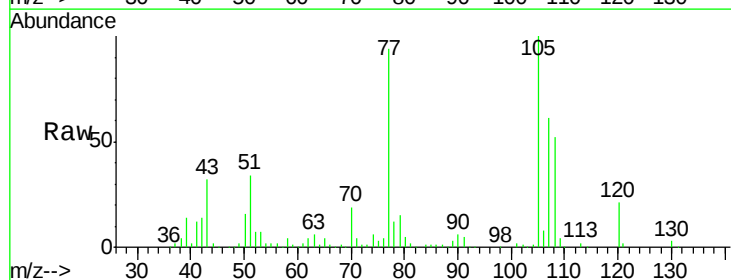
Ion Ratio Lower Upper

105 100

71 3.7 2.5 3.7

51 34.5 27.4 41.2

120 21.0 17.2 25.8

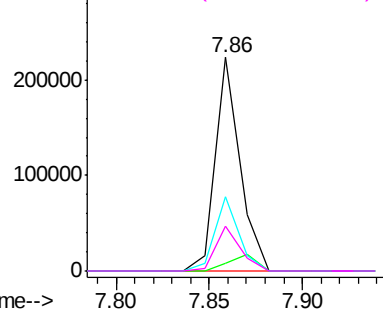


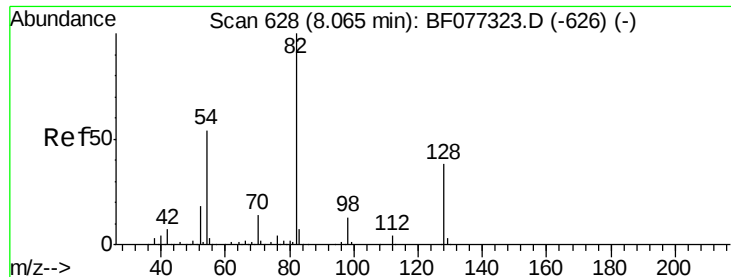
Abundance Ion 105.00 (104.70 to 105.70): E

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

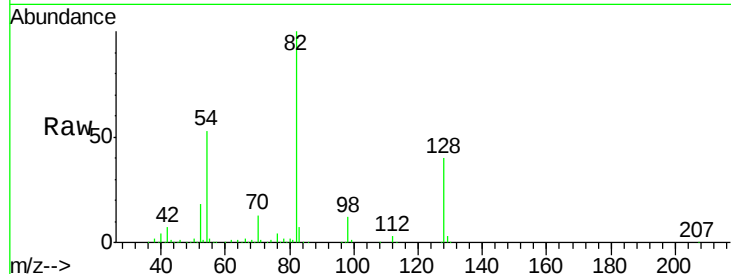




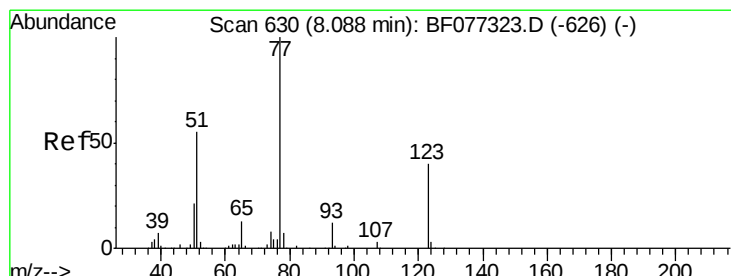
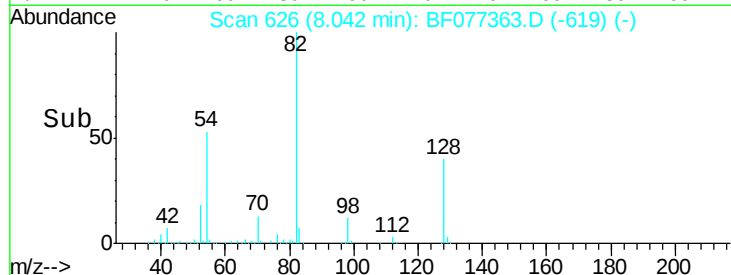
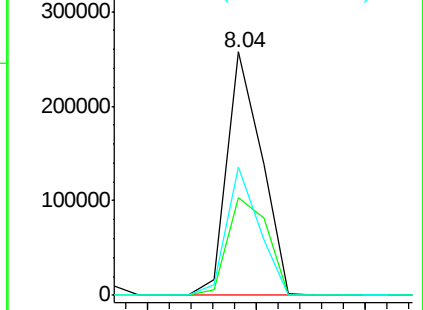
#23
 Nitrobenzene-d5
 Concen: 93.78 ng
 RT: 8.04 min Scan# 626
 Delta R.T. -0.02 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMSD

Tgt Ion	Ratio	Lower	Upper
82	100		
128	40.2	30.7	46.1
54	52.5	43.1	64.7

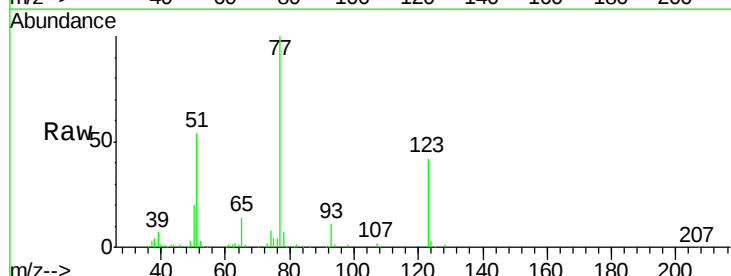


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): BF0
 Ion 54.00 (53.70 to 54.70): BF0

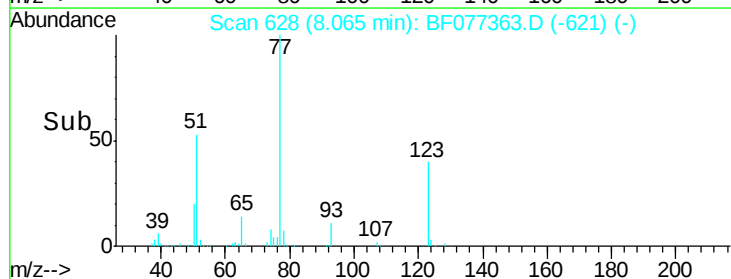
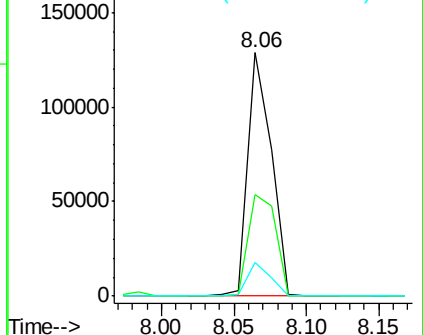


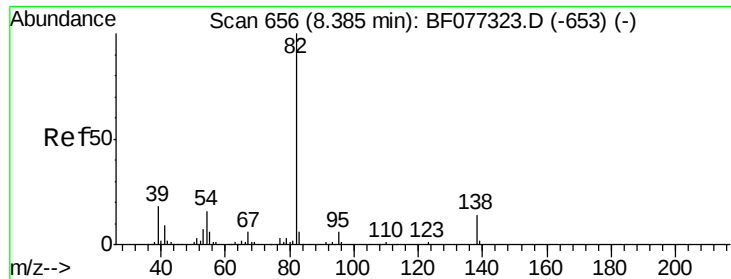
#24
 Nitrobenzene
 Concen: 44.45 ng
 RT: 8.06 min Scan# 628
 Delta R.T. -0.02 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Tgt Ion	Ratio	Lower	Upper
77	100		
123	41.7	31.7	47.5
65	13.8	10.7	16.1



Abundance Ion 77.00 (76.70 to 77.70): BF0
 Ion 123.00 (122.70 to 123.70): BF0
 Ion 65.00 (64.70 to 65.70): BF0





#25

Isophorone

Concen: 40.78 ng

RT: 8.37 min Scan# 655

Delta R.T. -0.01 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

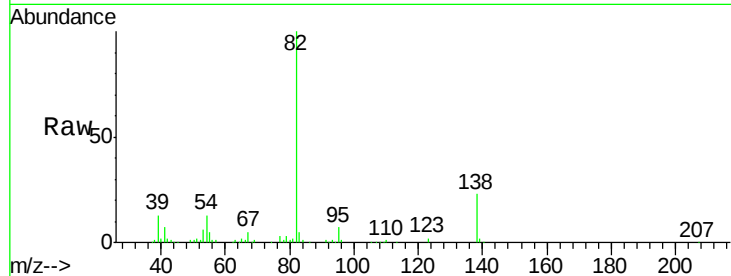
Tgt Ion: 82 Resp: 278396

Ion Ratio Lower Upper

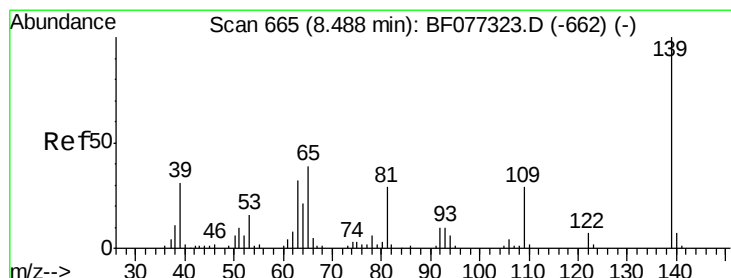
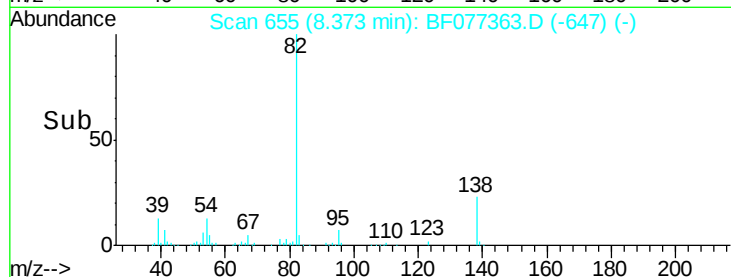
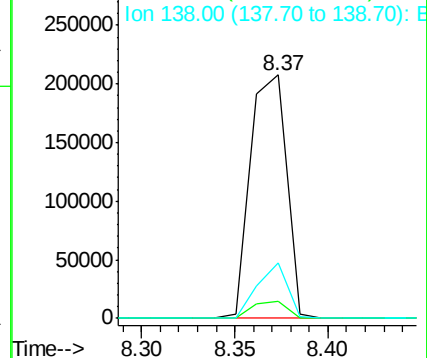
82 100

95 7.0 5.0 7.6

138 22.7 11.5 17.3#



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): E



#26

2-Nitrophenol

Concen: 60.47 ng

RT: 8.46 min Scan# 663

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

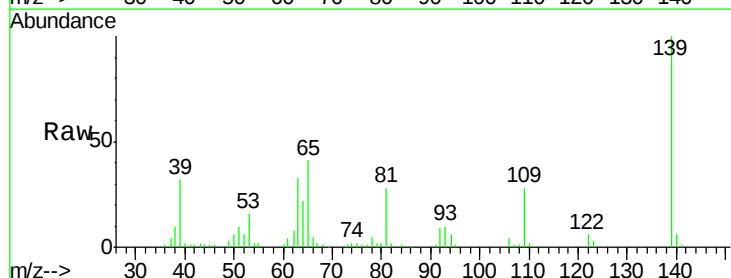
Tgt Ion: 139 Resp: 60568

Ion Ratio Lower Upper

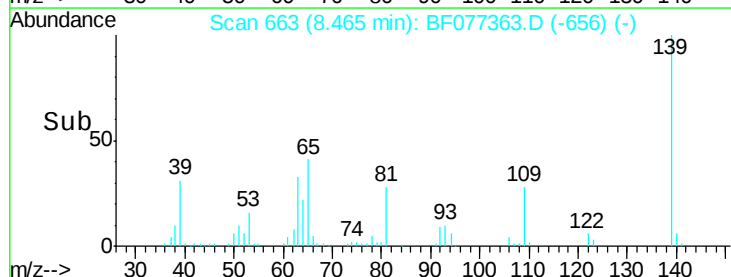
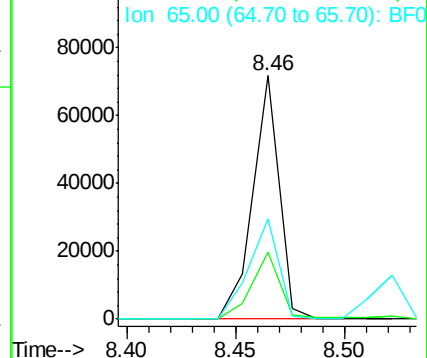
139 100

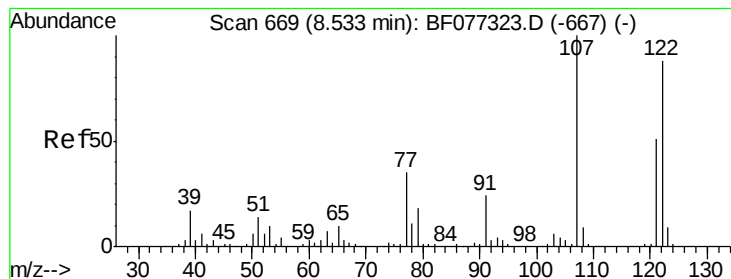
109 27.8 22.9 34.3

65 41.2 31.4 47.2



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





#27

2,4-Dimethylphenol

Concen: 44.54 ng

RT: 8.52 min Scan# 668

Delta R.T. -0.01 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

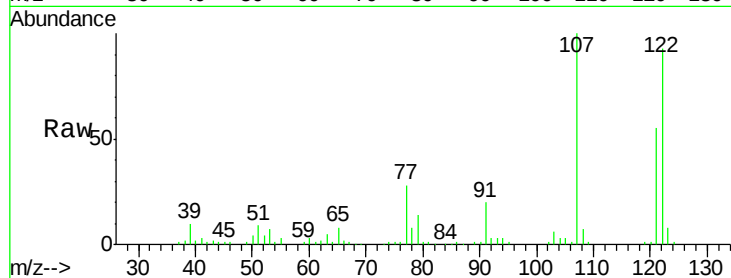
Tgt Ion:122 Resp: 138501

Ion Ratio Lower Upper

122 100

107 107.8 90.6 135.8

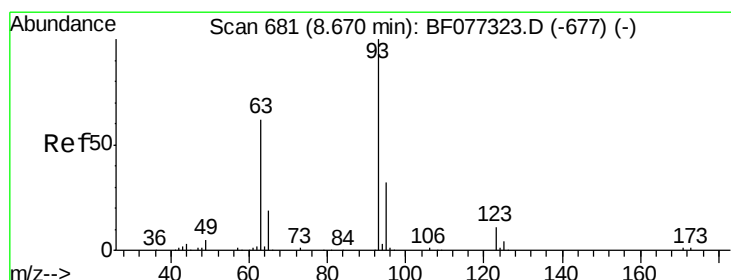
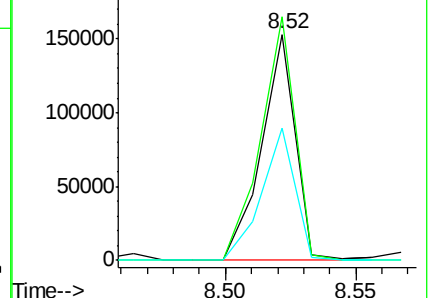
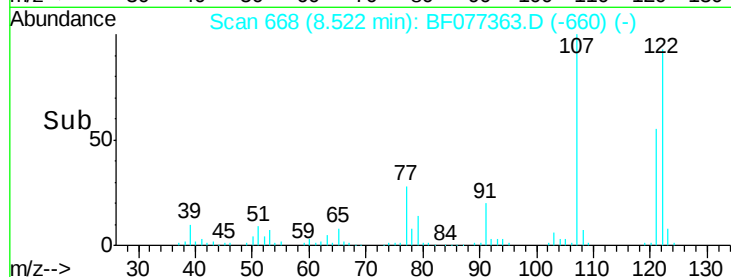
121 58.8 46.2 69.2



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#28

bis(2-Chloroethoxy)methane

Concen: 41.57 ng

RT: 8.65 min Scan# 679

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

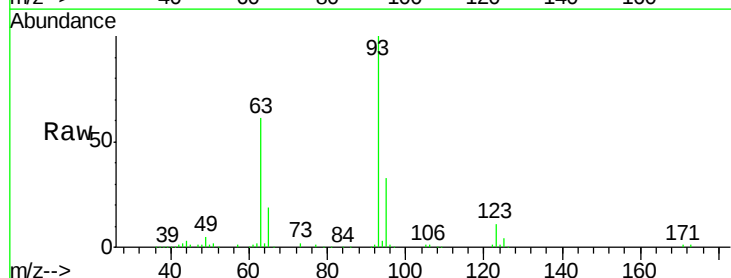
Tgt Ion: 93 Resp: 182605

Ion Ratio Lower Upper

93 100

95 33.1 25.9 38.9

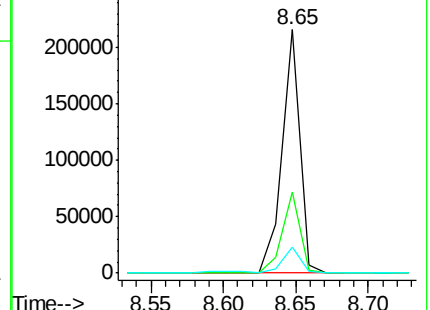
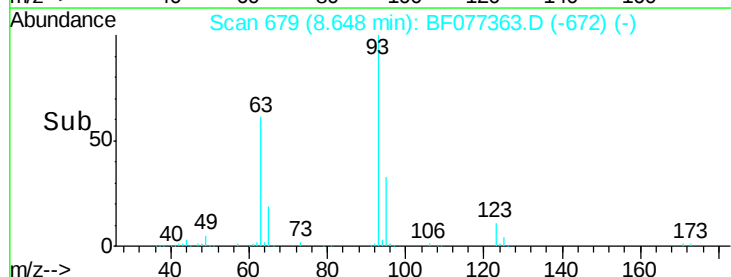
123 10.9 9.2 13.8

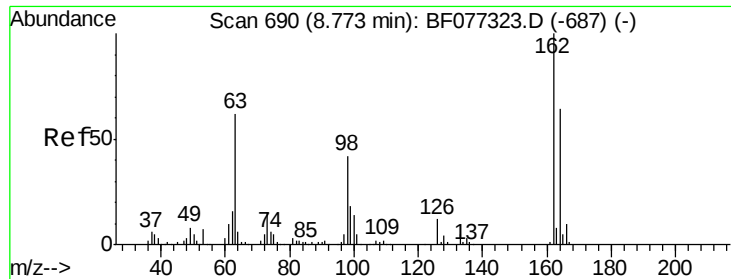


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 123.00 (122.70 to 123.70): E

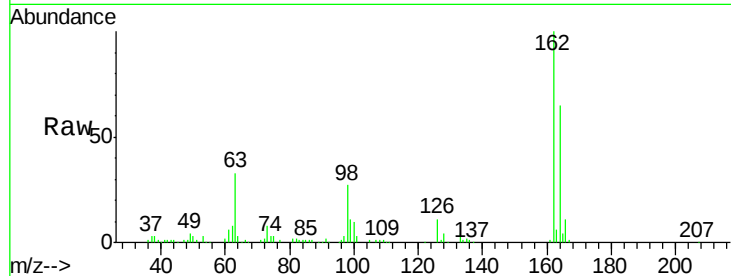




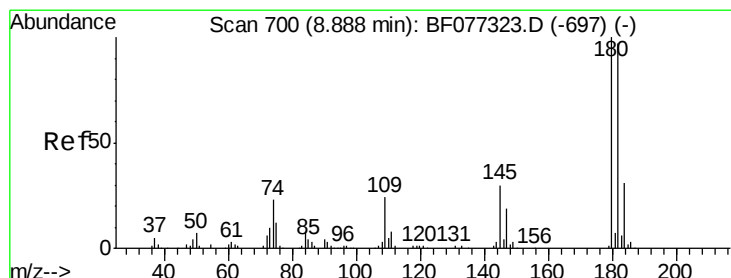
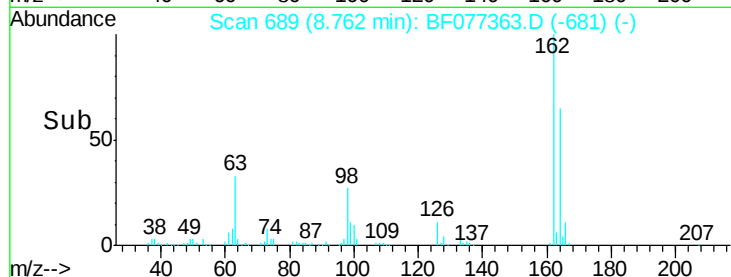
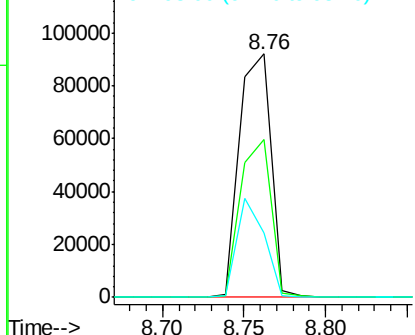
#29
 2,4-Dichlorophenol
 Concen: 46.27 ng
 RT: 8.76 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMSD

Tgt Ion:162 Resp: 123663
 Ion Ratio Lower Upper
 162 100
 164 64.9 43.7 83.7
 98 26.5 21.7 61.7

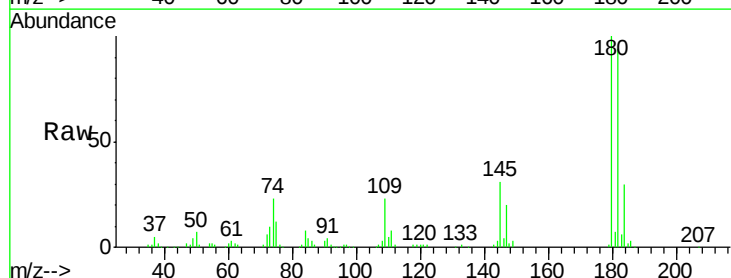


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 164.00 (163.70 to 164.70): E
 Ion 98.00 (97.70 to 98.70): BF0

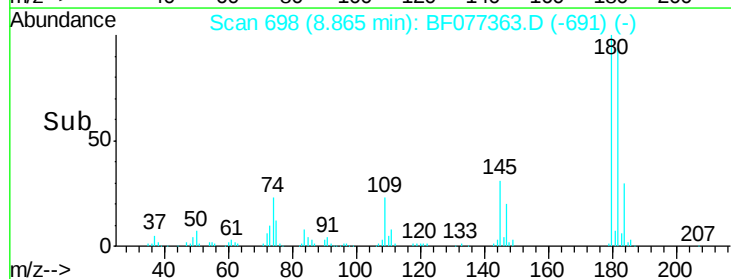
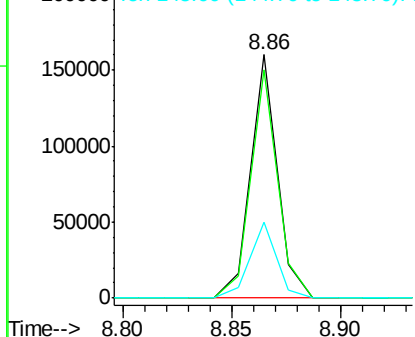


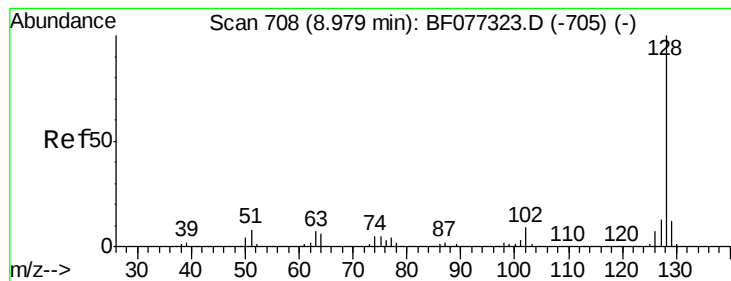
#30
 1,2,4-Trichlorobenzene
 Concen: 40.16 ng
 RT: 8.86 min Scan# 698
 Delta R.T. -0.02 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Tgt Ion:180 Resp: 136298
 Ion Ratio Lower Upper
 180 100
 182 93.8 77.8 116.8
 145 31.2 24.1 36.1



