

Data Path : S:\HPCHEM1\BNA_F\DATA\BF021815\
 Data File : BF077362.D
 Acq On : 18 Feb 2015 20:01
 Operator : TP/IZ
 Sample : G1303-01MS
 Misc : TCLP
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMS

Quant Time: Feb 19 04:01:33 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	48421	20.00	ng	-0.02
21) Naphthalene-d8	8.93	136	189411	20.00	ng	-0.02
38) Acenaphthene-d10	11.12	164	93152	20.00	ng	-0.02
63) Phenanthrene-d10	12.96	188	194799	20.00	ng	-0.02
75) Chrysene-d12	16.26	240	197911	20.00	ng	-0.01
86) Perylene-d12	18.02	264	208600	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.65	112	356949	125.98	ng	-0.01
7) Phenol-d6	6.90	99	420778	113.68	ng	-0.02
23) Nitrobenzene-d5	8.04	82	253298	92.61	ng	-0.02
41) 2,4,6-Tribromophenol	12.10	330	141381	162.61	ng	-0.01
44) 2-Fluorobiphenyl	10.28	172	605463	97.99	ng	-0.02
78) Terphenyl-d14	14.96	244	709605	81.52	ng	-0.02

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.36	88	37802	30.44	ng	92
3) Pyridine	3.13	79	80319	24.50	ng	97
4) n-Nitrosodimethylamine	3.02	42	60629	38.65	ng	87
6) Aniline	6.94	93	40485	7.75	ng	98
8) 2-Chlorophenol	7.08	128	136400	41.07	ng	95
10) Phenol	6.92	94	152049	35.36	ng	90
11) bis(2-Chloroethyl)ether	7.04	93	117710	36.50	ng	96
12) 1,3-Dichlorobenzene	7.28	146	138208	36.89	ng	98
13) 1,4-Dichlorobenzene	7.38	146	145912	37.78	ng	100
14) 1,2-Dichlorobenzene	7.56	146	139141	37.35	ng	97
15) Benzyl Alcohol	7.53	79	111825	39.88	ng	96
16) 2,2'-oxybis(1-Chloropropan	7.71	45	167895	34.59	ng	99
17) 2-Methylphenol	7.68	107	107445	40.59	ng	94
18) Hexachloroethane	7.98	117	45763	36.36	ng	94
19) n-Nitroso-di-n-propylamine	7.87	70	96433	37.49	ng	96
20) 3+4-Methylphenols	7.86	107	141616	41.10	ng	91
22) Acetophenone	7.86	105	185377	41.59	ng	99
24) Nitrobenzene	8.06	77	131562	44.63	ng	97
25) Isophorone	8.37	82	246865	40.04	ng	# 84
26) 2-Nitrophenol	8.46	139	52761	58.42	ng	99
27) 2,4-Dimethylphenol	8.52	122	122175	43.51	ng	97
28) bis(2-Chloroethoxy)methane	8.65	93	159373	40.18	ng	99
29) 2,4-Dichlorophenol	8.76	162	113035	46.84	ng	90
30) 1,2,4-Trichlorobenzene	8.86	180	120091	39.19	ng	98
31) Naphthalene	8.96	128	412208	43.49	ng	99
32) Benzoic acid	8.61	122	51486	68.61	ng	96
33) 4-Chloroaniline	9.04	127	16960	4.19	ng	# 87
34) Hexachlorobutadiene	9.12	225	62866	37.53	ng	99
35) Caprolactam	9.45	113	32660	43.98	ng	90
36) 4-Chloro-3-methylphenol	9.63	107	121280	45.68	ng	# 85
37) 2-Methylnaphthalene	9.82	142	295134	43.29	ng	100
39) 1,2,4,5-Tetrachlorobenzene	10.03	216	118101	43.90	ng	99
40) Hexachlorocyclopentadiene	10.02	237	84253	63.01	ng	96
42) 2,4,6-Trichlorophenol	10.17	196	79090	52.48	ng	98

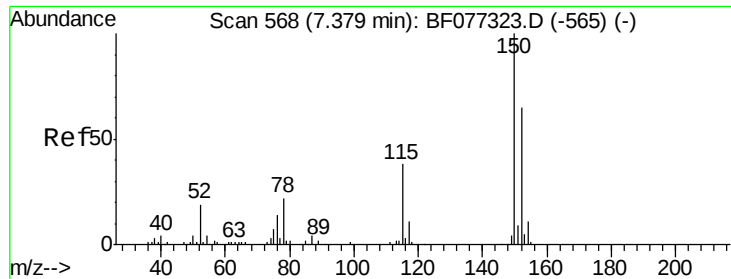
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2,4,5-Trichlorophenol	10.21	196	86295	53.56	ng	# 90
45) 1,1'-Biphenyl	10.41	154	341183	45.94	ng	94
46) 2-Chloronaphthalene	10.42	162	265602	48.14	ng	99
47) 2-Nitroaniline	10.54	65	65881	55.86	ng	98
48) Acenaphthylene	10.93	152	437836	48.13	ng	99
49) Dimethylphthalate	10.79	163	308924	48.19	ng	100
50) 2,6-Dinitrotoluene	10.85	165	63594	53.50	ng	95
51) Acenaphthene	11.15	154	269759	49.96	ng	100
52) 3-Nitroaniline	11.06	138	13311	9.54	ng	85
53) 2,4-Dinitrophenol	11.20	184	26802	144.84	ng	# 66
54) Dibenzofuran	11.37	168	391720	47.83	ng	100
55) 4-Nitrophenol	11.27	139	121424	126.00	ng	92
56) 2,4-Dinitrotoluene	11.36	165	89964	59.82	ng	96
57) Fluorene	11.79	166	316362	49.23	ng	98
58) 2,3,4,6-Tetrachlorophenol	11.52	232	68324	51.90	ng	95
59) Diethylphthalate	11.67	149	319336	47.85	ng	98
60) 4-Chlorophenyl-phenylether	11.80	204	138028	44.15	ng	95
61) 4-Nitroaniline	11.81	138	57850	42.53	ng	95
62) Azobenzene	12.00	77	288342	43.62	ng	97
64) 4,6-Dinitro-2-methylphenol	11.86	198	20042	55.47	ng	# 50
65) n-Nitrosodiphenylamine	11.95	169	271587	42.74	ng	99
66) 4-Bromophenyl-phenylether	12.41	248	86559	39.85	ng	96
67) Hexachlorobenzene	12.47	284	98946	40.16	ng	# 87
68) Atrazine	12.61	200	70154	36.94	ng	98
69) Pentachlorophenol	12.72	266	105044	119.76	ng	95
70) Phenanthrene	12.99	178	492698	43.53	ng	99
71) Anthracene	13.05	178	483259	42.93	ng	100
72) Carbazole	13.25	167	461956	46.68	ng	100
73) Di-n-butylphthalate	13.71	149	535918	43.99	ng	# 97
74) Fluoranthene	14.47	202	529464	46.32	ng	97
76) Benzidine	14.65	184	43458	7.15	ng	98
77) Pyrene	14.75	202	555058	45.37	ng	100
79) Butylbenzylphthalate	15.57	149	249841	51.11	ng	98
80) Benzo(a)anthracene	16.25	228	516329	44.80	ng	100
81) 3,3'-Dichlorobenzidine	16.23	252	83148	21.84	ng	# 98
82) Chrysene	16.29	228	486238	44.62	ng	100
83) Bis(2-ethylhexyl)phthalate	16.29	149	375749	46.09	ng	# 96
84) Di-n-octyl phthalate	17.11	149	659037	49.89	ng	97
85) Indeno(1,2,3-cd)pyrene	19.54	276	659104m	52.96	ng	
87) Benzo(b)fluoranthene	17.56	252	524636	39.12	ng	# 95
88) Benzo(k)fluoranthene	17.60	252	545140m	49.22	ng	
89) Benzo(a)pyrene	17.95	252	516676	44.27	ng	# 93
90) Dibenzo(a,h)anthracene	19.57	278	551146	46.40	ng	99
91) Benzo(g,h,i)perylene	20.00	276	553125	46.84	ng	97

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.36 min Scan# 566

Delta R.T. -0.02 min

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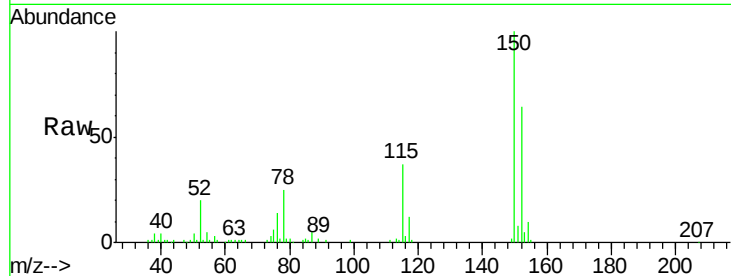
Tgt Ion:152 Resp: 48421

Ion Ratio Lower Upper

152 100

150 156.1 123.1 184.7

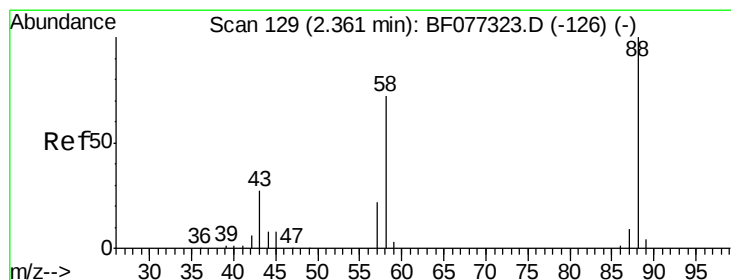
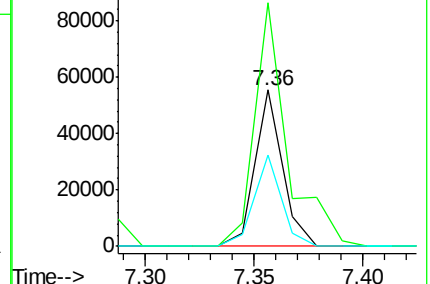
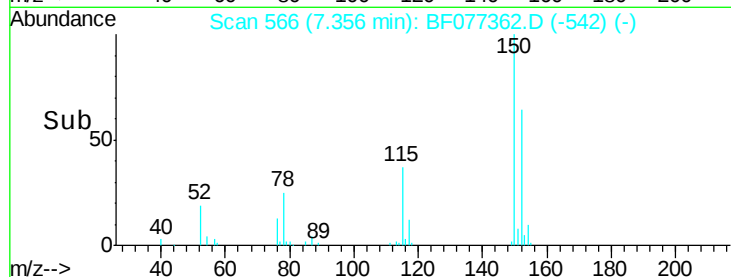
115 58.4 46.2 69.4



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: 30.44 ng

RT: 2.36 min Scan# 129

Delta R.T. 0.00 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

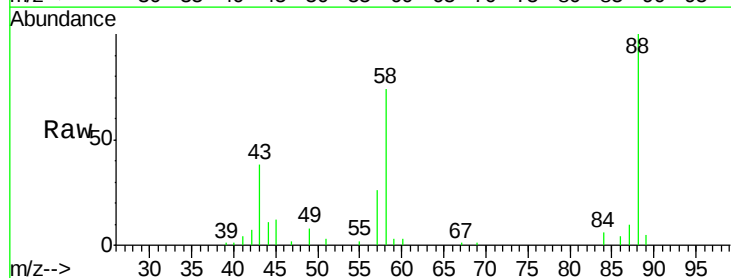
Tgt Ion: 88 Resp: 37802

Ion Ratio Lower Upper

88 100

58 79.9 57.8 86.6

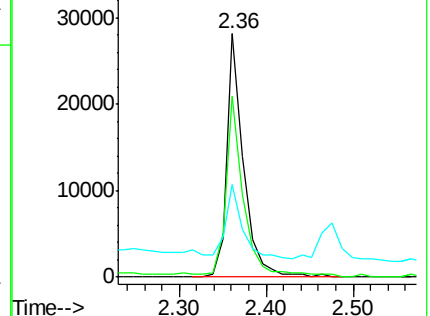
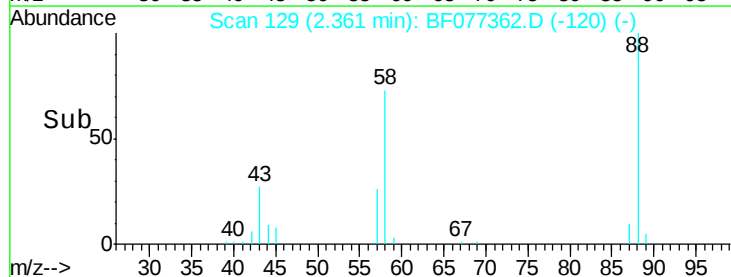
43 30.8 23.2 34.8

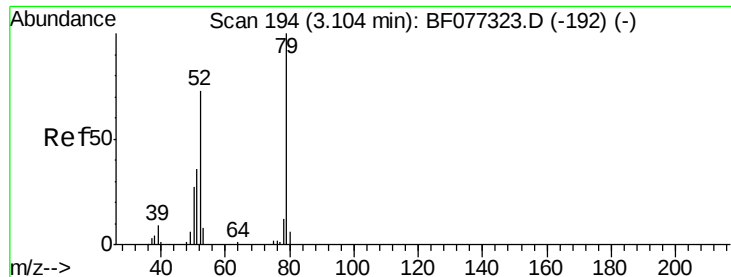


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#3

Pyridine

Concen: 24.50 ng

RT: 3.13 min Scan# 196

Delta R.T. 0.02 min

Lab File: BF077362.D

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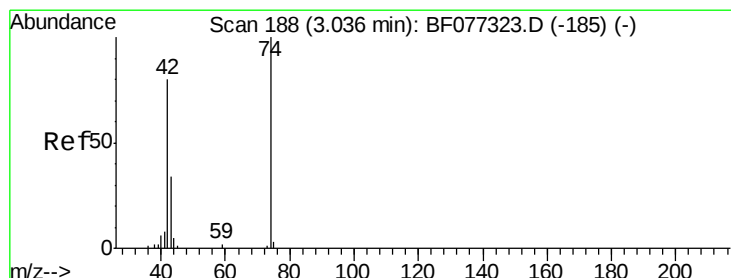
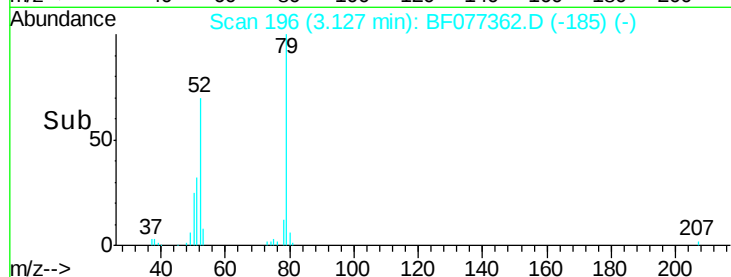
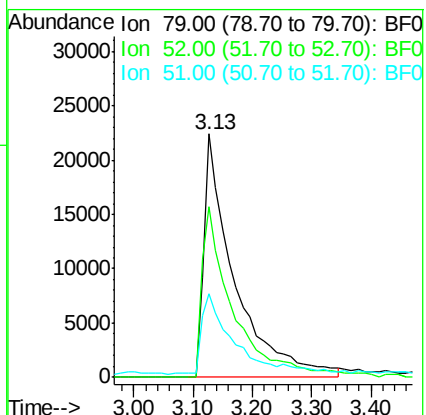
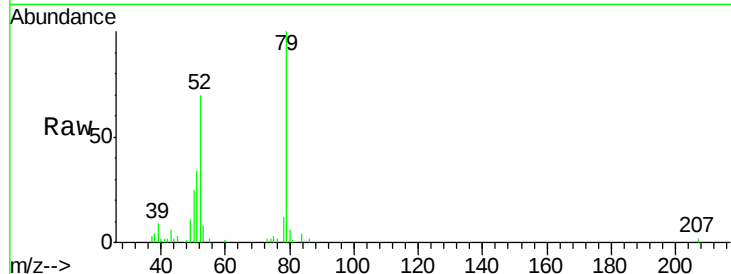
Tgt Ion: 79 Resp: 80319

Ion Ratio Lower Upper

79 100

52 70.1 58.4 87.6

51 34.3 29.0 43.4



#4

n-Nitrosodimethylamine

Concen: 38.65 ng

RT: 3.02 min Scan# 187

Delta R.T. -0.01 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

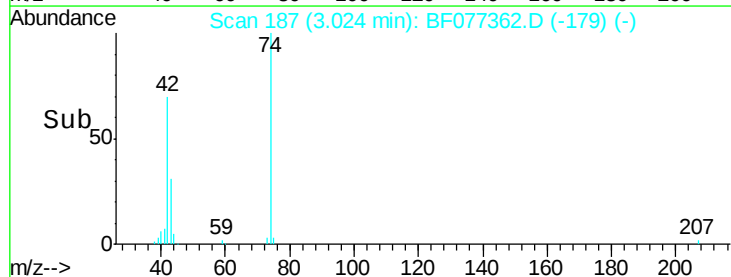
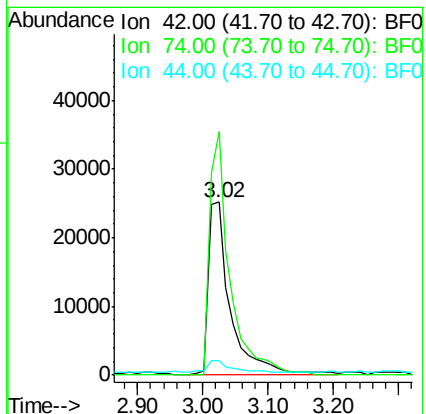
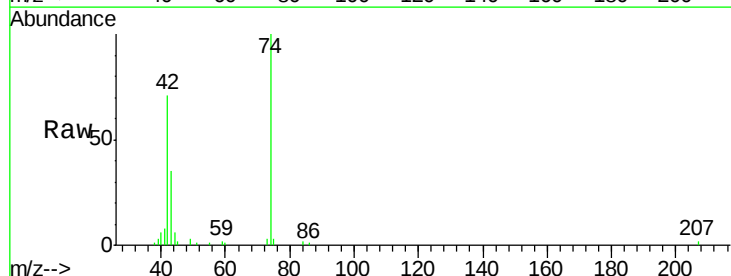
Tgt Ion: 42 Resp: 60629

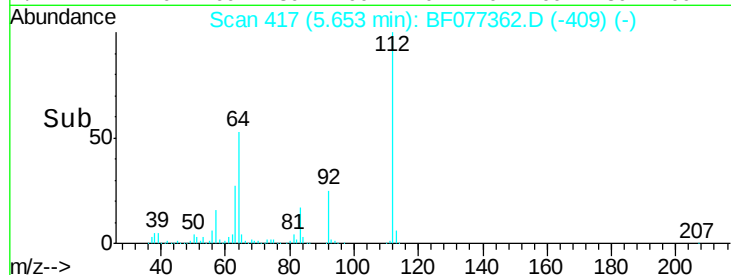
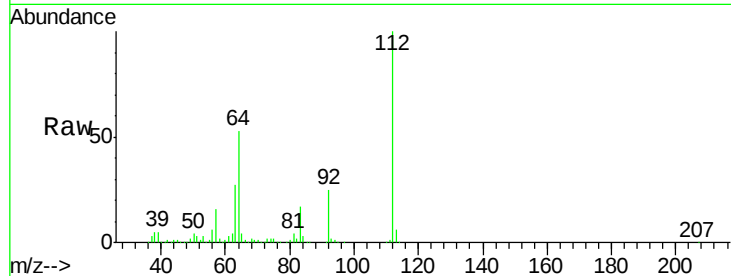
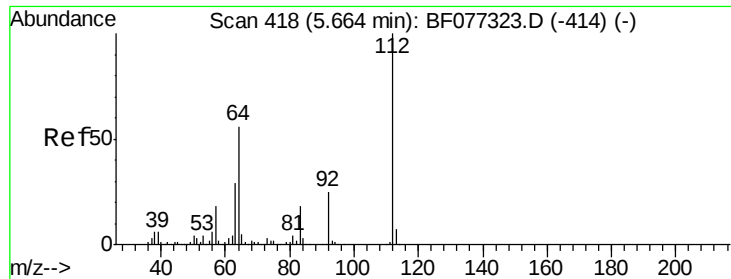
Ion Ratio Lower Upper

42 100

74 140.8 100.0 150.0

44 8.4 6.1 9.1





#5

2-Fluorophenol

Concen: 125.98 ng

RT: 5.65 min Scan# 417

Delta R.T. -0.01 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

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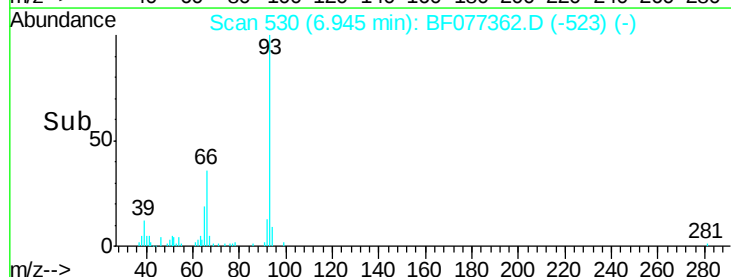
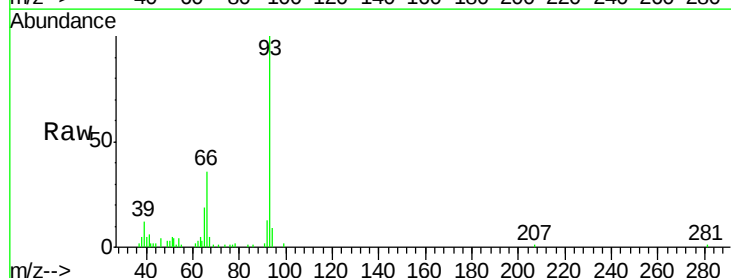
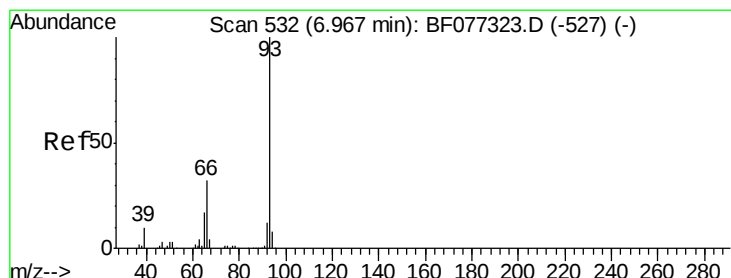
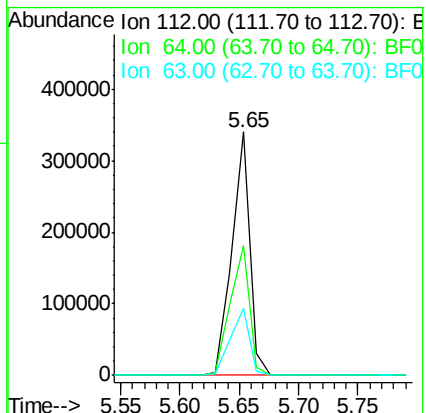
Tgt Ion: 112 Resp: 356949

Ion Ratio Lower Upper

112 100

64 53.5 44.7 67.1

63 27.3 23.3 34.9



#6

Aniline

Concen: 7.75 ng

RT: 6.94 min Scan# 530

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

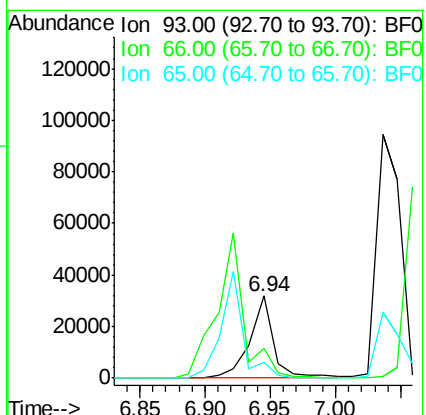
Tgt Ion: 93 Resp: 40485

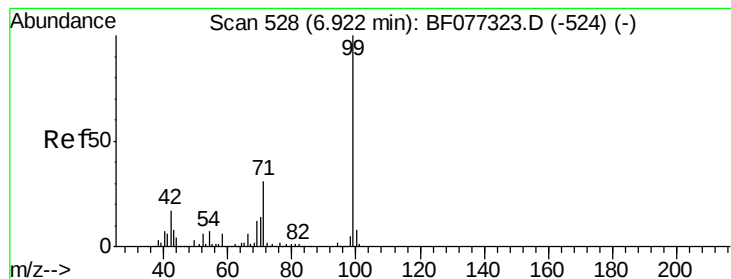
Ion Ratio Lower Upper

93 100

66 35.9 28.3 42.5

65 18.9 14.1 21.1





#7

Phenol-d6

Concen: 113.68 ng

RT: 6.90 min Scan# 526

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

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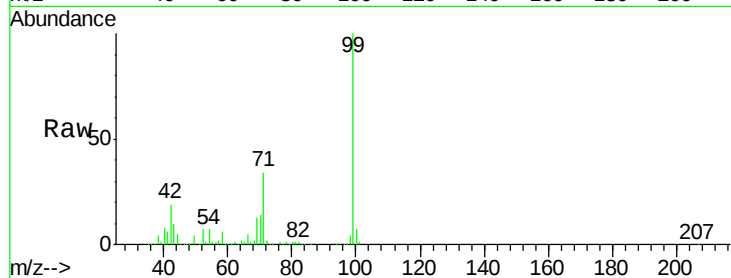
Tgt Ion: 99 Resp: 420778

Ion Ratio Lower Upper

99 100

42 19.5 13.8 20.6

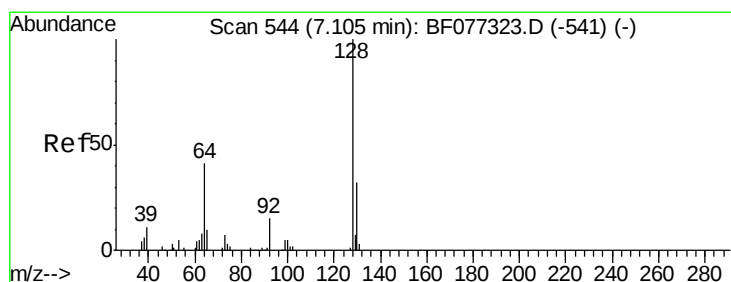
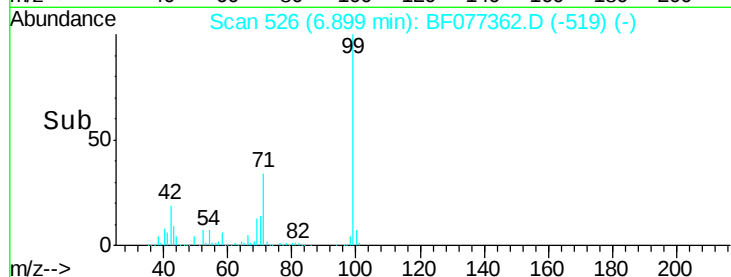
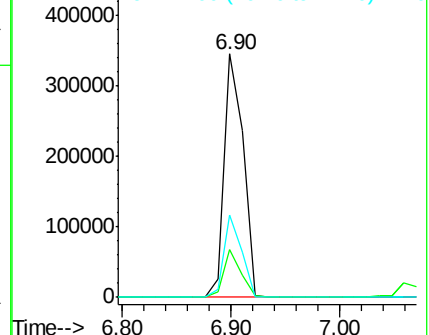
71 33.9 24.6 37.0



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: 41.07 ng

RT: 7.08 min Scan# 542

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

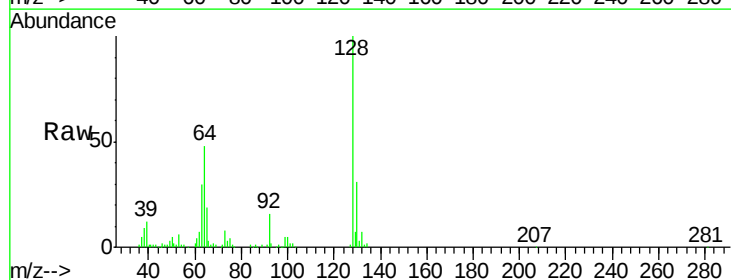
Tgt Ion: 128 Resp: 136400

Ion Ratio Lower Upper

128 100

130 31.3 12.4 52.4

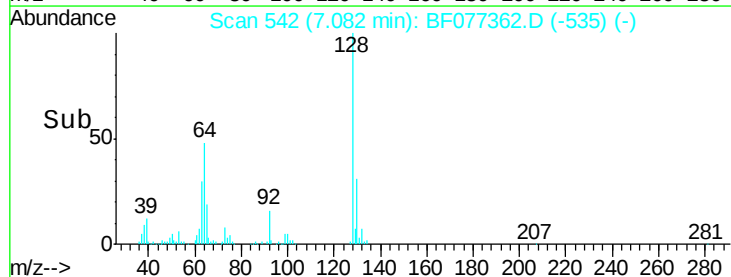
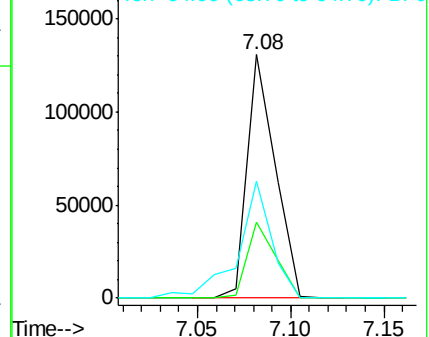
64 47.8 23.2 63.2