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

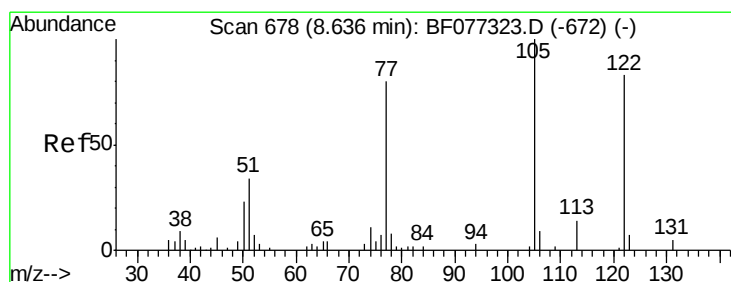
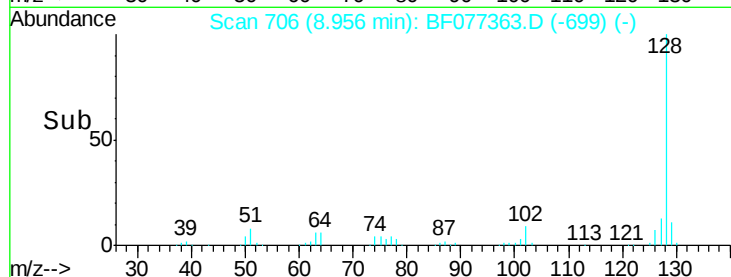
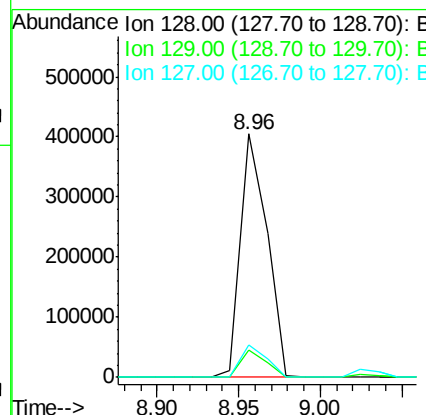
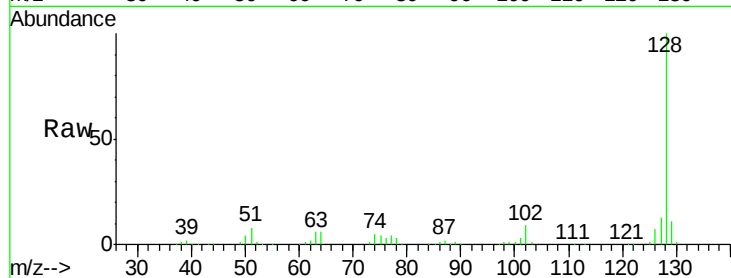




#31
Naphthalene
Concen: 42.96 ng
RT: 8.96 min Scan# 706
Delta R.T. -0.02 min
Lab File: BF077363.D
Acq: 18 Feb 2015 20:30

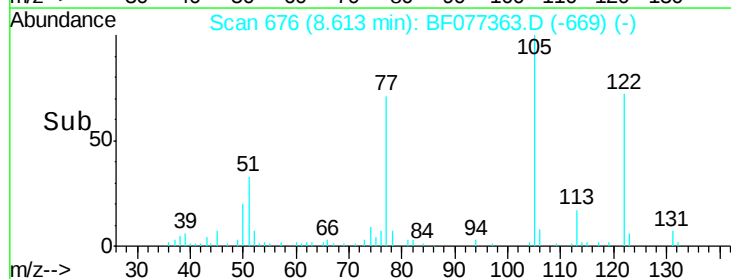
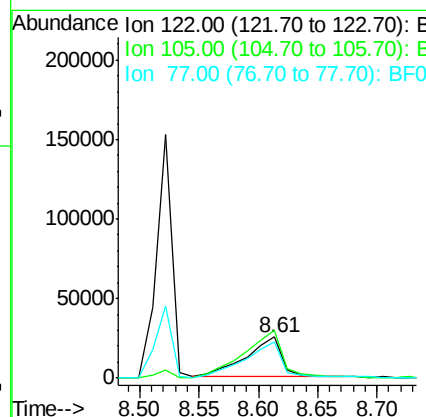
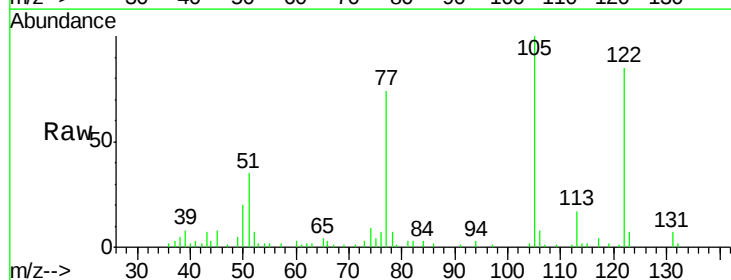
Instrument :
BNA_F
ClientSampleId :
SOIL-CHARACTERIZATIONMSD

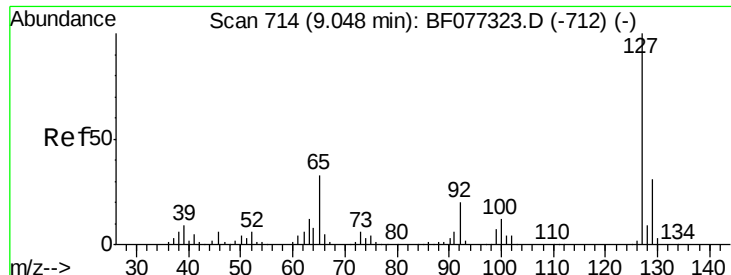
Tgt Ion:128 Resp: 450918
Ion Ratio Lower Upper
128 100
129 11.3 9.5 14.3
127 13.4 10.5 15.7



#32
Benzoic acid
Concen: 65.56 ng
RT: 8.61 min Scan# 676
Delta R.T. -0.02 min
Lab File: BF077363.D
Acq: 18 Feb 2015 20:30

Tgt Ion:122 Resp: 54359
Ion Ratio Lower Upper
122 100
105 117.6 98.4 138.4
77 87.0 75.4 115.4

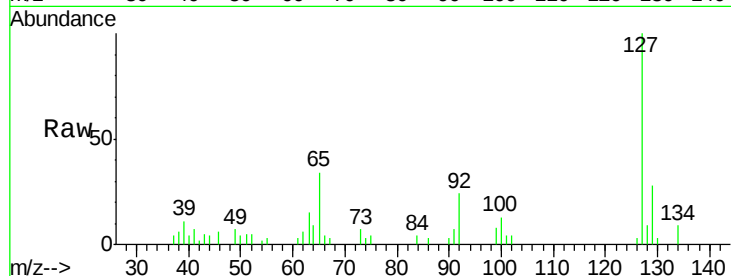




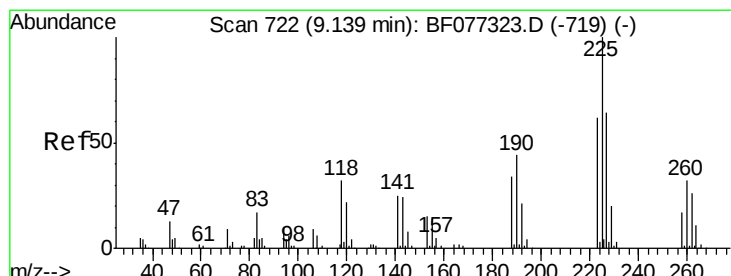
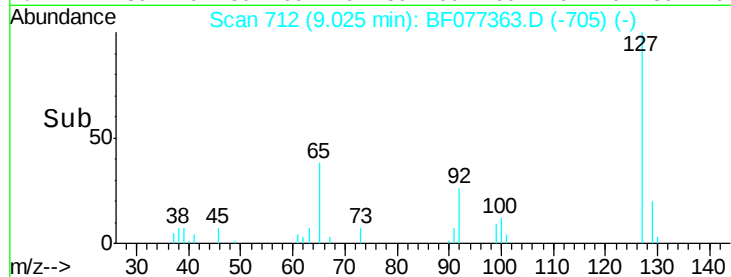
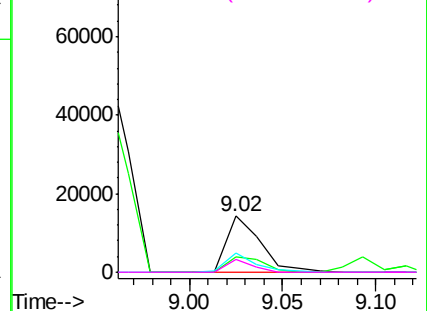
#33
4-Chloroaniline
Concen: 4.02 ng
RT: 9.02 min Scan# 712
Delta R.T. -0.02 min
Lab File: BF077363.D
Acq: 18 Feb 2015 20:30

Instrument :
BNA_F
ClientSampleId :
SOIL-CHARACTERIZATIONMSD

Tgt Ion:	127	Resp:	18026
Ion	Ratio	Lower	Upper
127	100		
129	28.4	24.9	37.3
65	34.4	26.4	39.6
92	23.6	15.9	23.9

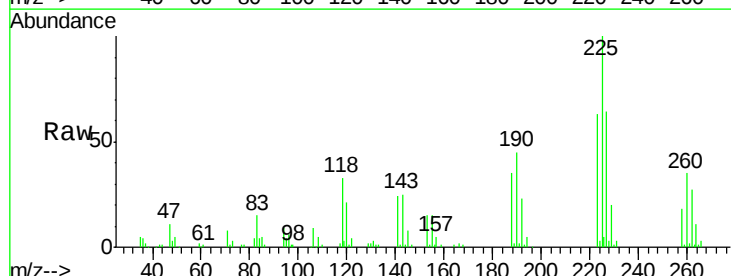


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BF0
Ion 92.00 (91.70 to 92.70): BF0

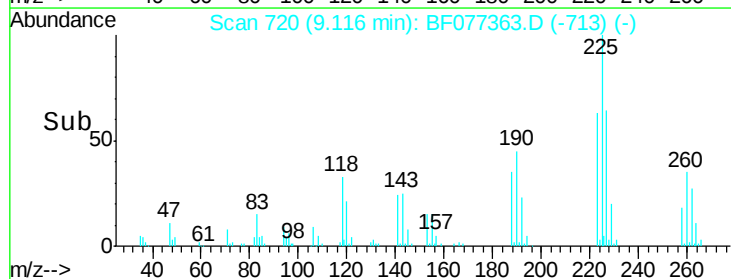
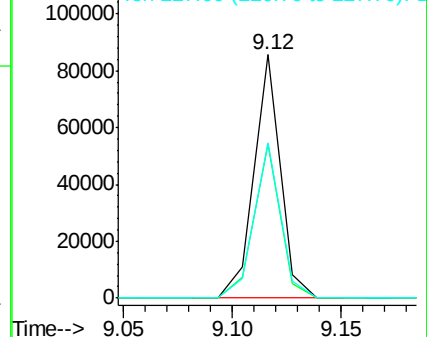


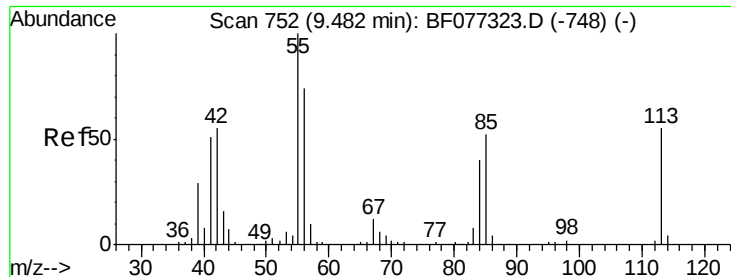
#34
Hexachlorobutadiene
Concen: 38.77 ng
RT: 9.12 min Scan# 720
Delta R.T. -0.02 min
Lab File: BF077363.D
Acq: 18 Feb 2015 20:30

Tgt Ion:	225	Resp:	71921
Ion	Ratio	Lower	Upper
225	100		
223	63.1	49.4	74.2
227	63.7	51.0	76.6



Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E





#35

Caprolactam

Concen: 39.08 ng

RT: 9.45 min Scan# 749

Delta R.T. -0.03 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

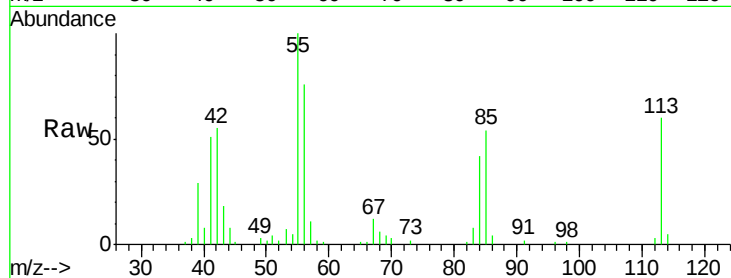
Tgt Ion:113 Resp: 32140

Ion Ratio Lower Upper

113 100

55 166.2 163.0 203.0

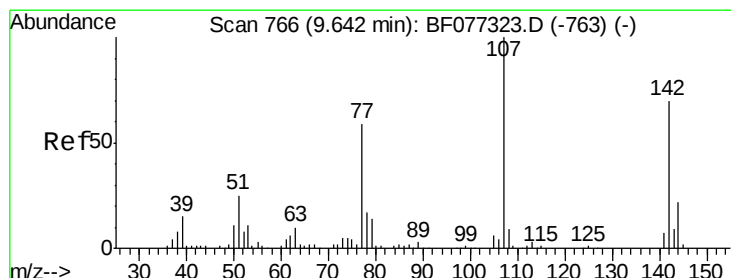
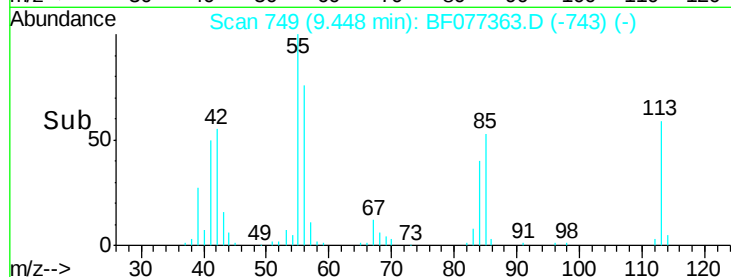
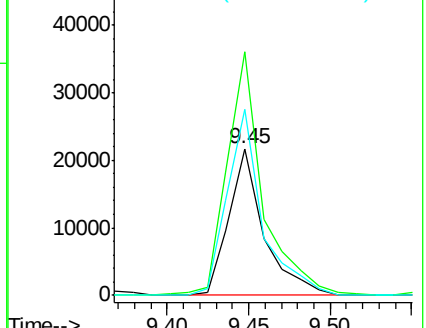
56 127.0 115.6 155.6



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



#36

4-Chloro-3-methylphenol

Concen: 45.82 ng

RT: 9.63 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

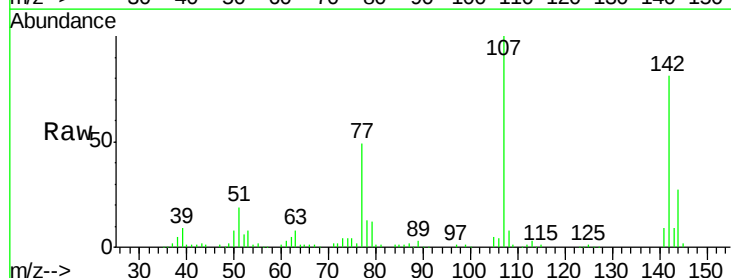
Tgt Ion:107 Resp: 134736

Ion Ratio Lower Upper

107 100

144 27.4 17.8 26.6#

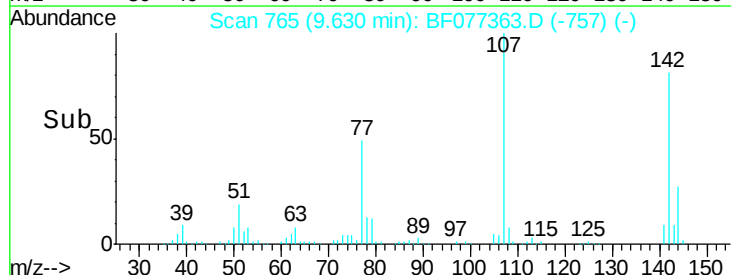
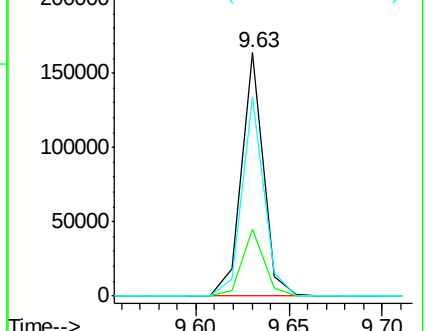
142 81.5 55.7 83.5

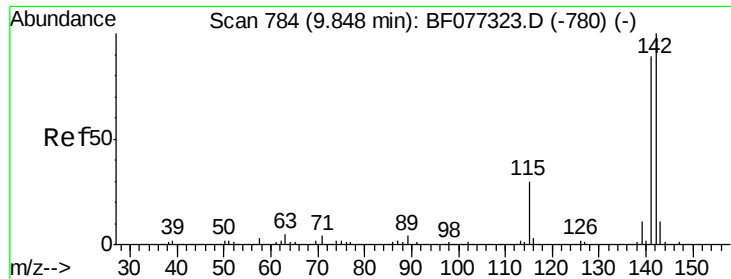


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E

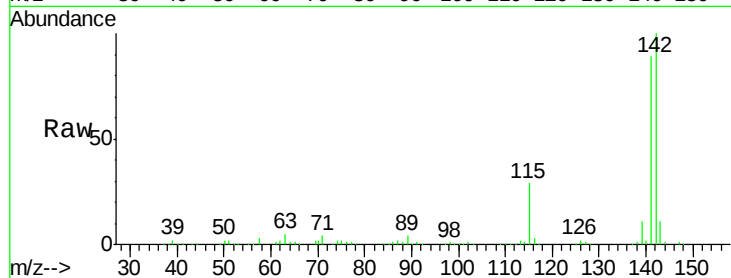




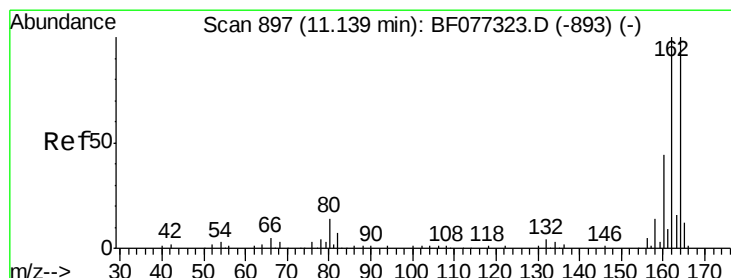
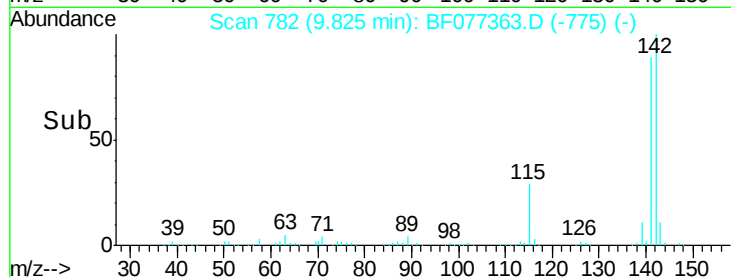
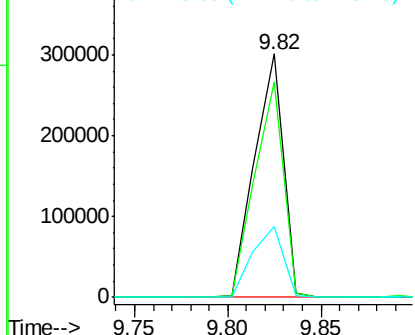
#37
 2-Methylnaphthalene
 Concen: 42.52 ng
 RT: 9.82 min Scan# 782
 Delta R.T. -0.02 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMSD

Tgt Ion:142 Resp: 320974
 Ion Ratio Lower Upper
 142 100
 141 88.6 71.2 106.8
 115 28.8 23.8 35.8

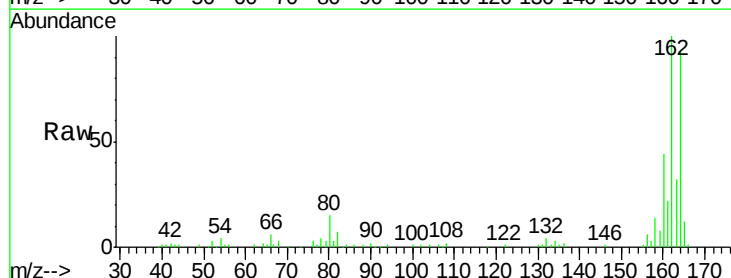


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

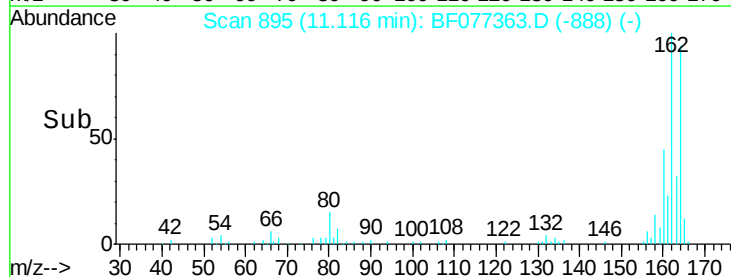
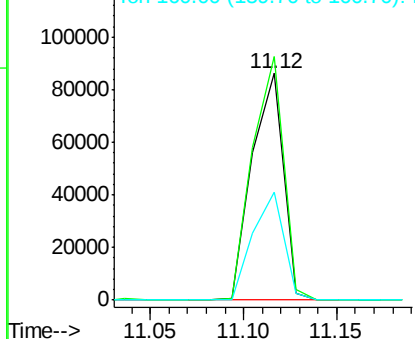


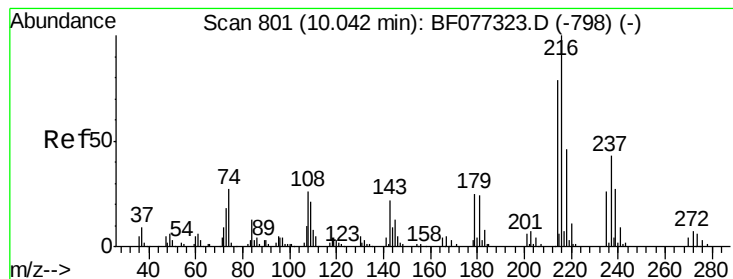
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 11.12 min Scan# 895
 Delta R.T. -0.02 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Tgt Ion:164 Resp: 99635
 Ion Ratio Lower Upper
 164 100
 162 107.5 80.4 120.6
 160 47.7 35.3 52.9