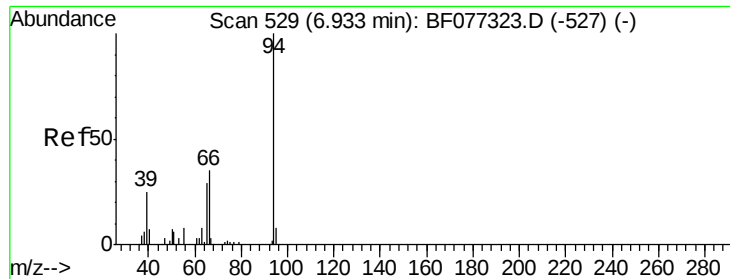


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF0





#10

Phenol

Concen: 35.36 ng

RT: 6.92 min Scan# 528

Delta R.T. -0.01 min

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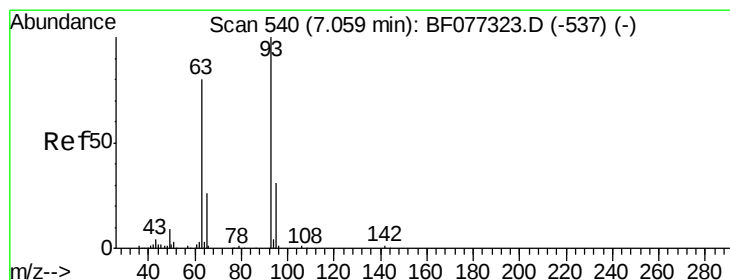
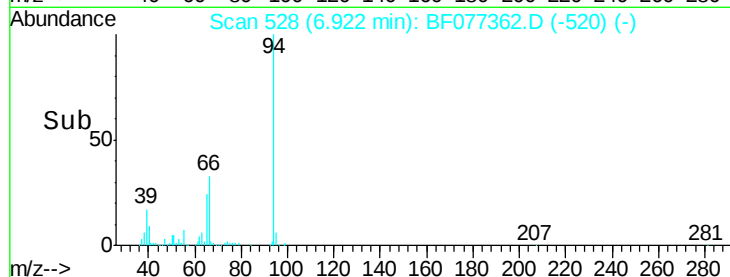
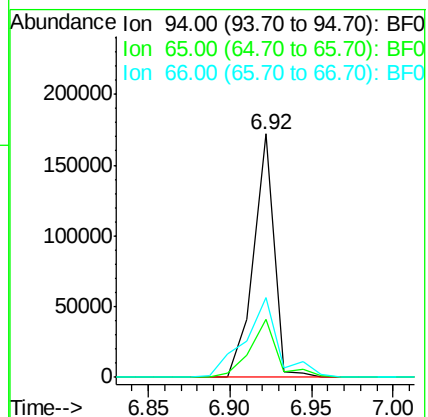
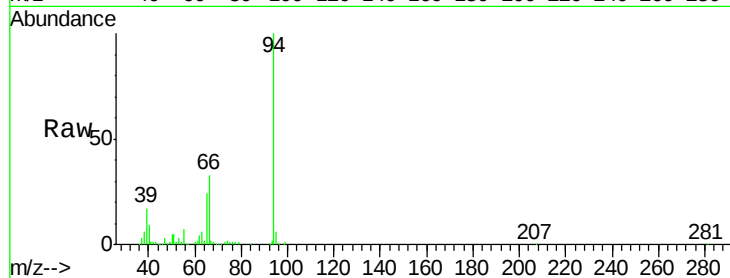
Tgt Ion: 94 Resp: 152049

Ion Ratio Lower Upper

94 100

65 24.0 9.3 49.3

66 32.6 18.3 58.3



#11

bis(2-Chloroethyl)ether

Concen: 36.50 ng

RT: 7.04 min Scan# 538

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

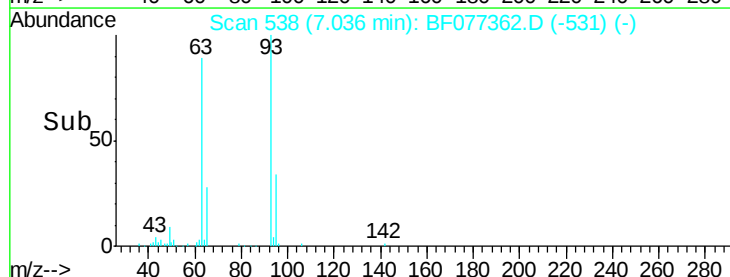
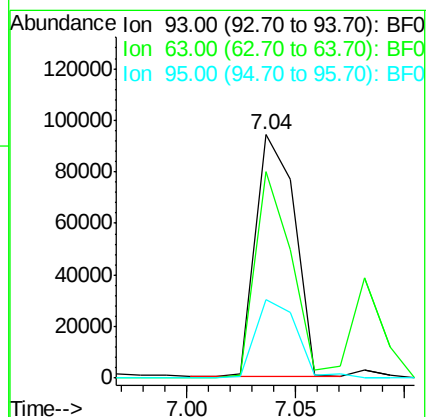
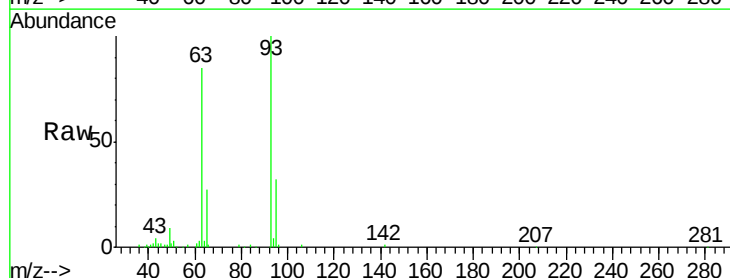
Tgt Ion: 93 Resp: 117710

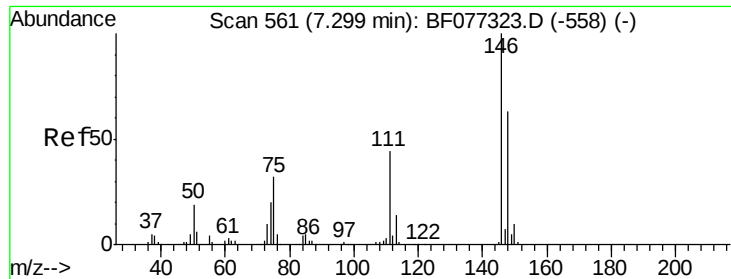
Ion Ratio Lower Upper

93 100

63 84.6 60.0 100.0

95 32.0 11.4 51.4





#12

1,3-Dichlorobenzene

Concen: 36.89 ng

RT: 7.28 min Scan# 559

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

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ClientSampleId :

SOIL-CHARACTERIZATIONMS

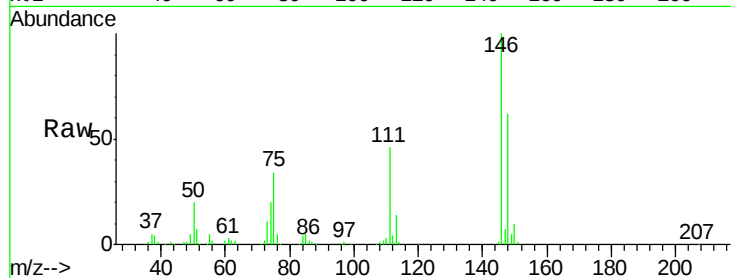
Tgt Ion:146 Resp: 138208

Ion Ratio Lower Upper

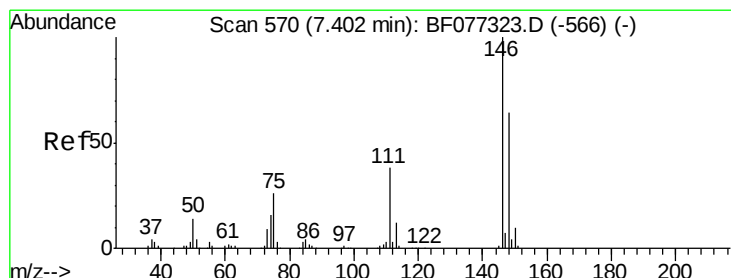
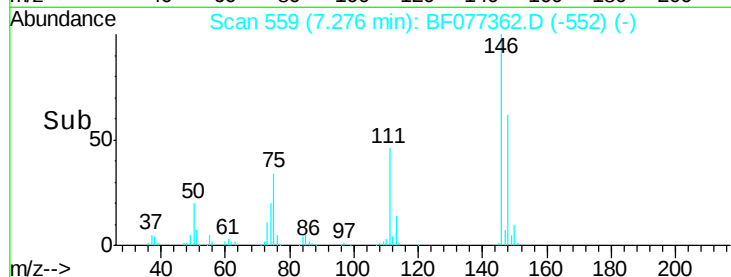
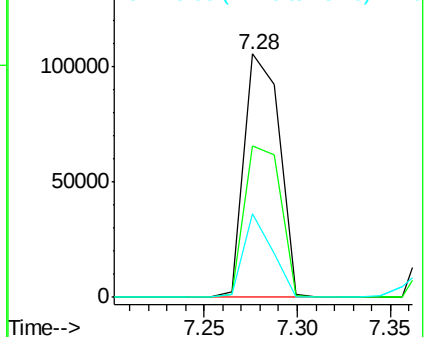
146 100

148 62.2 50.2 75.4

75 34.3 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): E



#13

1,4-Dichlorobenzene

Concen: 37.78 ng

RT: 7.38 min Scan# 568

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

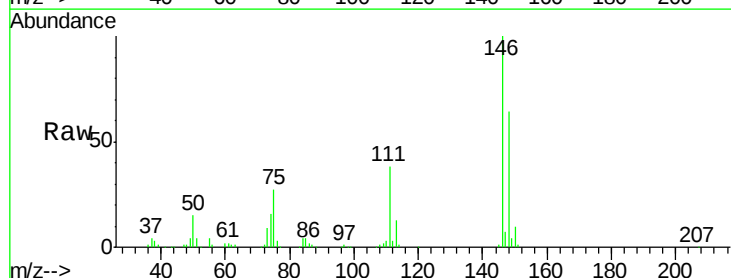
Tgt Ion:146 Resp: 145912

Ion Ratio Lower Upper

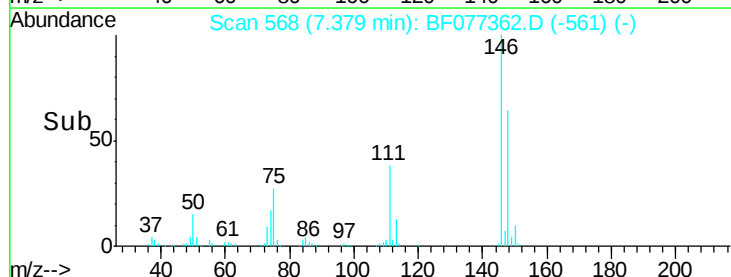
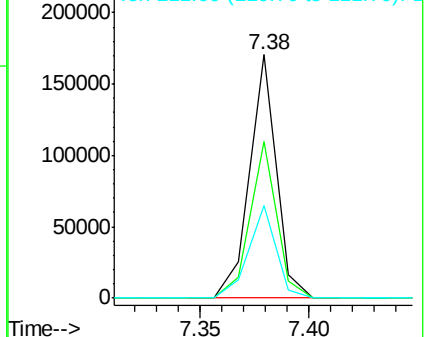
146 100

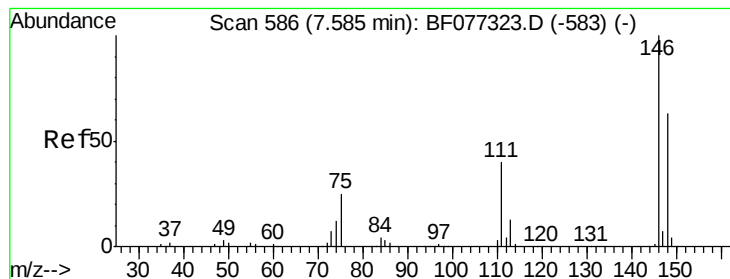
148 64.4 51.6 77.4

111 38.2 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

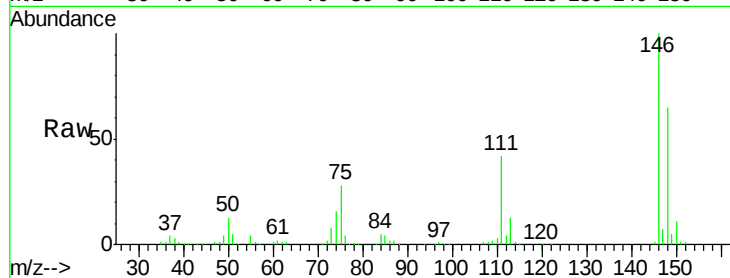




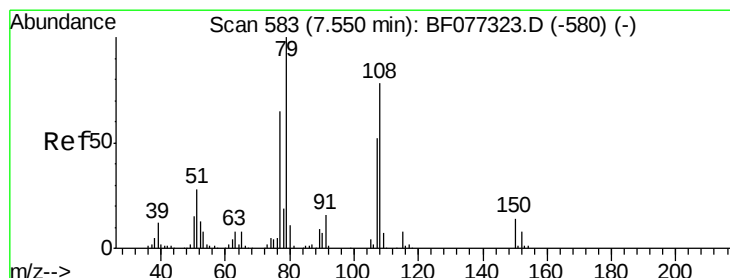
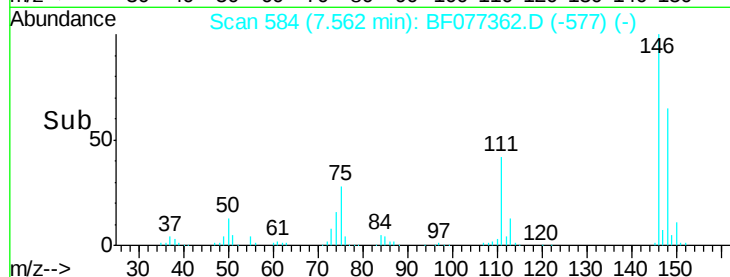
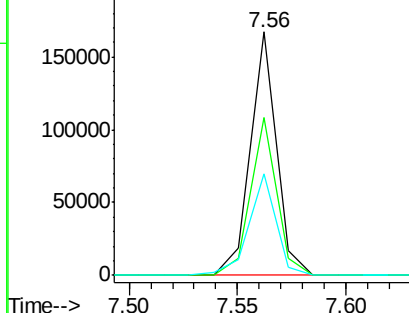
#14
 1,2-Dichlorobenzene
 Concen: 37.35 ng
 RT: 7.56 min Scan# 584
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMS

Tgt Ion: 146 Resp: 139141
 Ion Ratio Lower Upper
 146 100
 148 64.8 50.3 75.5
 111 41.6 31.8 47.8

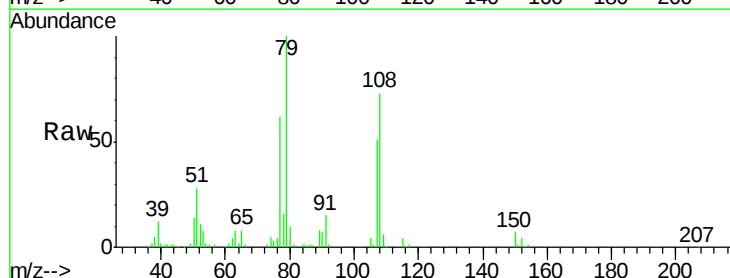


Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 111.00 (110.70 to 111.70): E

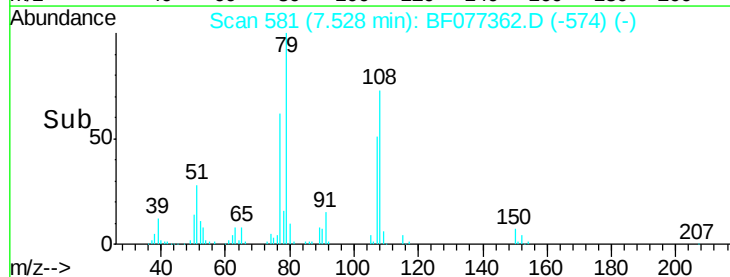
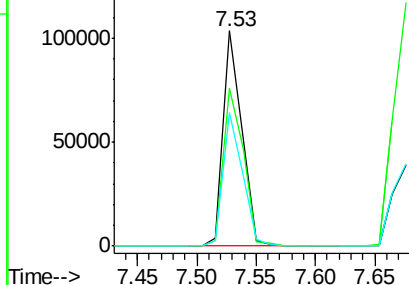


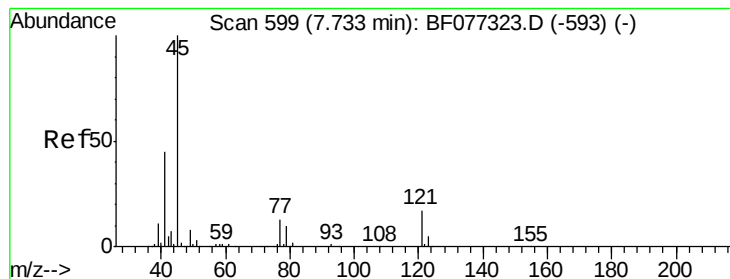
#15
 Benzyl Alcohol
 Concen: 39.88 ng
 RT: 7.53 min Scan# 581
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

Tgt Ion: 79 Resp: 111825
 Ion Ratio Lower Upper
 79 100
 108 73.3 62.0 93.0
 77 62.0 52.0 78.0



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





#16

2,2'-oxybis(1-Chloropropane)

Concen: 34.59 ng

RT: 7.71 min Scan# 597

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

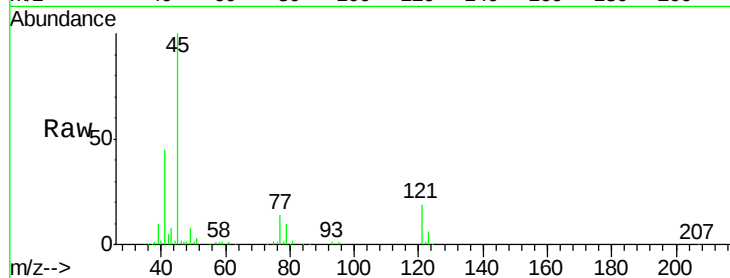
Tgt Ion: 45 Resp: 167895

Ion Ratio Lower Upper

45 100

77 13.6 0.0 32.7

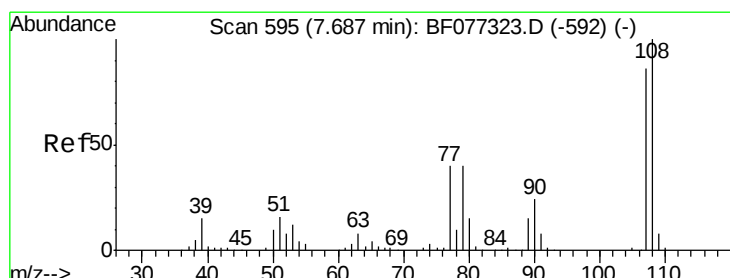
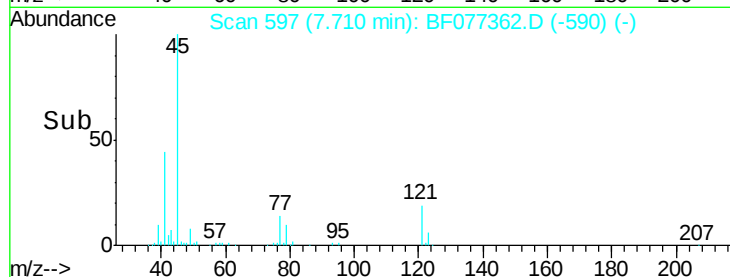
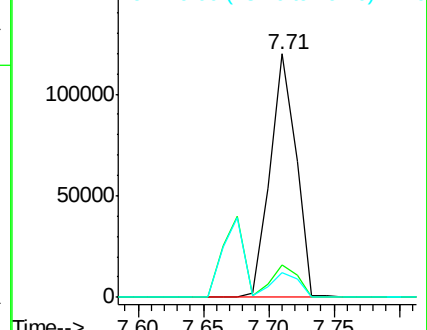
79 10.1 0.0 30.0



Abundance Ion 45.00 (44.70 to 45.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



#17

2-Methylphenol

Concen: 40.59 ng

RT: 7.68 min Scan# 594

Delta R.T. -0.01 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Tgt Ion: 107 Resp: 107445

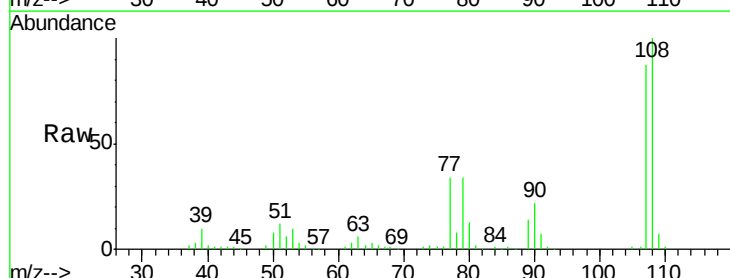
Ion Ratio Lower Upper

107 100

108 114.8 92.6 138.8

77 38.8 37.4 56.0

79 38.5 36.8 55.2

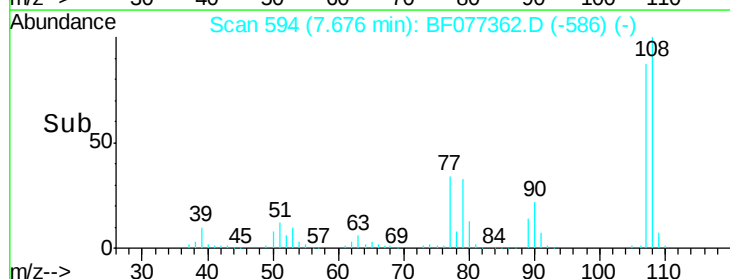
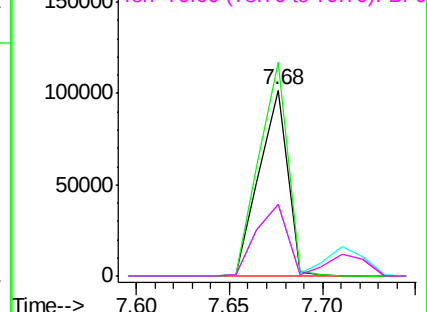


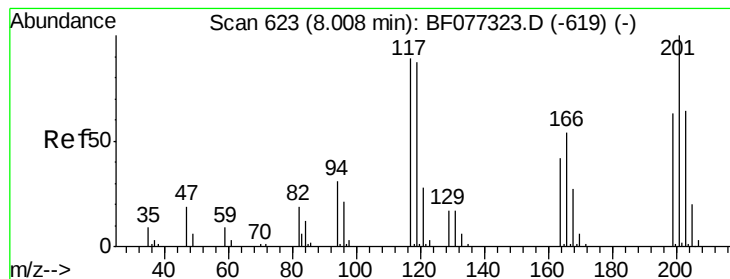
Abundance Ion 107.00 (106.70 to 107.70): E

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: 36.36 ng

RT: 7.98 min Scan# 621

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

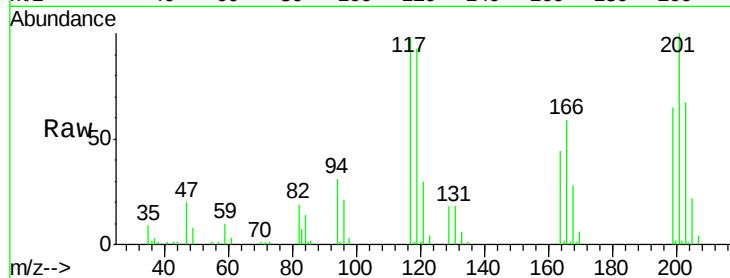
Tgt Ion: 117 Resp: 45763

Ion Ratio Lower Upper

117 100

119 95.4 78.4 117.6

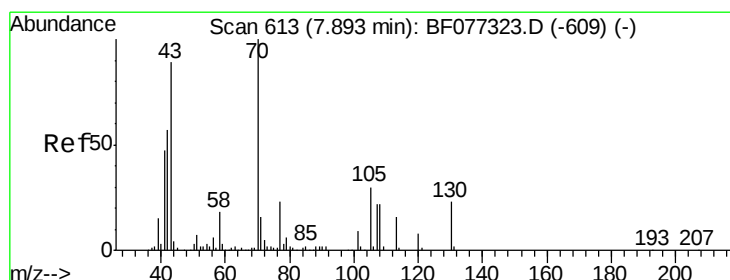
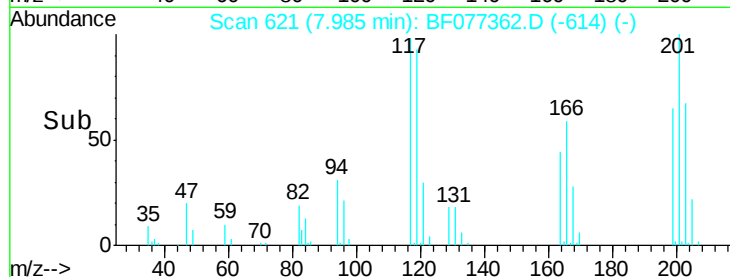
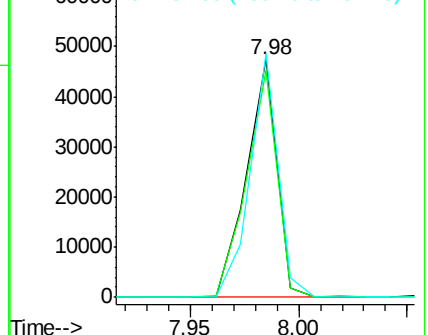
201 102.2 90.1 135.1



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: 37.49 ng

RT: 7.87 min Scan# 611

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Tgt Ion: 70 Resp: 96433

Ion Ratio Lower Upper

70 100

42 53.2 45.5 68.3

101 9.5 7.5 11.3

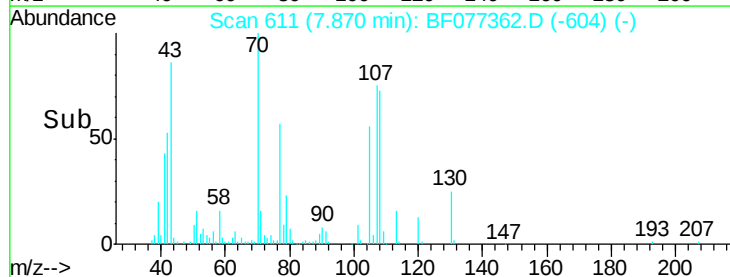
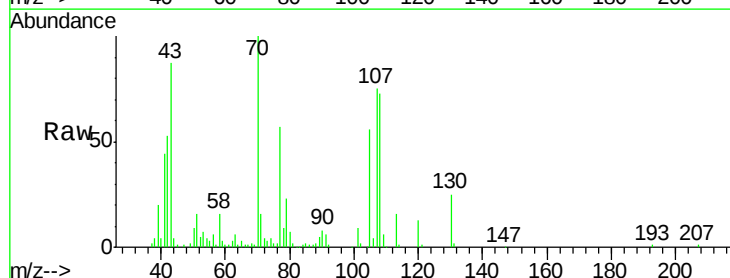
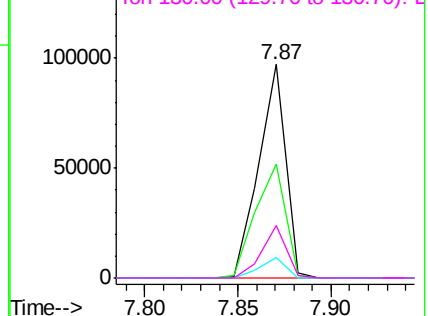
130 24.6 18.2 27.2

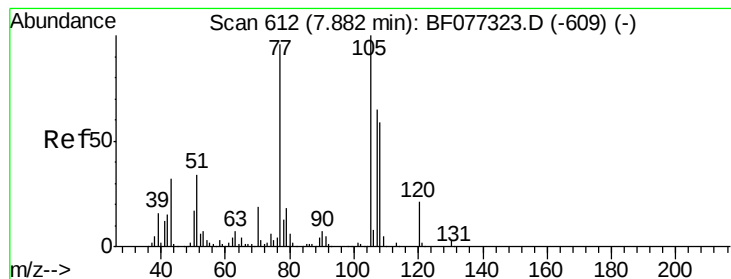
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E





#20

3+4-Methylphenols

Concen: 41.10 ng

RT: 7.86 min Scan# 610

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

Tgt Ion:107 Resp: 141616

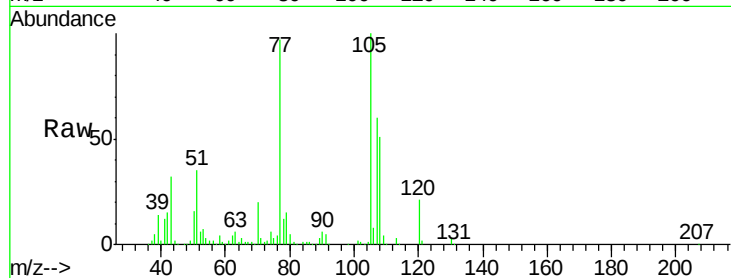
Ion Ratio Lower Upper

107 100

108 85.1 70.6 110.6

77 160.1 126.5 166.5

79 25.1 8.3 48.3

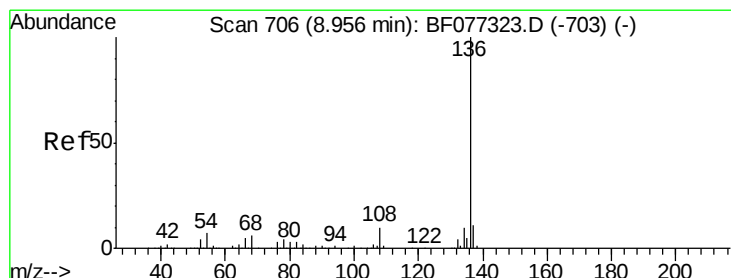
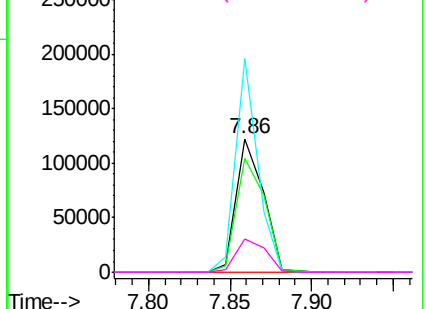
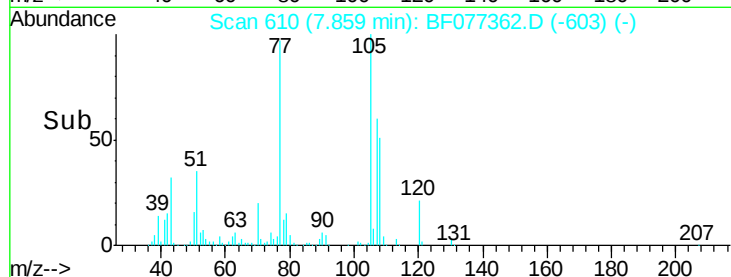