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





#39

1,2,4,5-Tetrachlorobenzene

Concen: 44.69 ng

RT: 10.03 min Scan# 800

Delta R.T. -0.01 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

Tgt Ion:216 Resp: 128584

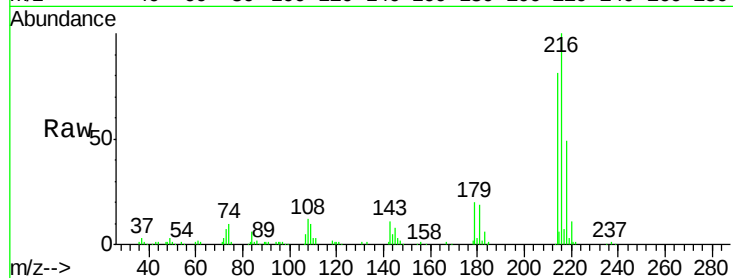
Ion Ratio Lower Upper

216 100

214 80.6 62.5 93.7

179 21.8 17.6 26.4

108 20.8 16.6 25.0

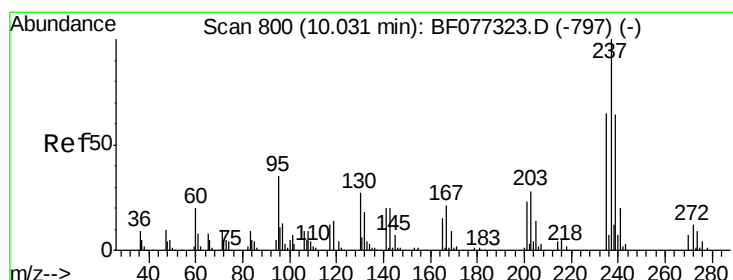
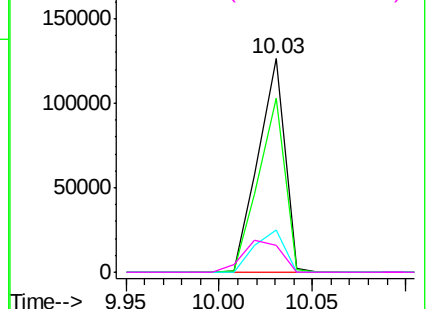
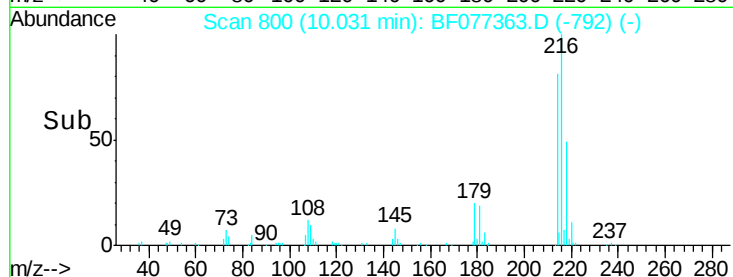


Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E



#40

Hexachlorocyclopentadiene

Concen: 68.15 ng

RT: 10.02 min Scan# 799

Delta R.T. -0.01 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

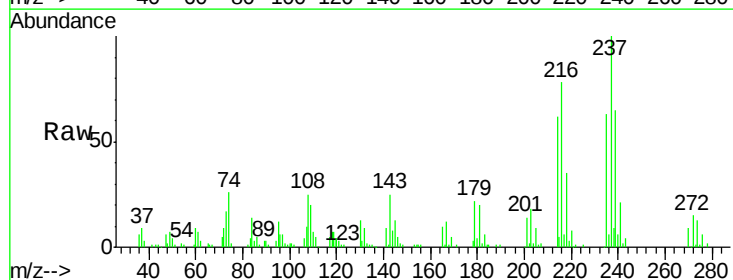
Tgt Ion:237 Resp: 97472

Ion Ratio Lower Upper

237 100

235 62.6 44.5 84.5

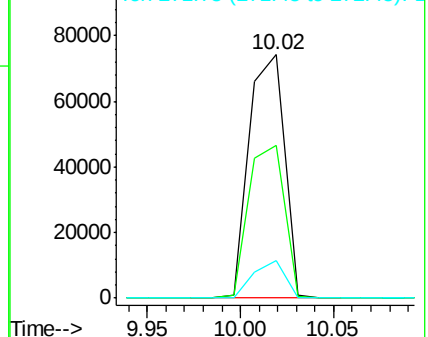
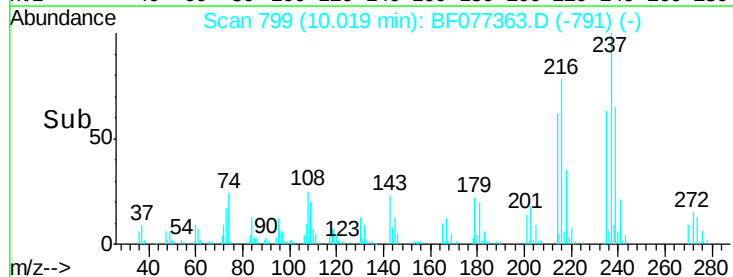
272 15.4 0.0 32.2

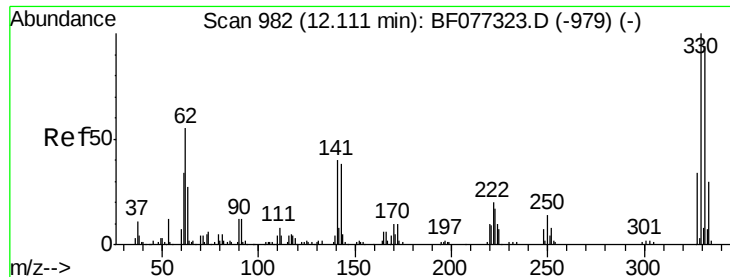


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

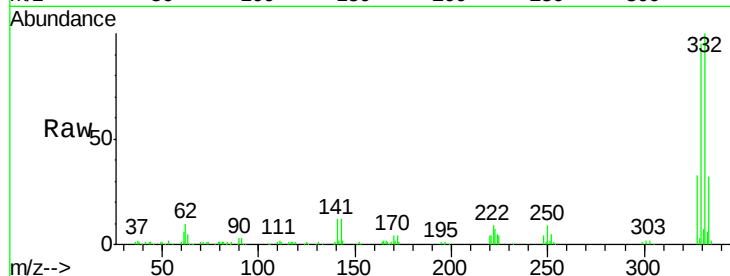




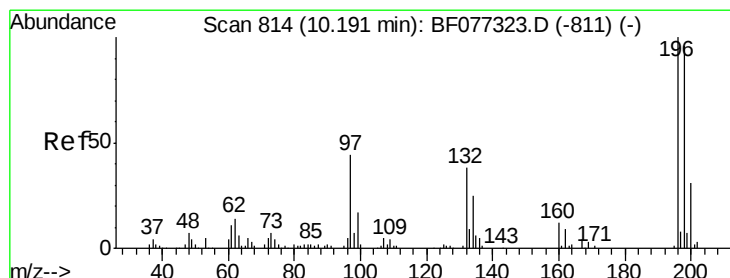
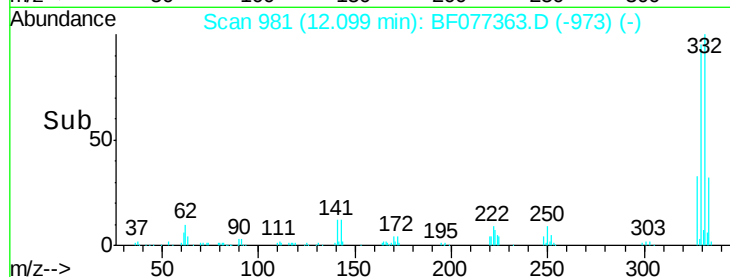
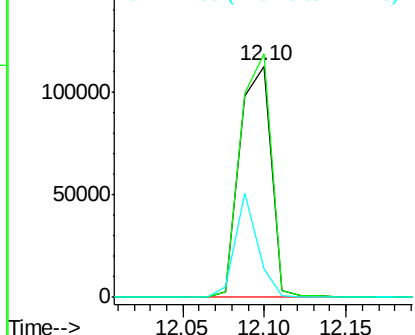
#41
 2,4,6-Tribromophenol
 Concen: 160.64 ng
 RT: 12.10 min Scan# 981
 Delta R.T. -0.01 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMSD

Tgt Ion:330 Resp: 149370
 Ion Ratio Lower Upper
 330 100
 332 103.5 76.1 114.1
 141 32.4 28.5 42.7

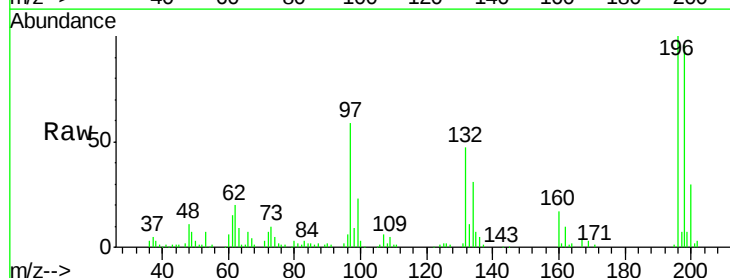


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

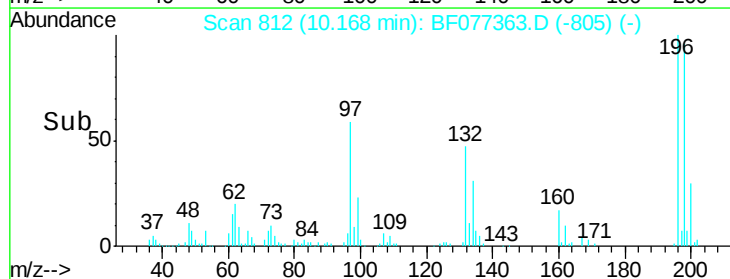
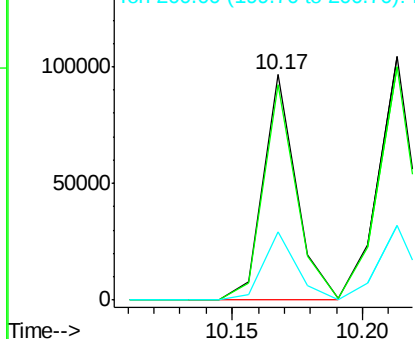


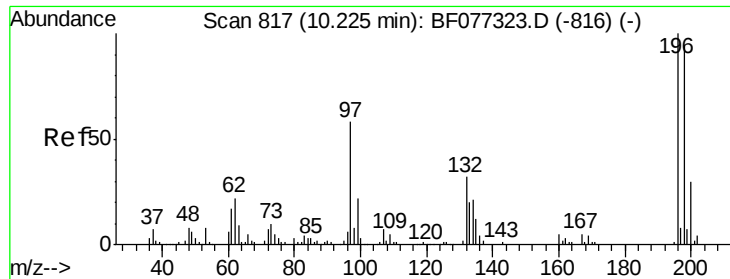
#42
 2,4,6-Trichlorophenol
 Concen: 52.91 ng
 RT: 10.17 min Scan# 812
 Delta R.T. -0.02 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Tgt Ion:196 Resp: 85285
 Ion Ratio Lower Upper
 196 100
 198 95.7 76.7 115.1
 200 30.1 24.7 37.1



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

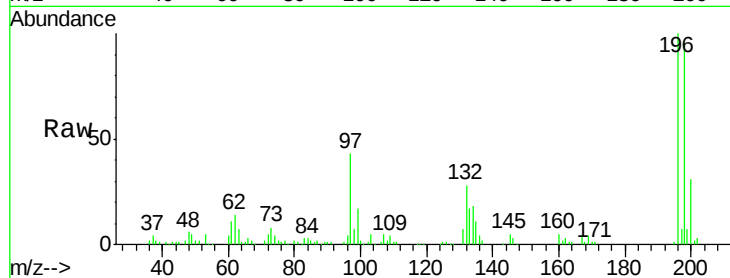




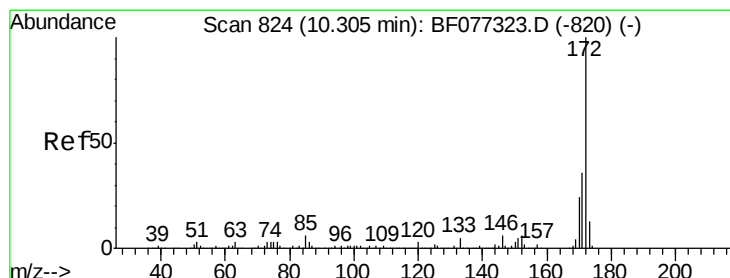
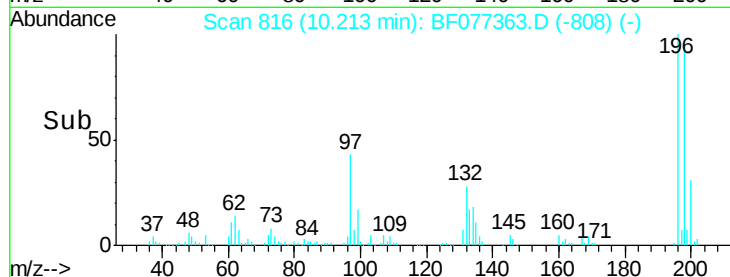
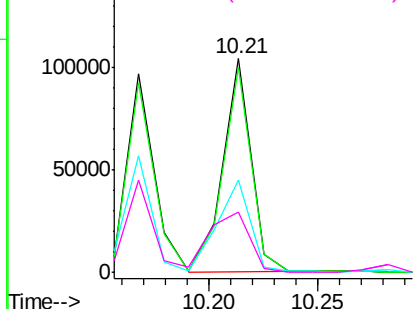
#43
 2,4,5-Trichlorophenol
 Concen: 54.62 ng
 RT: 10.21 min Scan# 816
 Delta R.T. -0.01 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMSD

Tgt Ion:196 Resp: 94138
 Ion Ratio Lower Upper
 196 100
 198 95.6 75.1 112.7
 97 43.3 48.8 73.2#
 132 27.9 26.2 39.4

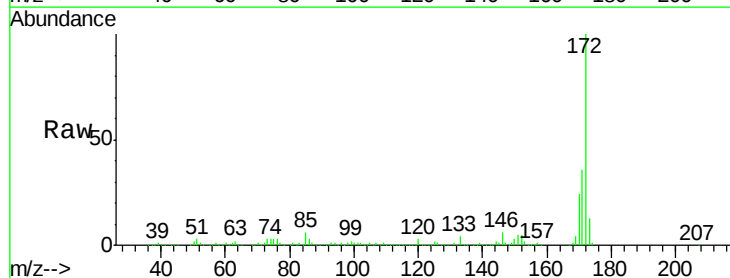


Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 97.00 (96.70 to 97.70): BF0
 Ion 132.00 (131.70 to 132.70): E

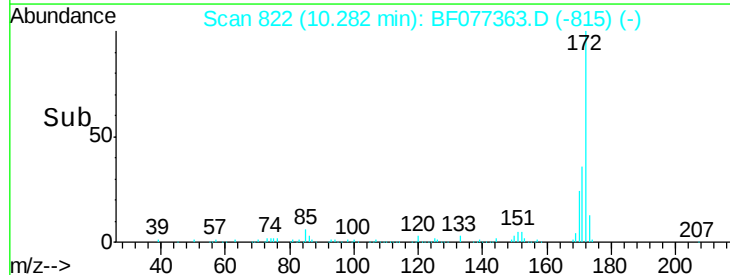
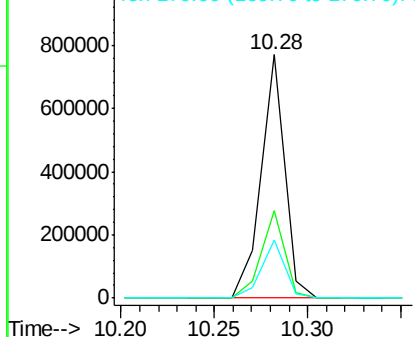


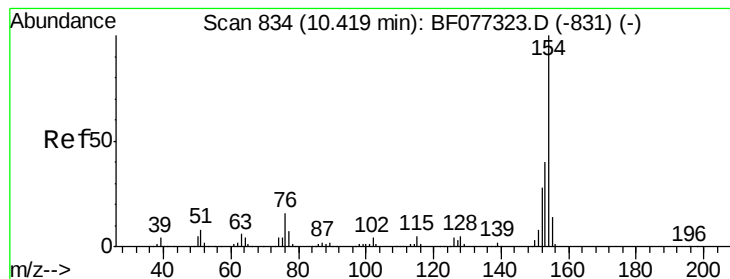
#44
 2-Fluorobiphenyl
 Concen: 101.28 ng
 RT: 10.28 min Scan# 822
 Delta R.T. -0.02 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Tgt Ion:172 Resp: 669391
 Ion Ratio Lower Upper
 172 100
 171 35.7 28.9 43.3
 170 23.8 19.4 29.2



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





#45

1,1'-Biphenyl

Concen: 47.20 ng

RT: 10.41 min Scan# 833

Delta R.T. -0.01 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

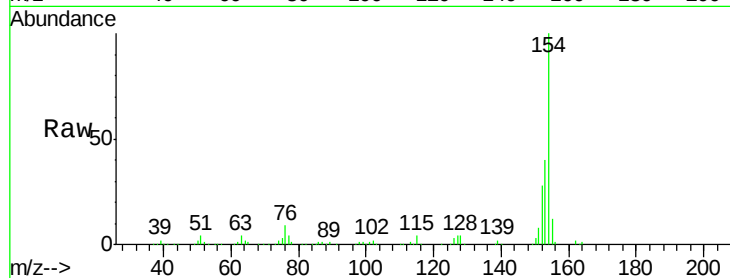
Tgt Ion:154 Resp: 374946

Ion Ratio Lower Upper

154 100

153 40.3 20.5 60.5

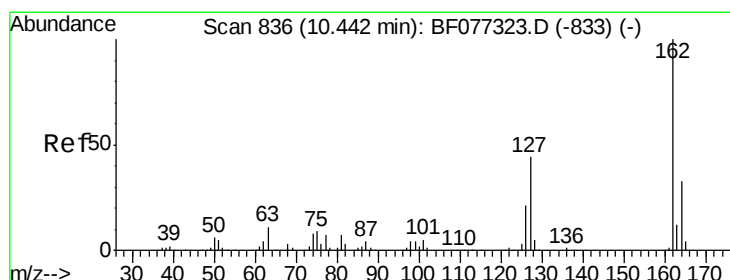
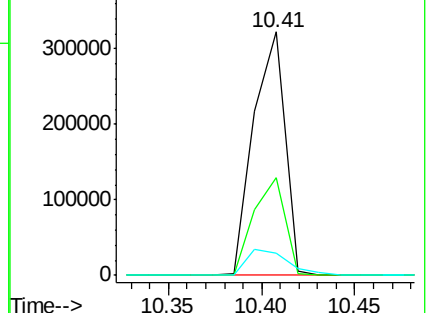
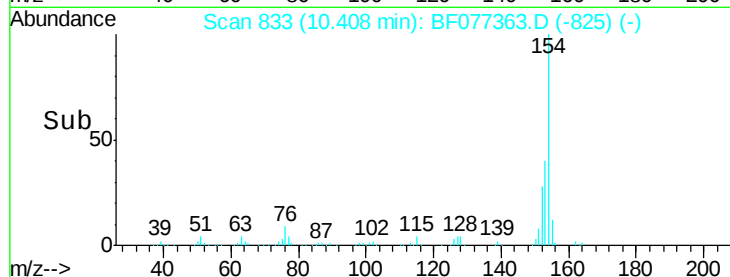
76 9.1 0.0 35.9



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#46

2-Chloronaphthalene

Concen: 48.68 ng

RT: 10.42 min Scan# 834

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

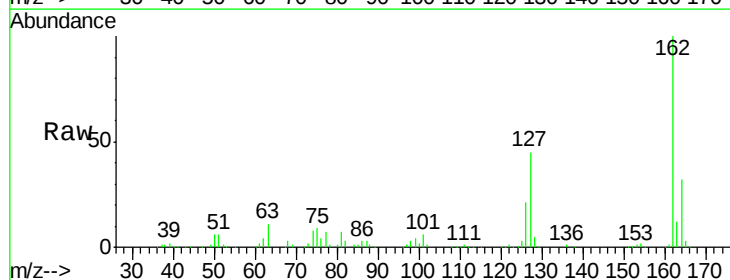
Tgt Ion:162 Resp: 287301

Ion Ratio Lower Upper

162 100

127 44.9 35.4 53.0

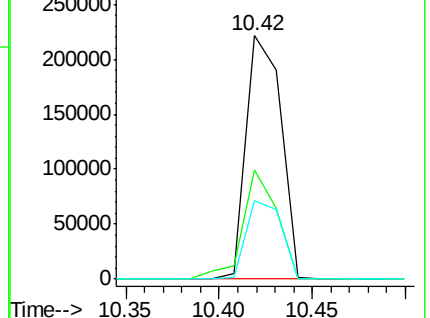
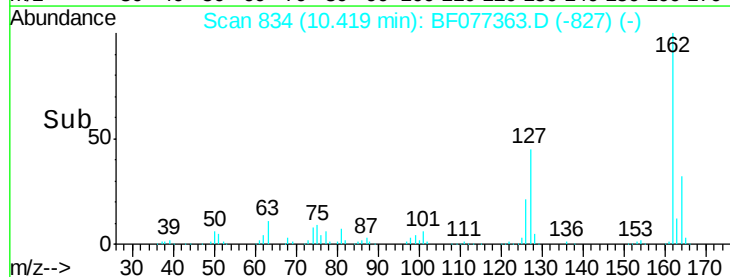
164 32.5 26.2 39.2

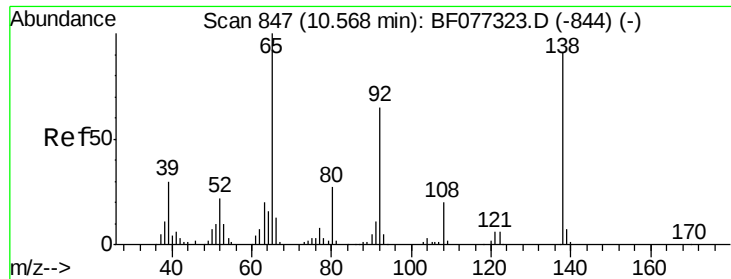


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E





#47

2-Nitroaniline

Concen: 59.40 ng

RT: 10.54 min Scan# 845

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

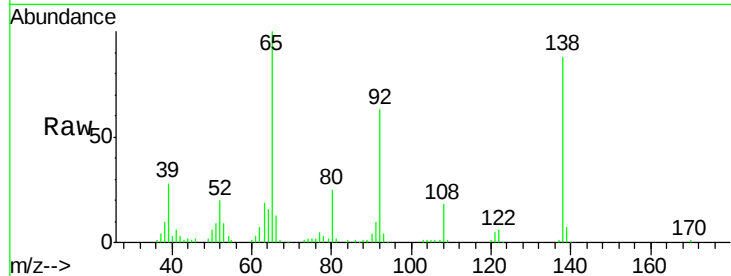
Tgt Ion: 65 Resp: 75024

Ion Ratio Lower Upper

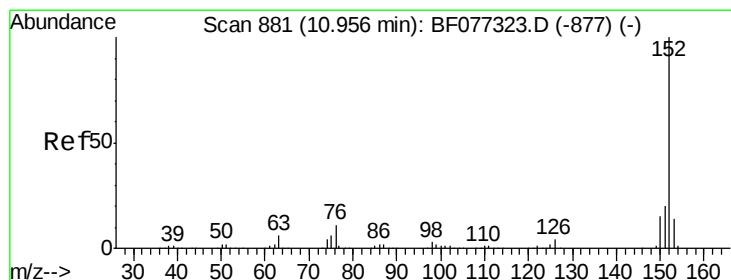
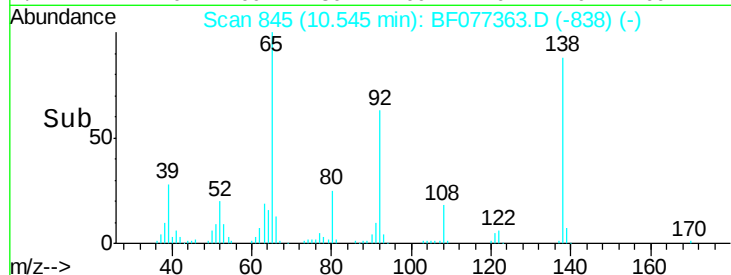
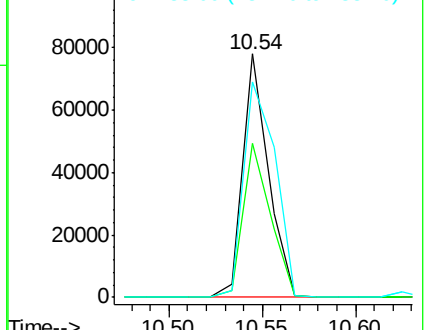
65 100

92 63.2 52.3 78.5

138 88.4 73.2 109.8



Abundance Ion 65.00 (64.70 to 65.70): BF0
Ion 92.00 (91.70 to 92.70): BF0
Ion 138.00 (137.70 to 138.70): E



#48

Acenaphthylene

Concen: 48.96 ng

RT: 10.93 min Scan# 879

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

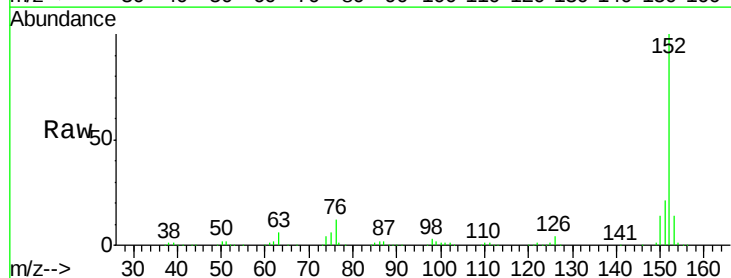
Tgt Ion: 152 Resp: 476360

Ion Ratio Lower Upper

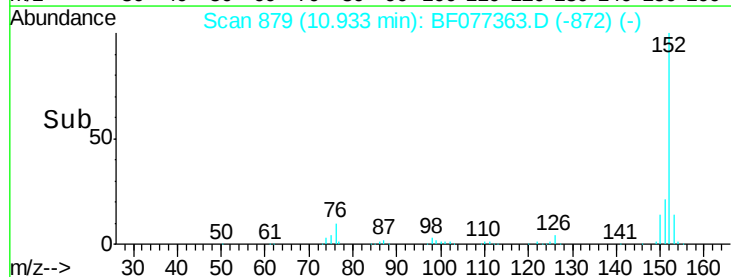
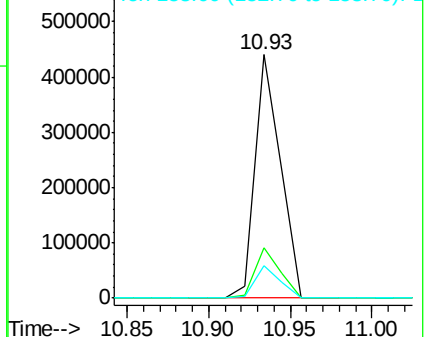
152 100

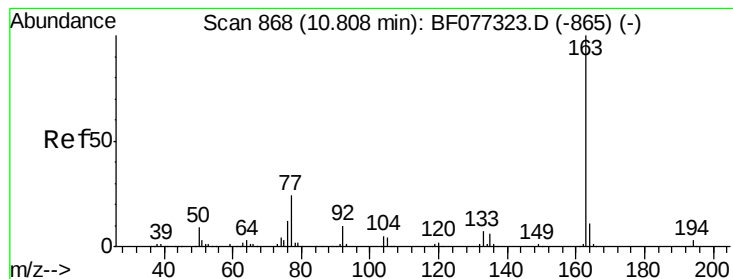
151 20.5 16.3 24.5

153 13.5 10.9 16.3



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#49

Dimethylphthalate

Concen: 48.53 ng

RT: 10.78 min Scan# 866

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

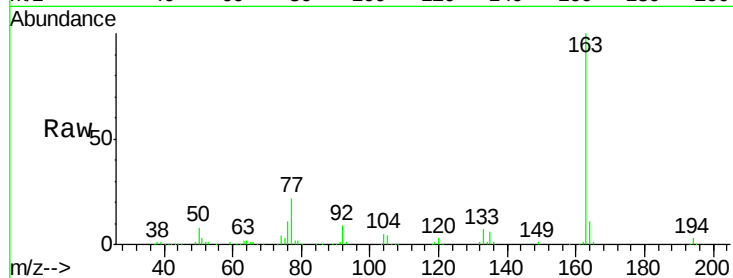
Tgt Ion:163 Resp: 332740

Ion Ratio Lower Upper

163 100

194 3.1 2.6 3.8

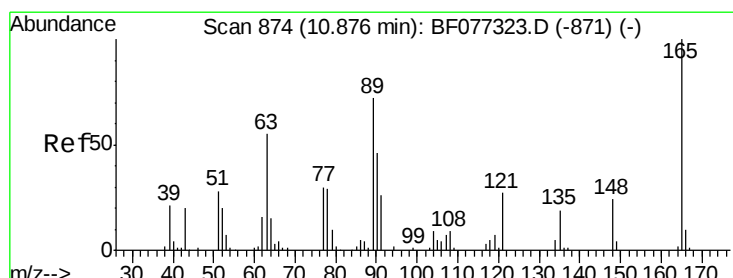
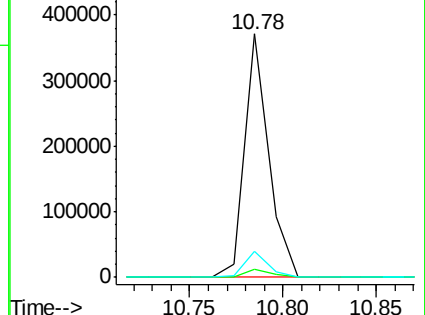
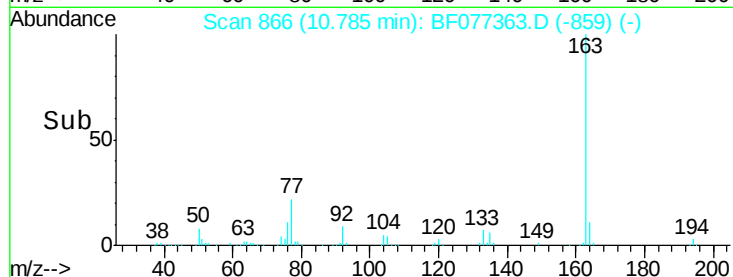
164 10.6 8.4 12.6



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



#50

2,6-Dinitrotoluene

Concen: 53.45 ng

RT: 10.85 min Scan# 872

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

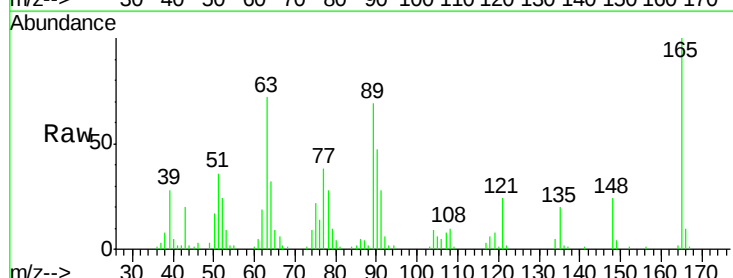
Tgt Ion:165 Resp: 67953

Ion Ratio Lower Upper

165 100

63 72.4 57.2 85.8

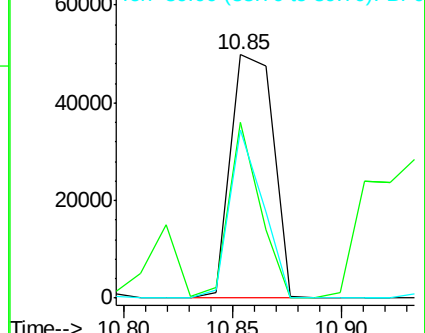
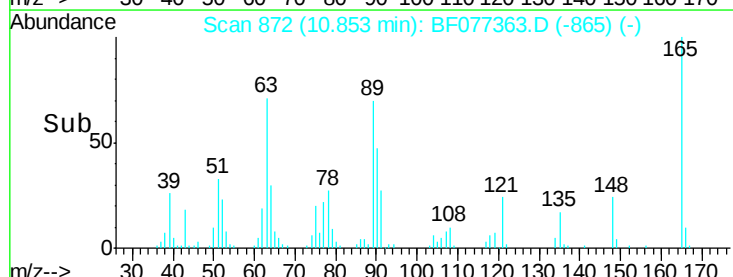
89 69.2 57.8 86.6

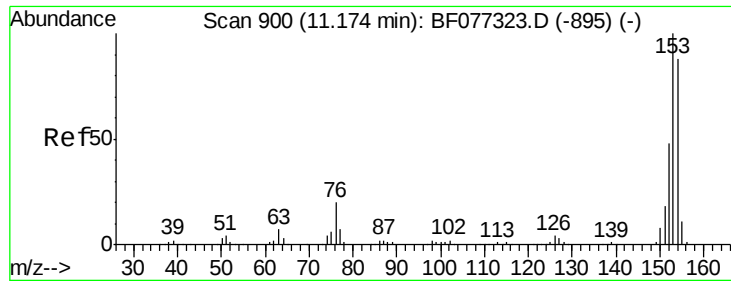


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 47.81 ng

RT: 11.15 min Scan# 898

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

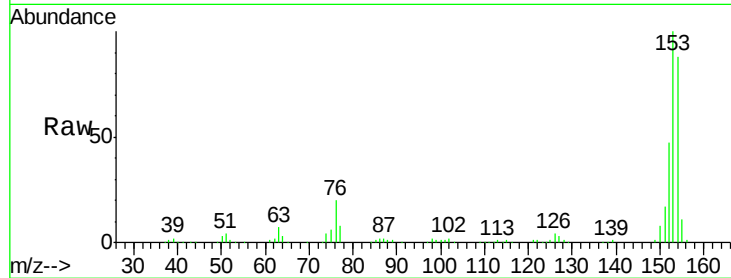
Tgt Ion:154 Resp: 276110

Ion Ratio Lower Upper

154 100

153 113.5 90.9 136.3

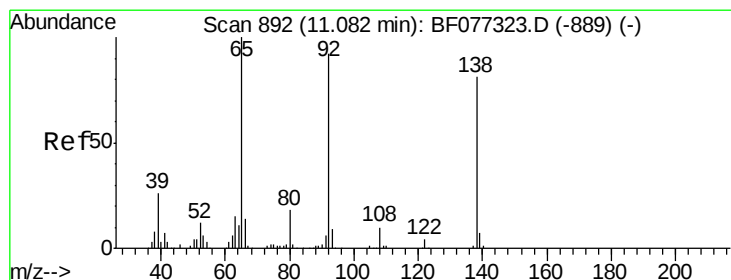
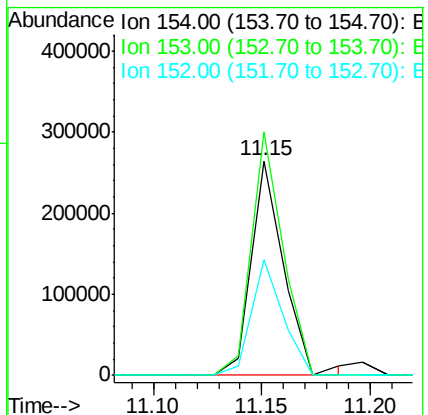
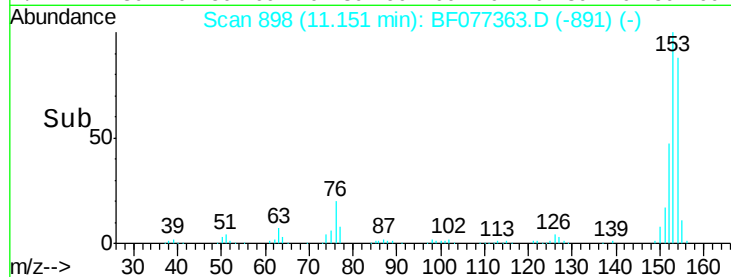
152 53.7 43.5 65.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#52

3-Nitroaniline

Concen: 9.93 ng

RT: 11.06 min Scan# 890

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

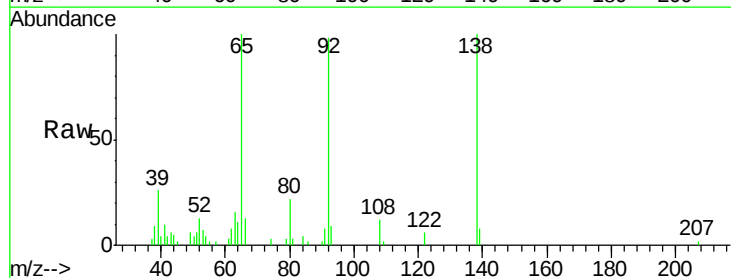
Tgt Ion:138 Resp: 14808

Ion Ratio Lower Upper

138 100

108 12.2 10.2 15.2

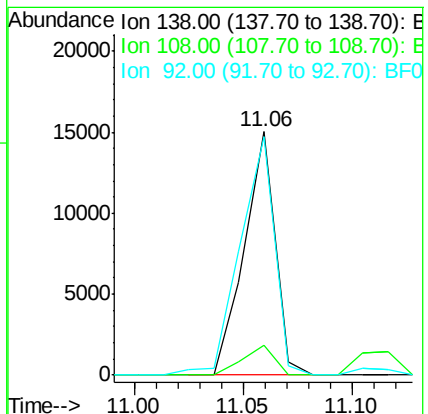
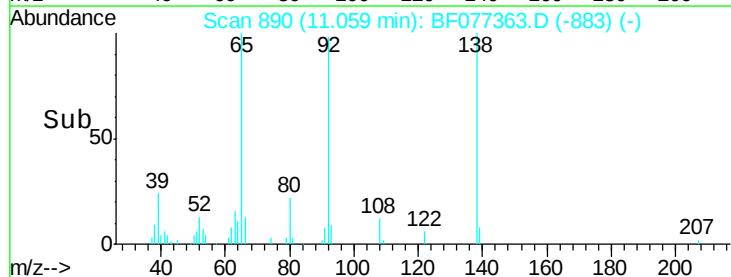
92 97.8 90.9 136.3

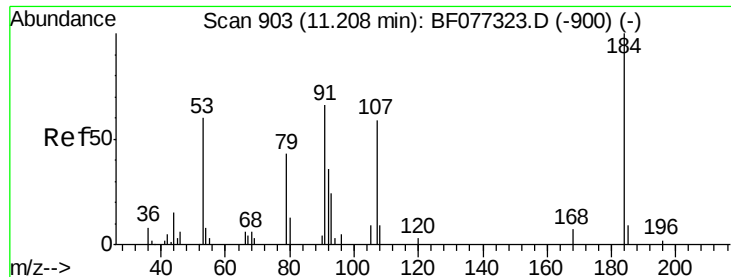


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0

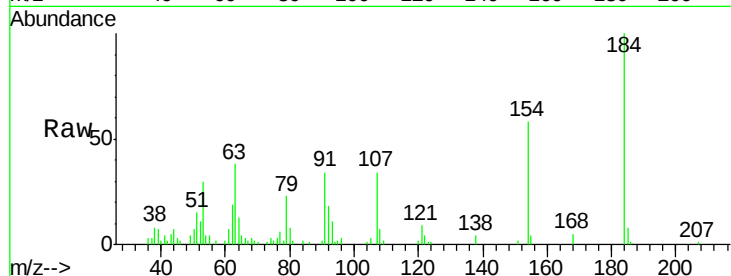




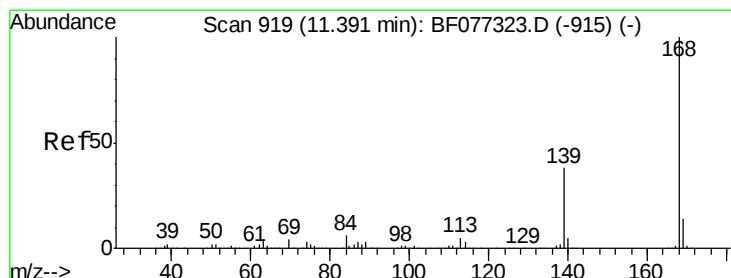
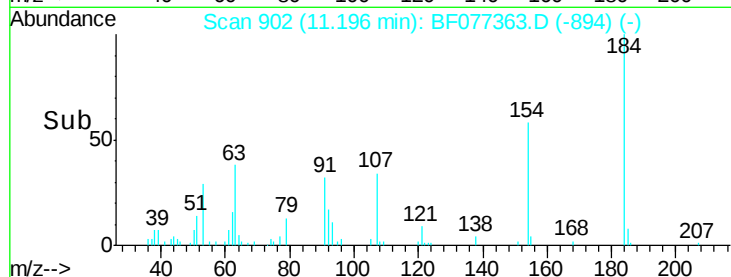
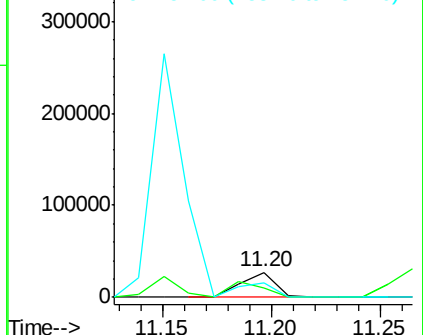
#53
2,4-Dinitrophenol
Concen: 148.87 ng
RT: 11.20 min Scan# 902
Delta R.T. -0.01 min
Lab File: BF077363.D
Acq: 18 Feb 2015 20:30

Instrument :
BNA_F
ClientSampleId :
SOIL-CHARACTERIZATIONMSD

Tgt Ion:184 Resp: 29490
Ion Ratio Lower Upper
184 100
63 37.6 69.3 103.9#
154 58.0 56.3 84.5

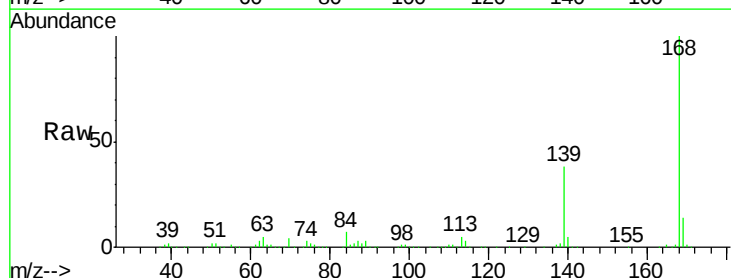


Abundance Ion 184.00 (183.70 to 184.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 154.00 (153.70 to 154.70): E

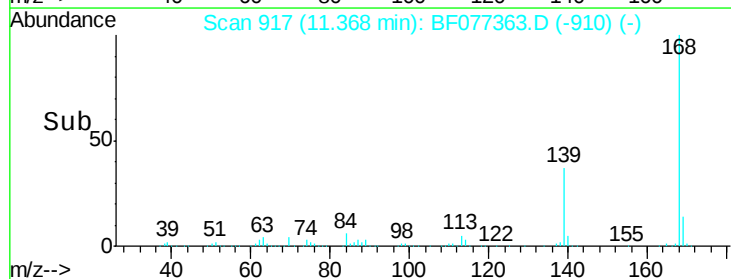
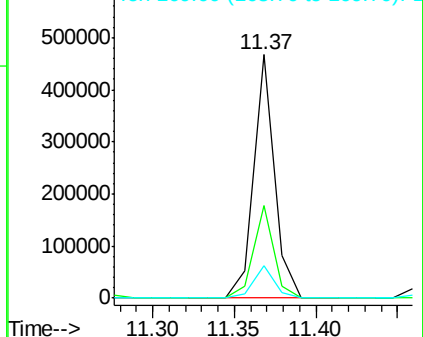


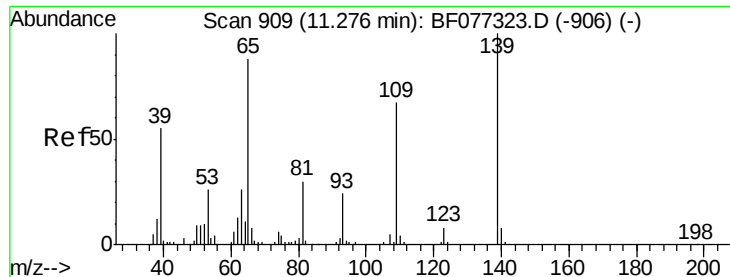
#54
Dibenzofuran
Concen: 47.16 ng
RT: 11.37 min Scan# 917
Delta R.T. -0.02 min
Lab File: BF077363.D
Acq: 18 Feb 2015 20:30

Tgt Ion:168 Resp: 413134
Ion Ratio Lower Upper
168 100
139 37.8 30.6 45.8
169 13.5 11.0 16.4



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

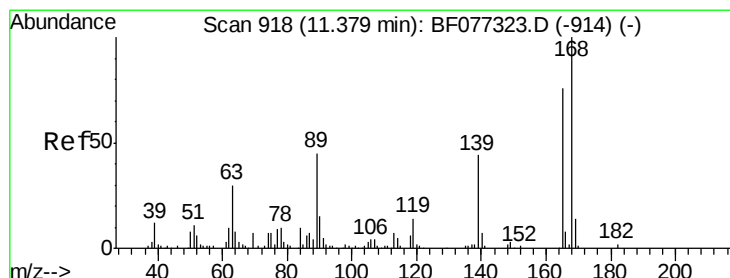
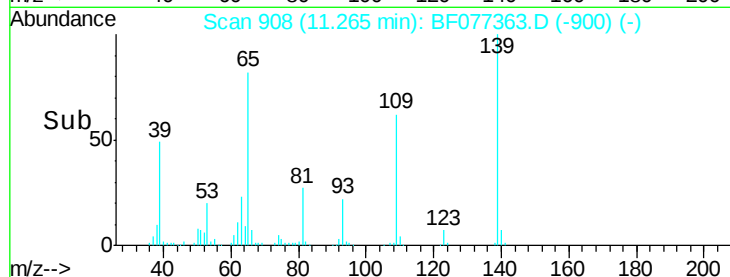
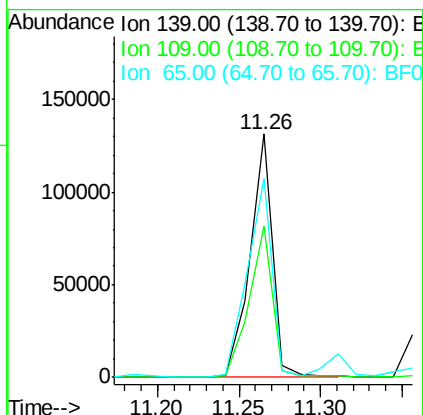
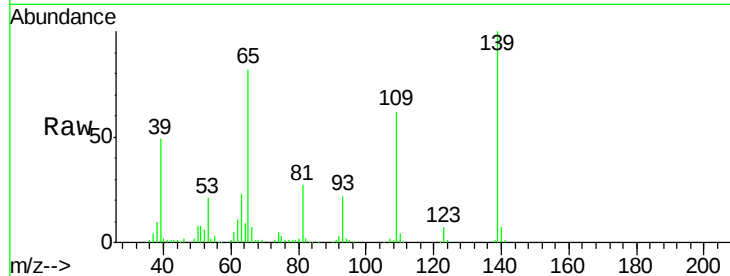




#55
4-Nitrophenol
Concen: 121.30 ng
RT: 11.26 min Scan# 908
Delta R.T. -0.01 min
Lab File: BF077363.D
Acq: 18 Feb 2015 20:30

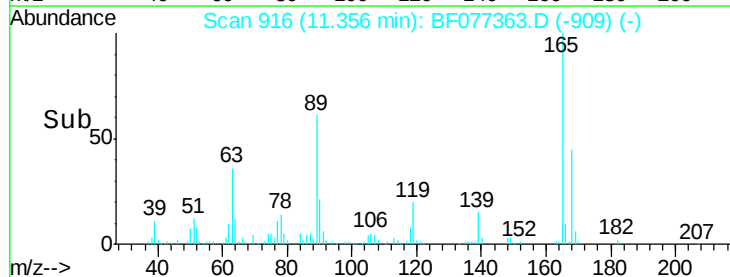
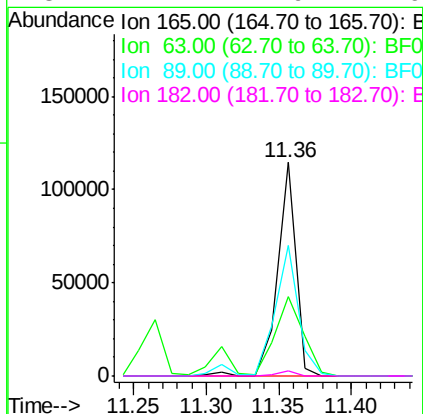
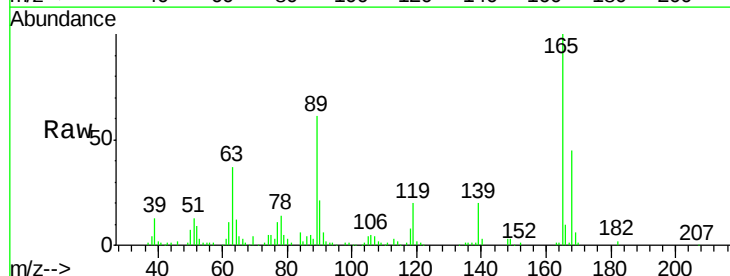
Instrument :
BNA_F
ClientSampleId :
SOIL-CHARACTERIZATIONMSD