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.93 min Scan# 704

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Tgt Ion:136 Resp: 189411

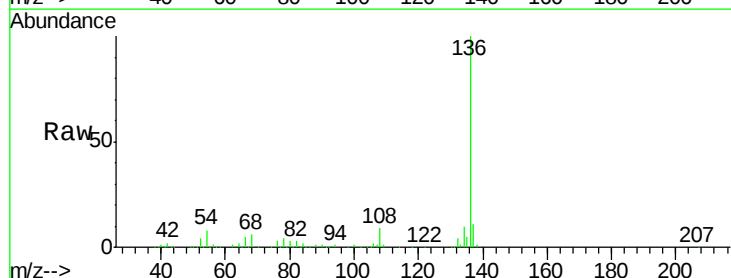
Ion Ratio Lower Upper

136 100

137 11.3 8.7 13.1

54 7.7 5.8 8.6

68 6.5 4.6 6.8

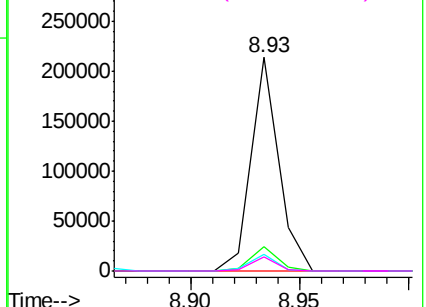
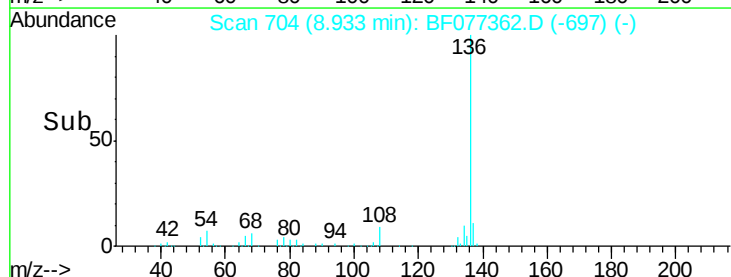


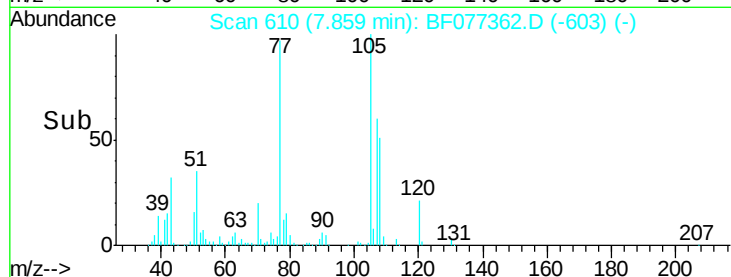
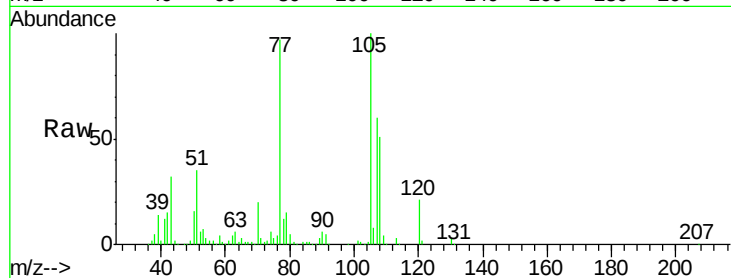
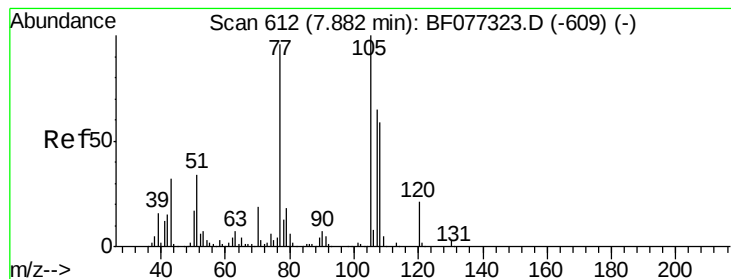
Abundance Ion 136.00 (135.70 to 136.70): E

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: 41.59 ng

RT: 7.86 min Scan# 610

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

Tgt Ion: 105 Resp: 185377

Ion Ratio Lower Upper

105 100

71 3.5 2.5 3.7

51 35.0 27.4 41.2

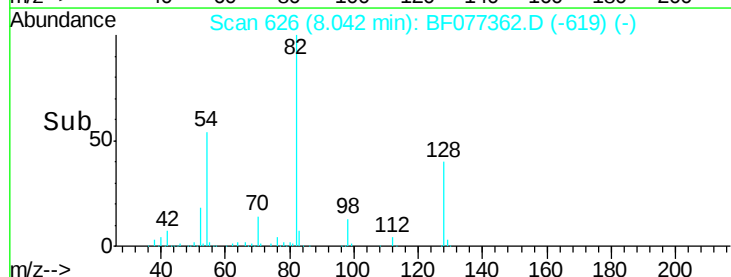
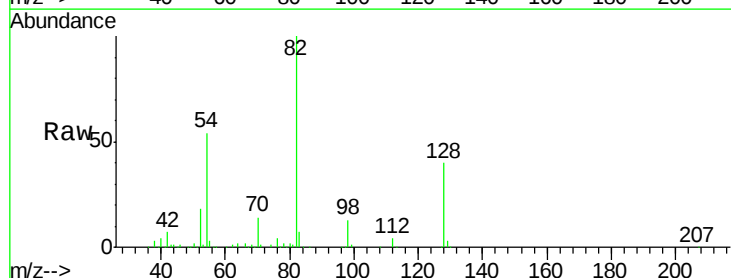
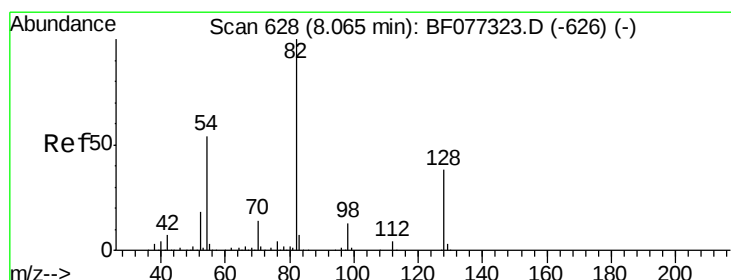
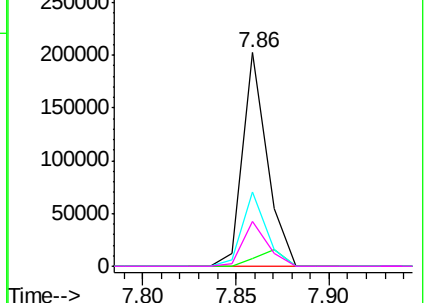
120 20.8 17.2 25.8

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: 92.61 ng

RT: 8.04 min Scan# 626

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Tgt Ion: 82 Resp: 253298

Ion Ratio Lower Upper

82 100

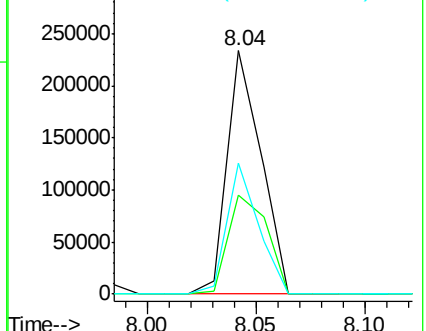
128 40.4 30.7 46.1

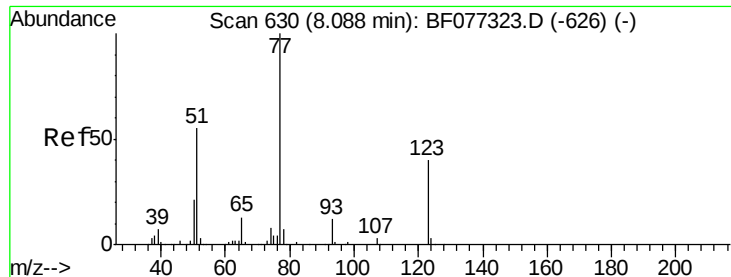
54 54.0 43.1 64.7

Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#24

Nitrobenzene

Concen: 44.63 ng

RT: 8.06 min Scan# 628

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

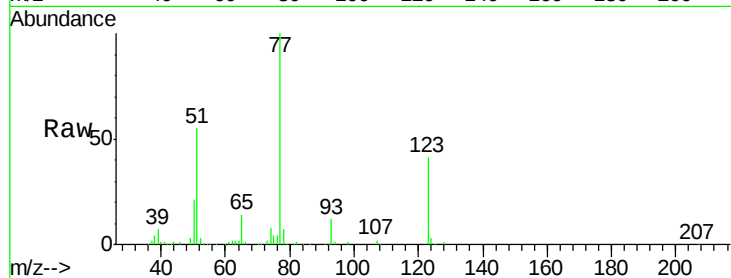
Tgt Ion: 77 Resp: 131562

Ion Ratio Lower Upper

77 100

123 41.3 31.7 47.5

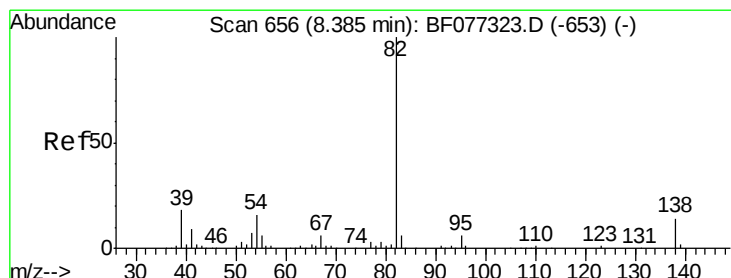
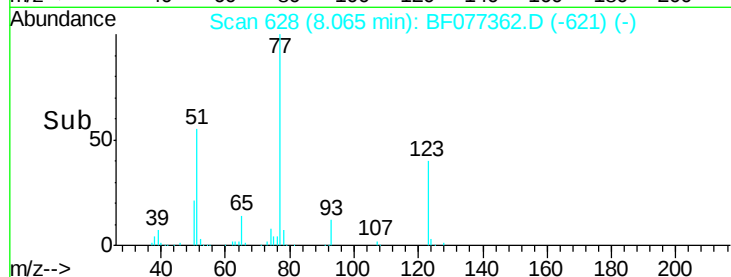
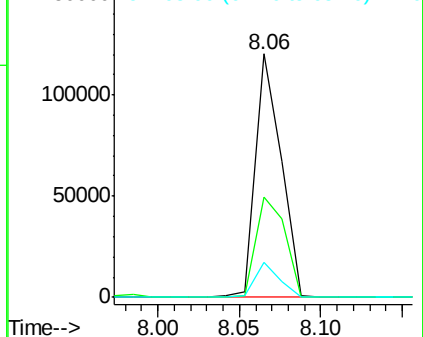
65 14.2 10.7 16.1



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: 40.04 ng

RT: 8.37 min Scan# 655

Delta R.T. -0.01 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

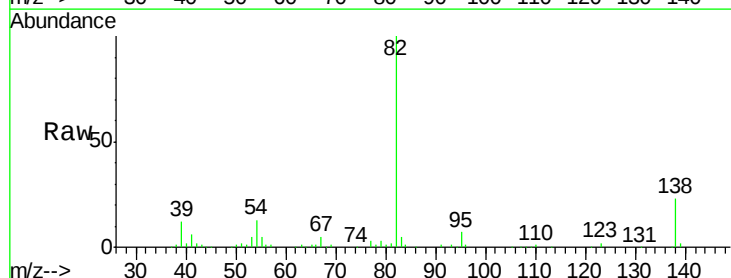
Tgt Ion: 82 Resp: 246865

Ion Ratio Lower Upper

82 100

95 7.3 5.0 7.6

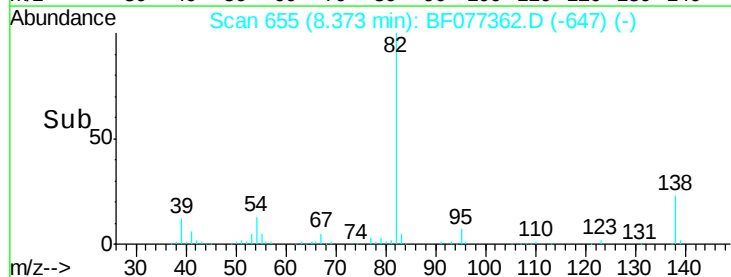
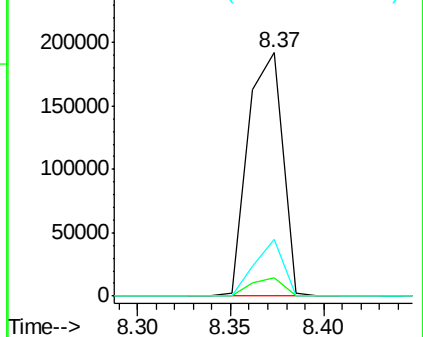
138 23.1 11.5 17.3#

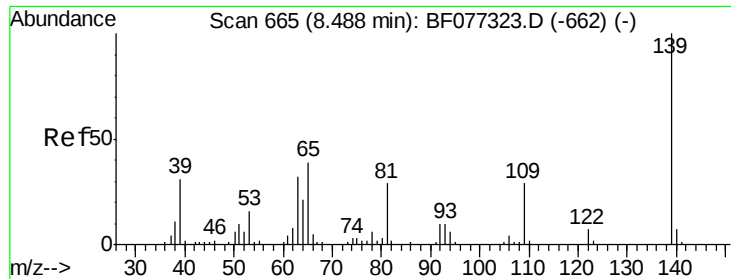


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0

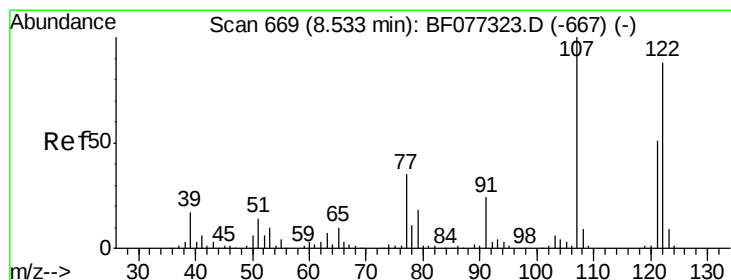
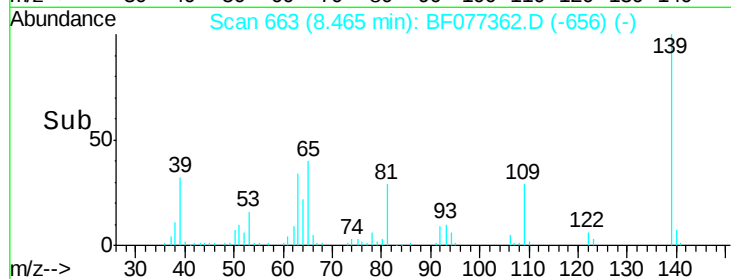
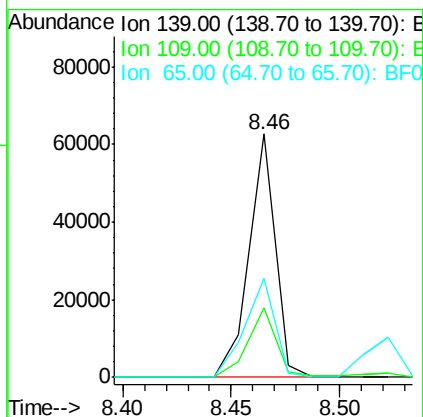
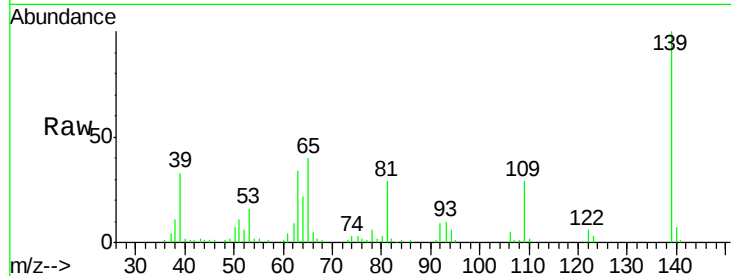




#26
2-Nitrophenol
Concen: 58.42 ng
RT: 8.46 min Scan# 663
Delta R.T. -0.02 min
Lab File: BF077362.D
Acq: 18 Feb 2015 20:01

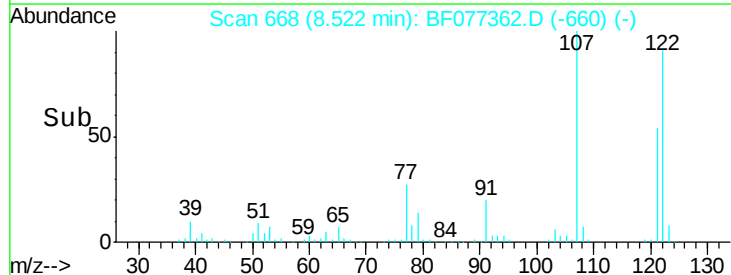
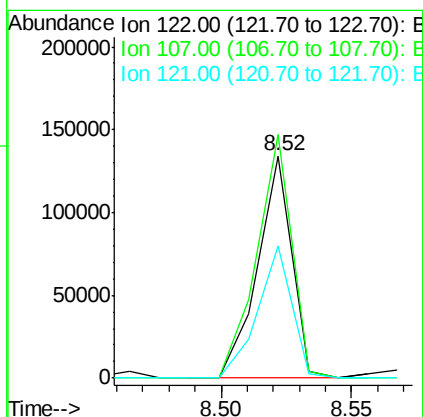
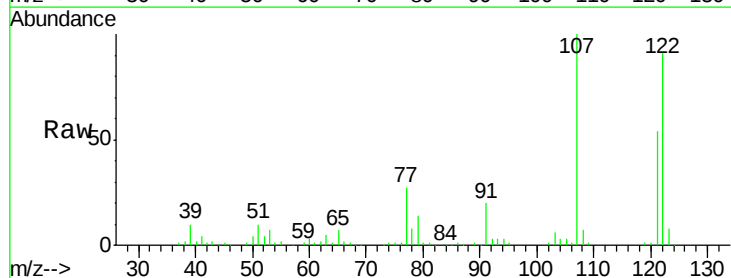
Instrument :
BNA_F
ClientSampleId :
SOIL-CHARACTERIZATIONMS

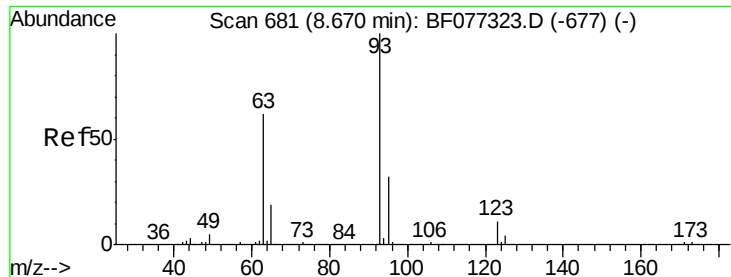
Tgt Ion:139 Resp: 52761
Ion Ratio Lower Upper
139 100
109 28.8 22.9 34.3
65 40.4 31.4 47.2



#27
2,4-Dimethylphenol
Concen: 43.51 ng
RT: 8.52 min Scan# 668
Delta R.T. -0.01 min
Lab File: BF077362.D
Acq: 18 Feb 2015 20:01

Tgt Ion:122 Resp: 122175
Ion Ratio Lower Upper
122 100
107 109.5 90.6 135.8
121 59.6 46.2 69.2

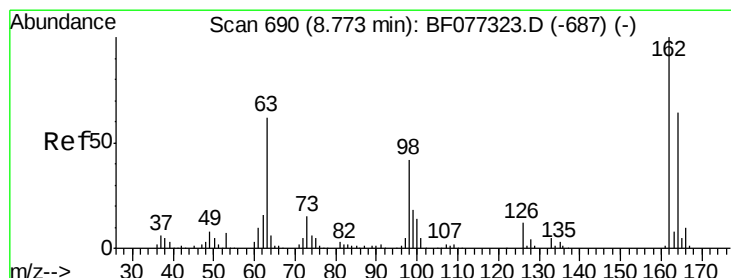
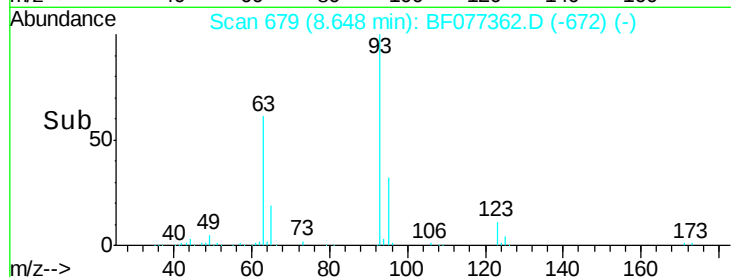
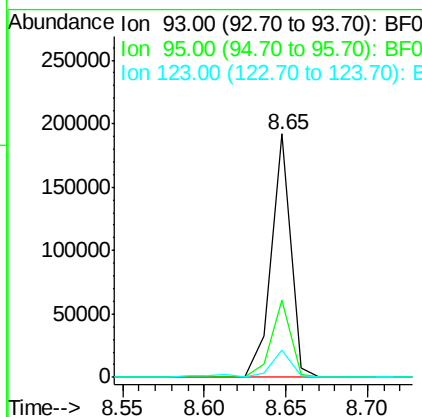
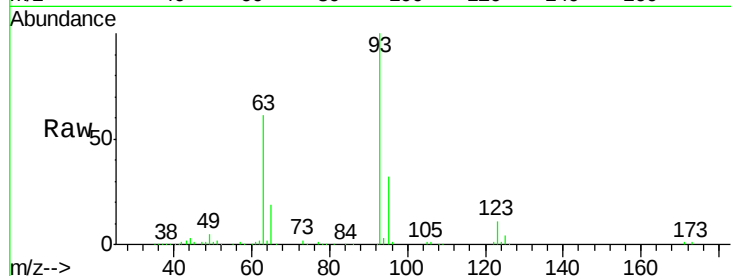




#28
 bis(2-Chloroethoxy)methane
 Concen: 40.18 ng
 RT: 8.65 min Scan# 679
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

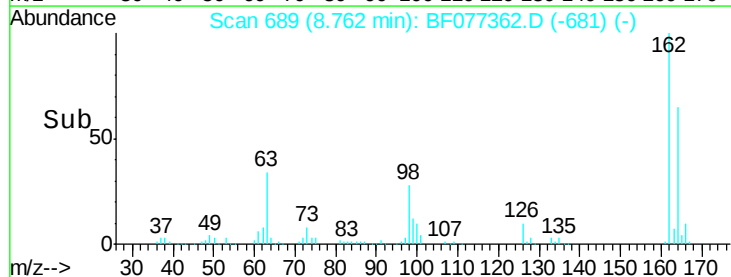
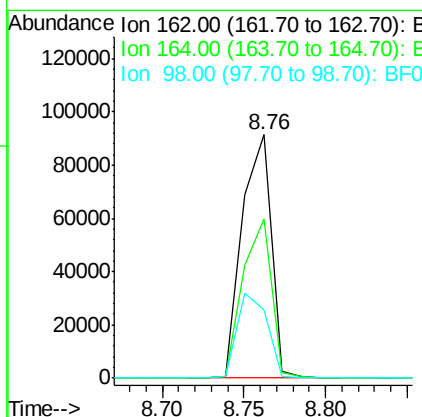
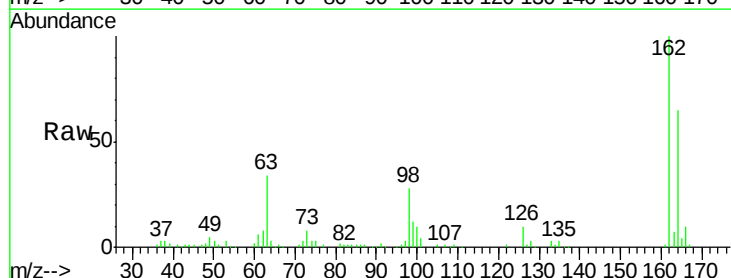
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMS

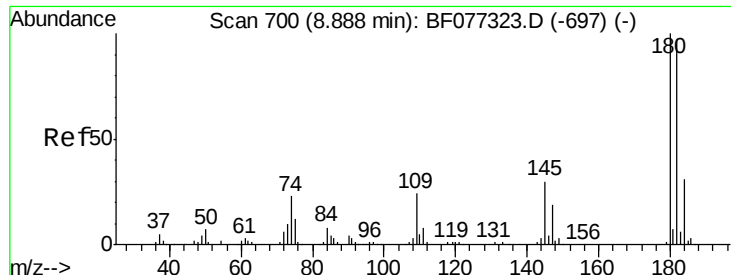
Tgt Ion: 93 Resp: 159373
 Ion Ratio Lower Upper
 93 100
 95 31.8 25.9 38.9
 123 11.4 9.2 13.8



#29
 2,4-Dichlorophenol
 Concen: 46.84 ng
 RT: 8.76 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

Tgt Ion: 162 Resp: 113035
 Ion Ratio Lower Upper
 162 100
 164 65.3 43.7 83.7
 98 28.1 21.7 61.7

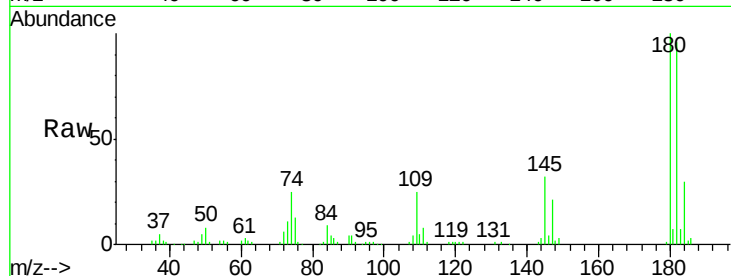




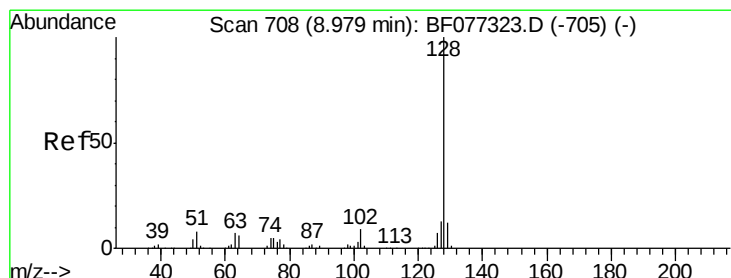
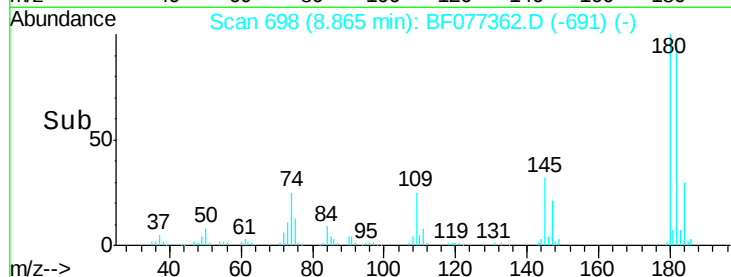
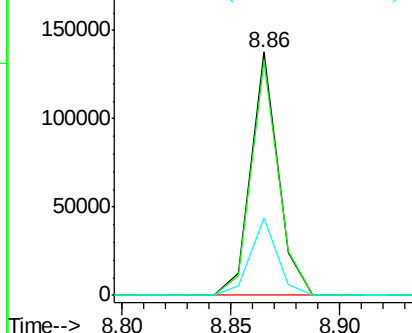
#30
 1,2,4-Trichlorobenzene
 Concen: 39.19 ng
 RT: 8.86 min Scan# 698
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMS

Tgt Ion:180 Resp: 120091
 Ion Ratio Lower Upper
 180 100
 182 96.3 77.8 116.8
 145 31.9 24.1 36.1

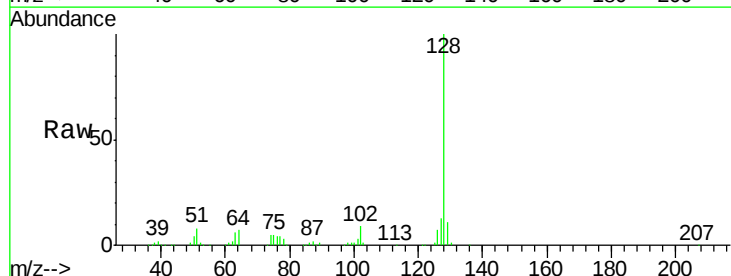


Abundance Ion 180.00 (179.70 to 180.70): E
 Ion 182.00 (181.70 to 182.70): E
 Ion 145.00 (144.70 to 145.70): E

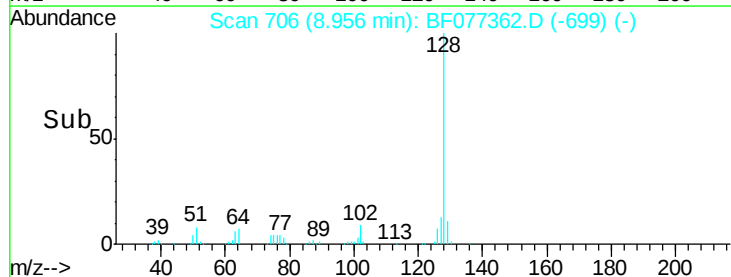
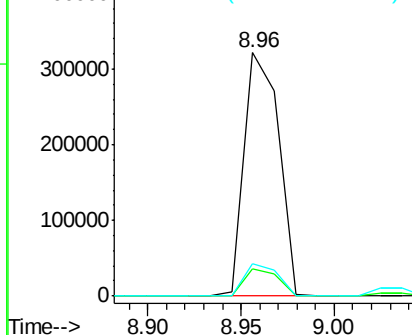


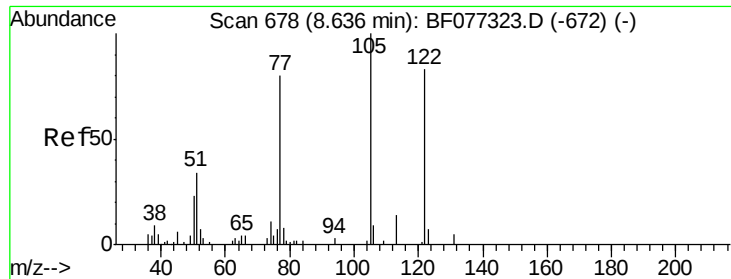
#31
 Naphthalene
 Concen: 43.49 ng
 RT: 8.96 min Scan# 706
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

Tgt Ion:128 Resp: 412208
 Ion Ratio Lower Upper
 128 100
 129 11.3 9.5 14.3
 127 13.3 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E