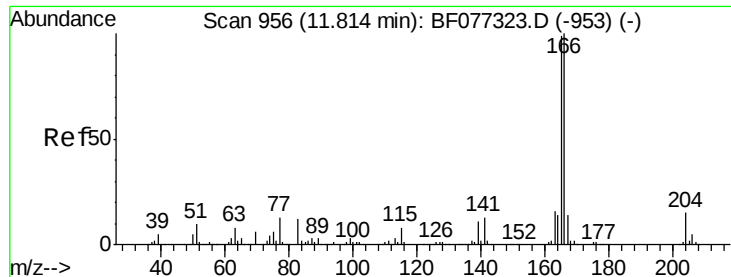
Tgt Ion:139 Resp: 125005
Ion Ratio Lower Upper
139 100
109 62.2 47.5 87.5
65 81.8 67.8 107.8



#56
2,4-Dinitrotoluene
Concen: 62.17 ng
RT: 11.36 min Scan# 916
Delta R.T. -0.02 min
Lab File: BF077363.D
Acq: 18 Feb 2015 20:30

Tgt Ion:165 Resp: 100207
Ion Ratio Lower Upper
165 100
63 37.1 31.6 47.4
89 60.9 48.1 72.1
182 2.1 1.9 2.9

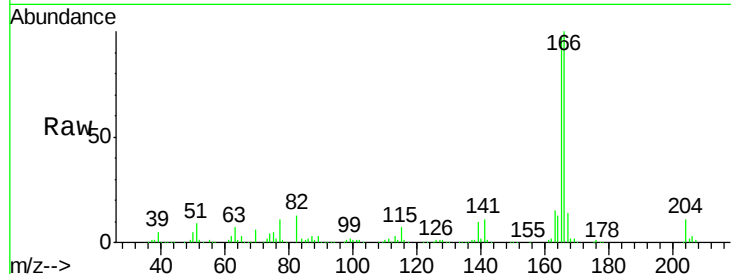




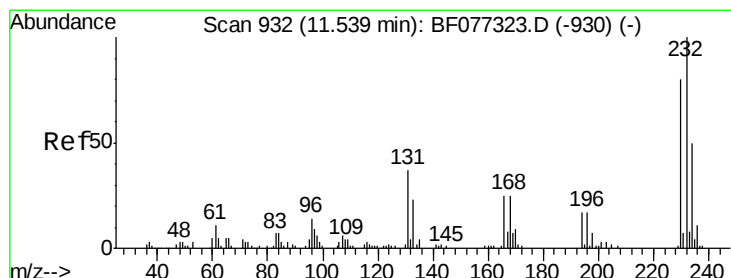
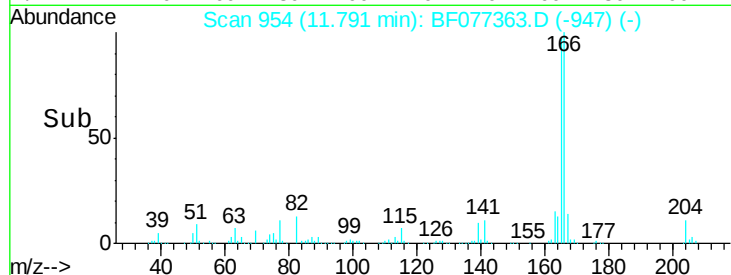
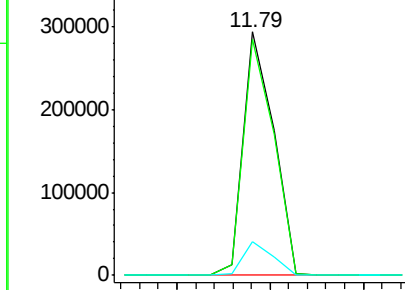
#57
 Fluorene
 Concen: 48.23 ng
 RT: 11.79 min Scan# 954
 Delta R.T. -0.02 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMSD

Tgt Ion:166 Resp: 331533
 Ion Ratio Lower Upper
 166 100
 165 97.1 79.2 118.8
 167 13.7 11.0 16.6

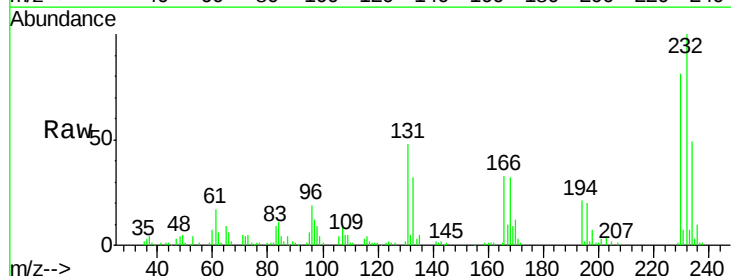


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

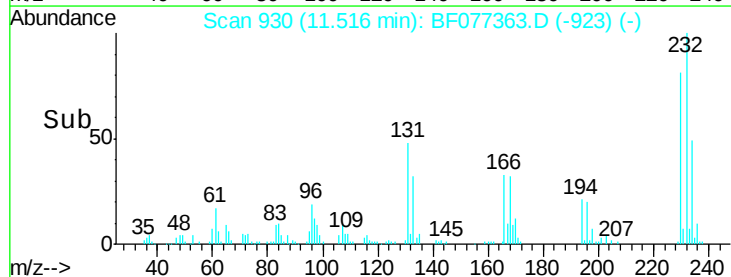
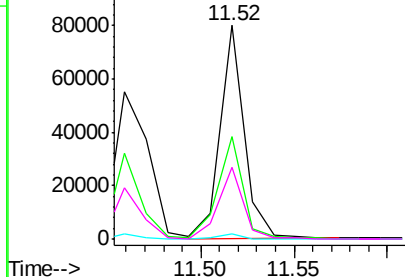


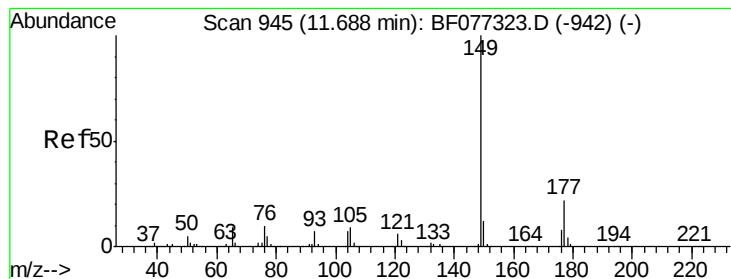
#58
 2,3,4,6-Tetrachlorophenol
 Concen: 50.95 ng
 RT: 11.52 min Scan# 930
 Delta R.T. -0.02 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Tgt Ion:232 Resp: 71697
 Ion Ratio Lower Upper
 232 100
 131 50.8 37.5 56.3
 130 2.1 1.7 2.5
 166 34.8 24.0 36.0



Abundance Ion 232.00 (231.70 to 232.70): E
 Ion 131.00 (130.70 to 131.70): E
 Ion 130.00 (129.70 to 130.70): E
 Ion 166.00 (165.70 to 166.70): E





#59

Diethylphthalate

Concen: 48.51 ng

RT: 11.66 min Scan# 943

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

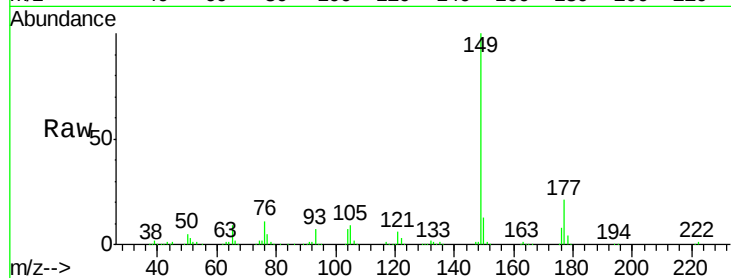
Tgt Ion:149 Resp: 346258

Ion Ratio Lower Upper

149 100

177 20.6 17.5 26.3

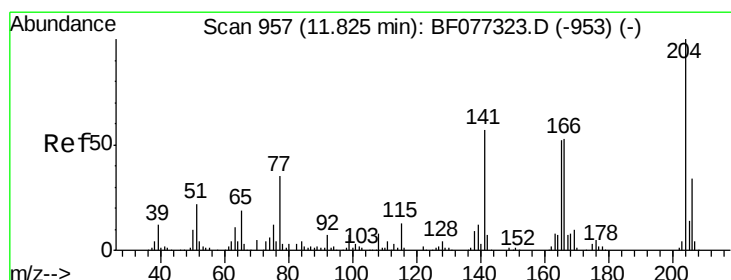
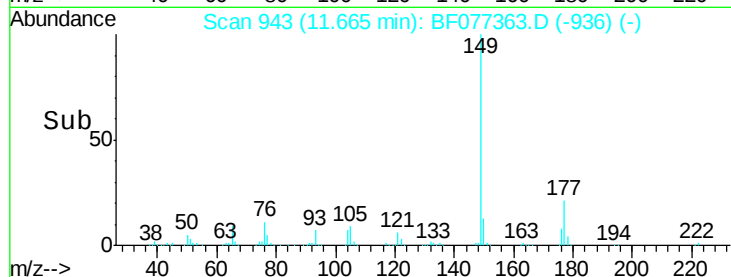
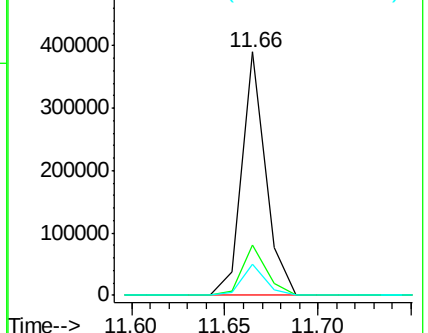
150 12.6 9.9 14.9



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E



#60

4-Chlorophenyl-phenylether

Concen: 45.96 ng

RT: 11.80 min Scan# 955

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

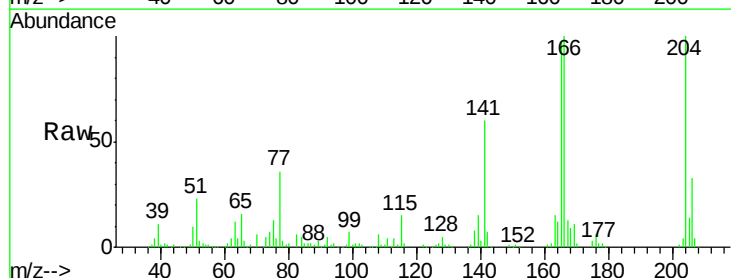
Tgt Ion:204 Resp: 153677

Ion Ratio Lower Upper

204 100

206 32.9 26.8 40.2

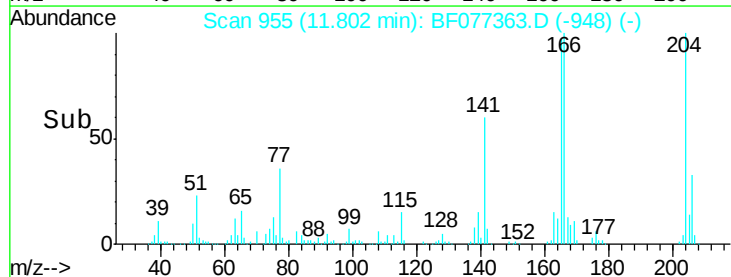
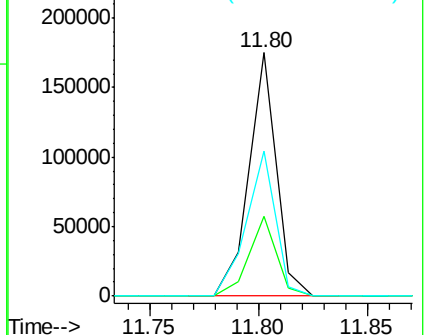
141 59.7 45.3 67.9

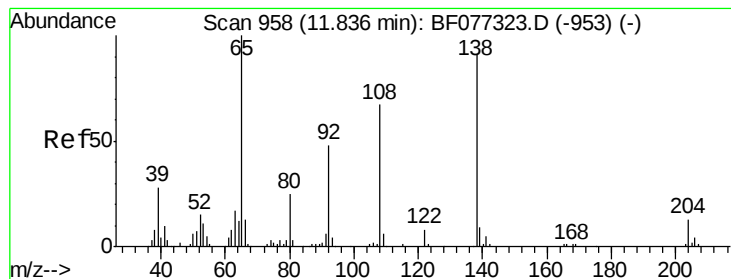


Abundance Ion 204.00 (203.70 to 204.70): E

Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E





#61

4-Nitroaniline

Concen: 44.25 ng

RT: 11.81 min Scan# 956

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

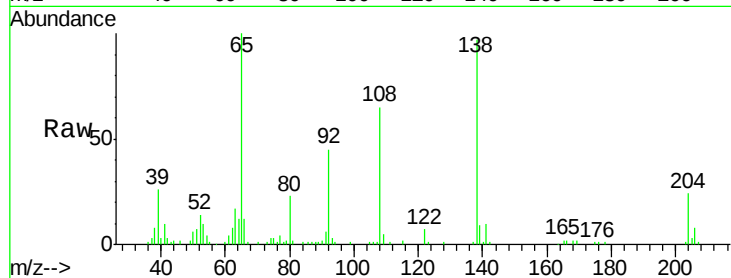
Tgt Ion: 138 Resp: 64478

Ion Ratio Lower Upper

138 100

92 47.1 32.7 72.7

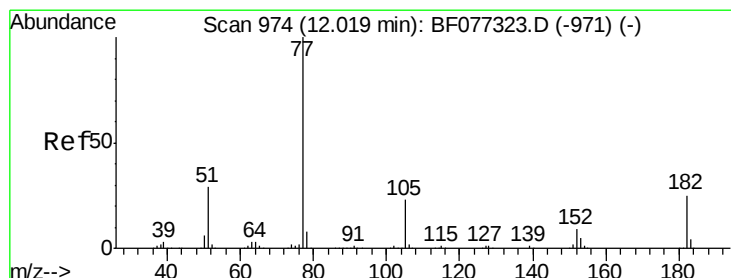
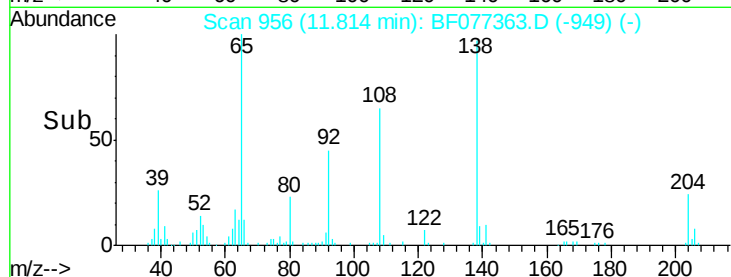
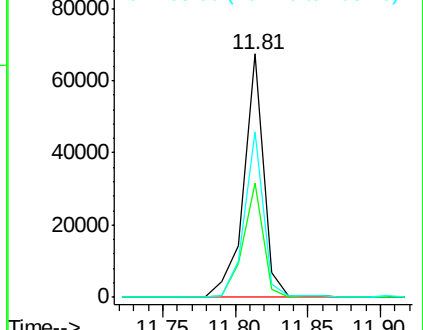
108 67.8 53.9 93.9



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BF0

Ion 108.00 (107.70 to 108.70): E



#62

Azobenzene

Concen: 44.84 ng

RT: 12.00 min Scan# 972

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Tgt Ion: 77 Resp: 317065

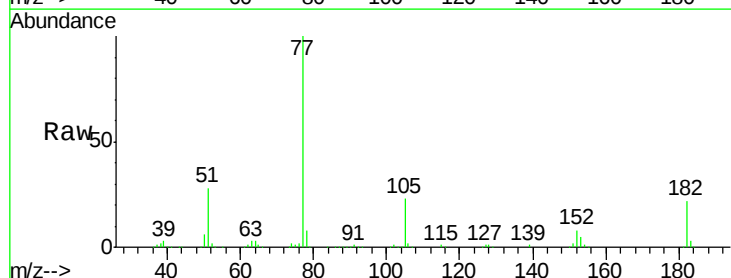
Ion Ratio Lower Upper

77 100

182 21.8 5.0 45.0

105 22.9 3.3 43.3

51 28.4 9.1 49.1

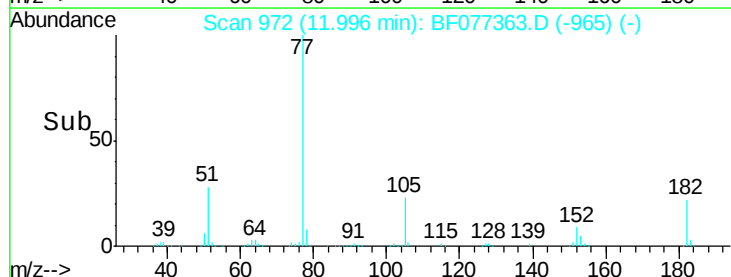
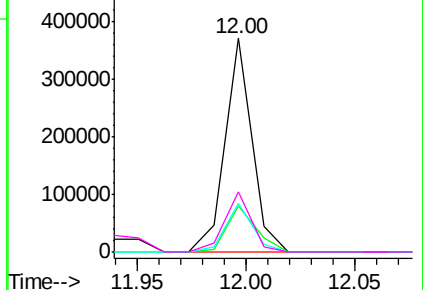


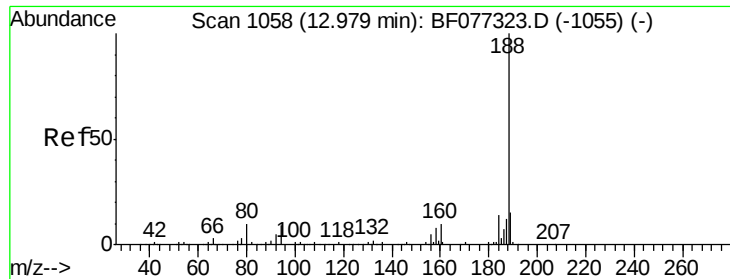
Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF0





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.96 min Scan# 1056

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

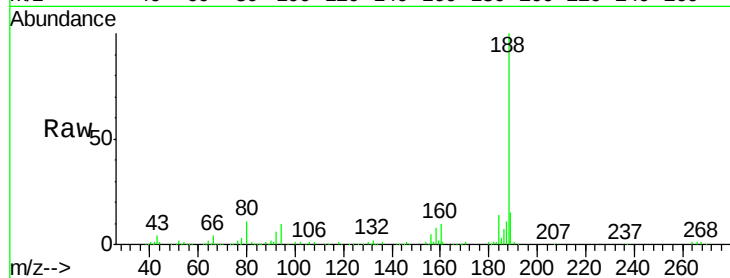
Tgt Ion:188 Resp: 199647

Ion Ratio Lower Upper

188 100

94 10.4 7.2 10.8

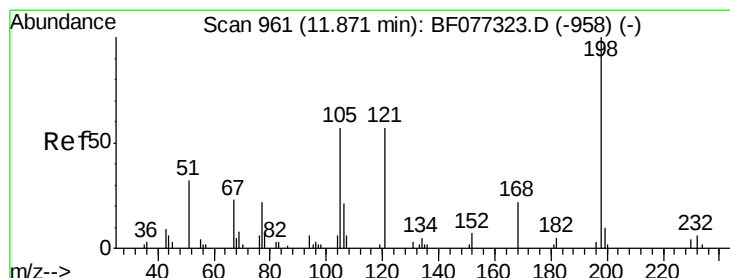
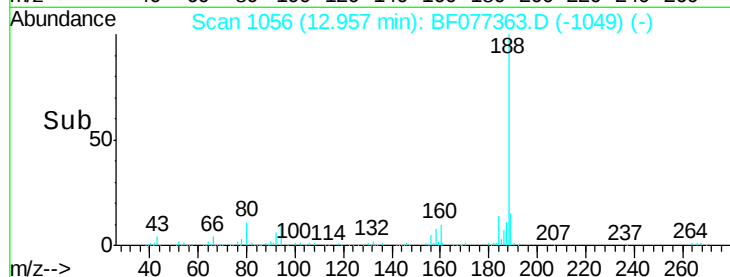
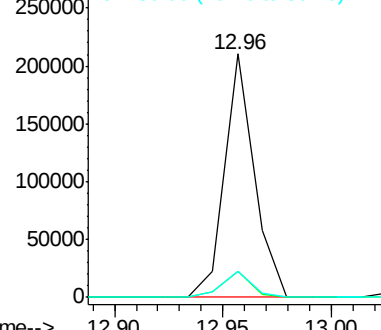
80 10.8 7.8 11.8



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: 60.39 ng

RT: 11.86 min Scan# 960

Delta R.T. -0.01 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

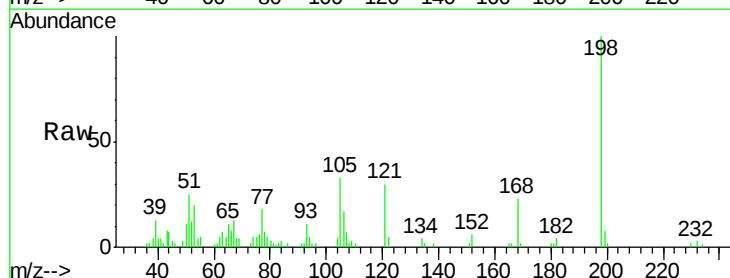
Tgt Ion:198 Resp: 22602

Ion Ratio Lower Upper

198 100

51 25.5 54.6 94.6#

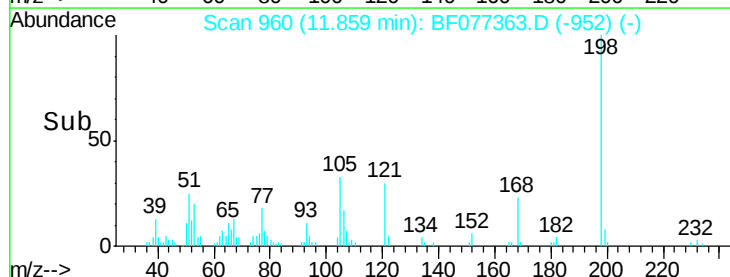
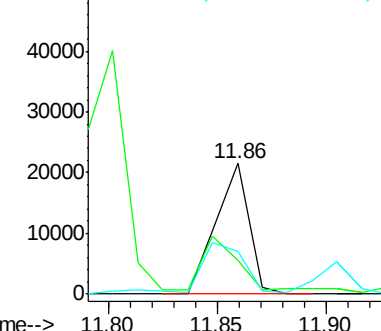
105 33.1 45.4 85.4#