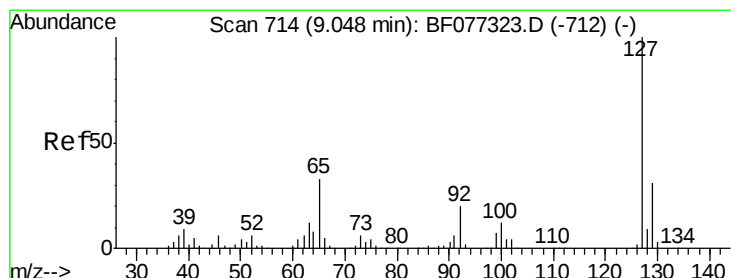
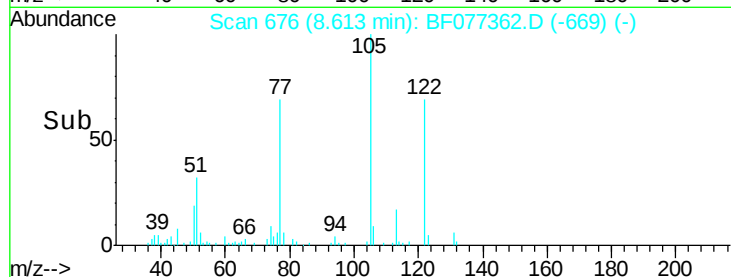
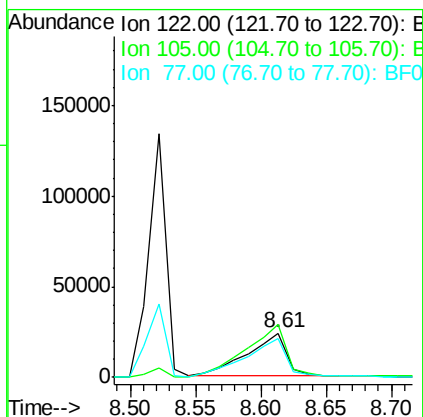
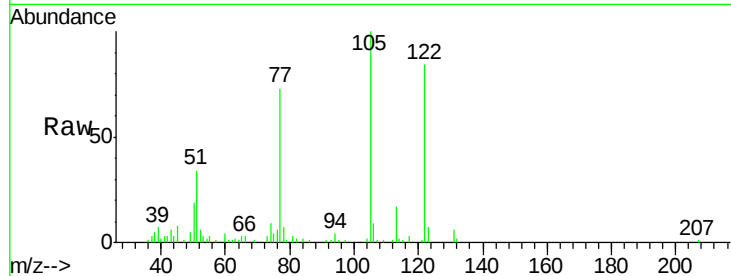




#32
Benzoic acid
Concen: 68.61 ng
RT: 8.61 min Scan# 676
Delta R.T. -0.02 min
Lab File: BF077362.D
Acq: 18 Feb 2015 20:01

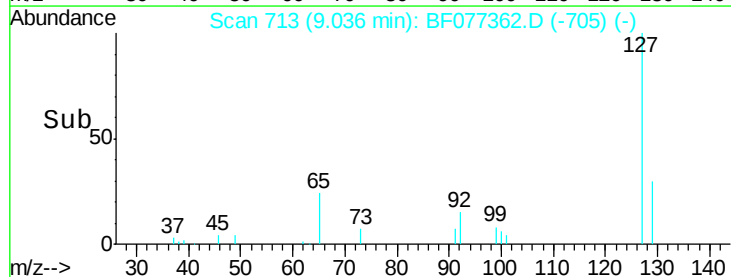
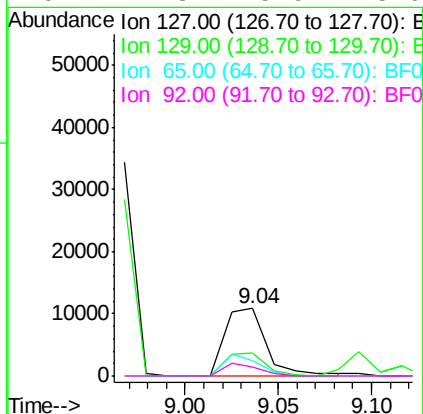
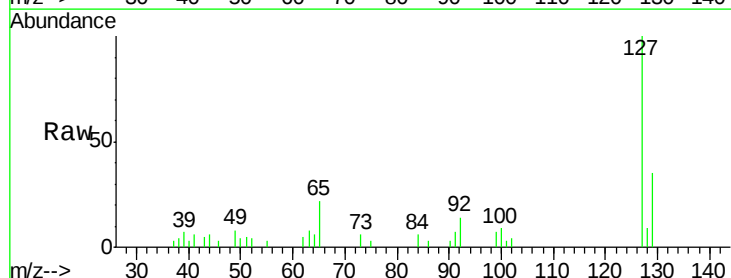
Instrument :
BNA_F
ClientSampleId :
SOIL-CHARACTERIZATIONMS

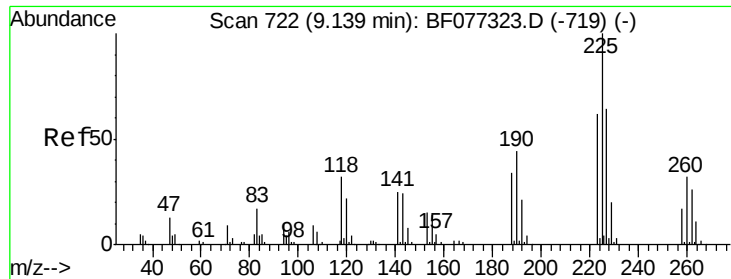
Tgt Ion:122 Resp: 51486
Ion Ratio Lower Upper
122 100
105 118.8 98.4 138.4
77 86.7 75.4 115.4



#33
4-Chloroaniline
Concen: 4.19 ng
RT: 9.04 min Scan# 713
Delta R.T. -0.01 min
Lab File: BF077362.D
Acq: 18 Feb 2015 20:01

Tgt Ion:127 Resp: 16960
Ion Ratio Lower Upper
127 100
129 34.6 24.9 37.3
65 22.4 26.4 39.6#
92 14.3 15.9 23.9#





#34

Hexachlorobutadiene

Concen: 37.53 ng

RT: 9.12 min Scan# 720

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

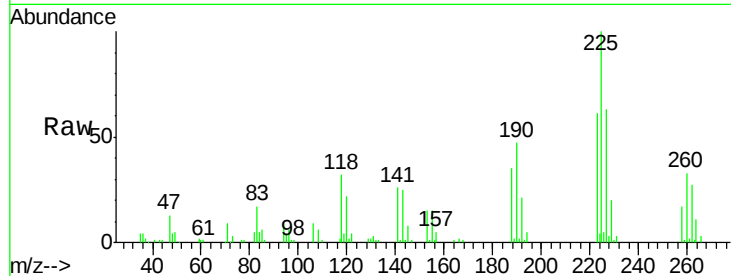
Tgt Ion:225 Resp: 62866

Ion Ratio Lower Upper

225 100

223 61.3 49.4 74.2

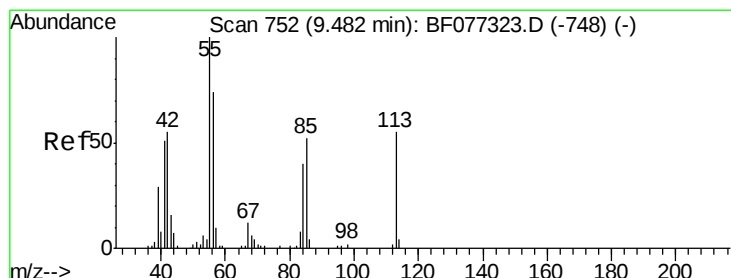
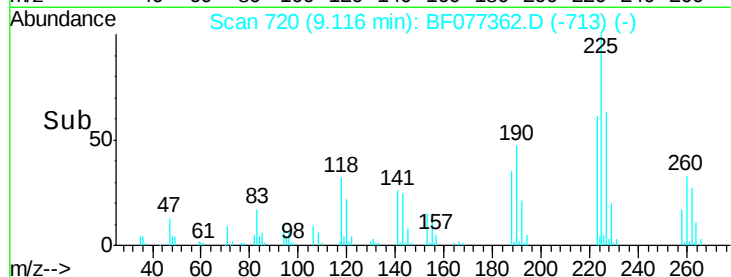
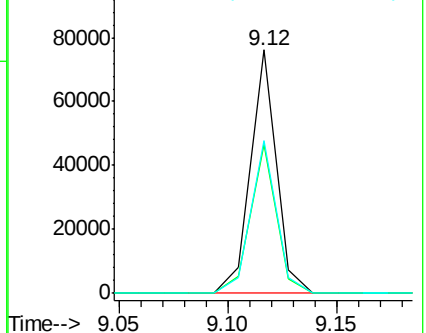
227 62.8 51.0 76.6



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: 43.98 ng

RT: 9.45 min Scan# 749

Delta R.T. -0.03 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

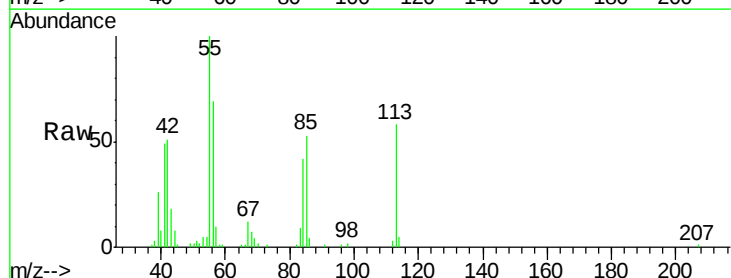
Tgt Ion:113 Resp: 32660

Ion Ratio Lower Upper

113 100

55 172.4 163.0 203.0

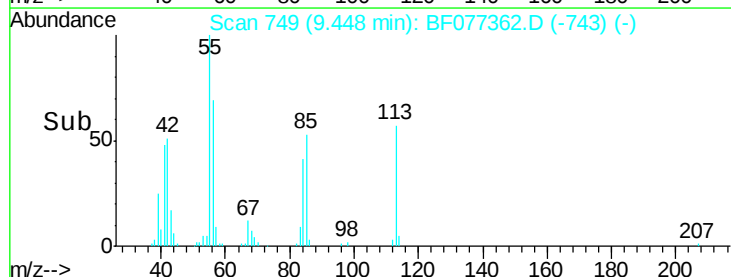
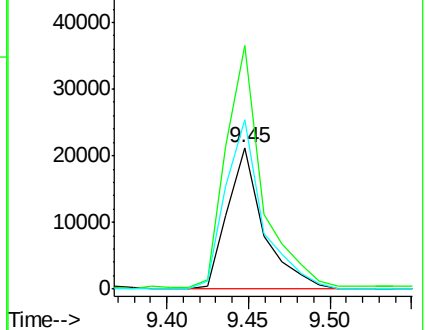
56 119.6 115.6 155.6

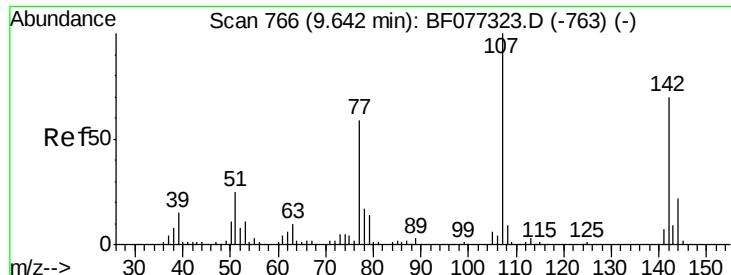


Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0

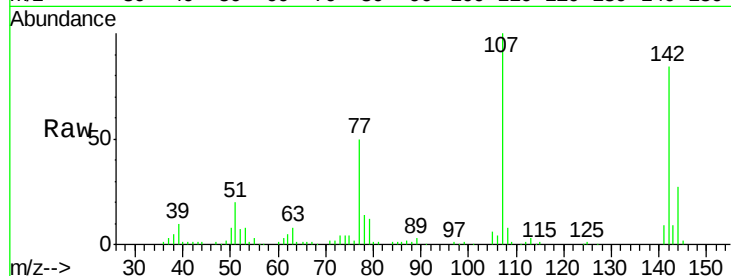




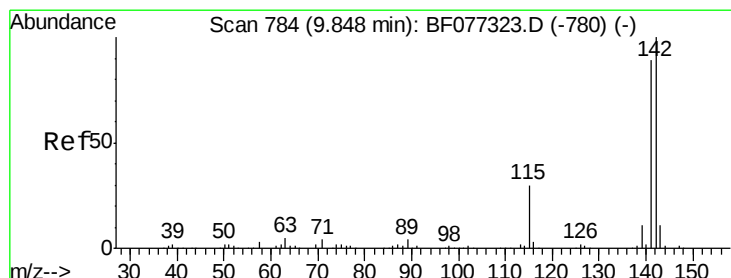
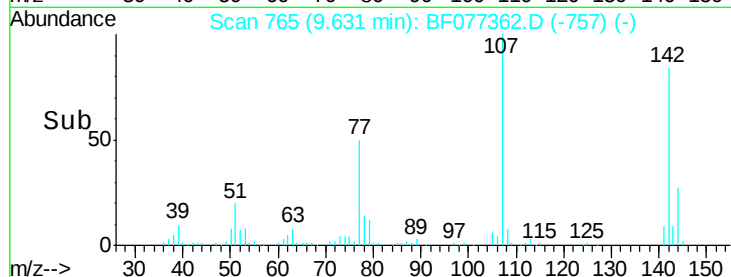
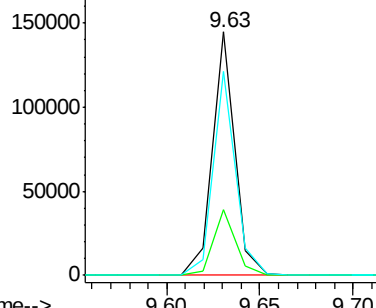
#36
 4-Chloro-3-methylphenol
 Concen: 45.68 ng
 RT: 9.63 min Scan# 765
 Delta R.T. -0.01 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMS

Tgt Ion:107 Resp: 121280
 Ion Ratio Lower Upper
 107 100
 144 26.8 17.8 26.6#
 142 83.5 55.7 83.5#

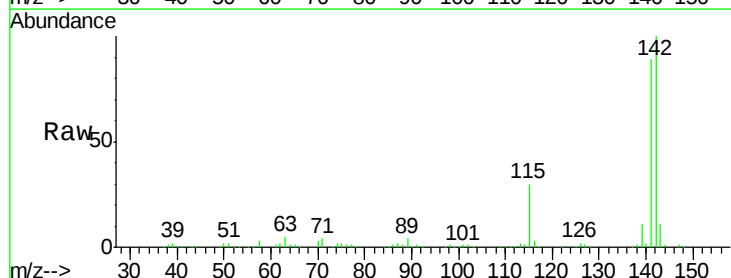


Abundance Ion 107.00 (106.70 to 107.70): E
 Ion 144.00 (143.70 to 144.70): E
 Ion 142.00 (141.70 to 142.70): E

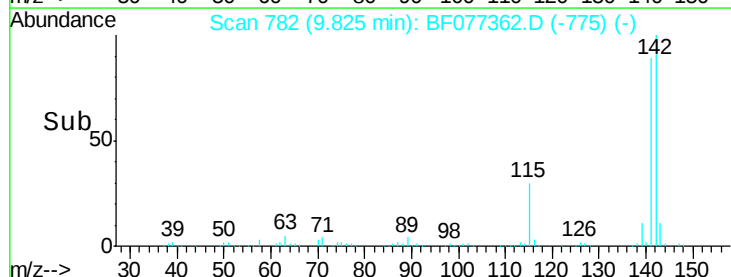
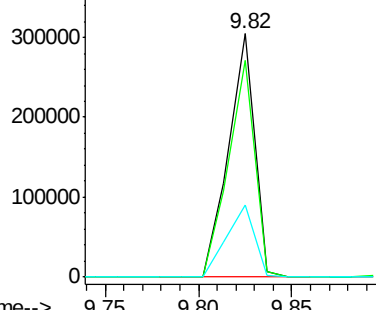


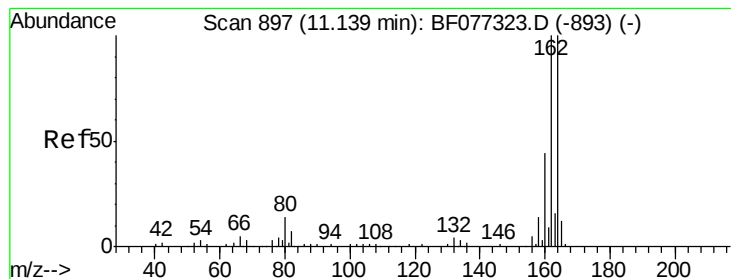
#37
 2-Methylnaphthalene
 Concen: 43.29 ng
 RT: 9.82 min Scan# 782
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

Tgt Ion:142 Resp: 295134
 Ion Ratio Lower Upper
 142 100
 141 88.9 71.2 106.8
 115 29.7 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: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

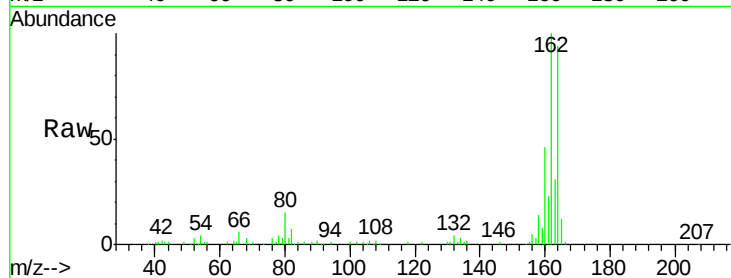
Tgt Ion:164 Resp: 93152

Ion Ratio Lower Upper

164 100

162 106.5 80.4 120.6

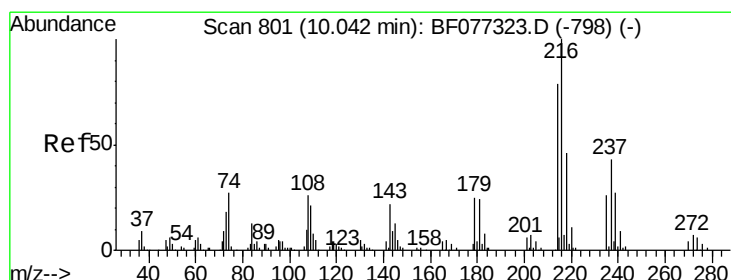
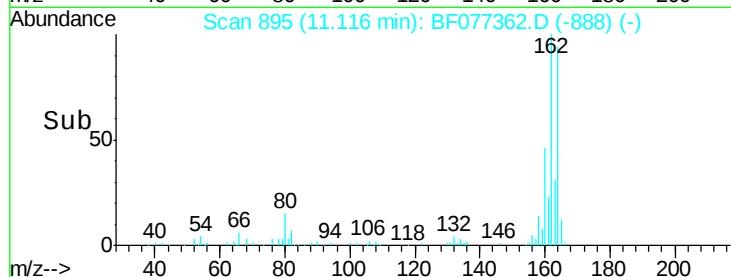
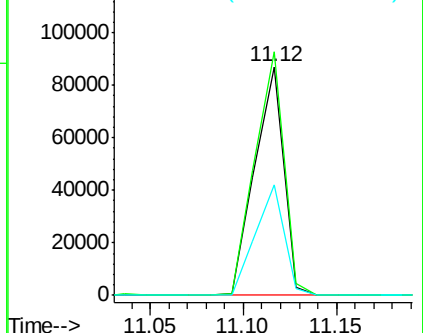
160 48.6 35.3 52.9



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: 43.90 ng

RT: 10.03 min Scan# 800

Delta R.T. -0.01 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Tgt Ion:216 Resp: 118101

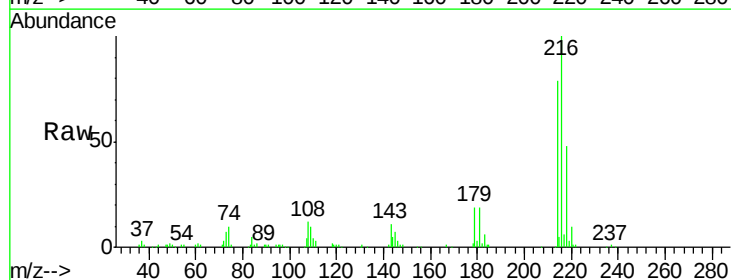
Ion Ratio Lower Upper

216 100

214 79.2 62.5 93.7

179 21.5 17.6 26.4

108 20.3 16.6 25.0

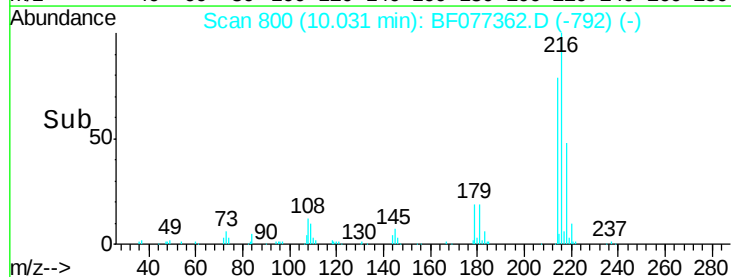
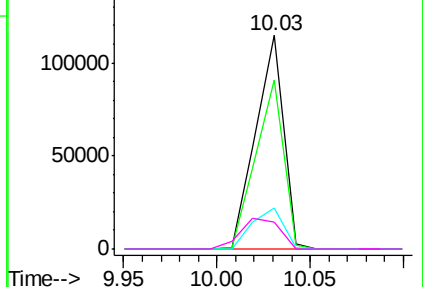


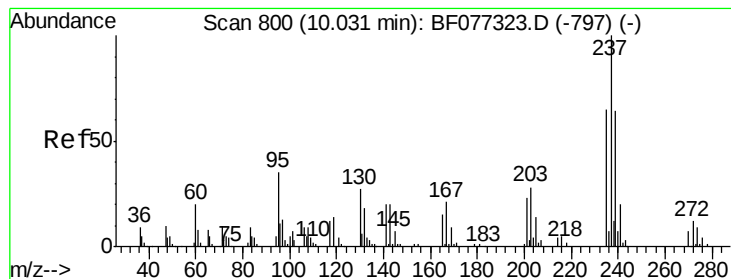
Abundance Ion 216.00 (215.70 to 216.70): E

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: 63.01 ng

RT: 10.02 min Scan# 799

Delta R.T. -0.01 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

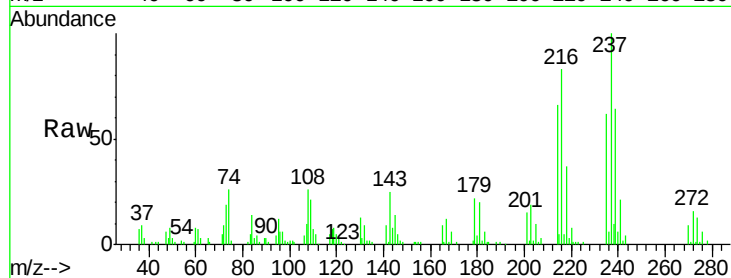
Tgt Ion:237 Resp: 84253

Ion Ratio Lower Upper

237 100

235 61.7 44.5 84.5

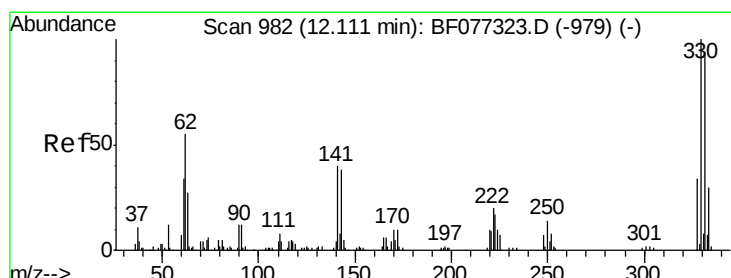
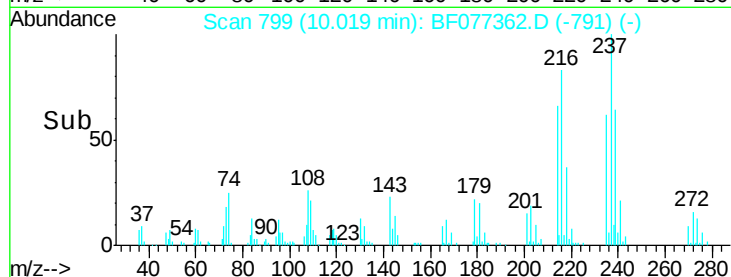
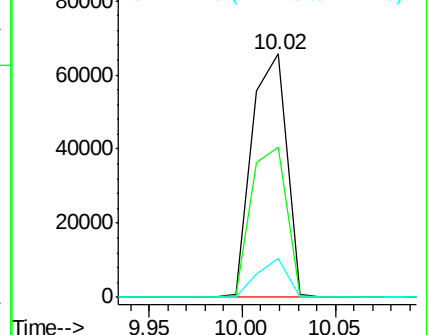
272 15.7 0.0 32.2



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: 162.61 ng

RT: 12.10 min Scan# 981

Delta R.T. -0.01 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

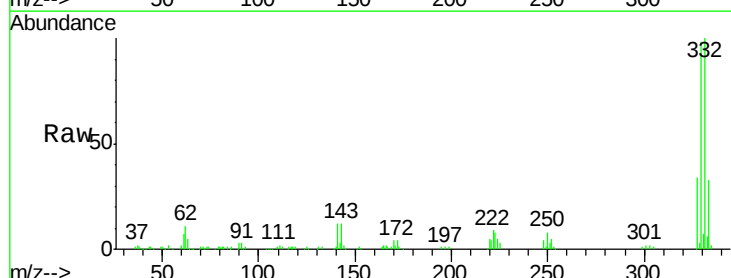
Tgt Ion:330 Resp: 141381

Ion Ratio Lower Upper

330 100

332 102.3 76.1 114.1

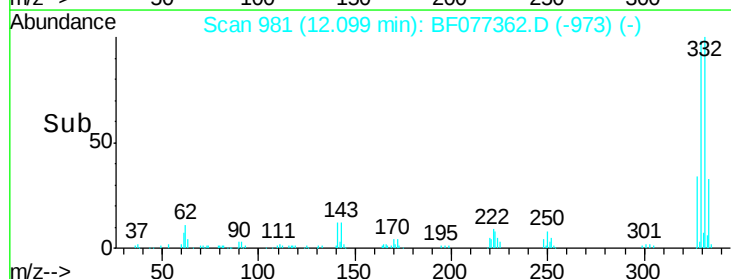
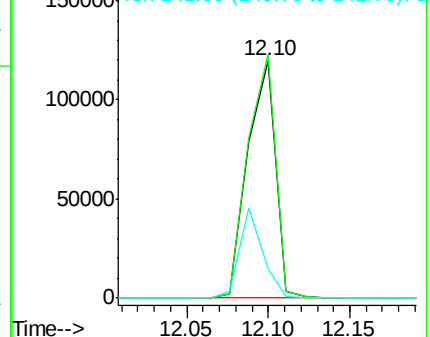
141 31.5 28.5 42.7

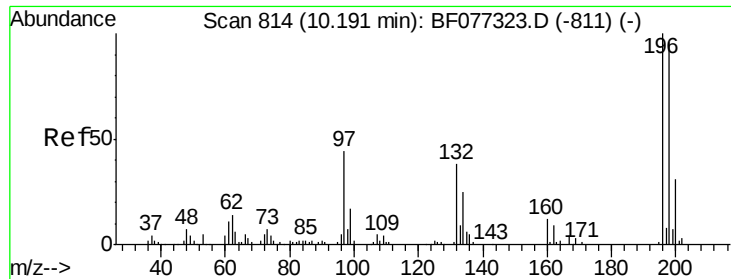


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

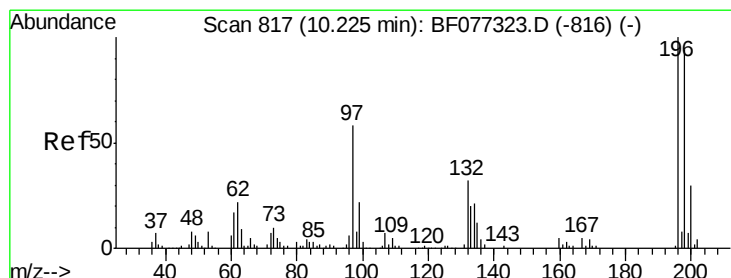
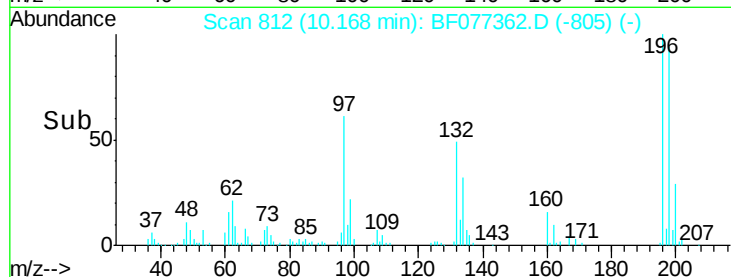
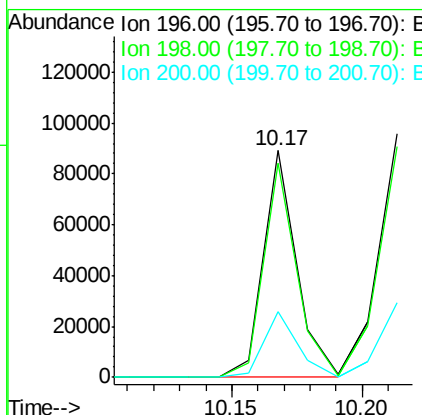
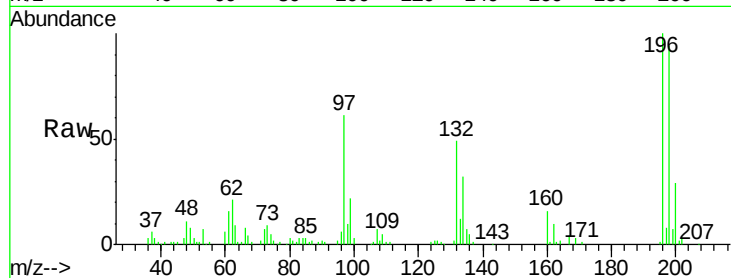




#42
 2,4,6-Trichlorophenol
 Concen: 52.48 ng
 RT: 10.17 min Scan# 812
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

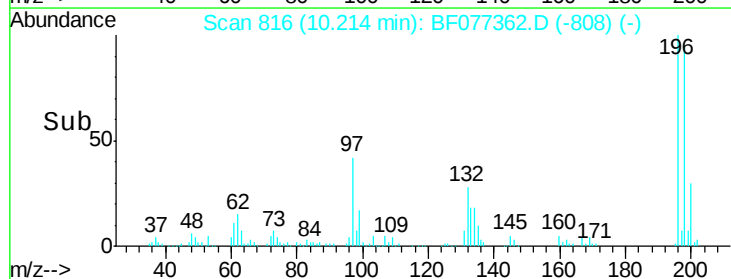
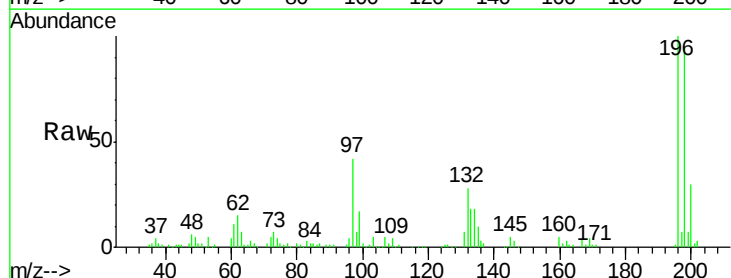
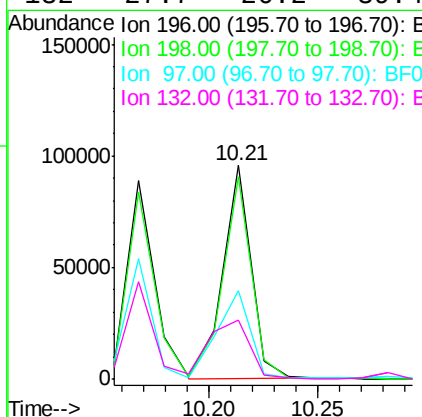
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMS