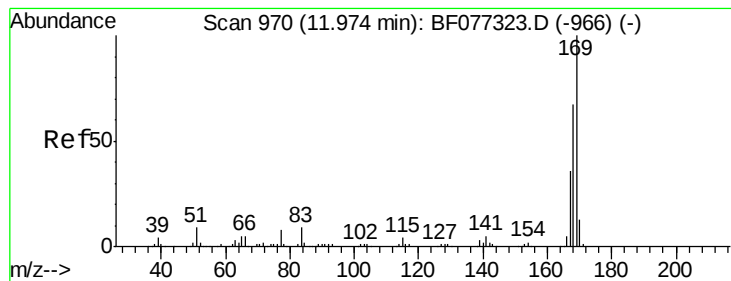


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E





#65

n-Nitrosodiphenylamine

Concen: 44.95 ng

RT: 11.95 min Scan# 968

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

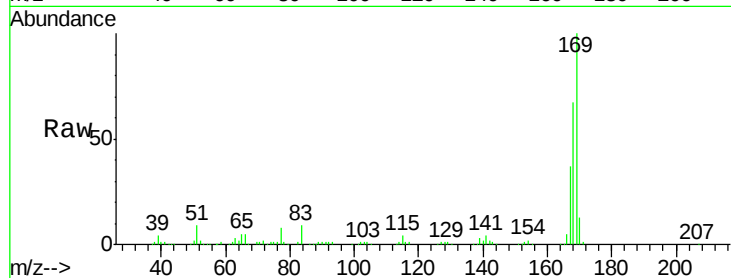
Tgt Ion:169 Resp: 292719

Ion Ratio Lower Upper

169 100

168 66.9 53.4 80.0

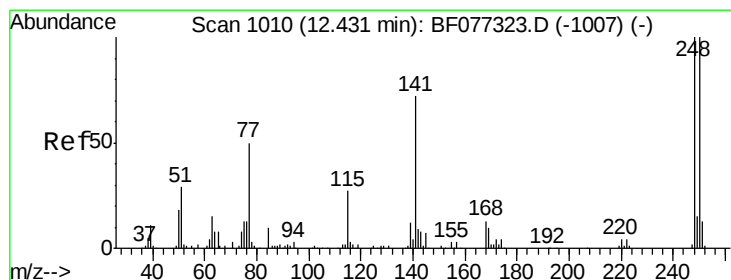
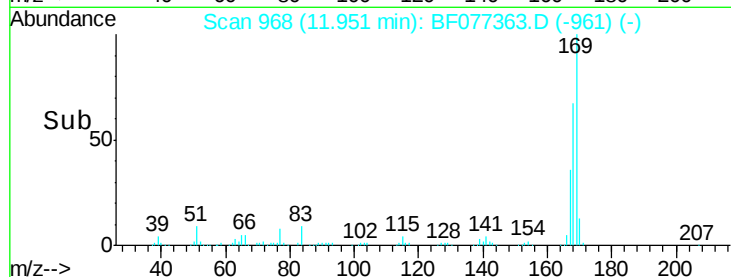
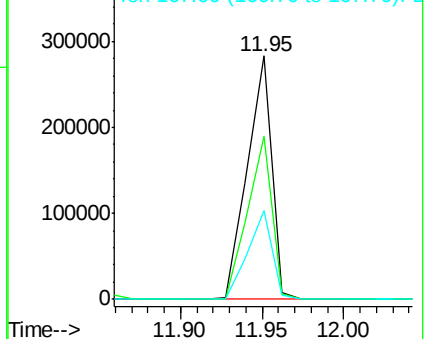
167 36.5 29.1 43.7



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#66

4-Bromophenyl-phenylether

Concen: 41.93 ng

RT: 12.41 min Scan# 1008

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

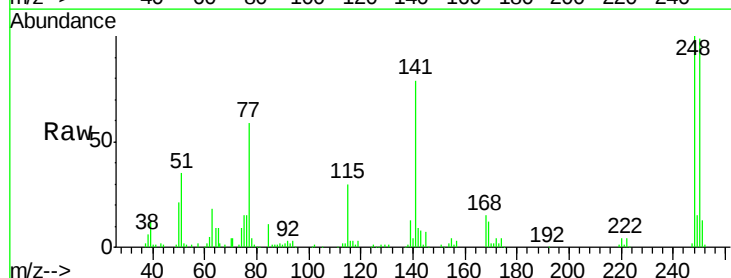
Tgt Ion:248 Resp: 93324

Ion Ratio Lower Upper

248 100

250 99.2 80.2 120.4

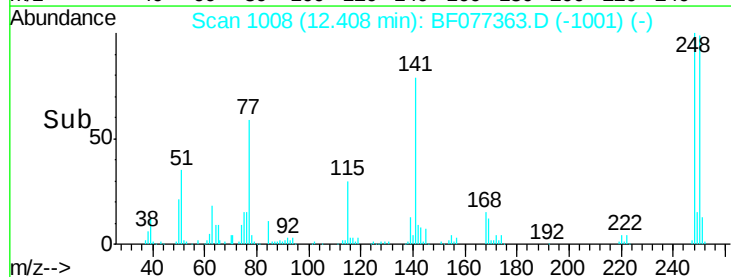
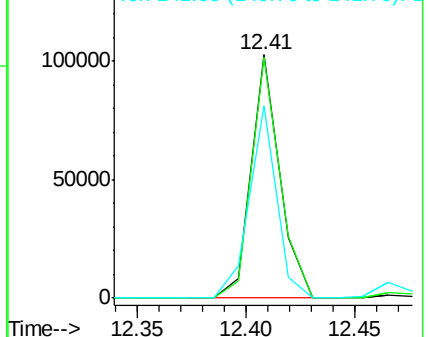
141 79.2 57.5 86.3

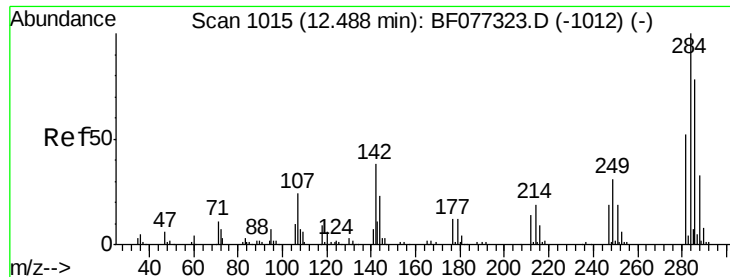


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#67

Hexachlorobenzene

Concen: 43.24 ng

RT: 12.48 min Scan# 1014

Delta R.T. -0.01 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

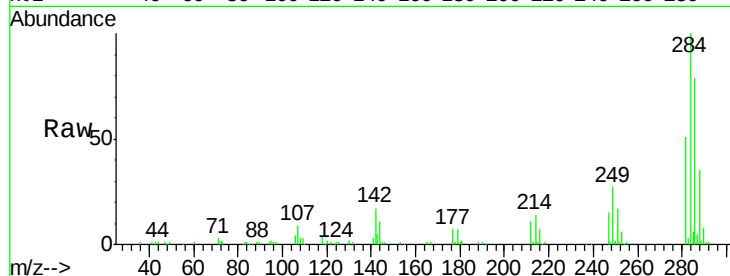
Tgt Ion:284 Resp: 109193

Ion Ratio Lower Upper

284 100

142 17.4 30.8 46.2#

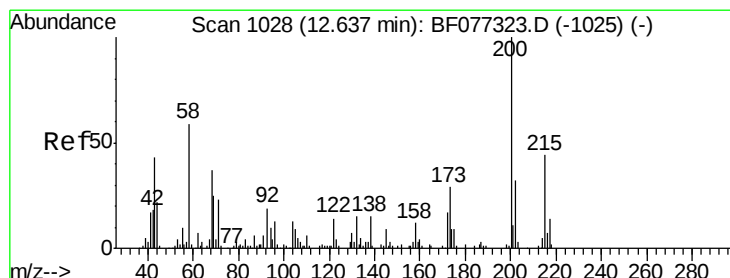
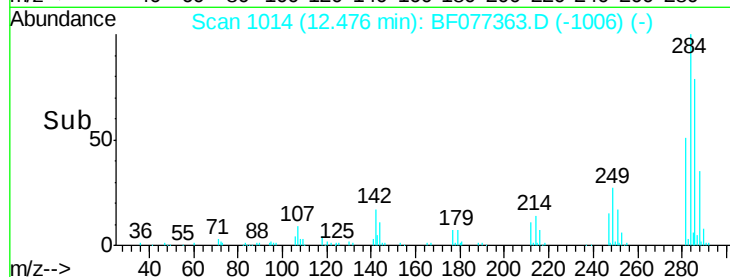
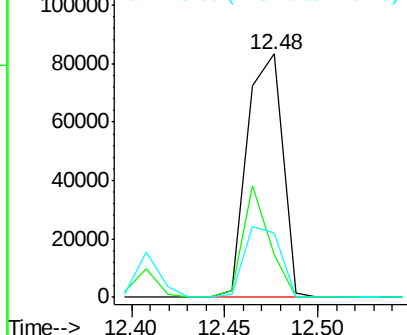
249 26.6 24.6 36.8



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#68

Atrazine

Concen: 45.60 ng

RT: 12.61 min Scan# 1026

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

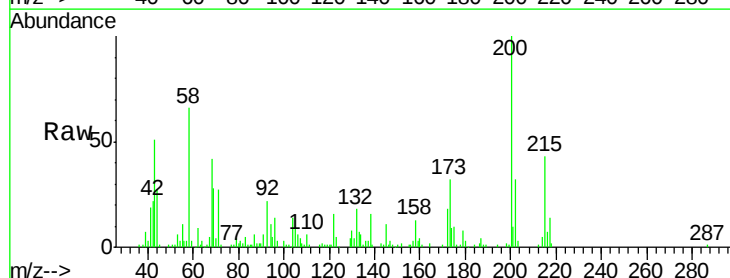
Tgt Ion:200 Resp: 88752

Ion Ratio Lower Upper

200 100

173 32.5 9.2 49.2

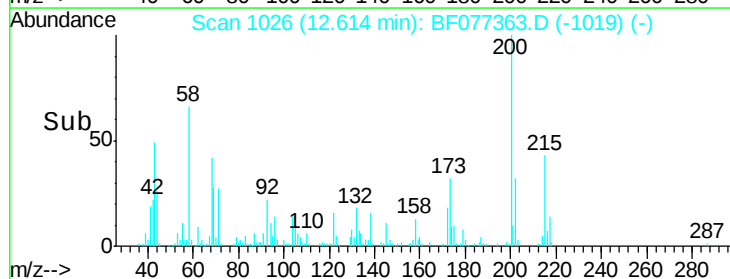
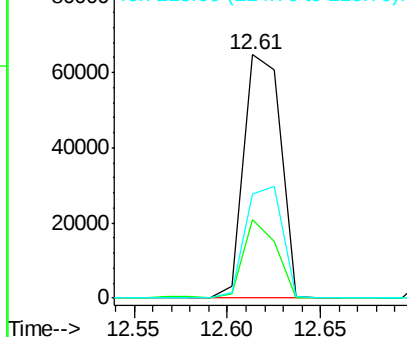
215 43.0 23.8 63.8

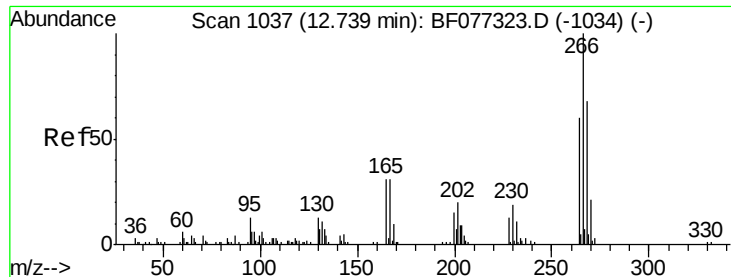


Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E

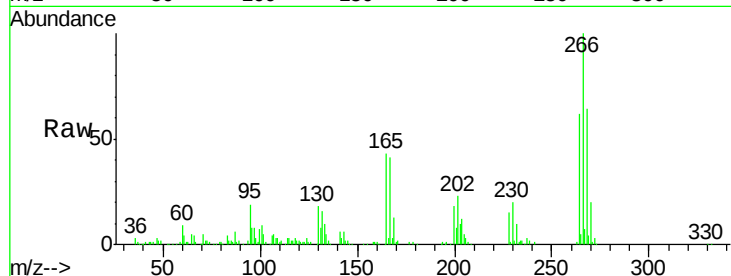




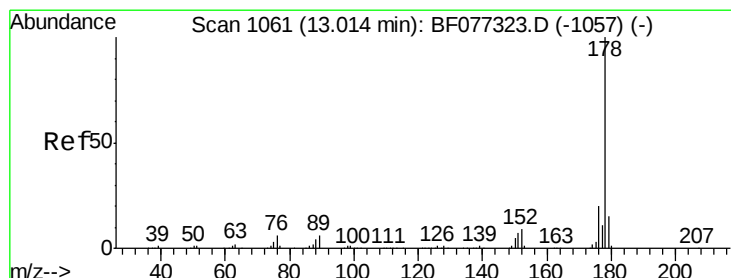
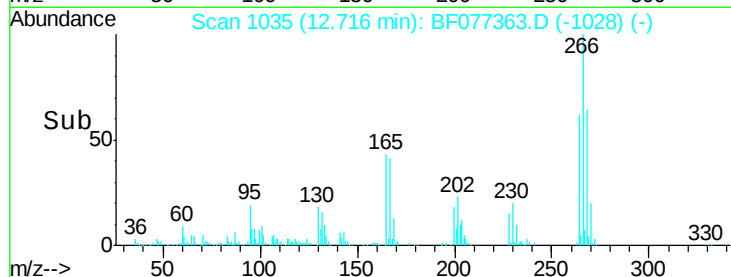
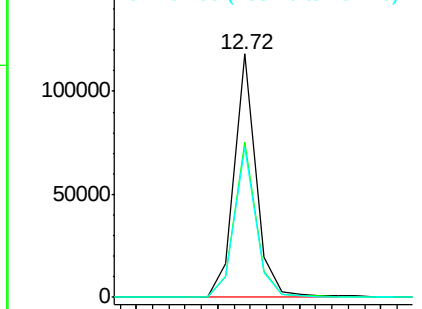
#69
 Pentachlorophenol
 Concen: 121.70 ng
 RT: 12.72 min Scan# 1035
 Delta R.T. -0.02 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMSD

Tgt Ion:266 Resp: 109403
 Ion Ratio Lower Upper
 266 100
 268 63.8 54.0 81.0
 264 61.7 48.2 72.2

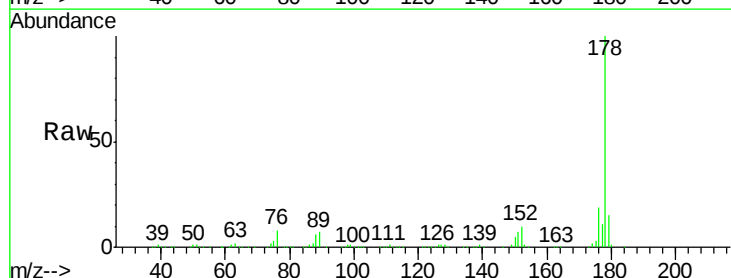


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

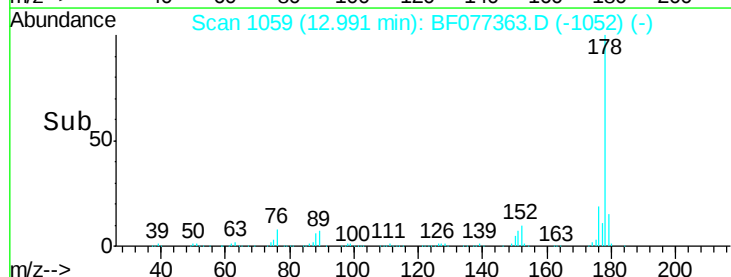
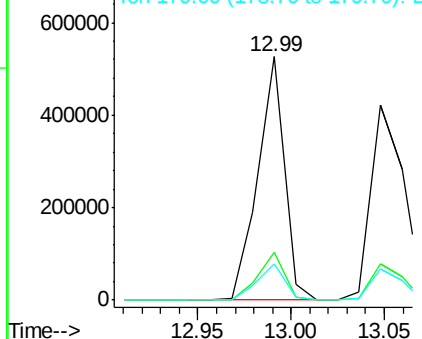


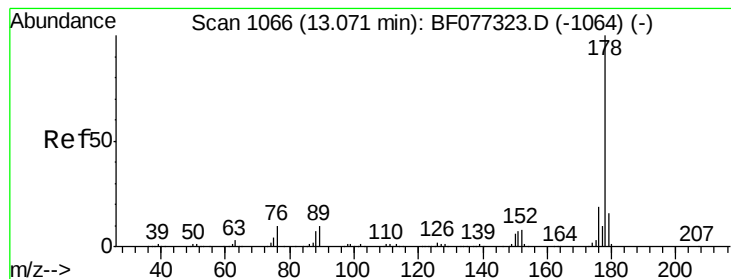
#70
 Phenanthrene
 Concen: 44.63 ng
 RT: 12.99 min Scan# 1059
 Delta R.T. -0.02 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Tgt Ion:178 Resp: 517724
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.6 23.4
 179 15.1 12.3 18.5



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





#71

Anthracene

Concen: 43.17 ng

RT: 13.05 min Scan# 1064

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

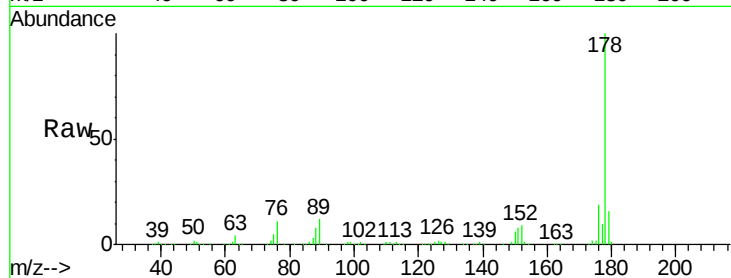
Tgt Ion:178 Resp: 497981

Ion Ratio Lower Upper

178 100

176 18.5 15.3 22.9

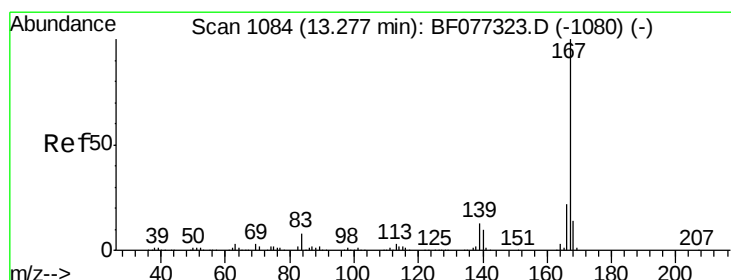
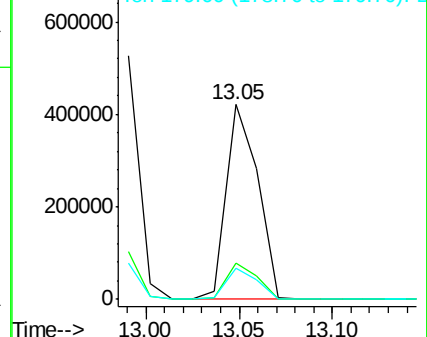
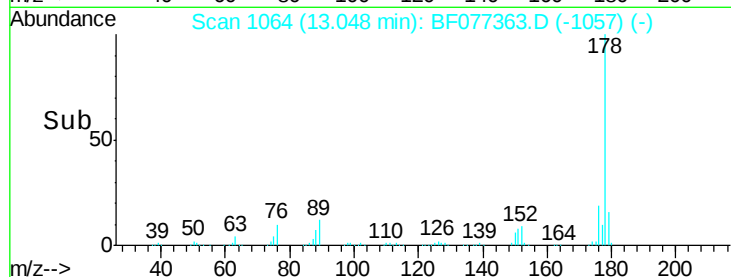
179 16.1 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 47.33 ng

RT: 13.25 min Scan# 1082

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

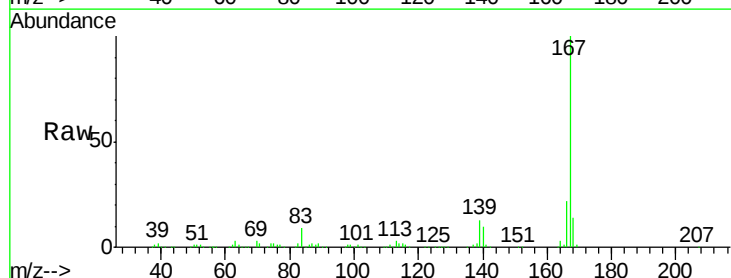
Tgt Ion:167 Resp: 479999

Ion Ratio Lower Upper

167 100

166 21.9 17.4 26.2

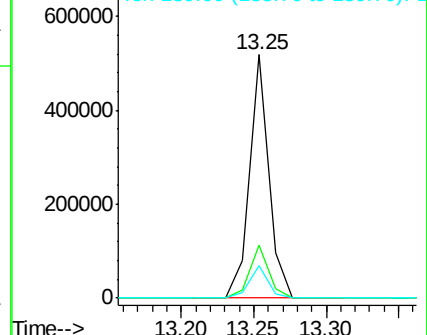
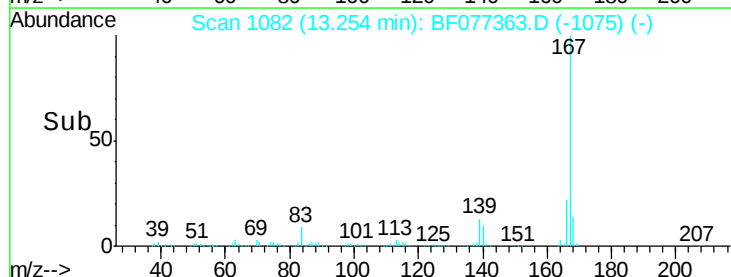
139 13.2 10.6 15.8

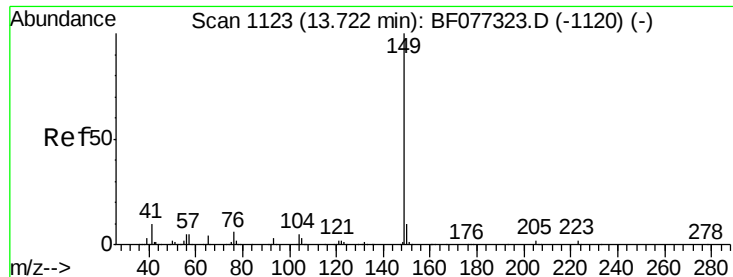


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

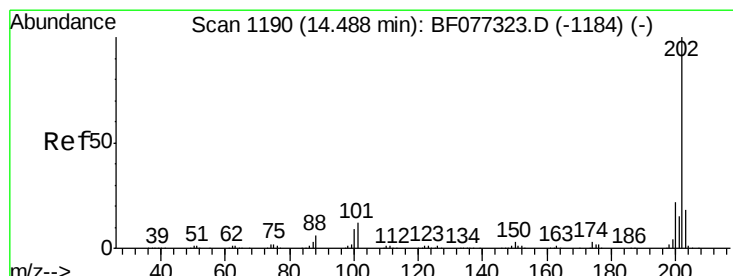
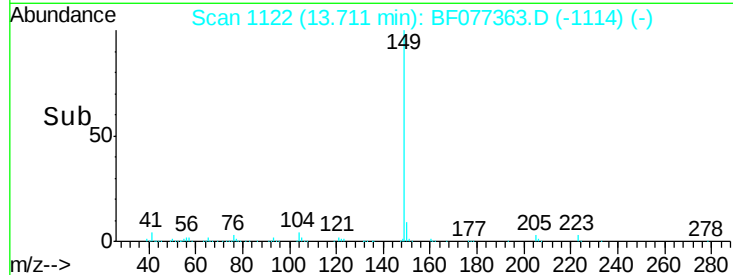
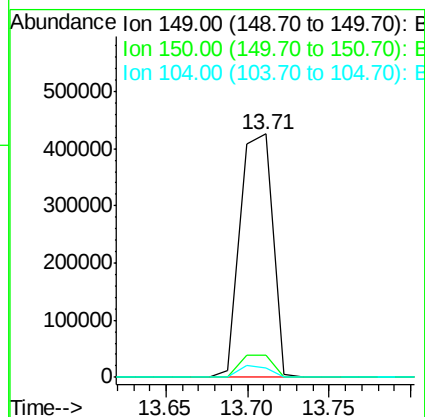
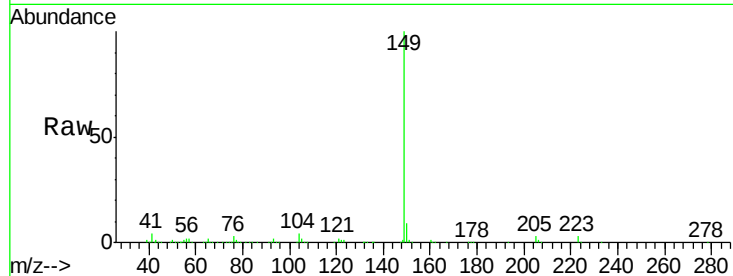