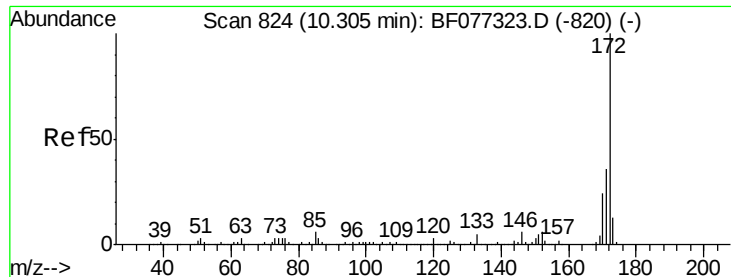
Tgt Ion:196 Resp: 79090
 Ion Ratio Lower Upper
 196 100
 198 94.3 76.7 115.1
 200 29.0 24.7 37.1



#43
 2,4,5-Trichlorophenol
 Concen: 53.56 ng
 RT: 10.21 min Scan# 816
 Delta R.T. -0.01 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

Tgt Ion:196 Resp: 86295
 Ion Ratio Lower Upper
 196 100
 198 94.6 75.1 112.7
 97 41.6 48.8 73.2#
 132 27.7 26.2 39.4





#44

2-Fluorobiphenyl

Concen: 97.99 ng

RT: 10.28 min Scan# 822

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

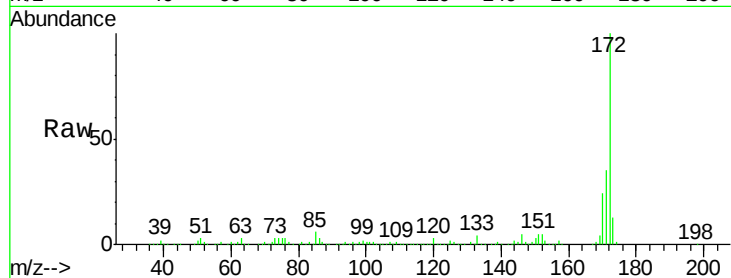
Tgt Ion:172 Resp: 605463

Ion Ratio Lower Upper

172 100

171 35.2 28.9 43.3

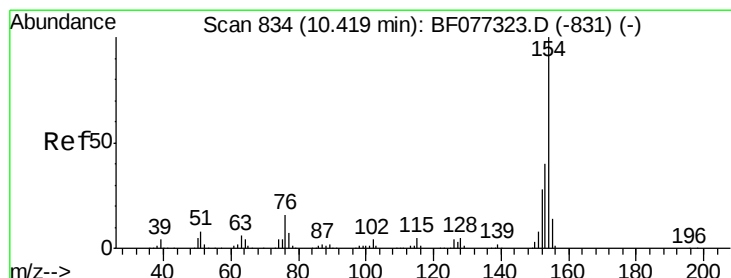
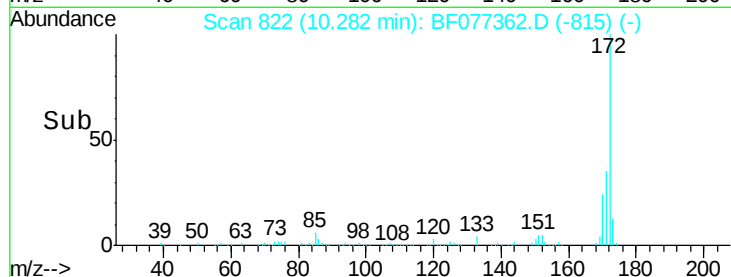
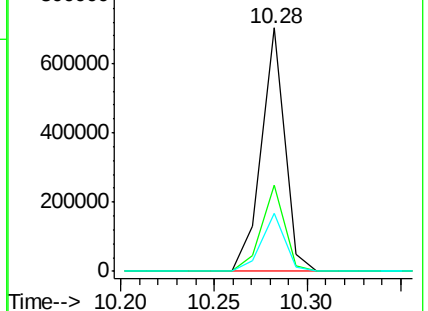
170 23.7 19.4 29.2



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: 45.94 ng

RT: 10.41 min Scan# 833

Delta R.T. -0.01 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

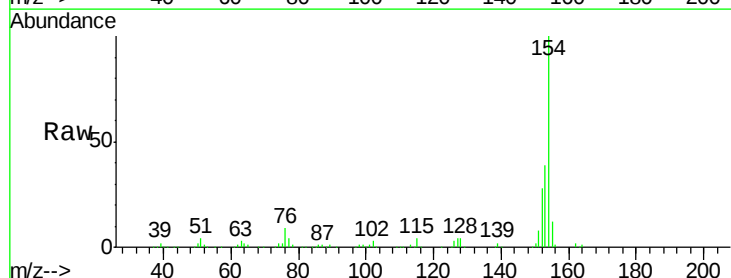
Tgt Ion:154 Resp: 341183

Ion Ratio Lower Upper

154 100

153 39.2 20.5 60.5

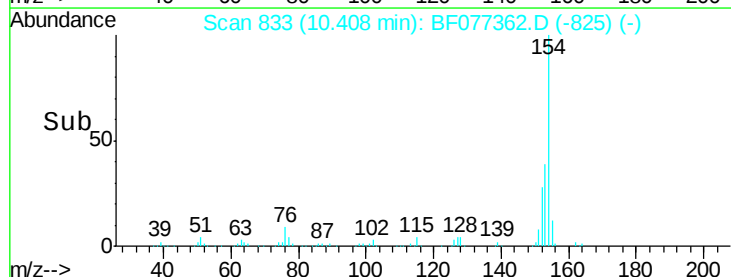
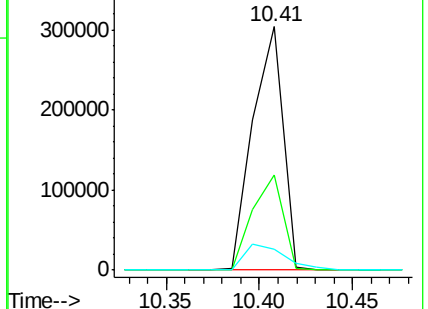
76 8.7 0.0 35.9

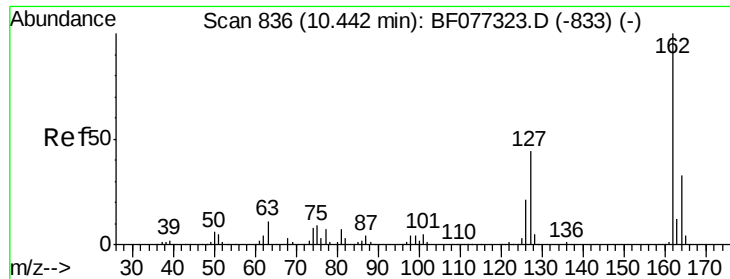


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0

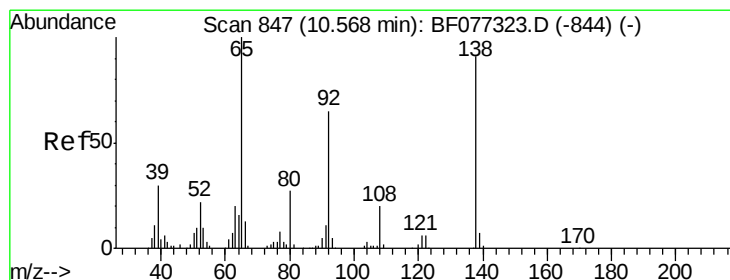
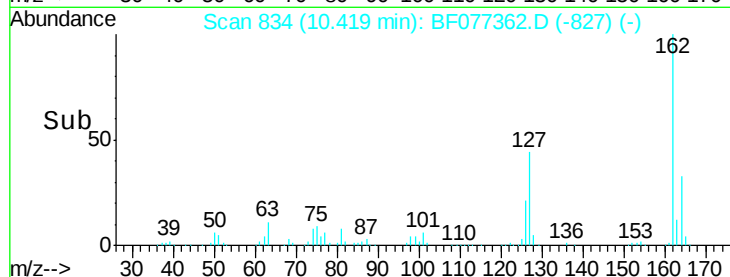
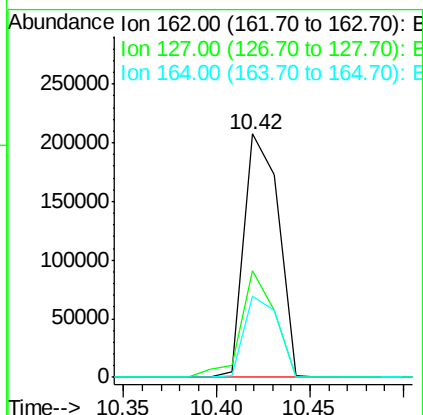
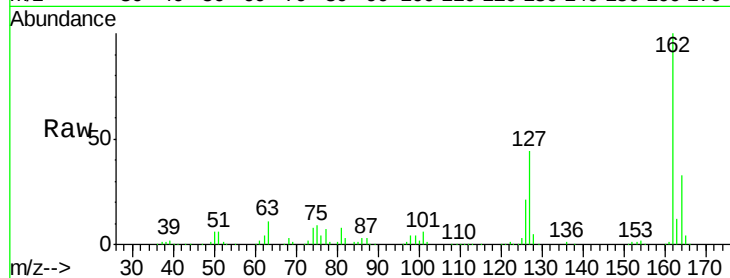




#46
 2-Chloronaphthalene
 Concen: 48.14 ng
 RT: 10.42 min Scan# 834
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

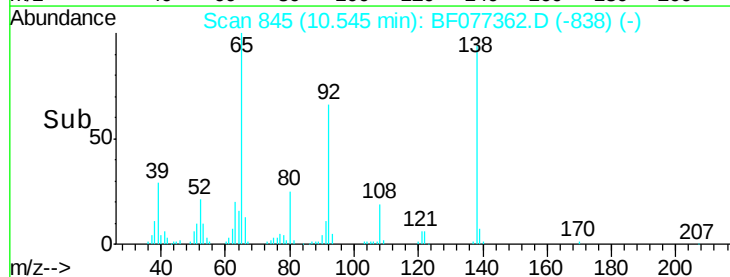
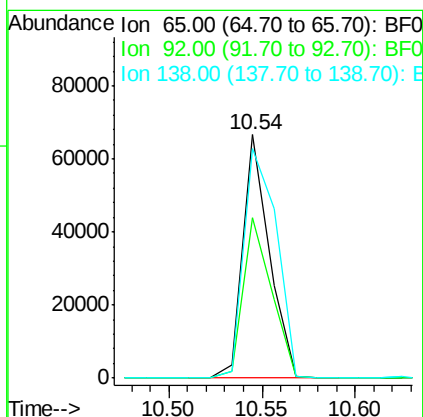
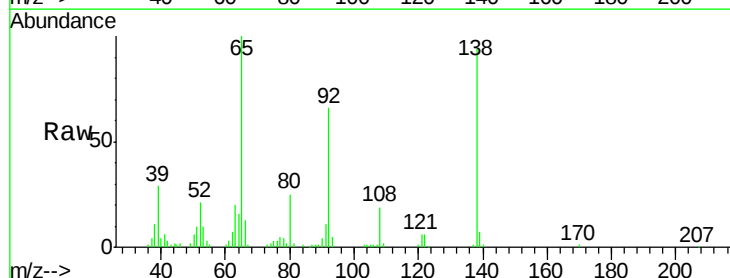
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMS

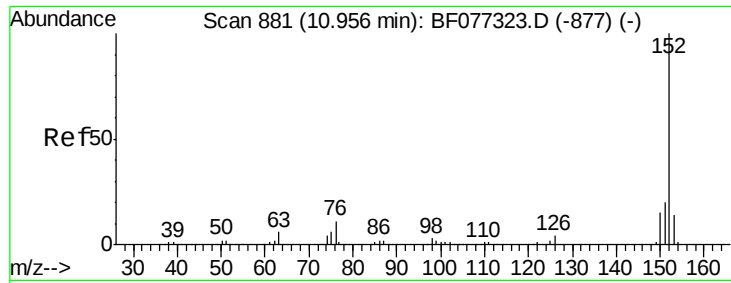
Tgt Ion: 162 Resp: 265602
 Ion Ratio Lower Upper
 162 100
 127 43.9 35.4 53.0
 164 33.1 26.2 39.2



#47
 2-Nitroaniline
 Concen: 55.86 ng
 RT: 10.54 min Scan# 845
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

Tgt Ion: 65 Resp: 65881
 Ion Ratio Lower Upper
 65 100
 92 66.1 52.3 78.5
 138 94.2 73.2 109.8

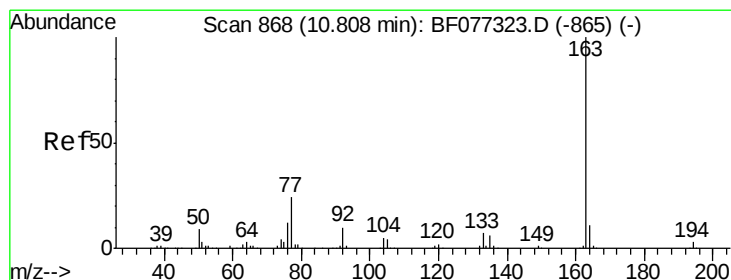
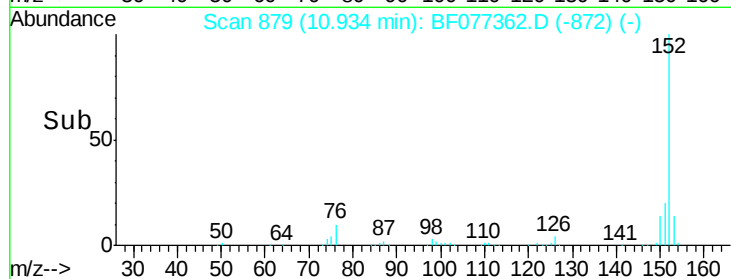
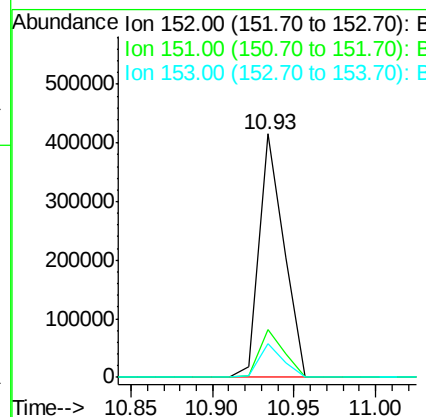
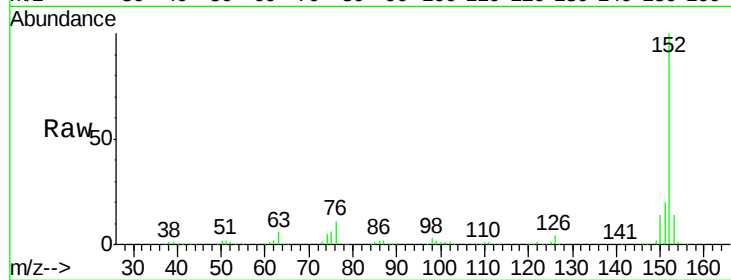




#48
 Acenaphthylene
 Concen: 48.13 ng
 RT: 10.93 min Scan# 879
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

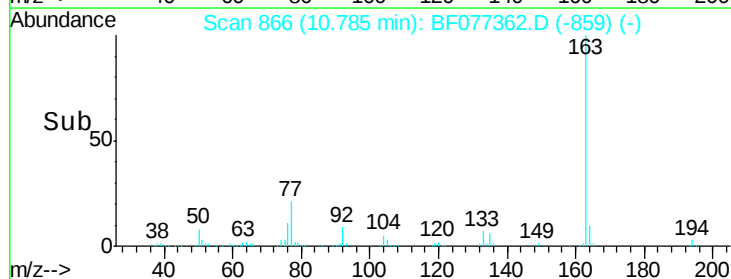
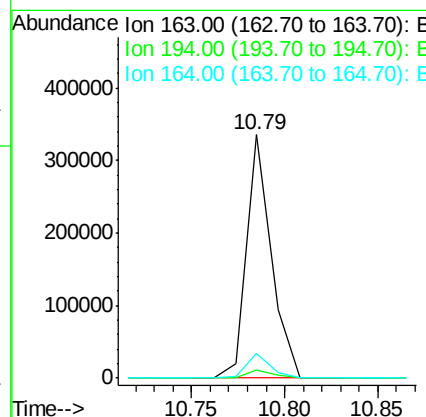
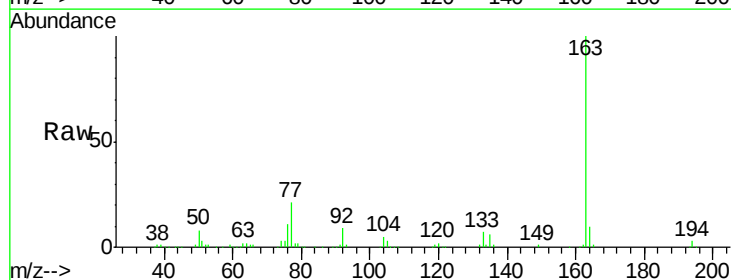
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMS

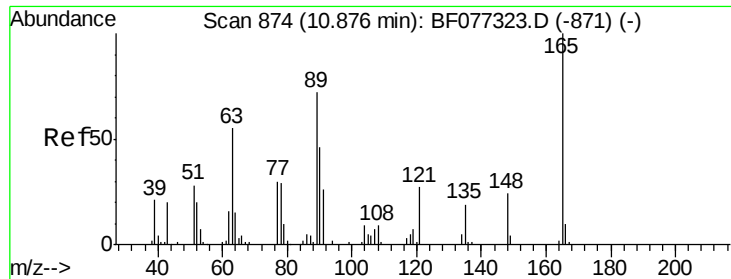
Tgt Ion:152 Resp: 437836
 Ion Ratio Lower Upper
 152 100
 151 19.8 16.3 24.5
 153 13.8 10.9 16.3



#49
 Dimethylphthalate
 Concen: 48.19 ng
 RT: 10.79 min Scan# 866
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

Tgt Ion:163 Resp: 308924
 Ion Ratio Lower Upper
 163 100
 194 3.2 2.6 3.8
 164 10.4 8.4 12.6

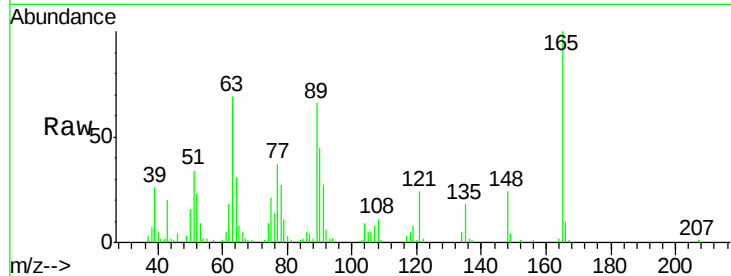




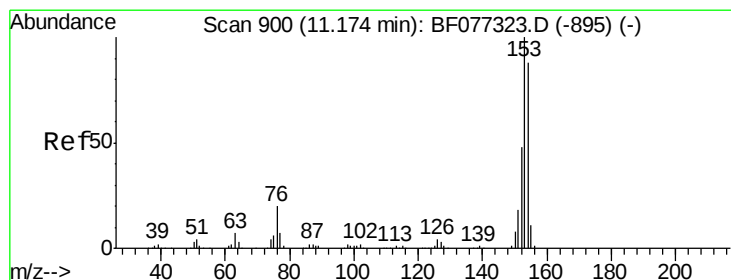
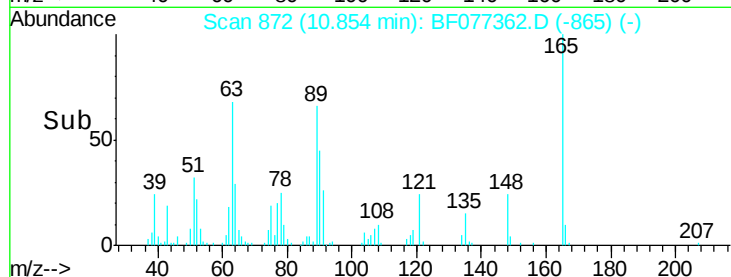
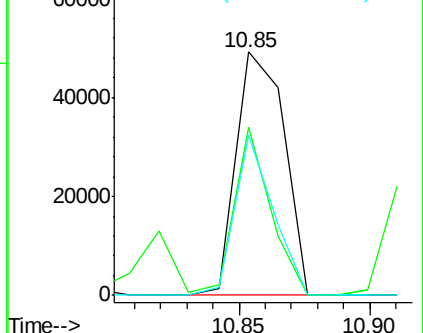
#50
2,6-Dinitrotoluene
Concen: 53.50 ng
RT: 10.85 min Scan# 872
Delta R.T. -0.02 min
Lab File: BF077362.D
Acq: 18 Feb 2015 20:01

Instrument :
BNA_F
ClientSampleId :
SOIL-CHARACTERIZATIONMS

Tgt Ion:165 Resp: 63594
Ion Ratio Lower Upper
165 100
63 69.2 57.2 85.8
89 65.8 57.8 86.6

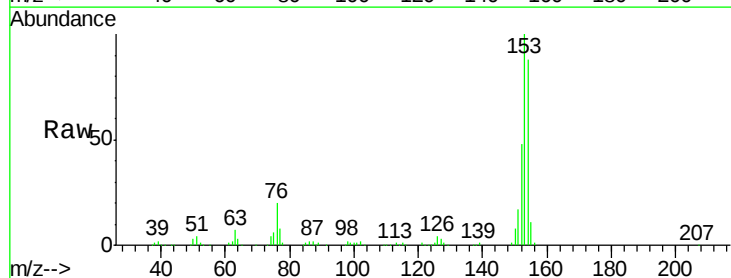


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

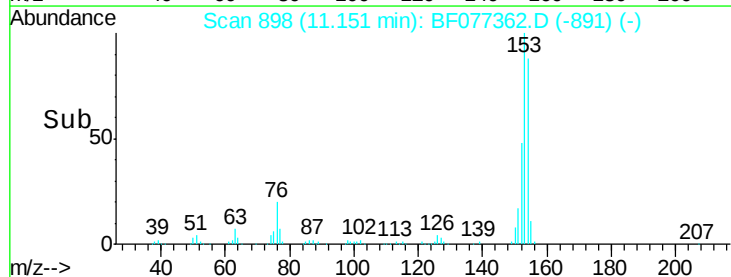
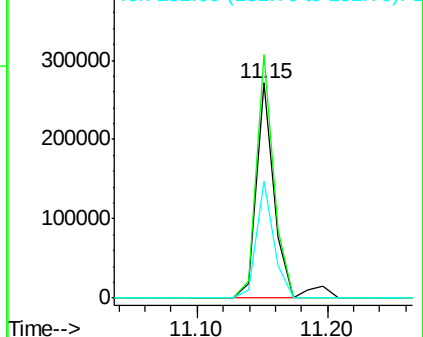


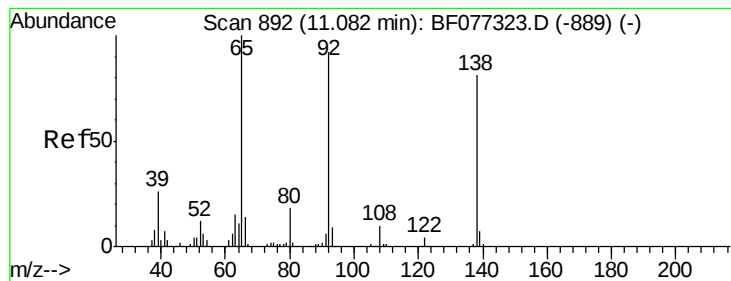
#51
Acenaphthene
Concen: 49.96 ng
RT: 11.15 min Scan# 898
Delta R.T. -0.02 min
Lab File: BF077362.D
Acq: 18 Feb 2015 20:01

Tgt Ion:154 Resp: 269759
Ion Ratio Lower Upper
154 100
153 113.2 90.9 136.3
152 54.5 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: 9.54 ng

RT: 11.06 min Scan# 890

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

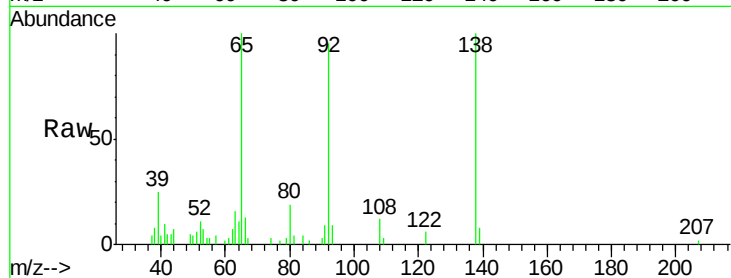
Tgt Ion:138 Resp: 13311

Ion Ratio Lower Upper

138 100

108 12.5 10.2 15.2

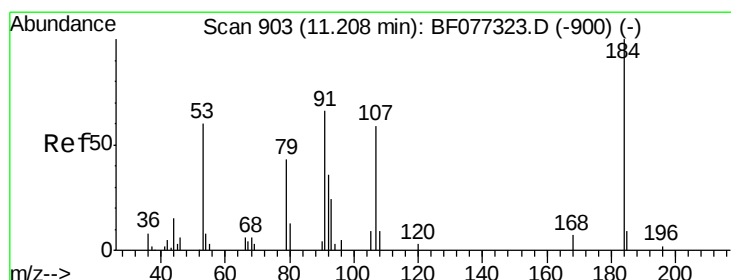
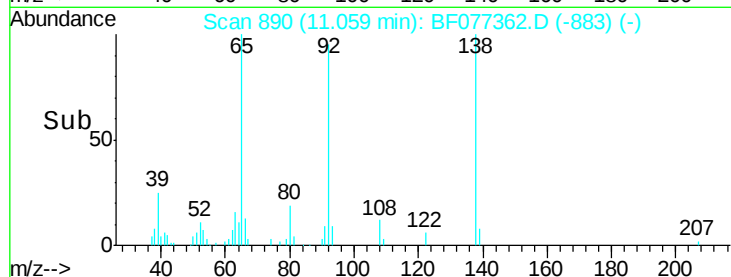
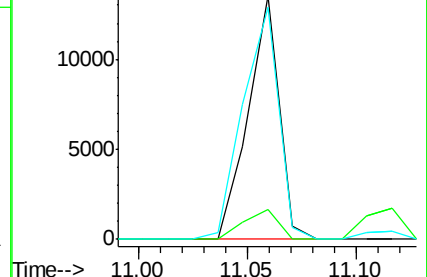
92 95.3 90.9 136.3



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: 144.84 ng

RT: 11.20 min Scan# 902

Delta R.T. -0.01 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

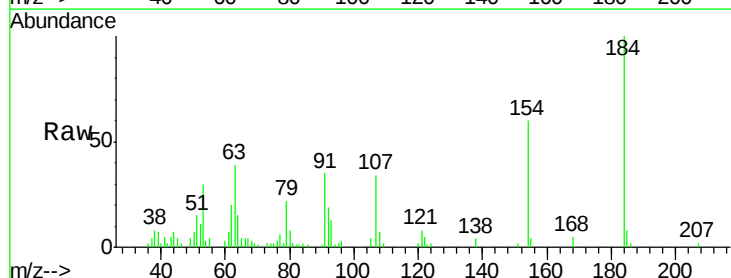
Tgt Ion:184 Resp: 26802

Ion Ratio Lower Upper

184 100

63 38.8 69.3 103.9#

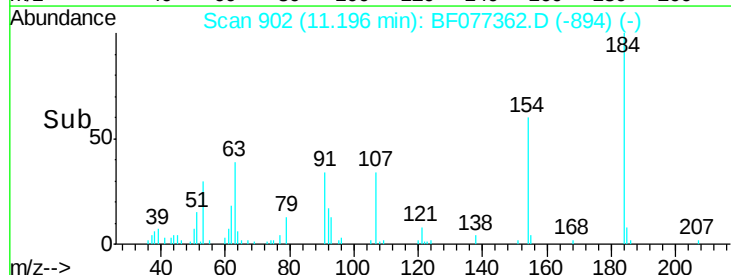
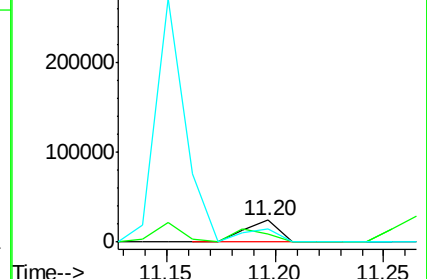
154 59.6 56.3 84.5

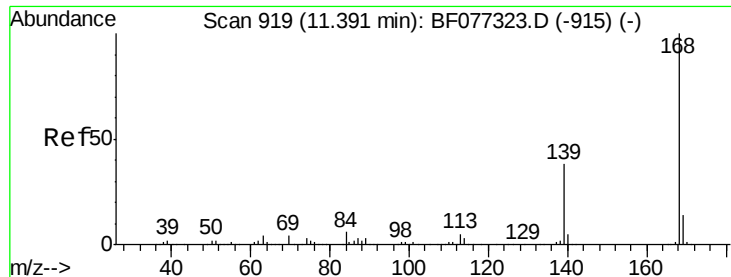


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 154.00 (153.70 to 154.70): E

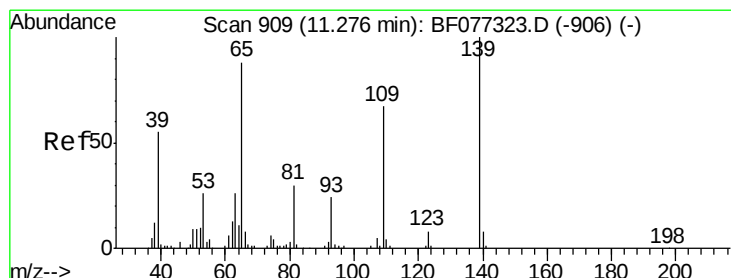
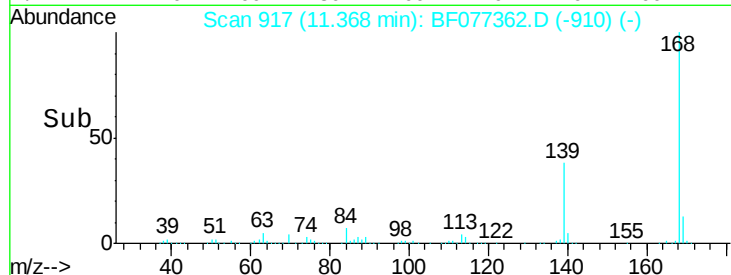
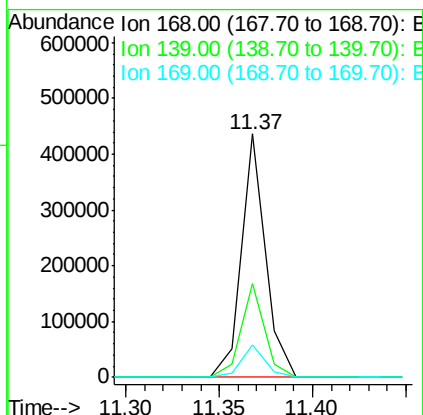
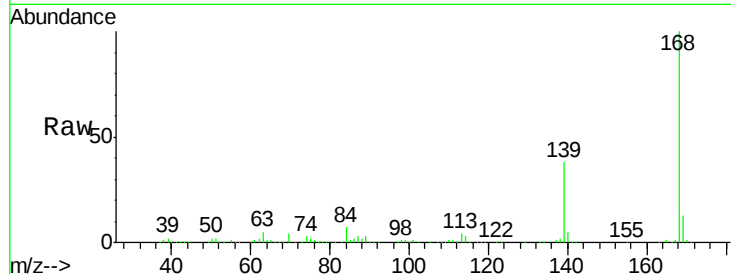




#54
Dibenzenofuran
Concen: 47.83 ng
RT: 11.37 min Scan# 917
Delta R.T. -0.02 min
Lab File: BF077362.D
Acq: 18 Feb 2015 20:01

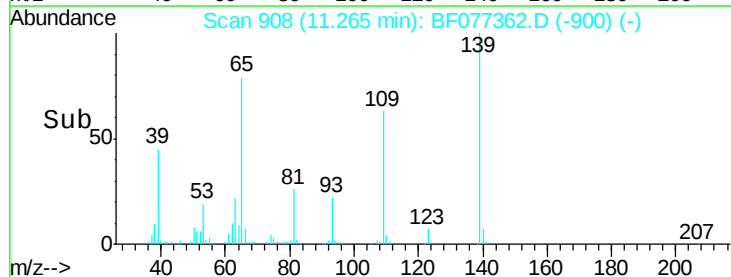
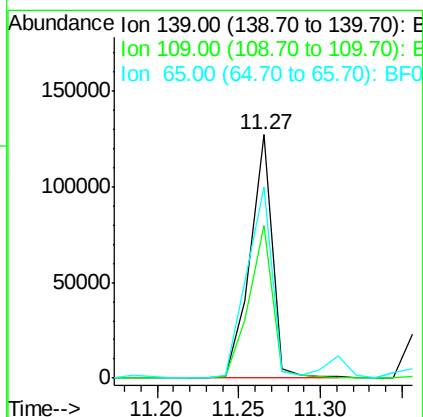
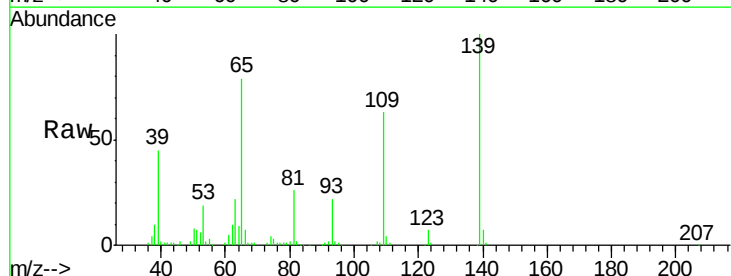
Instrument :
BNA_F
ClientSampleId :
SOIL-CHARACTERIZATIONMS

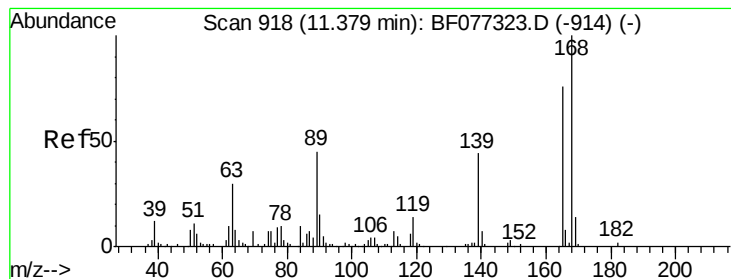
Tgt Ion:168 Resp: 391720
Ion Ratio Lower Upper
168 100
139 38.3 30.6 45.8
169 13.4 11.0 16.4



#55
4-Nitrophenol
Concen: 126.00 ng
RT: 11.27 min Scan# 908
Delta R.T. -0.01 min
Lab File: BF077362.D
Acq: 18 Feb 2015 20:01

Tgt Ion:139 Resp: 121424
Ion Ratio Lower Upper
139 100
109 62.9 47.5 87.5
65 78.5 67.8 107.8





#56

2,4-Dinitrotoluene

Concen: 59.82 ng

RT: 11.36 min Scan# 916

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

Tgt Ion:165 Resp: 89964

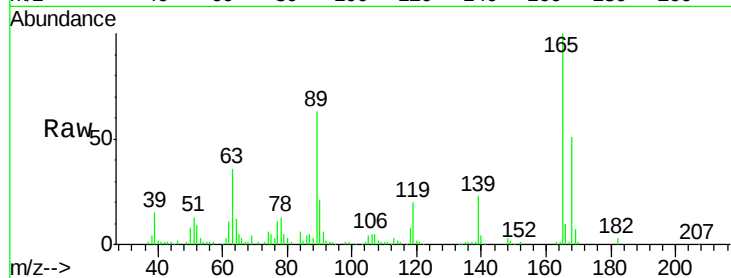
Ion Ratio Lower Upper

165 100

63 36.3 31.6 47.4

89 62.6 48.1 72.1

182 2.5 1.9 2.9

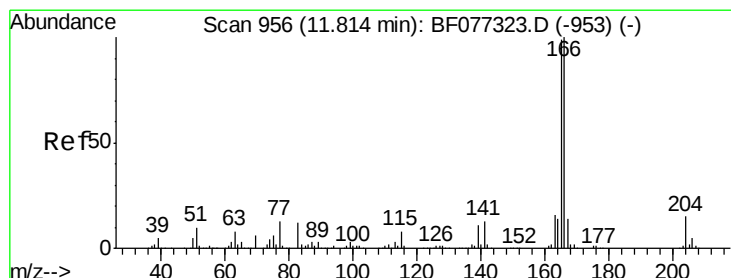
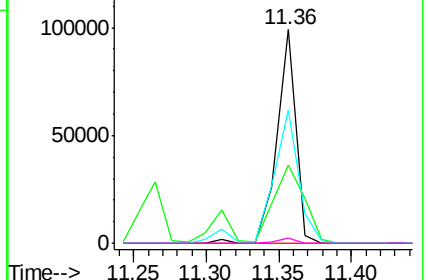
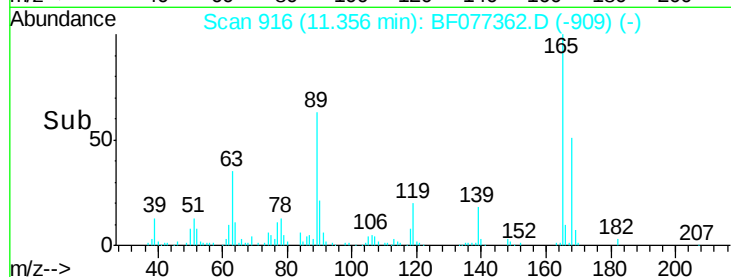


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57

Fluorene

Concen: 49.23 ng

RT: 11.79 min Scan# 954

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

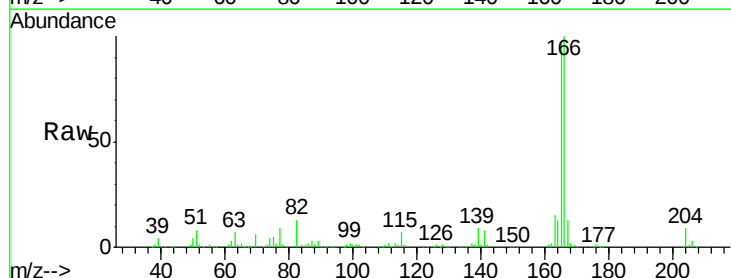
Tgt Ion:166 Resp: 316362

Ion Ratio Lower Upper

166 100

165 97.3 79.2 118.8

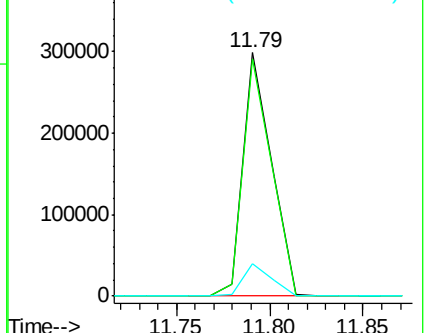
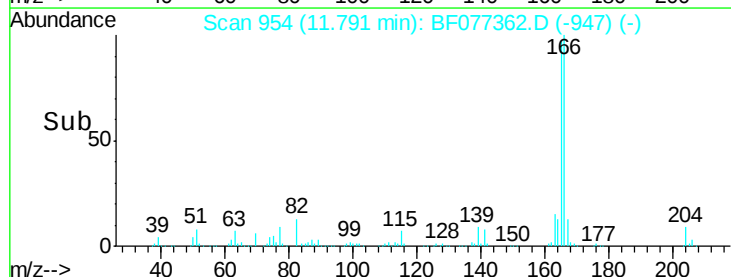
167 13.5 11.0 16.6

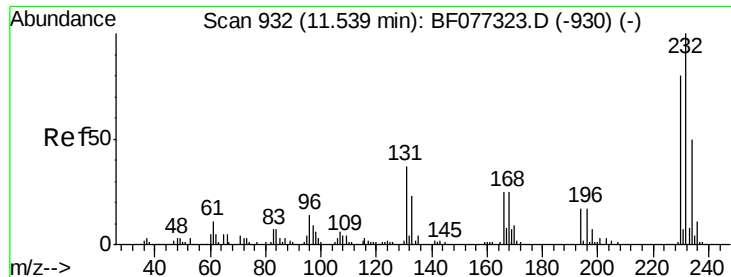


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

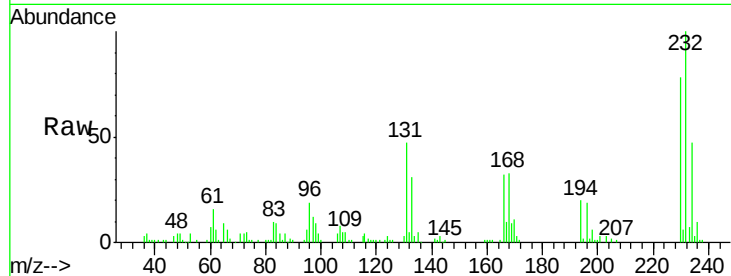




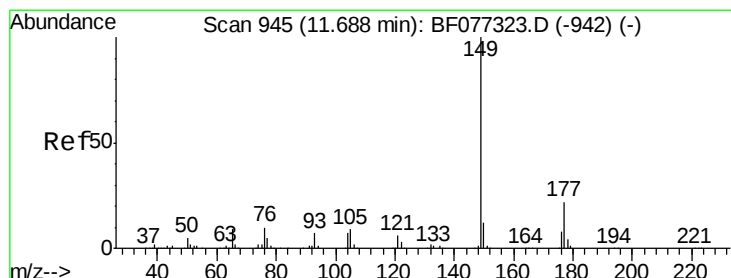
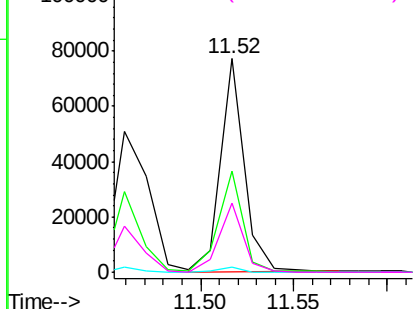
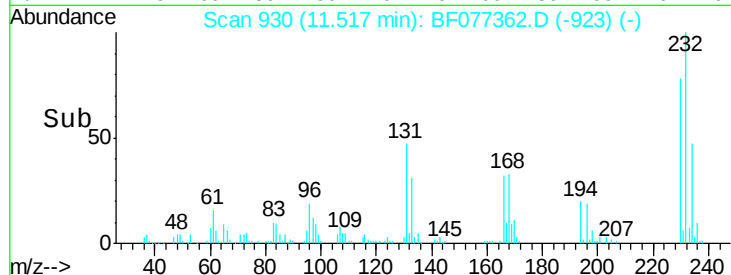
#58
 2,3,4,6-Tetrachlorophenol
 Concen: 51.90 ng
 RT: 11.52 min Scan# 930
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMS

Tgt Ion:232 Resp: 68324
 Ion Ratio Lower Upper
 232 100
 131 49.9 37.5 56.3
 130 2.4 1.7 2.5
 166 33.1 24.0 36.0

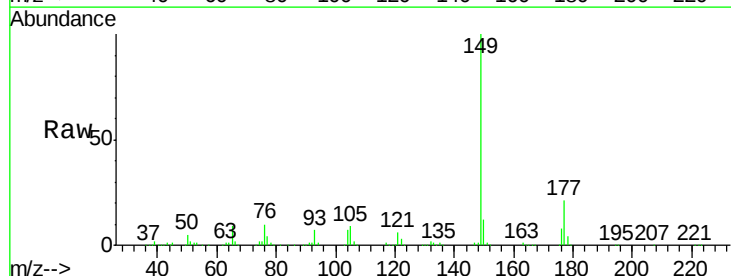


Abundance Ion 232.00 (231.70 to 232.70): E
 Ion 131.00 (130.70 to 131.70): E
 Ion 130.00 (129.70 to 130.70): E
 Ion 166.00 (165.70 to 166.70): E

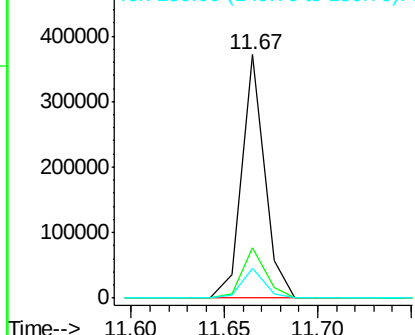
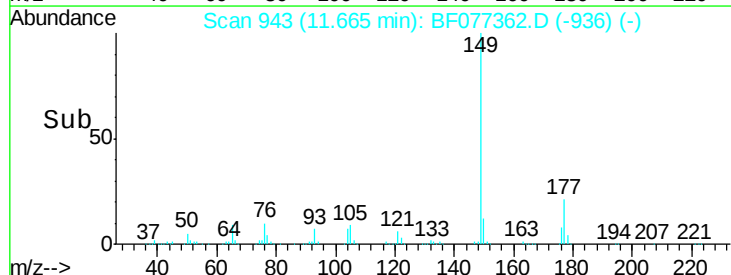


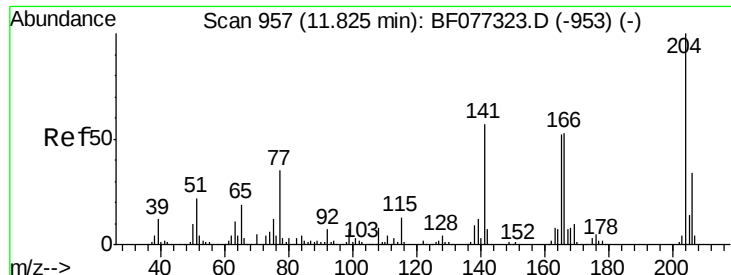
#59
 Diethylphthalate
 Concen: 47.85 ng
 RT: 11.67 min Scan# 943
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

Tgt Ion:149 Resp: 319336
 Ion Ratio Lower Upper
 149 100
 177 20.6 17.5 26.3
 150 12.1 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

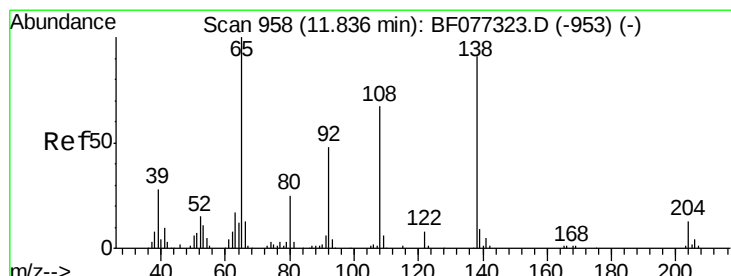
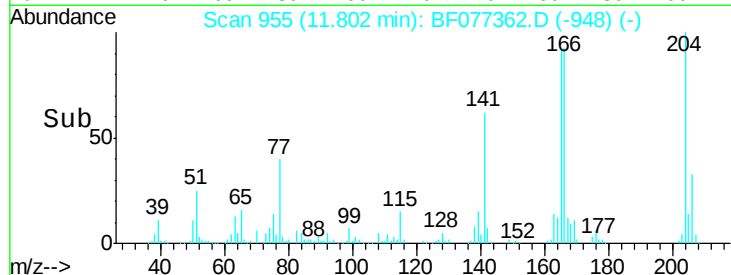
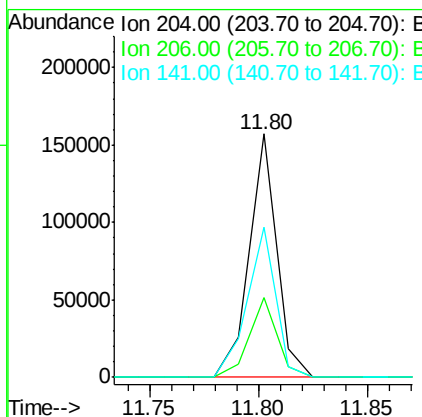
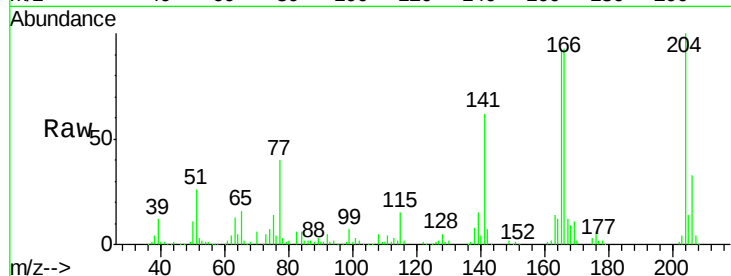




#60
 4-Chlorophenyl-phenylether
 Concen: 44.15 ng
 RT: 11.80 min Scan# 955
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

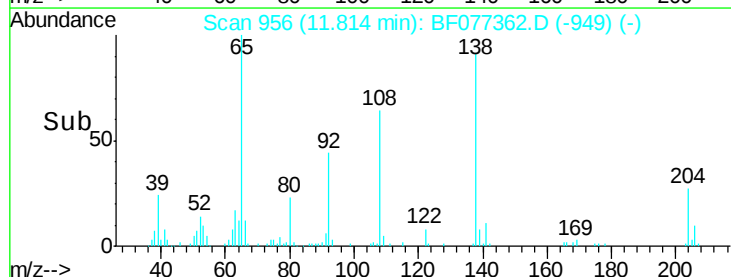
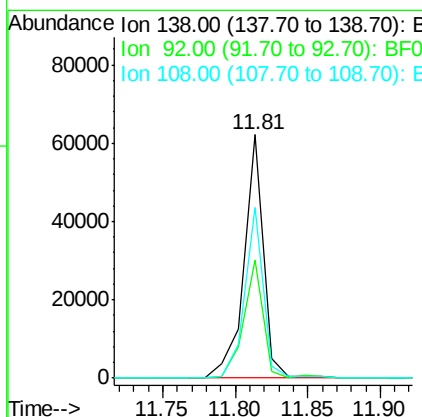
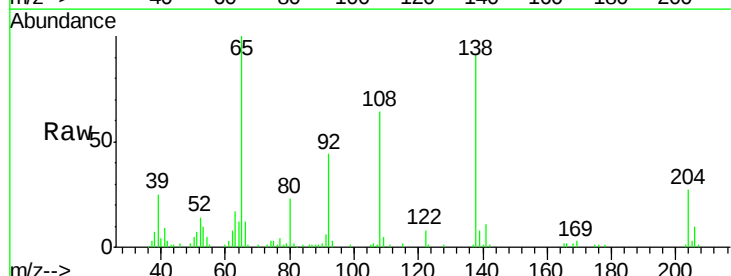
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMS

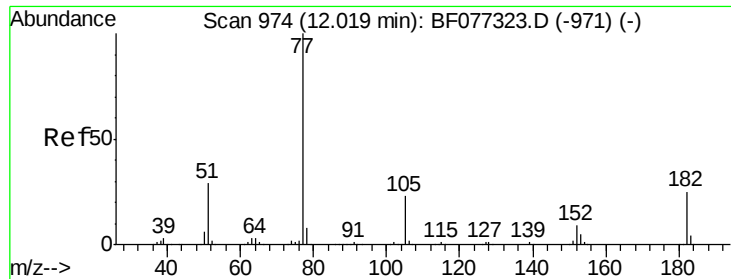
Tgt Ion: 204 Resp: 138028
 Ion Ratio Lower Upper
 204 100
 206 32.9 26.8 40.2
 141 61.7 45.3 67.9



#61
 4-Nitroaniline
 Concen: 42.53 ng
 RT: 11.81 min Scan# 956
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

Tgt Ion: 138 Resp: 57850
 Ion Ratio Lower Upper
 138 100
 92 48.3 32.7 72.7
 108 70.3 53.9 93.9





#62

Azobenzene

Concen: 43.62 ng

RT: 12.00 min Scan# 972

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

Tgt Ion: 77 Resp: 288342

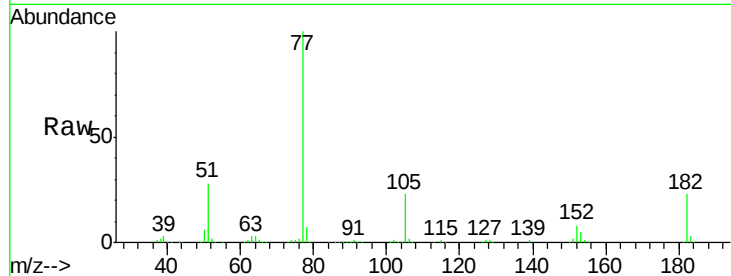
Ion Ratio Lower Upper

77 100

182 22.7 5.0 45.0

105 22.8 3.3 43.3

51 27.7 9.1 49.1

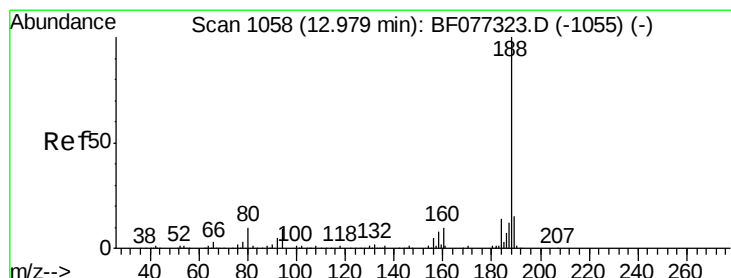
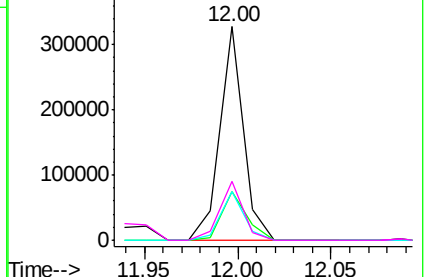
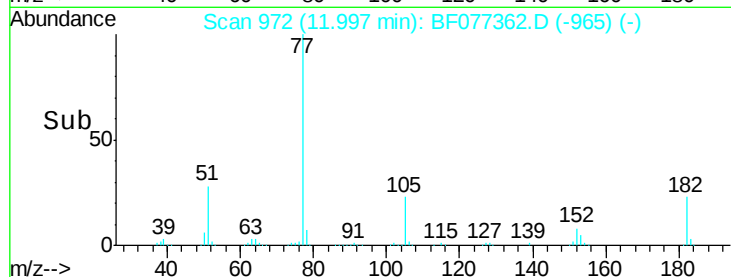


Abundance Ion 77.00 (76.70 to 77.70): BF0

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: BF077362.D

Acq: 18 Feb 2015 20:01

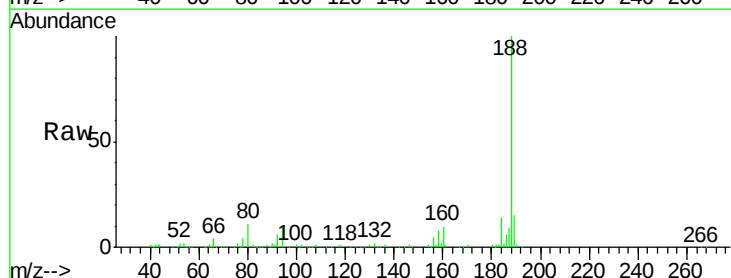
Tgt Ion: 188 Resp: 194799

Ion Ratio Lower Upper

188 100

94 10.5 7.2 10.8

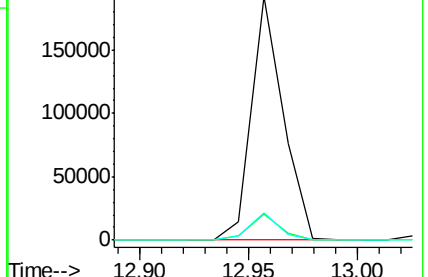
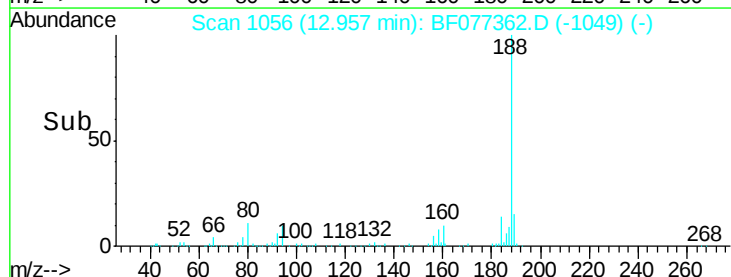
80 11.2 7.8 11.8

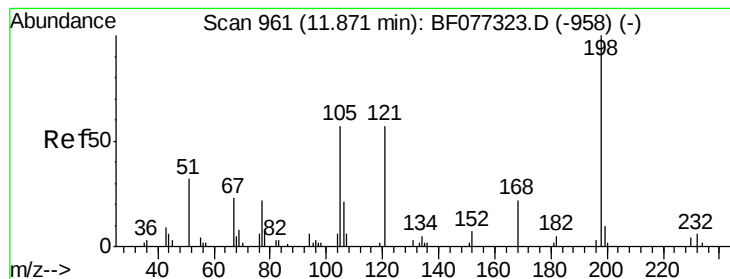


Abundance Ion 188.00 (187.70 to 188.70): E

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: 55.47 ng

RT: 11.86 min Scan# 960

Delta R.T. -0.01 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

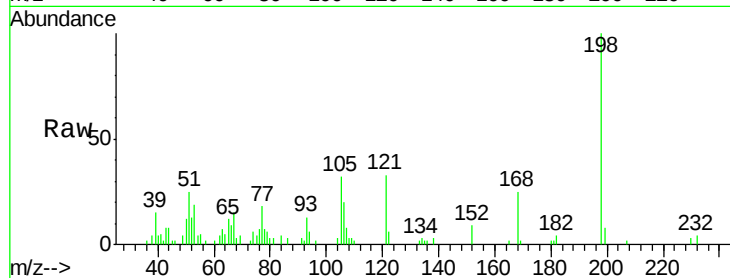
Tgt Ion:198 Resp: 20042

Ion Ratio Lower Upper

198 100

51 25.2 54.6 94.6#

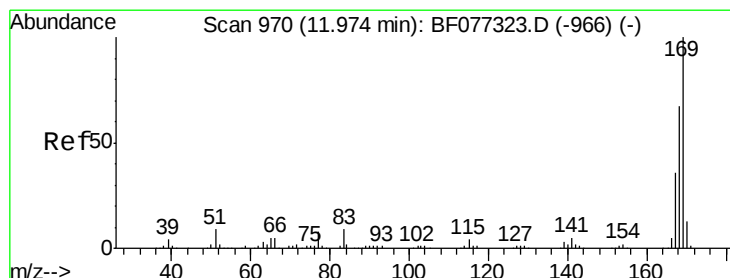
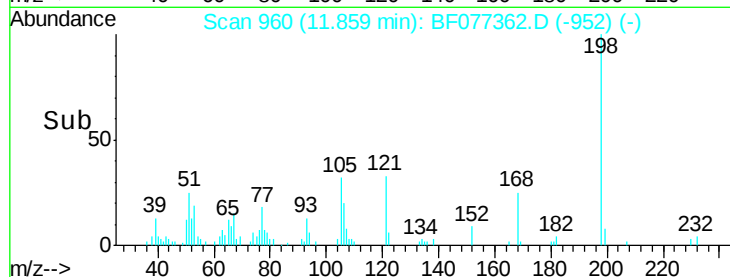
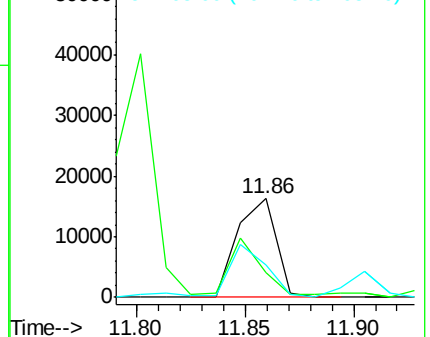
105 32.3 45.4 85.4#