#73
Di-n-butylphthalate
Concen: 46.80 ng
RT: 13.71 min Scan# 1122
Delta R.T. -0.01 min
Lab File: BF077363.D
Acq: 18 Feb 2015 20:30

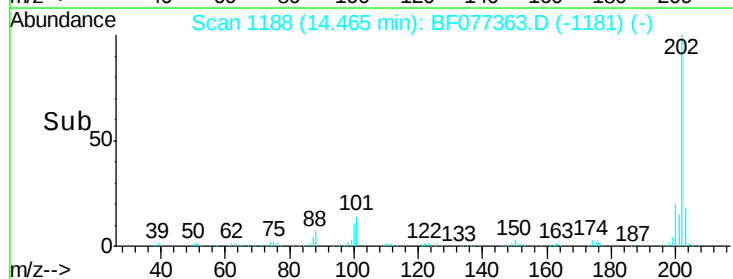
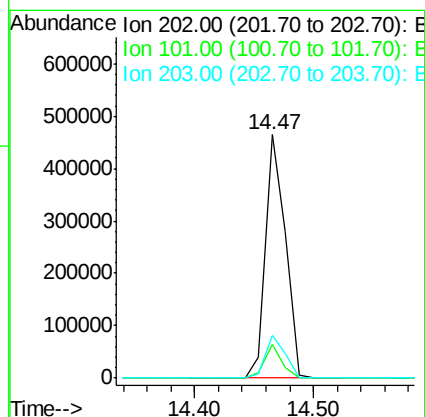
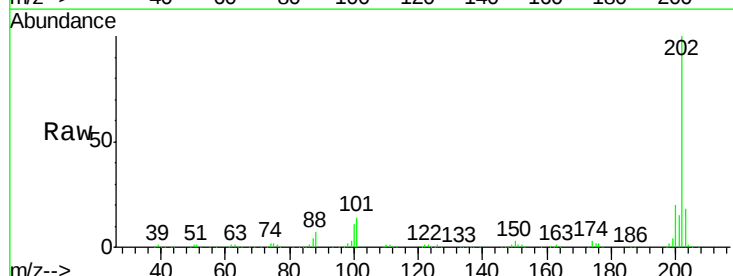
Instrument :
BNA_F
ClientSampleId :
SOIL-CHARACTERIZATIONMSD

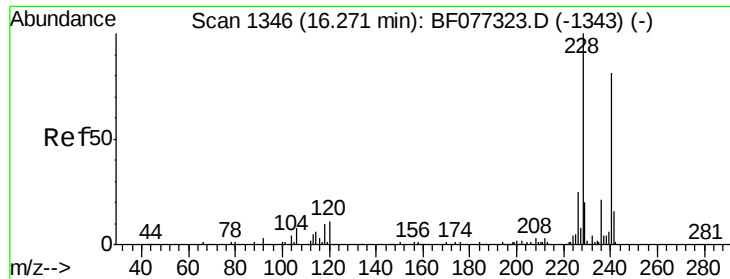
Tgt Ion:149 Resp: 584385
Ion Ratio Lower Upper
149 100
150 8.9 7.7 11.5
104 3.6 4.3 6.5#



#74
Fluoranthene
Concen: 46.35 ng
RT: 14.47 min Scan# 1188
Delta R.T. -0.02 min
Lab File: BF077363.D
Acq: 18 Feb 2015 20:30

Tgt Ion:202 Resp: 542898
Ion Ratio Lower Upper
202 100
101 14.0 0.0 32.4
203 17.5 0.0 37.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.26 min Scan# 1345

Delta R.T. -0.01 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

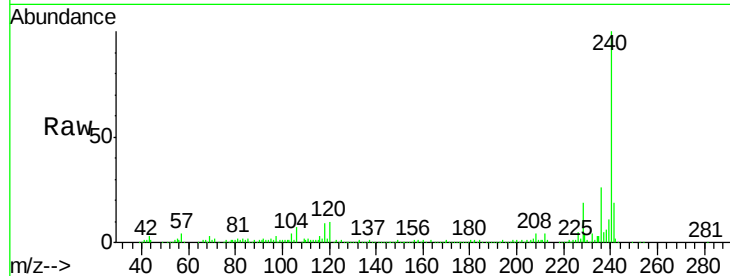
Tgt Ion:240 Resp: 198360

Ion Ratio Lower Upper

240 100

120 10.0 11.3 16.9#

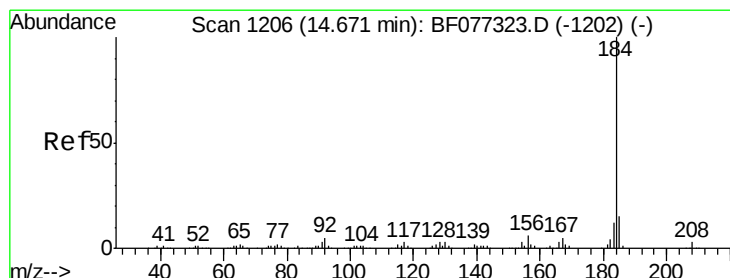
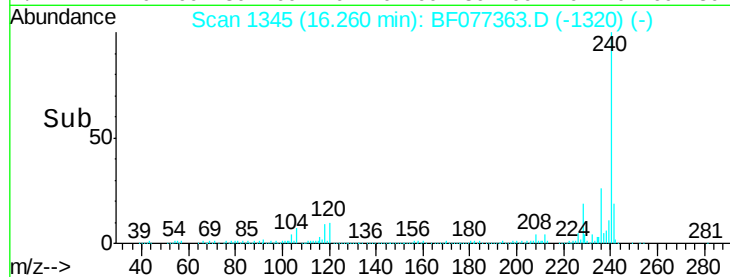
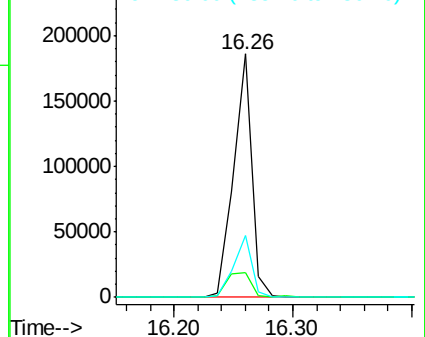
236 25.6 20.3 30.5



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: 9.39 ng

RT: 14.65 min Scan# 1204

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

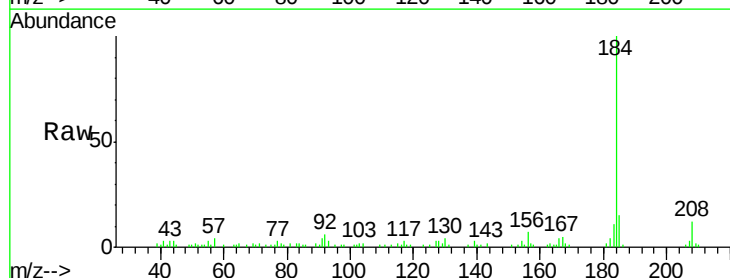
Tgt Ion:184 Resp: 57246

Ion Ratio Lower Upper

184 100

185 14.7 12.3 18.5

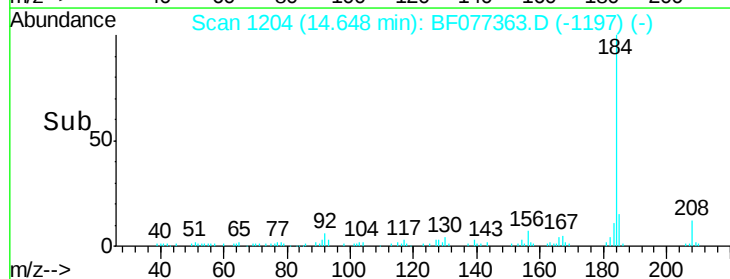
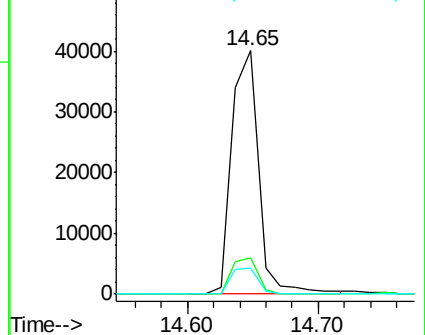
183 10.8 9.3 13.9

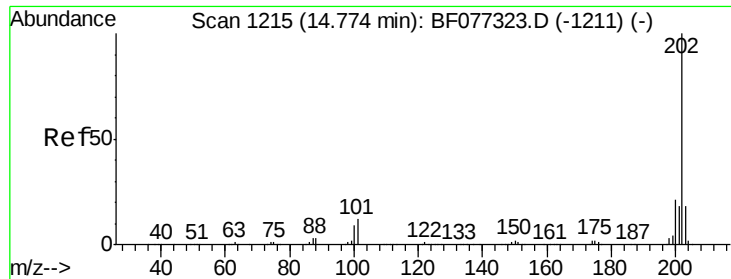


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

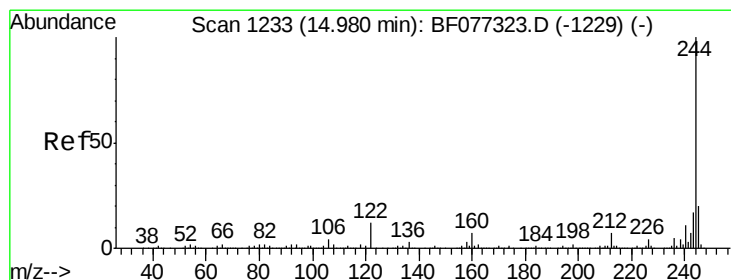
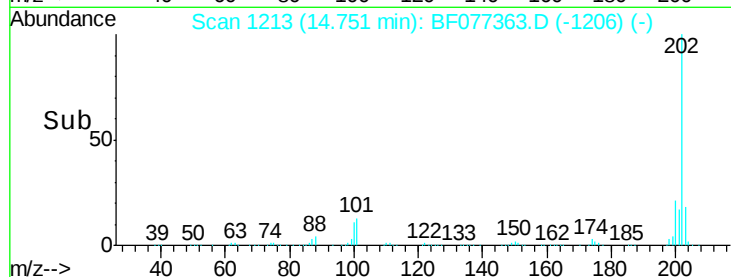
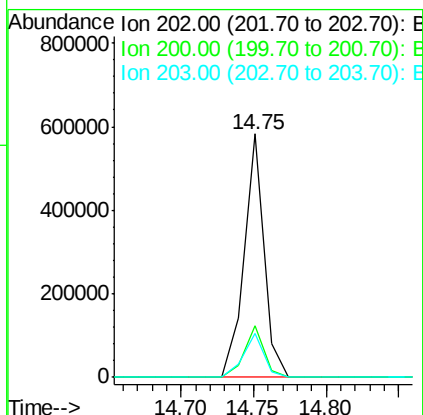
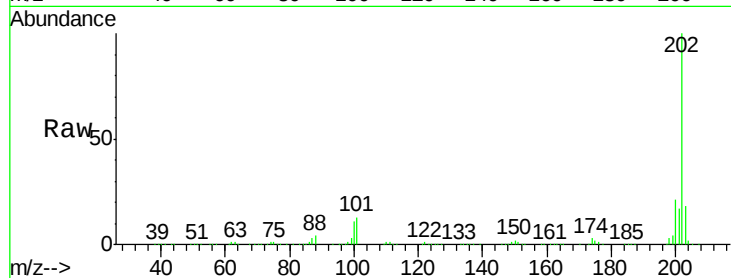




#77
 Pyrene
 Concen: 45.35 ng
 RT: 14.75 min Scan# 1213
 Delta R.T. -0.02 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

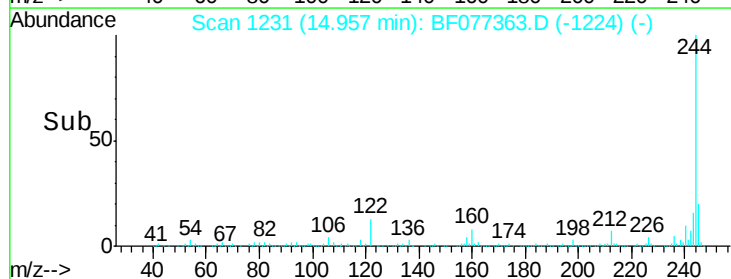
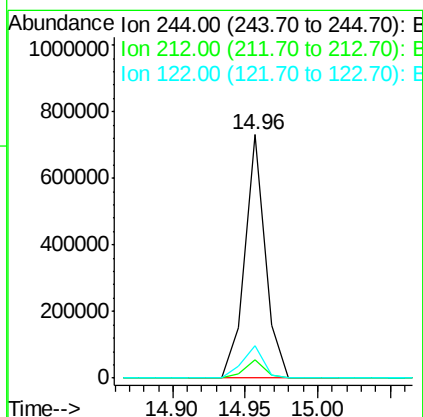
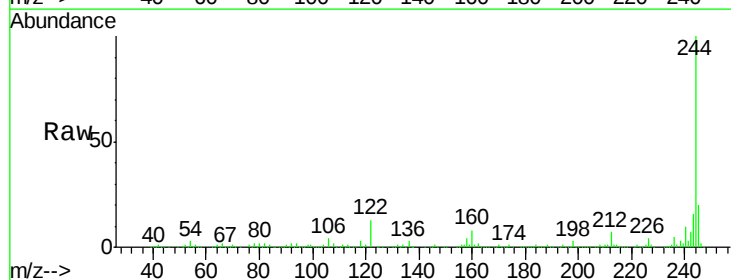
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMSD

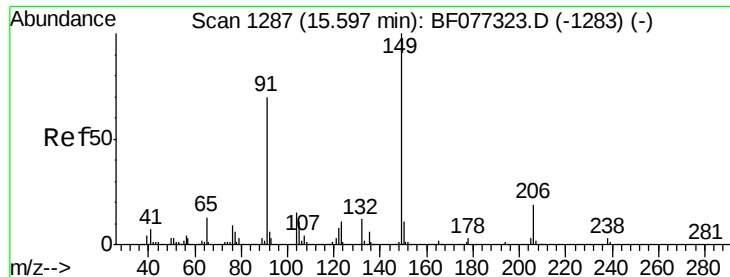
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	17.9	14.2	21.4



#78
 Terphenyl-d14
 Concen: 82.22 ng
 RT: 14.96 min Scan# 1231
 Delta R.T. -0.02 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.4	8.0
122	13.2	9.3	13.9

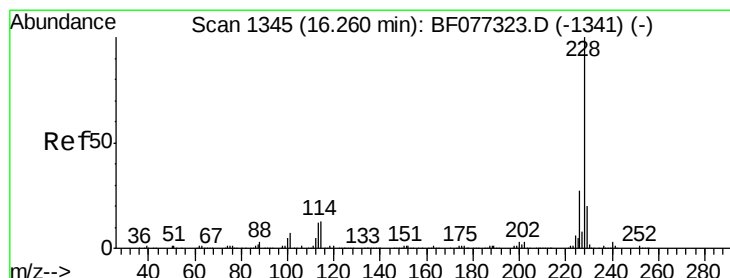
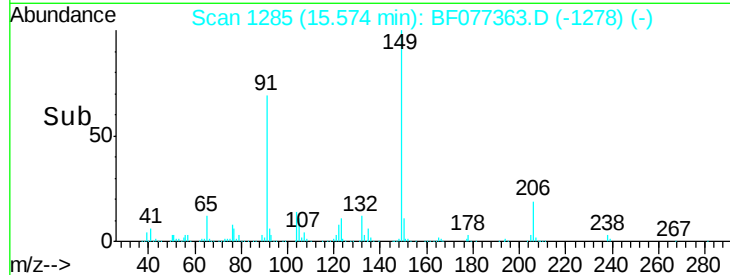
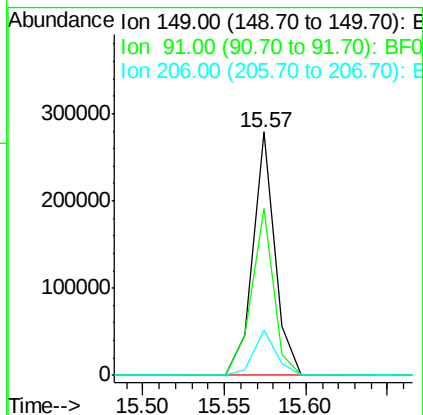
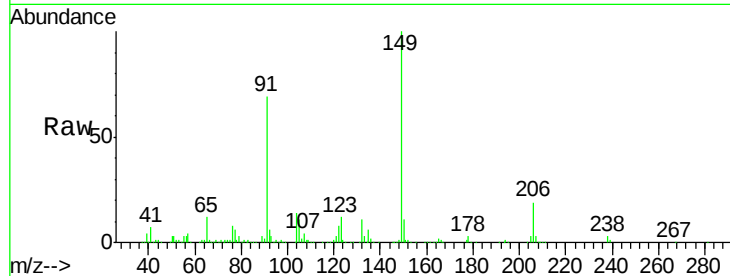




#79
Butylbenzylphthalate
Concen: 53.38 ng
RT: 15.57 min Scan# 1285
Delta R.T. -0.02 min
Lab File: BF077363.D
Acq: 18 Feb 2015 20:30

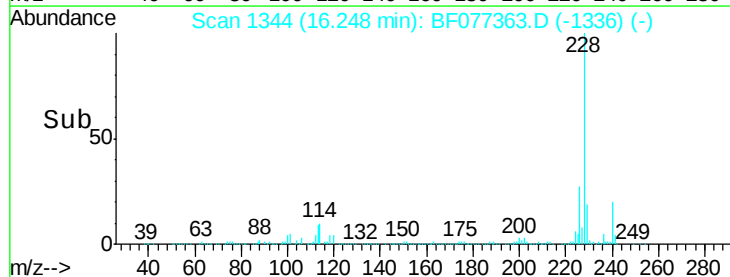
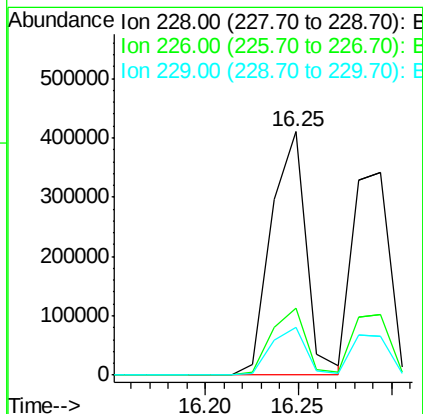
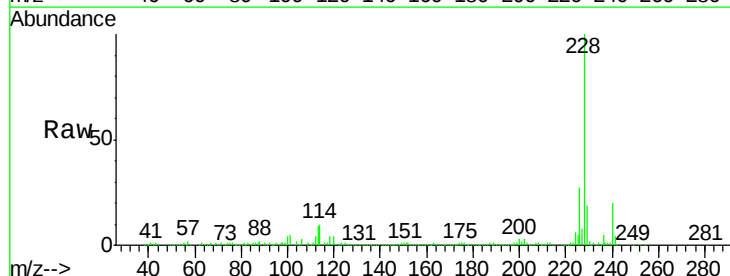
Instrument :
BNA_F
ClientSampleId :
SOIL-CHARACTERIZATIONMSD

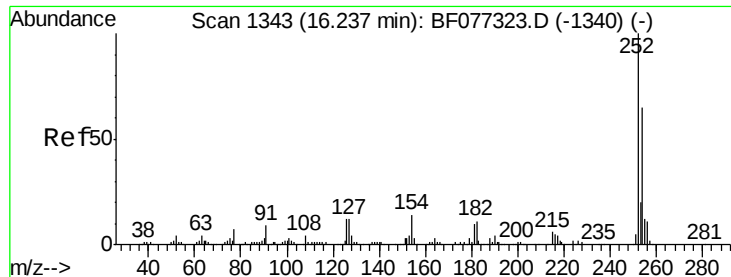
Tgt Ion	Ratio	Lower	Upper
149	100		
91	68.6	55.9	83.9
206	18.6	15.4	23.0



#80
Benzo(a)anthracene
Concen: 46.15 ng
RT: 16.25 min Scan# 1344
Delta R.T. -0.01 min
Lab File: BF077363.D
Acq: 18 Feb 2015 20:30

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.9	32.9
229	19.5	16.1	24.1

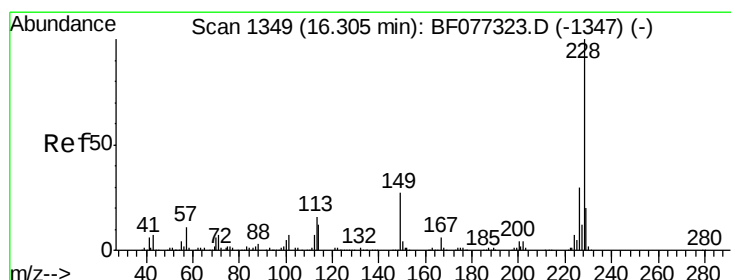
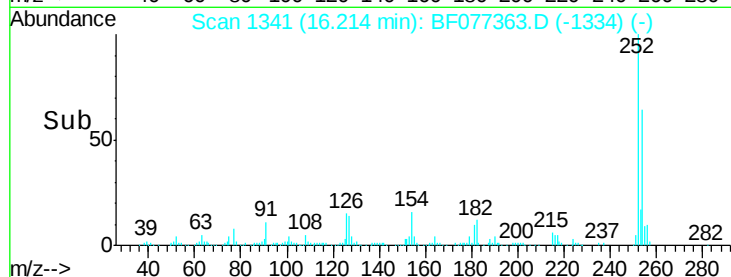
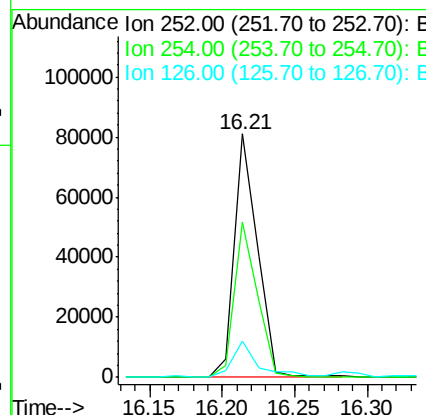
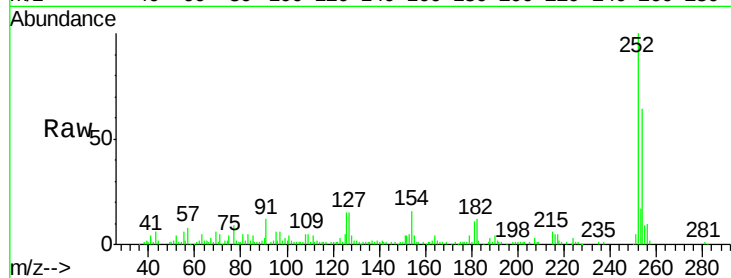




#81
 3,3'-Dichlorobenzidine
 Concen: 23.60 ng
 RT: 16.21 min Scan# 1341
 Delta R.T. -0.02 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

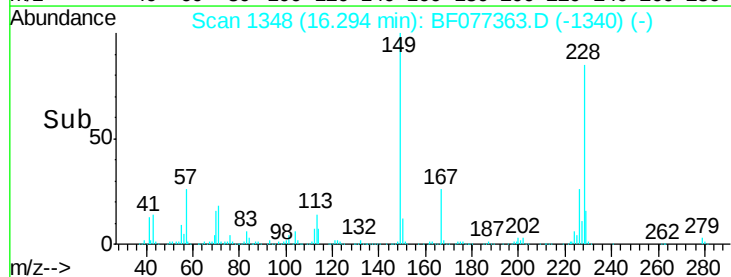
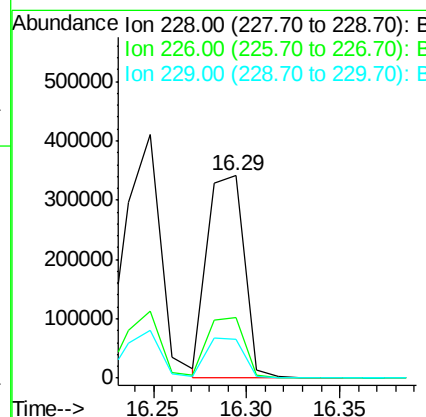
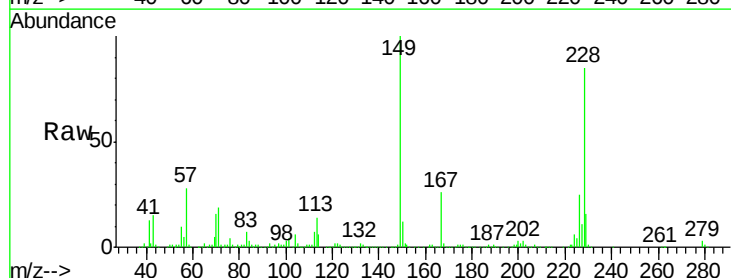
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMSD

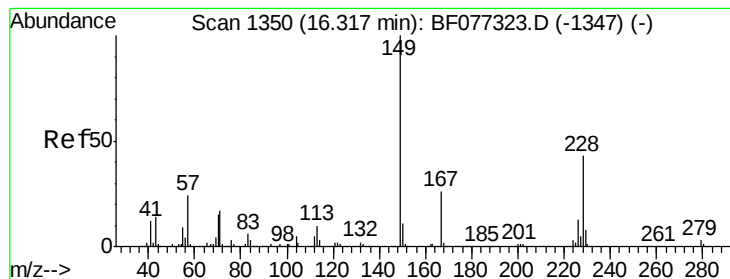
Tgt Ion:252 Resp: 90043
 Ion Ratio Lower Upper
 252 100
 254 63.7 52.0 78.0
 126 15.1 9.7 14.5#



#82
 Chrysene
 Concen: 43.07 ng
 RT: 16.29 min Scan# 1348
 Delta R.T. -0.01 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Tgt Ion:228 Resp: 470477
 Ion Ratio Lower Upper
 228 100
 226 30.1 24.2 36.2
 229 19.4 16.2 24.2





#83

Bis(2-ethylhexyl)phthalate

Concen: 46.72 ng

RT: 16.29 min Scan# 1348

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

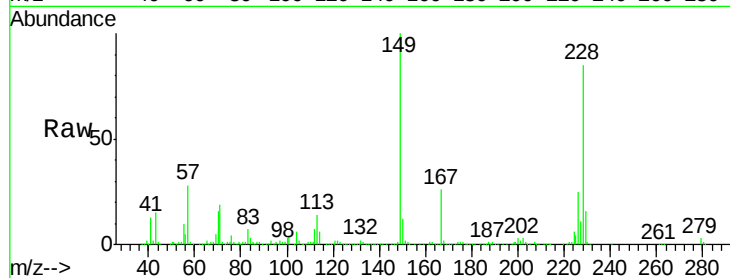
Tgt Ion:149 Resp: 381700

Ion Ratio Lower Upper

149 100

167 26.2 21.0 31.6

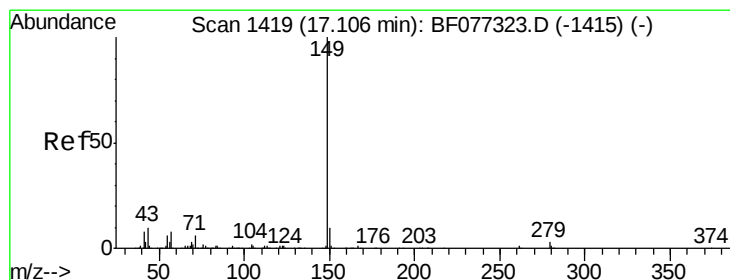
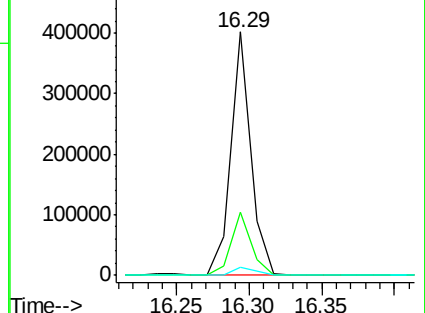
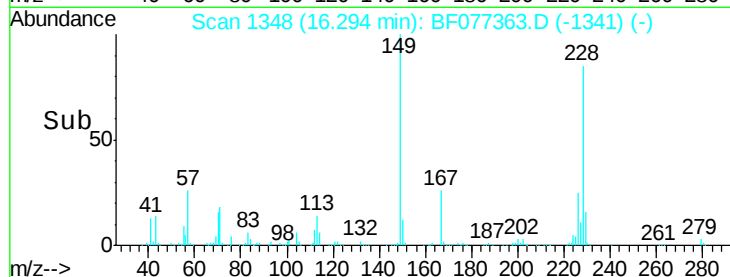
279 3.1 2.7 4.1



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#84

Di-n-octyl phthalate

Concen: 50.89 ng

RT: 17.08 min Scan# 1417

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

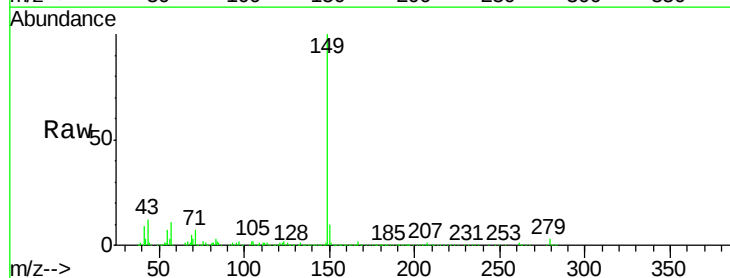
Tgt Ion:149 Resp: 674024

Ion Ratio Lower Upper

149 100

167 1.6 1.1 1.7

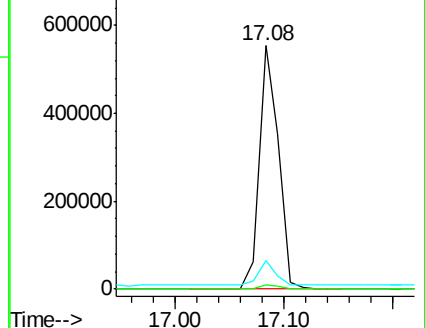
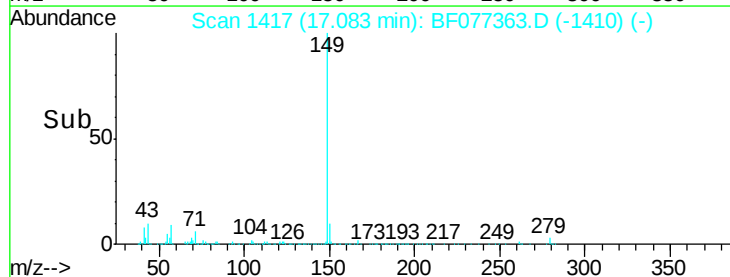
43 9.4 8.7 13.1

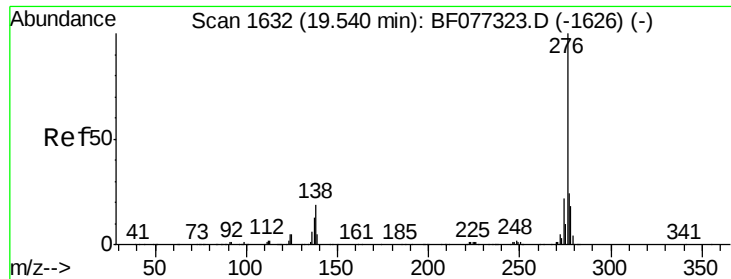


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0

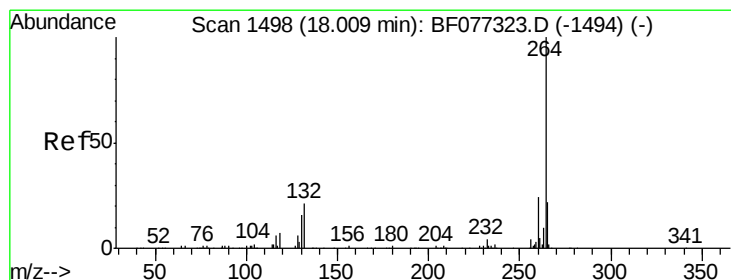
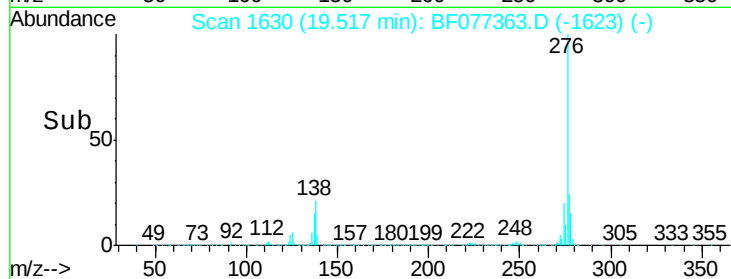
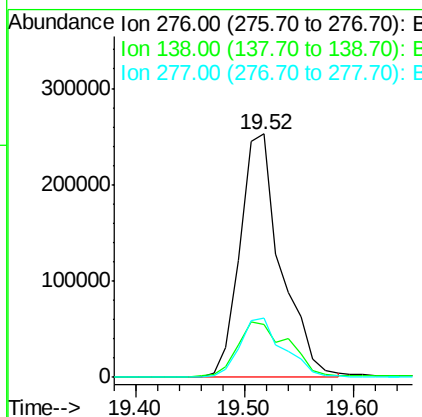
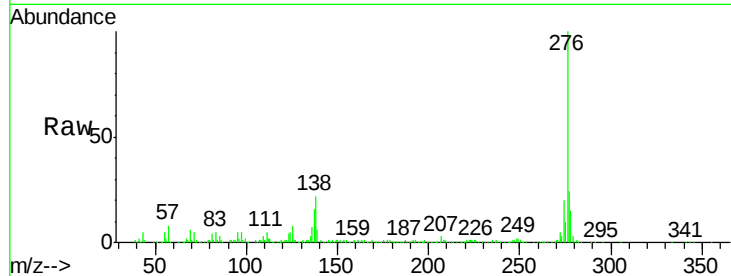




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 52.92 ng
 RT: 19.52 min Scan# 1630
 Delta R.T. -0.02 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

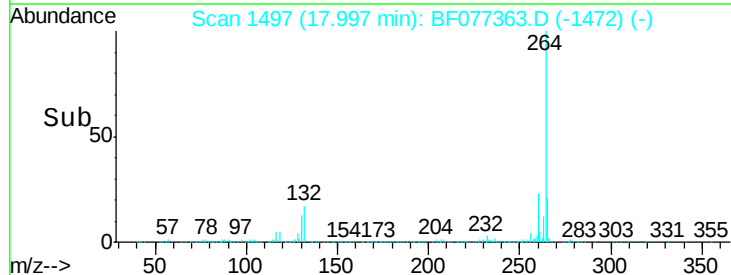
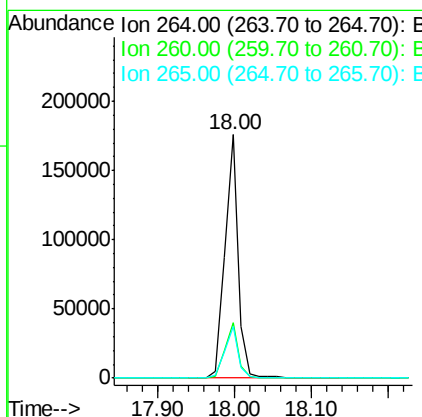
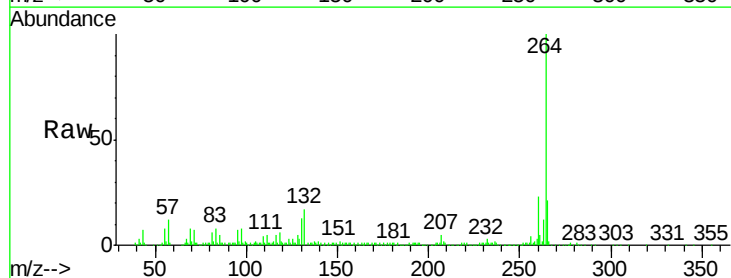
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMSD

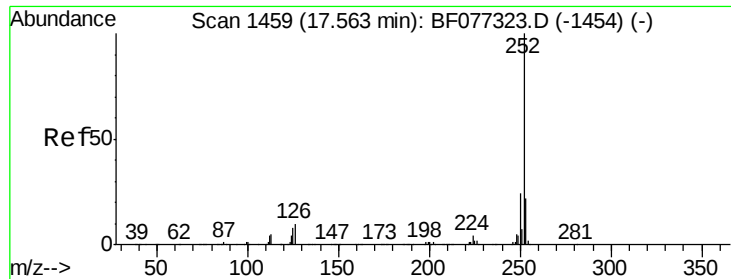
Tgt Ion:276 Resp: 660172
 Ion Ratio Lower Upper
 276 100
 138 27.3 20.2 30.2
 277 25.3 20.2 30.2



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 18.00 min Scan# 1497
 Delta R.T. -0.01 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Tgt Ion:264 Resp: 216149
 Ion Ratio Lower Upper
 264 100
 260 22.7 18.9 28.3
 265 21.2 17.7 26.5





#87

Benzo(b)fluoranthene

Concen: 42.83 ng

RT: 17.54 min Scan# 1457

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

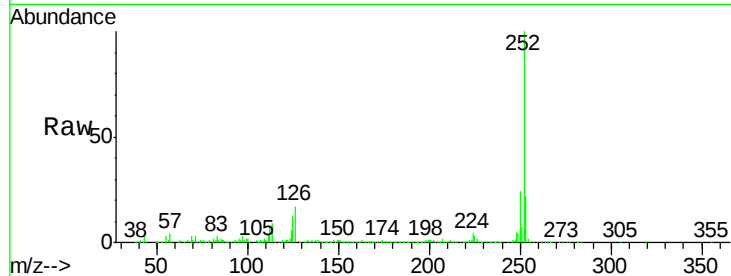
Tgt Ion:252 Resp: 595120

Ion Ratio Lower Upper

252 100

253 22.2 17.3 25.9

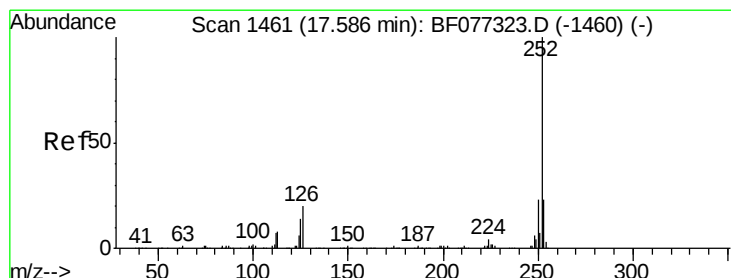
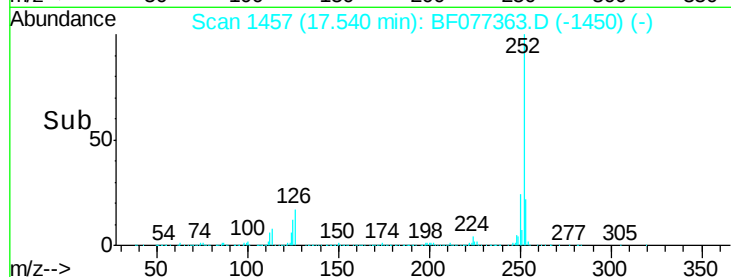
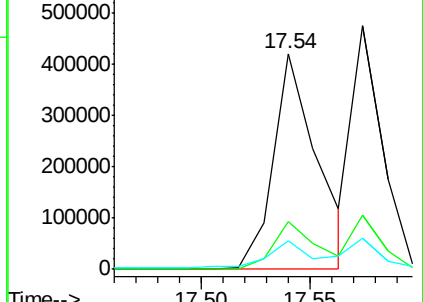
125 13.5 6.1 9.1#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 39.55 ng

RT: 17.57 min Scan# 1460

Delta R.T. -0.01 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

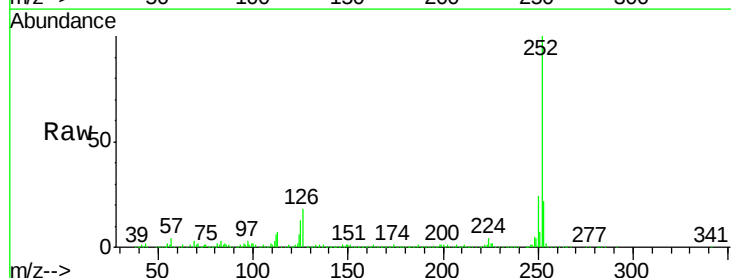
Tgt Ion:252 Resp: 453895

Ion Ratio Lower Upper

252 100

253 22.1 18.0 27.0

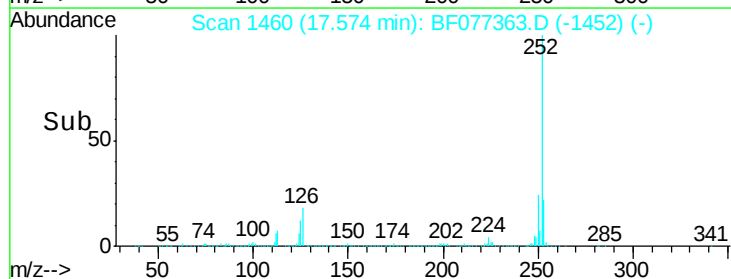
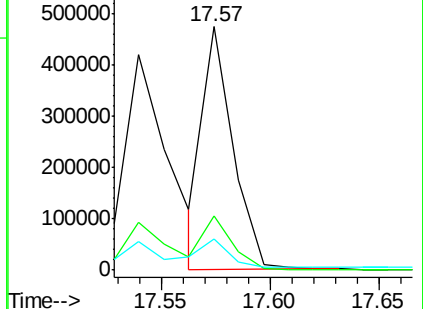
125 12.9 11.0 16.4

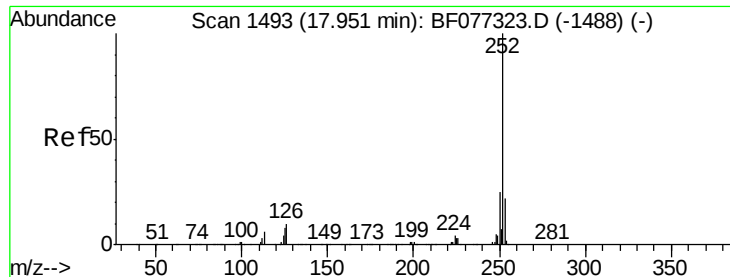


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 43.62 ng

RT: 17.93 min Scan# 1491

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMSD

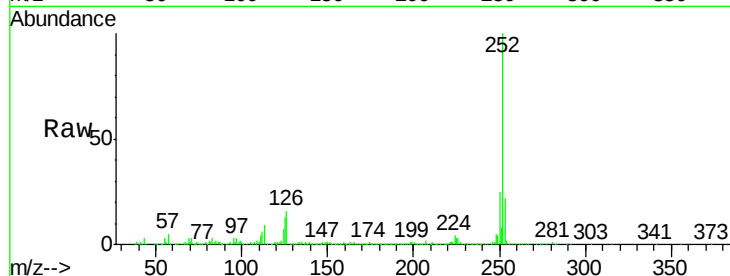
Tgt Ion:252 Resp: 527572

Ion Ratio Lower Upper

252 100

253 22.1 17.4 26.0

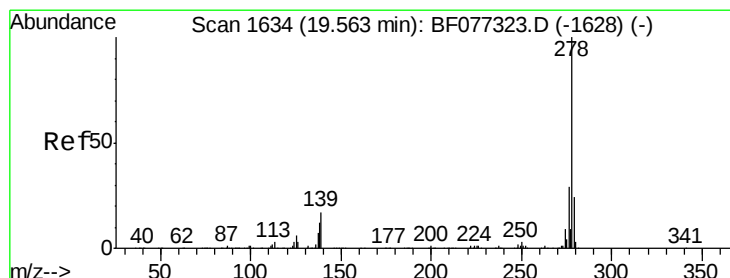
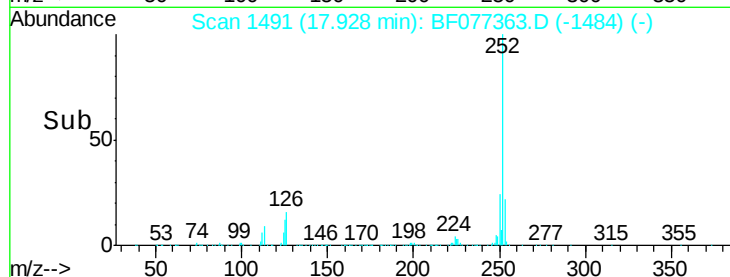
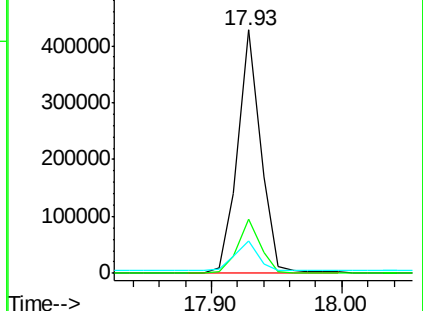
125 13.4 6.2 9.2#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 44.79 ng

RT: 19.54 min Scan# 1632

Delta R.T. -0.02 min

Lab File: BF077363.D

Acq: 18 Feb 2015 20:30

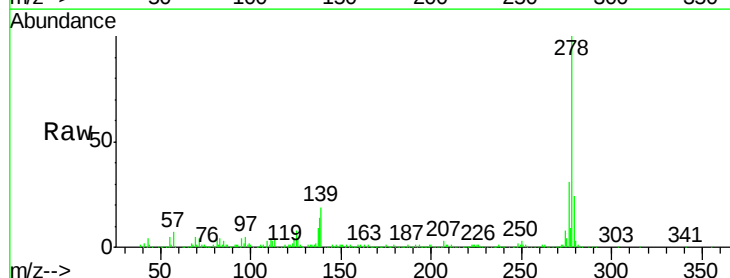
Tgt Ion:278 Resp: 551303

Ion Ratio Lower Upper

278 100

139 19.4 13.4 20.2

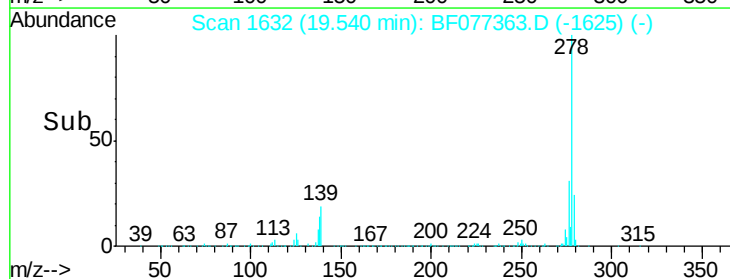
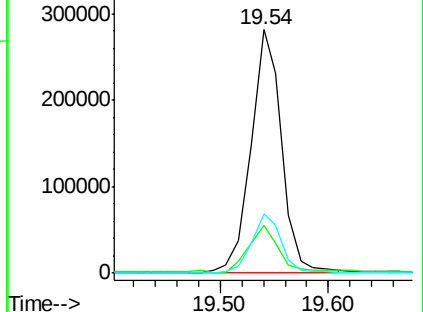
279 24.3 19.1 28.7

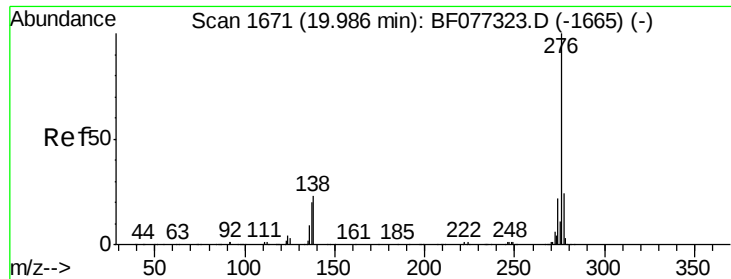


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(g,h,i)perylene
 Concen: 46.11 ng
 RT: 19.96 min Scan# 1669
 Delta R.T. -0.02 min
 Lab File: BF077363.D
 Acq: 18 Feb 2015 20:30

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMSD

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.0	28.6
138	24.6	18.7	28.1