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: 42.74 ng

RT: 11.95 min Scan# 968

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

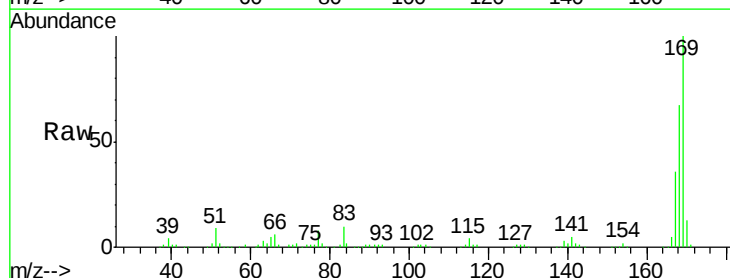
Tgt Ion:169 Resp: 271587

Ion Ratio Lower Upper

169 100

168 67.3 53.4 80.0

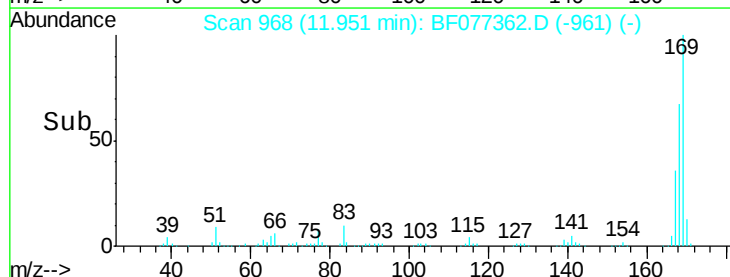
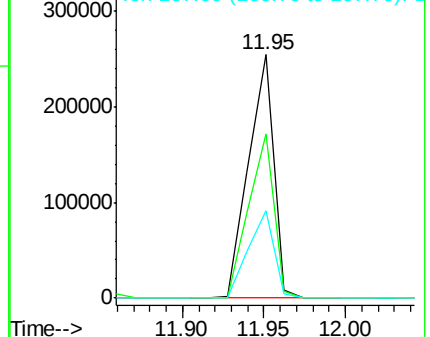
167 36.0 29.1 43.7

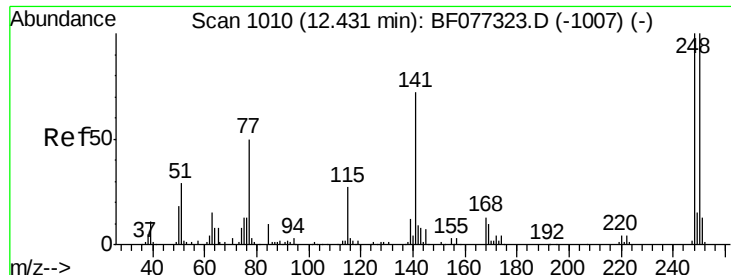


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E

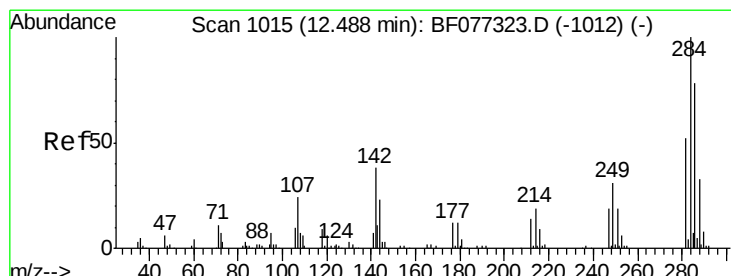
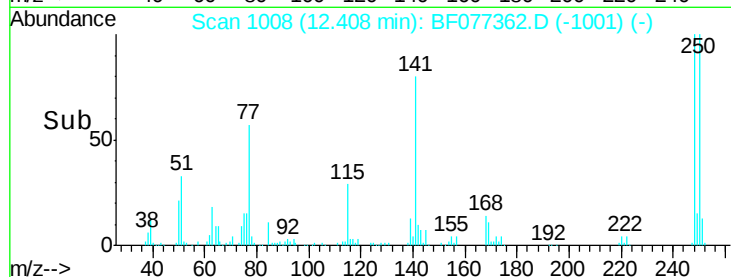
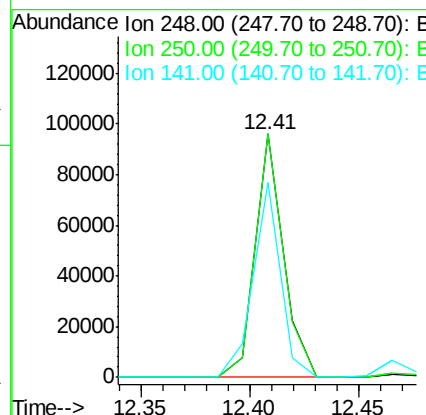
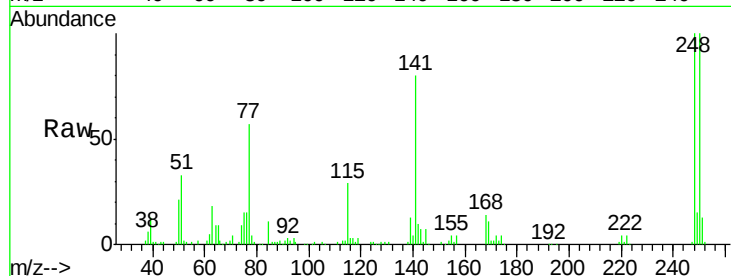




#66
4-Bromophenyl-phenylether
Concen: 39.85 ng
RT: 12.41 min Scan# 1008
Delta R.T. -0.02 min
Lab File: BF077362.D
Acq: 18 Feb 2015 20:01

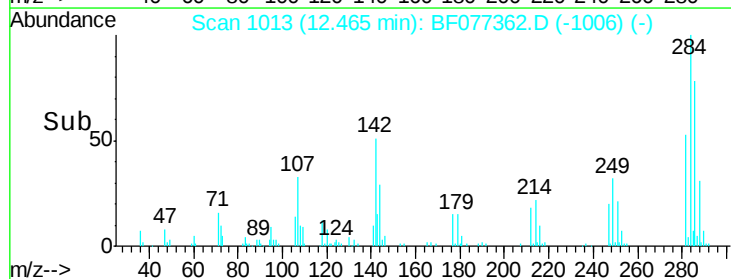
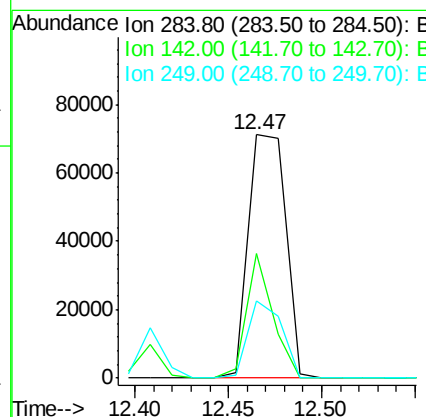
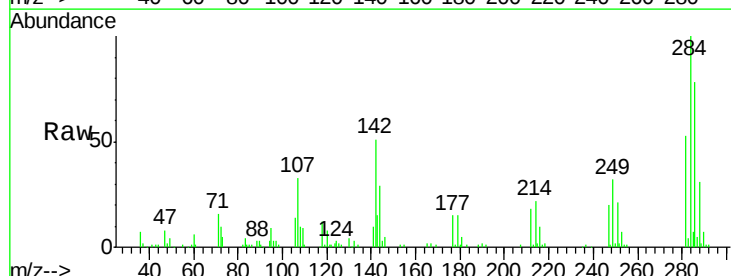
Instrument :
BNA_F
ClientSampleId :
SOIL-CHARACTERIZATIONMS

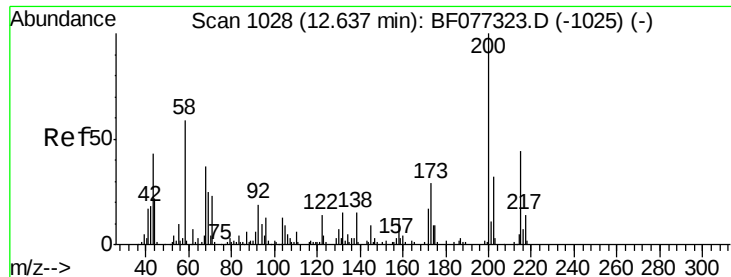
Tgt Ion:248 Resp: 86559
Ion Ratio Lower Upper
248 100
250 100.0 80.2 120.4
141 80.3 57.5 86.3



#67
Hexachlorobenzene
Concen: 40.16 ng
RT: 12.47 min Scan# 1013
Delta R.T. -0.02 min
Lab File: BF077362.D
Acq: 18 Feb 2015 20:01

Tgt Ion:284 Resp: 98946
Ion Ratio Lower Upper
284 100
142 51.3 30.8 46.2#
249 31.7 24.6 36.8





#68

Atrazine

Concen: 36.94 ng

RT: 12.61 min Scan# 1026

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

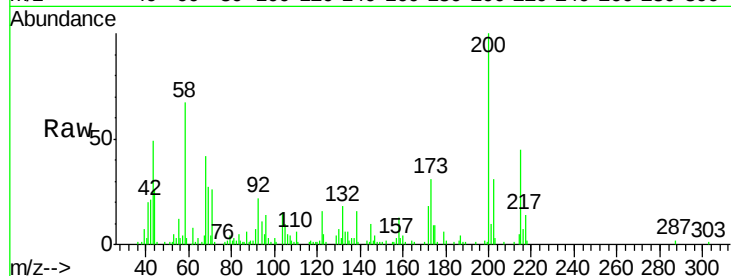
Tgt Ion:200 Resp: 70154

Ion Ratio Lower Upper

200 100

173 31.1 9.2 49.2

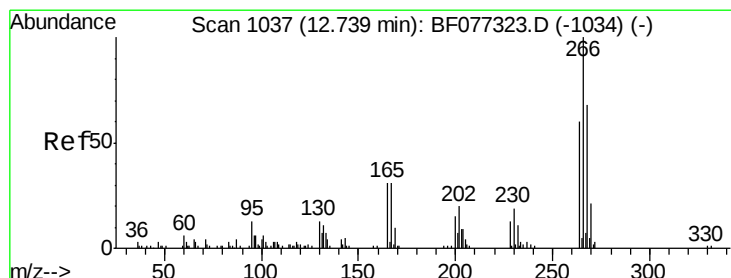
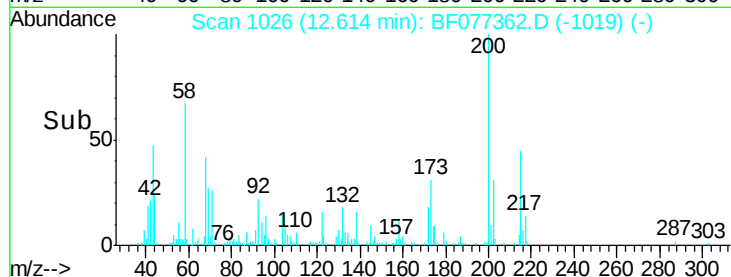
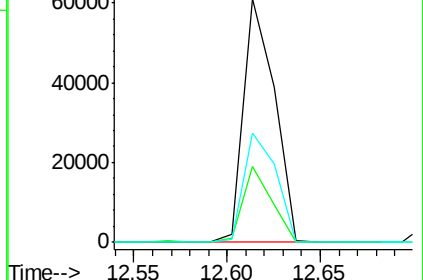
215 44.6 23.8 63.8



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: 119.76 ng

RT: 12.72 min Scan# 1035

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

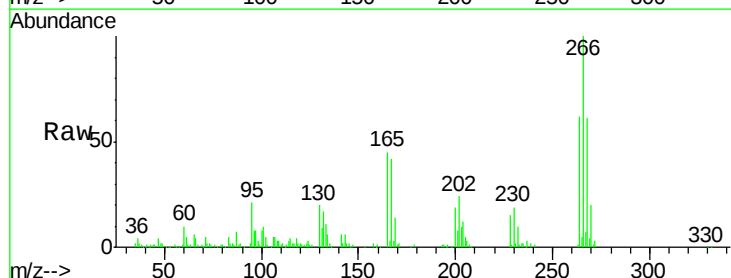
Tgt Ion:266 Resp: 105044

Ion Ratio Lower Upper

266 100

268 61.1 54.0 81.0

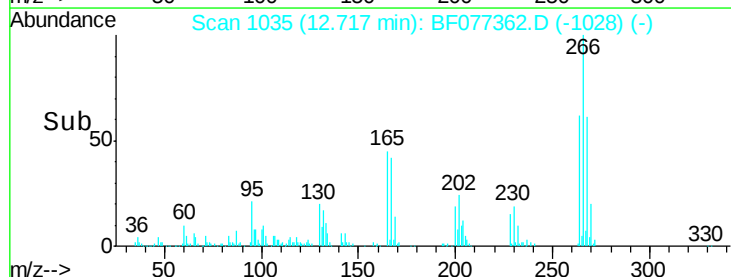
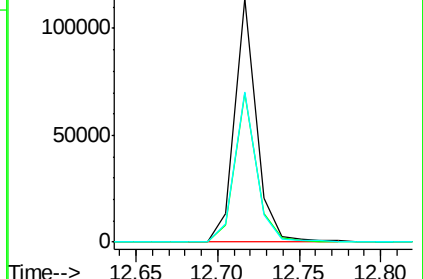
264 61.5 48.2 72.2

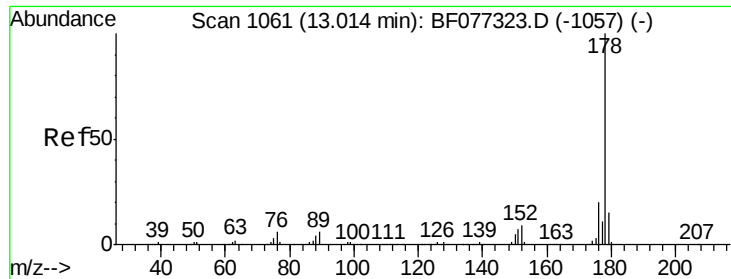


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

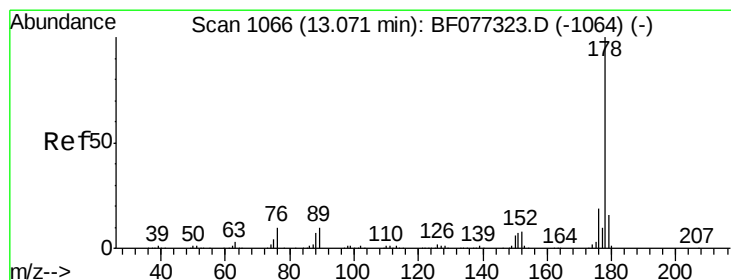
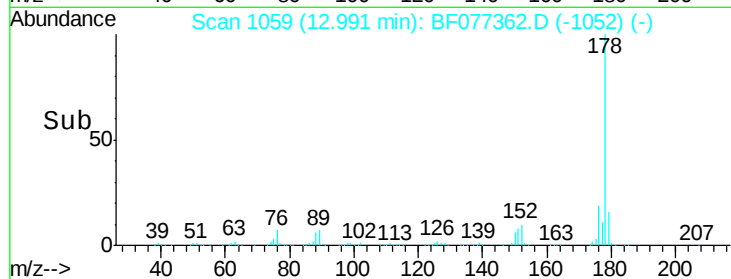
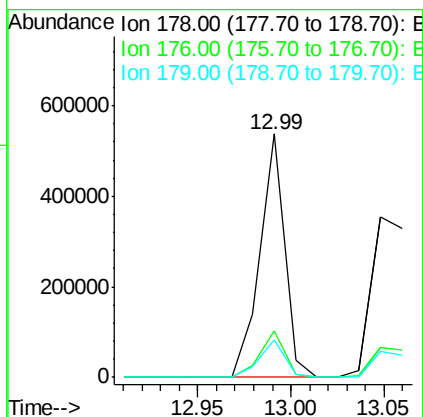
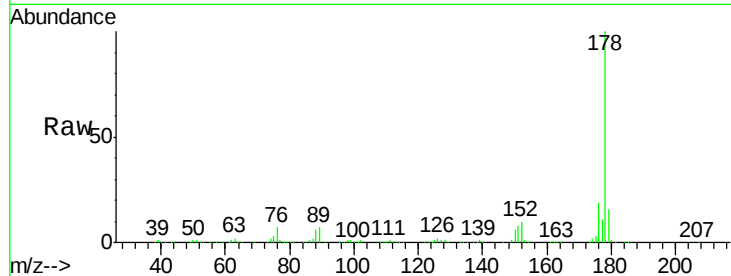




#70
Phenanthrene
Concen: 43.53 ng
RT: 12.99 min Scan# 1059
Delta R.T. -0.02 min
Lab File: BF077362.D
Acq: 18 Feb 2015 20:01

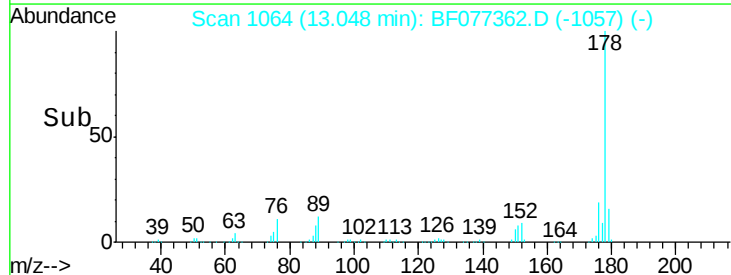
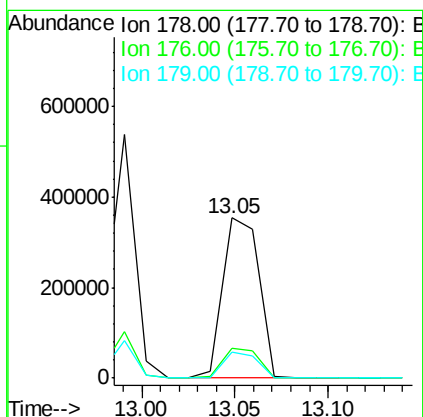
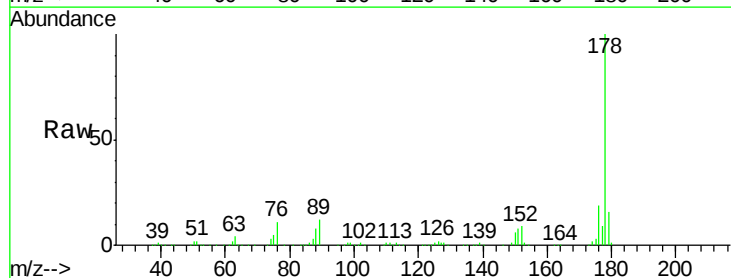
Instrument :
BNA_F
ClientSampleId :
SOIL-CHARACTERIZATIONMS

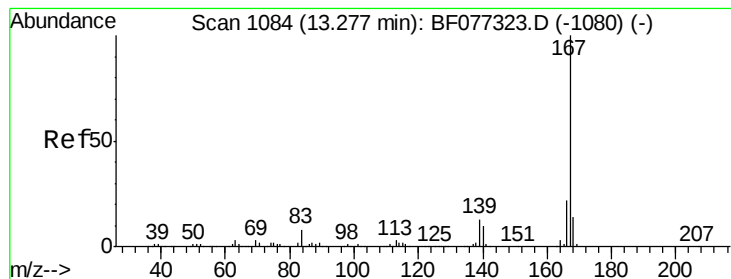
Tgt Ion:178 Resp: 492698
Ion Ratio Lower Upper
178 100
176 19.2 15.6 23.4
179 15.6 12.3 18.5



#71
Anthracene
Concen: 42.93 ng
RT: 13.05 min Scan# 1064
Delta R.T. -0.02 min
Lab File: BF077362.D
Acq: 18 Feb 2015 20:01

Tgt Ion:178 Resp: 483259
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 16.2 12.8 19.2





#72

Carbazole

Concen: 46.68 ng

RT: 13.25 min Scan# 1082

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

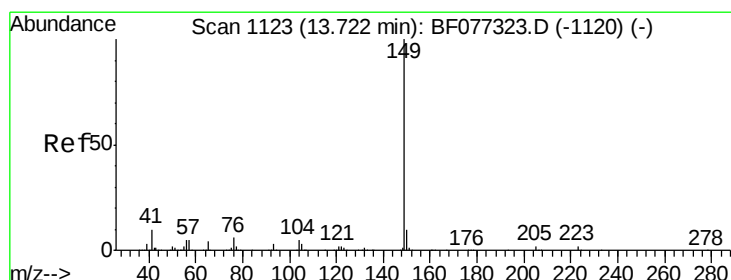
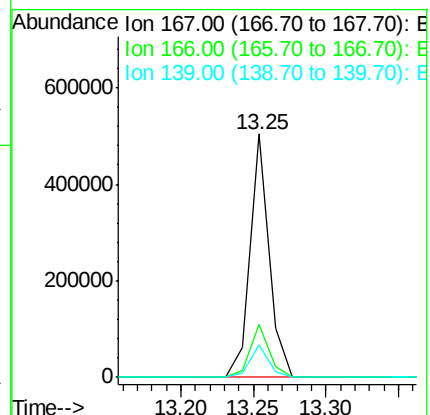
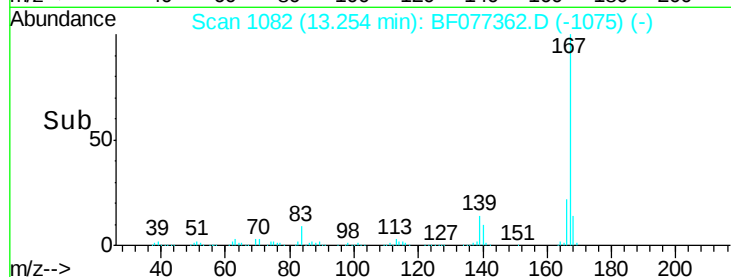
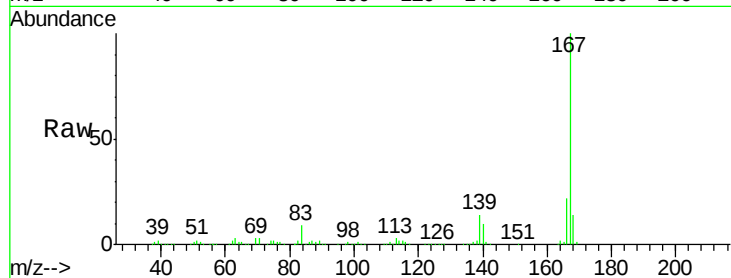
Tgt Ion:167 Resp: 461956

Ion Ratio Lower Upper

167 100

166 21.8 17.4 26.2

139 13.6 10.6 15.8



#73

Di-n-butylphthalate

Concen: 43.99 ng

RT: 13.71 min Scan# 1122

Delta R.T. -0.01 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

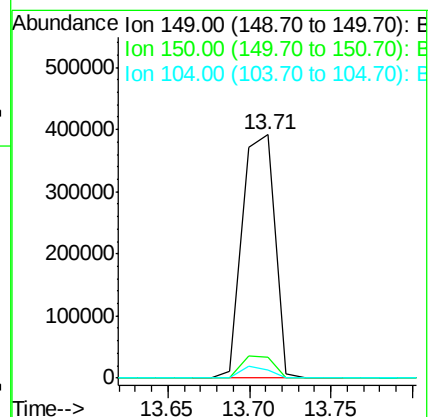
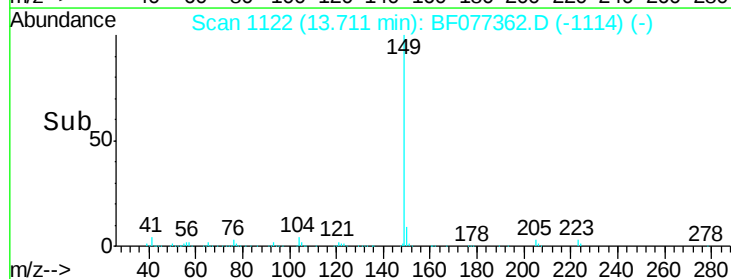
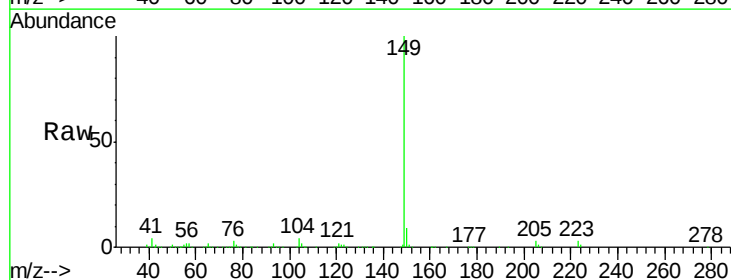
Tgt Ion:149 Resp: 535918

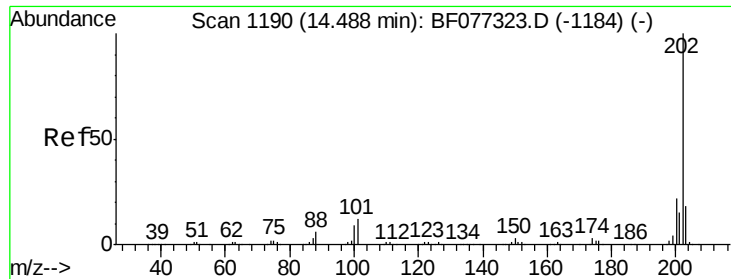
Ion Ratio Lower Upper

149 100

150 8.8 7.7 11.5

104 3.5 4.3 6.5#

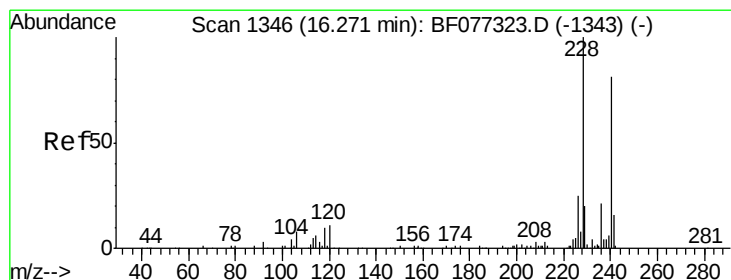
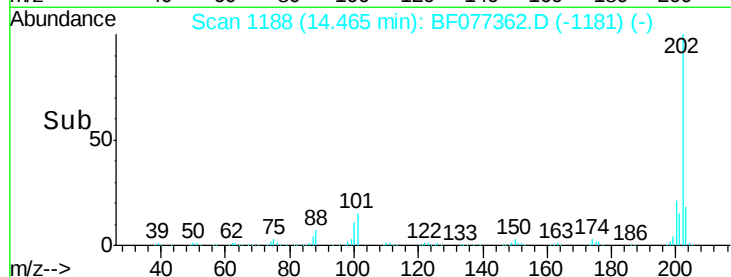
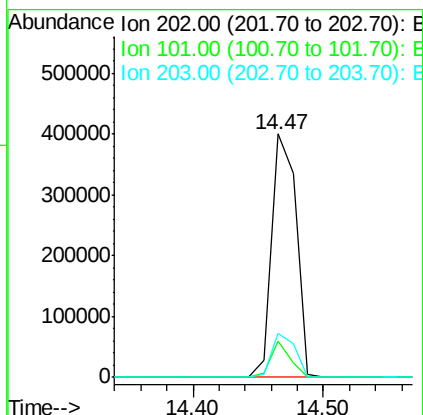
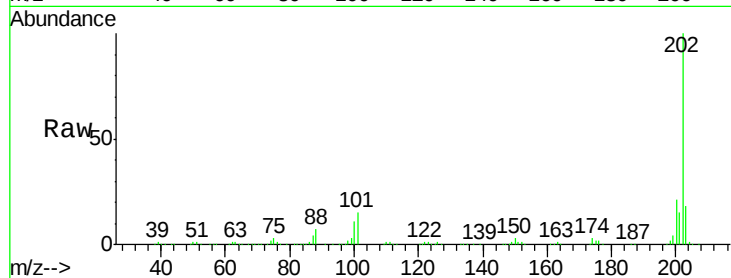




#74
 Fluoranthene
 Concen: 46.32 ng
 RT: 14.47 min Scan# 1188
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

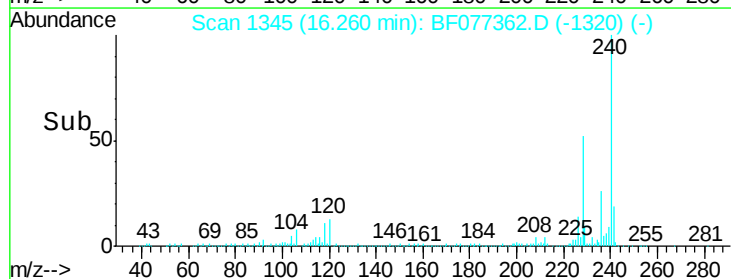
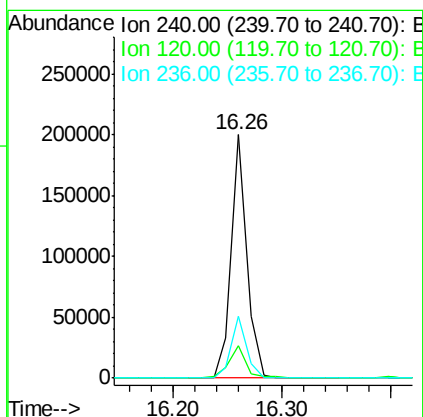
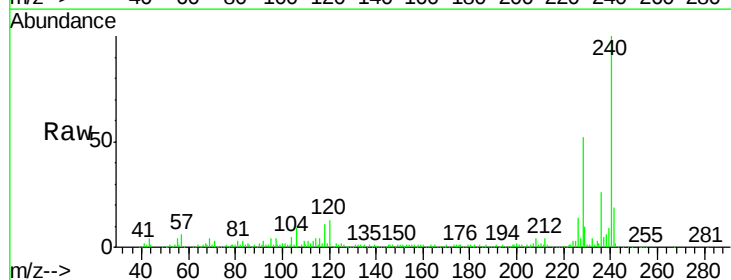
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMS

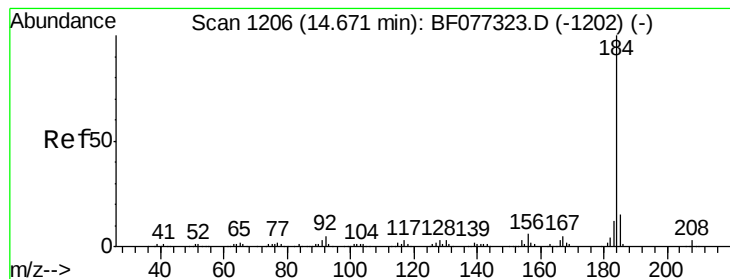
Tgt Ion: 202 Resp: 529464
 Ion Ratio Lower Upper
 202 100
 101 15.1 0.0 32.4
 203 17.8 0.0 37.7



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 16.26 min Scan# 1345
 Delta R.T. -0.01 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

Tgt Ion: 240 Resp: 197911
 Ion Ratio Lower Upper
 240 100
 120 13.2 11.3 16.9
 236 25.6 20.3 30.5





#76

Benzidine

Concen: 7.15 ng

RT: 14.65 min Scan# 1204

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

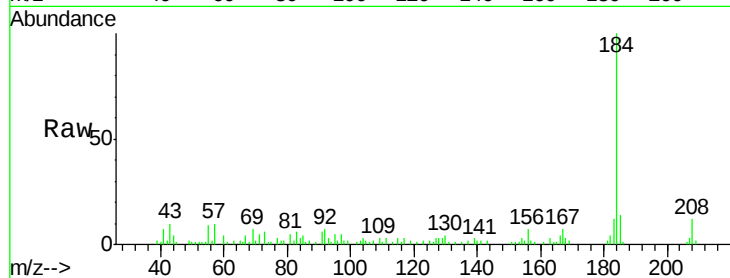
Tgt Ion:184 Resp: 43458

Ion Ratio Lower Upper

184 100

185 14.5 12.3 18.5

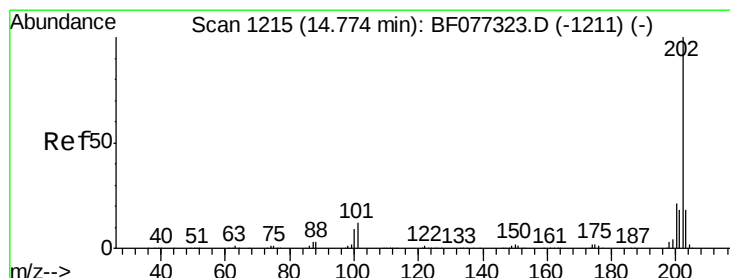
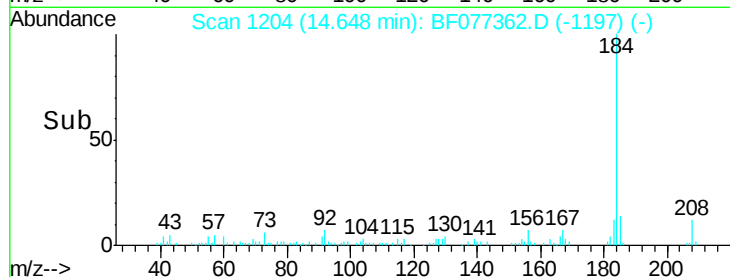
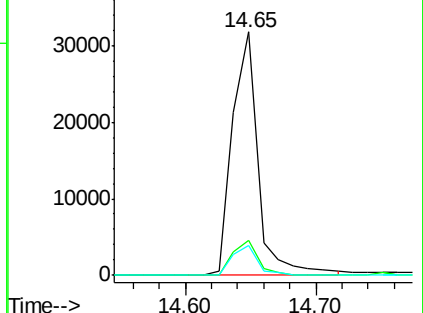
183 12.2 9.3 13.9



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: 45.37 ng

RT: 14.75 min Scan# 1213

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

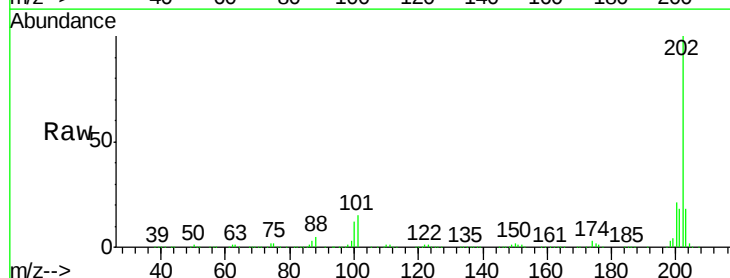
Tgt Ion:202 Resp: 555058

Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.4

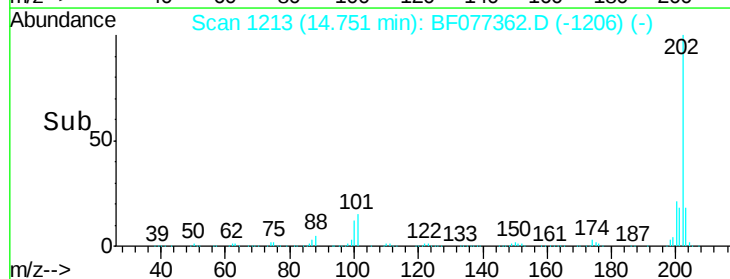
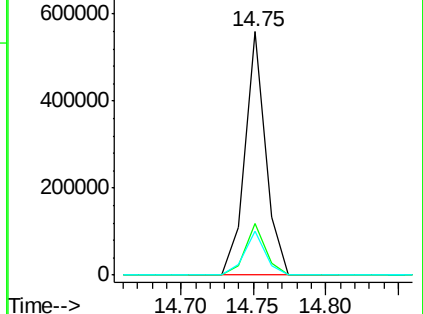
203 17.8 14.2 21.4

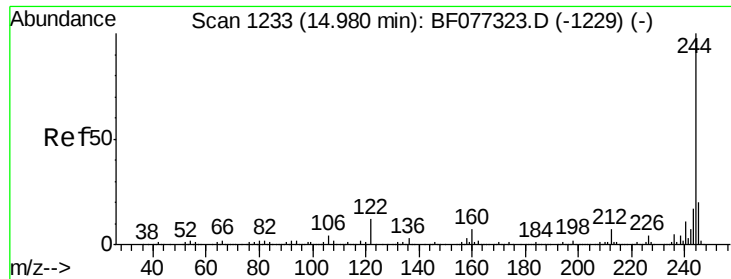


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

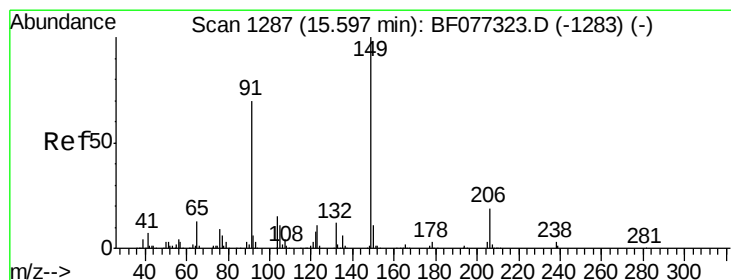
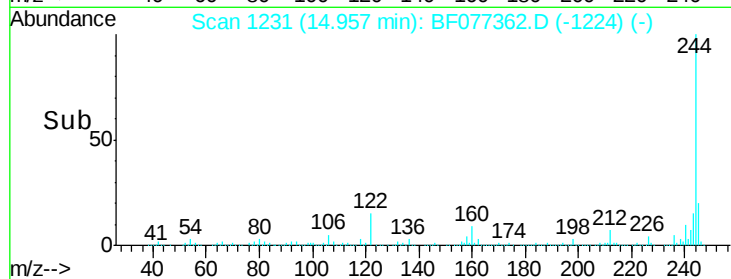
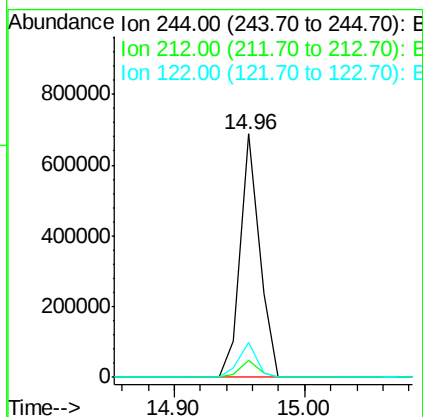
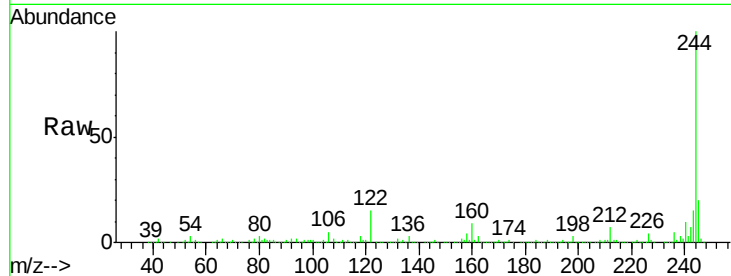




#78
 Terphenyl-d14
 Concen: 81.52 ng
 RT: 14.96 min Scan# 1231
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

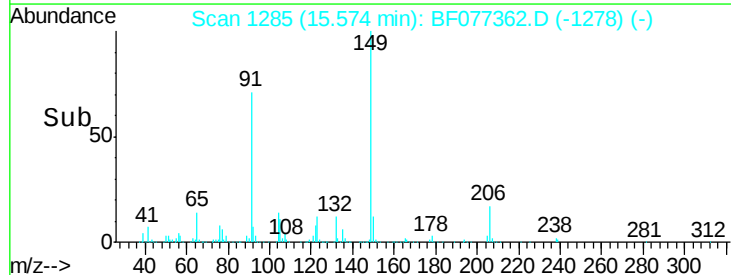
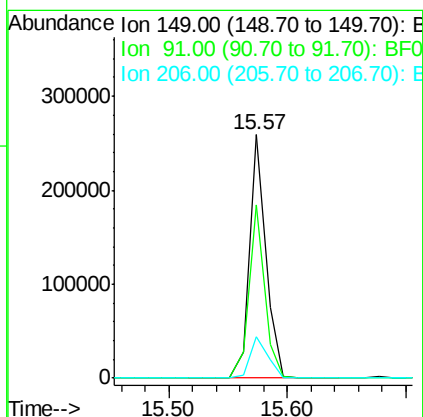
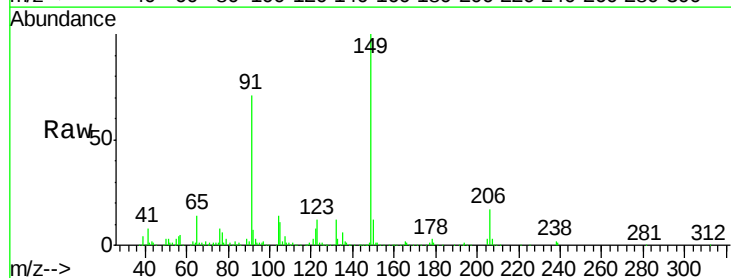
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CHARACTERIZATIONMS

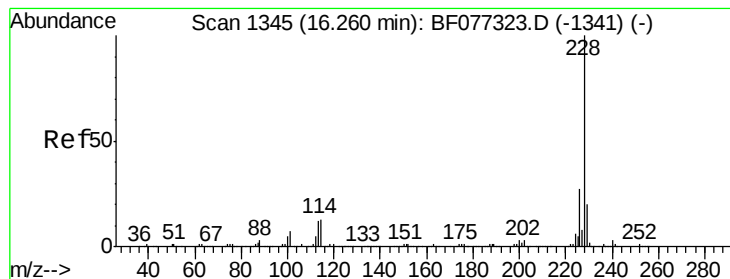
Tgt Ion:244 Resp: 709605
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.4 8.0
 122 14.6 9.3 13.9#



#79
 Butylbenzylphthalate
 Concen: 51.11 ng
 RT: 15.57 min Scan# 1285
 Delta R.T. -0.02 min
 Lab File: BF077362.D
 Acq: 18 Feb 2015 20:01

Tgt Ion:149 Resp: 249841
 Ion Ratio Lower Upper
 149 100
 91 71.3 55.9 83.9
 206 17.1 15.4 23.0





#80

Benzo(a)anthracene

Concen: 44.80 ng

RT: 16.25 min Scan# 1344

Delta R.T. -0.01 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

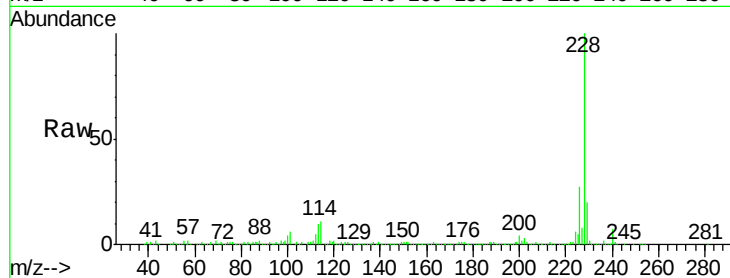
Tgt Ion:228 Resp: 516329

Ion Ratio Lower Upper

228 100

226 27.1 21.9 32.9

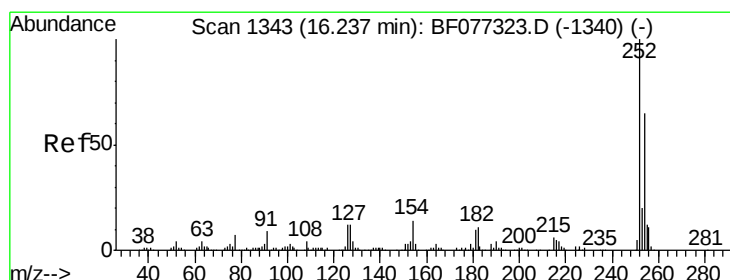
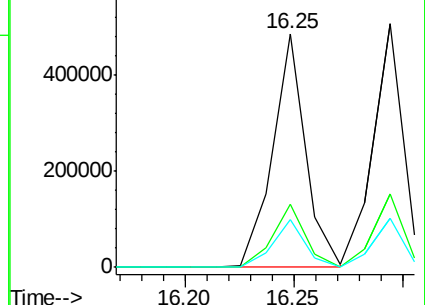
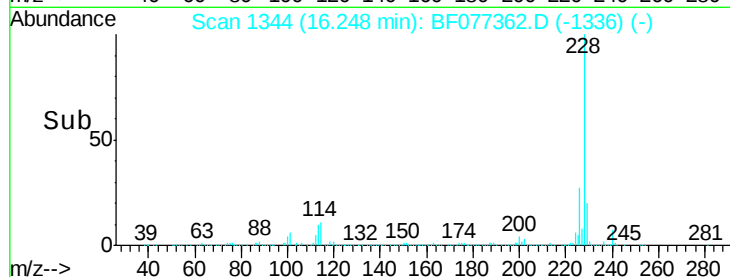
229 20.2 16.1 24.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#81

3,3'-Dichlorobenzidine

Concen: 21.84 ng

RT: 16.23 min Scan# 1342

Delta R.T. -0.01 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

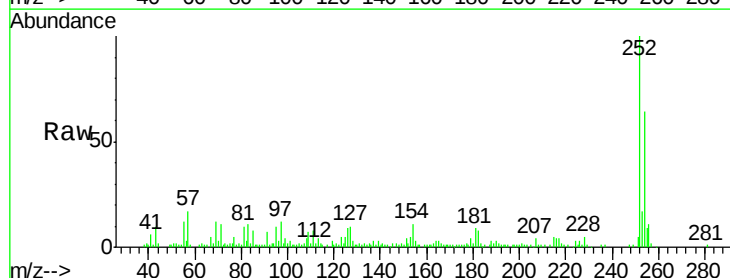
Tgt Ion:252 Resp: 83148

Ion Ratio Lower Upper

252 100

254 64.3 52.0 78.0

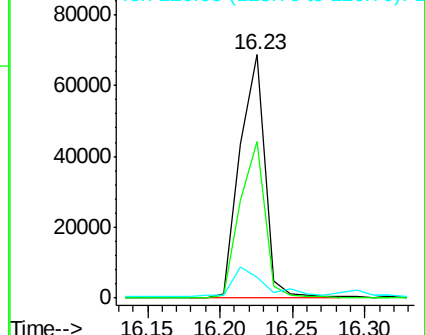
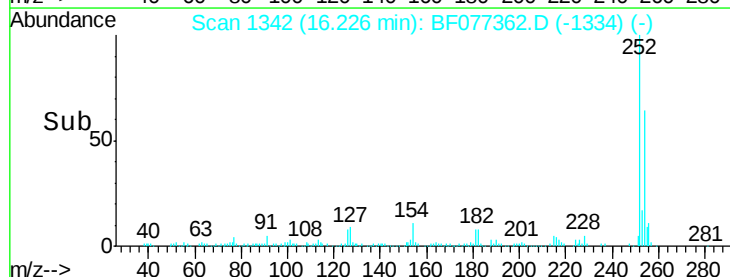
126 8.8 9.7 14.5#

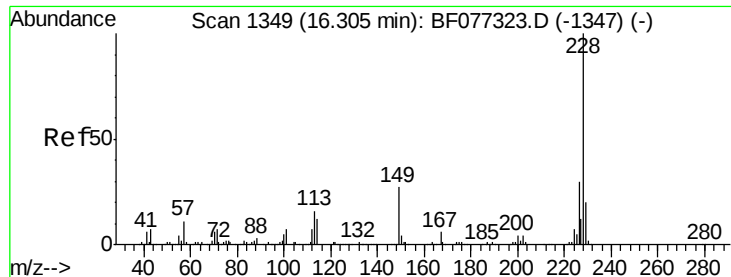


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#82

Chrysene

Concen: 44.62 ng

RT: 16.29 min Scan# 1348

Delta R.T. -0.01 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

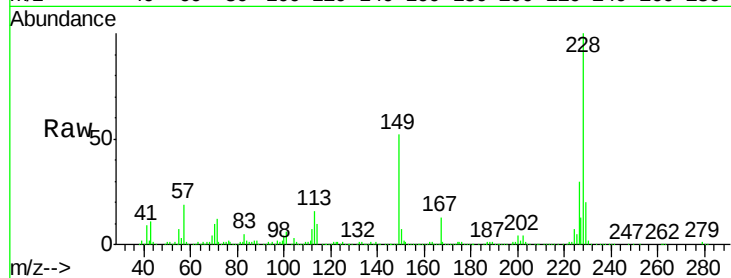
Tgt Ion:228 Resp: 486238

Ion Ratio Lower Upper

228 100

226 30.1 24.2 36.2

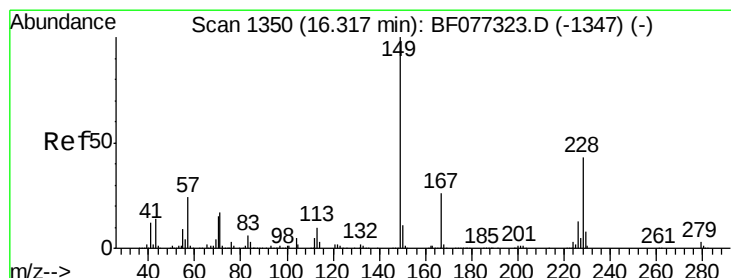
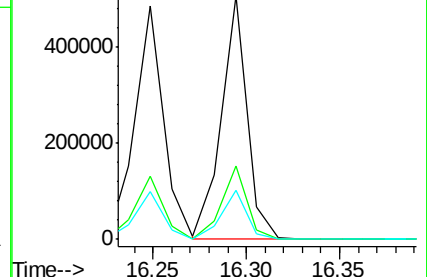
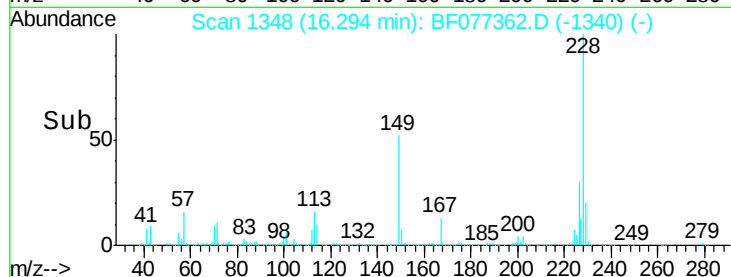
229 19.9 16.2 24.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 46.09 ng

RT: 16.29 min Scan# 1348

Delta R.T. -0.02 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

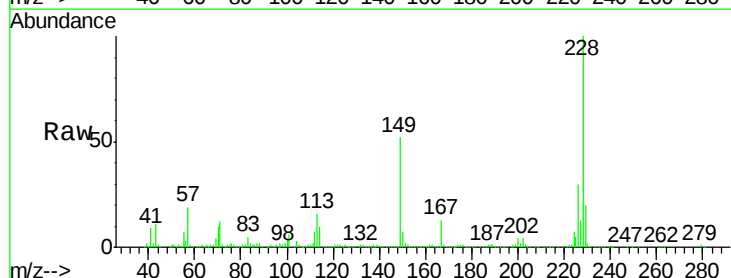
Tgt Ion:149 Resp: 375749

Ion Ratio Lower Upper

149 100

167 24.5 21.0 31.6

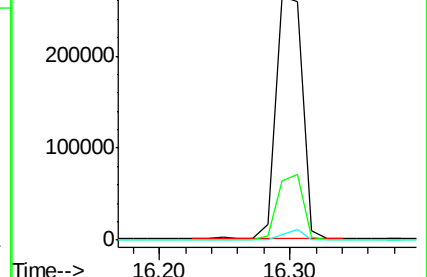
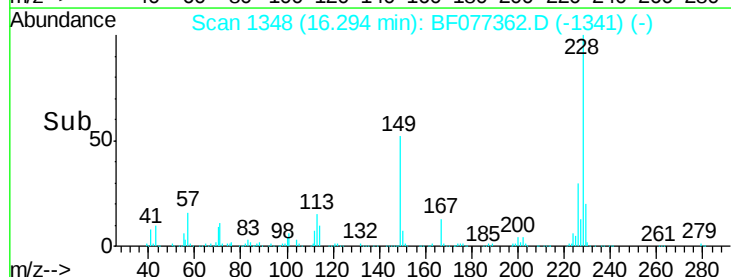
279 2.0 2.7 4.1#

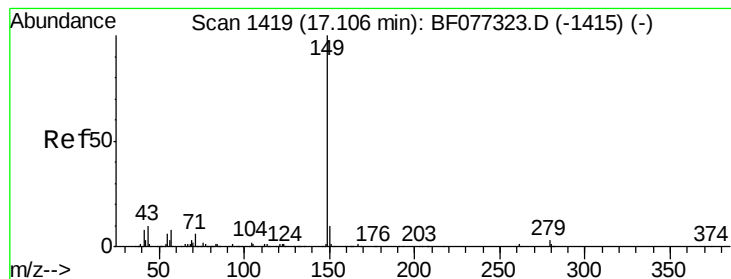


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#84

Di-n-octyl phthalate

Concen: 49.89 ng

RT: 17.11 min Scan# 1419

Delta R.T. 0.00 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

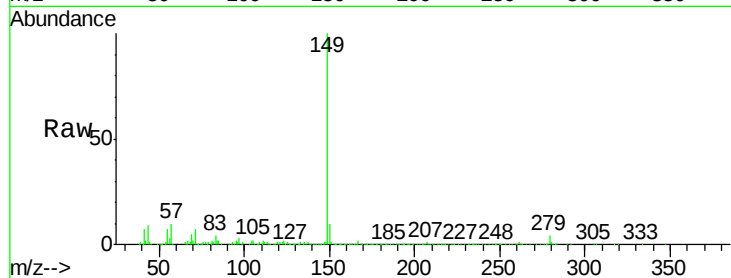
Tgt Ion:149 Resp: 659037

Ion Ratio Lower Upper

149 100

167 1.5 1.1 1.7

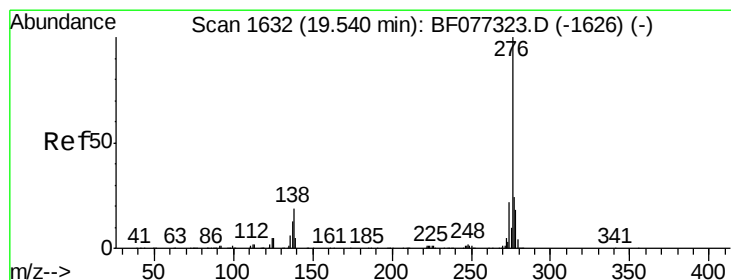
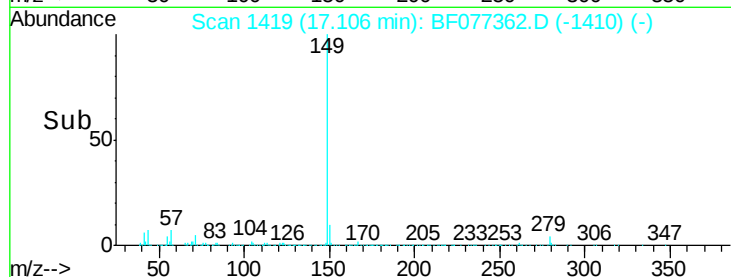
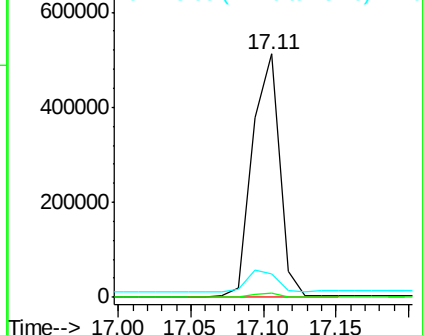
43 9.6 8.7 13.1



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: 52.96 ng m

RT: 19.54 min Scan# 1632

Delta R.T. 0.00 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

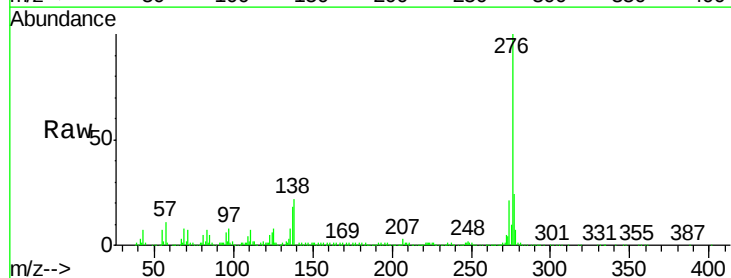
Tgt Ion:276 Resp: 659104

Ion Ratio Lower Upper

276 100

138 27.2 20.2 30.2

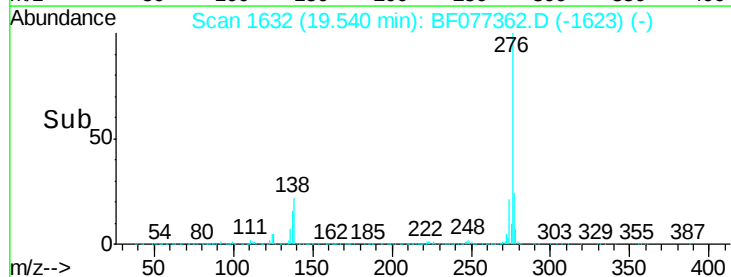
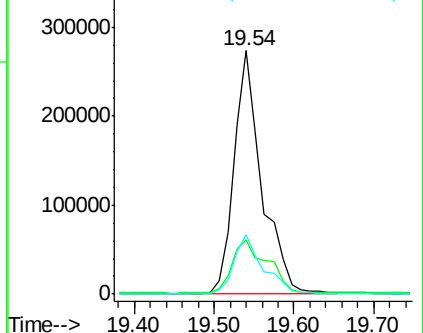
277 24.7 20.2 30.2

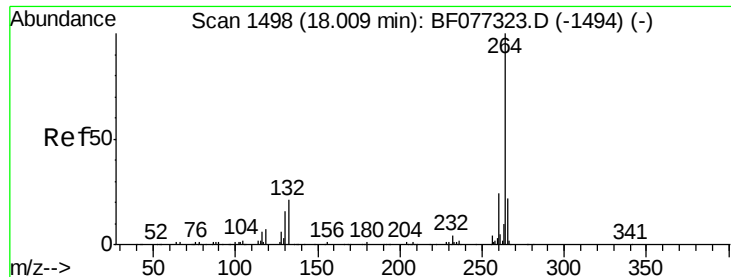


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

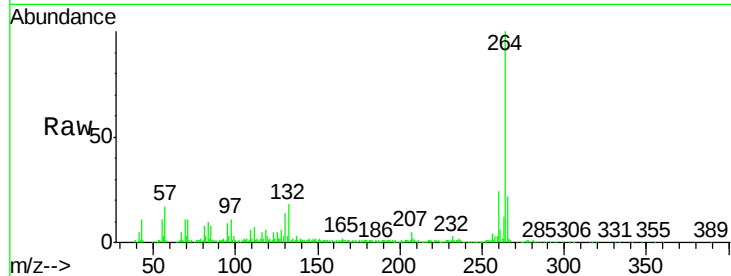




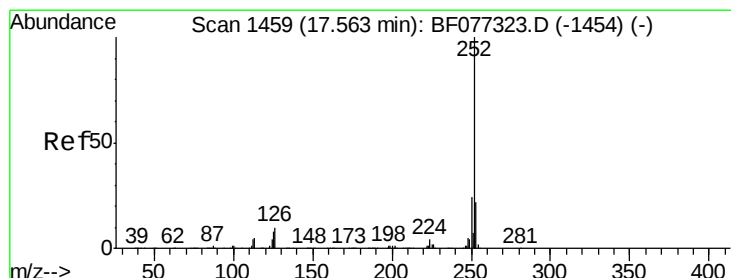
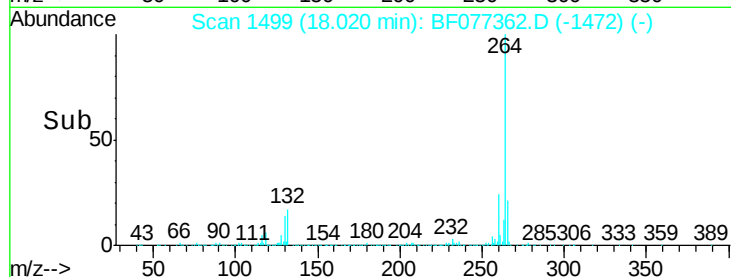
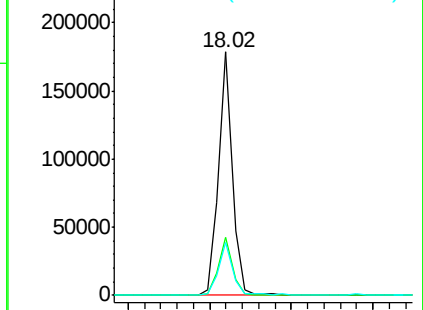
#86
Perylene-d12
Concen: 20.00 ng
RT: 18.02 min Scan# 1499
Delta R.T. 0.01 min
Lab File: BF077362.D
Acq: 18 Feb 2015 20:01

Instrument :
BNA_F
ClientSampleId :
SOIL-CHARACTERIZATIONMS

Tgt Ion: 264 Resp: 208600
Ion Ratio Lower Upper
264 100
260 23.6 18.9 28.3
265 21.5 17.7 26.5

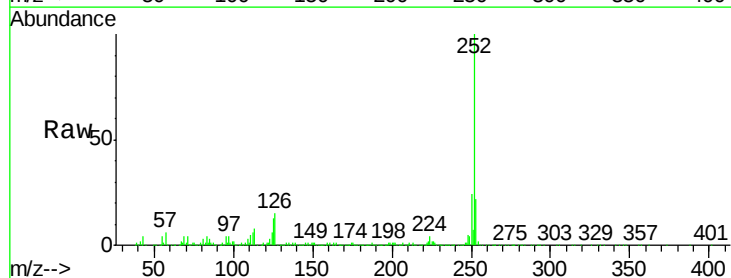


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

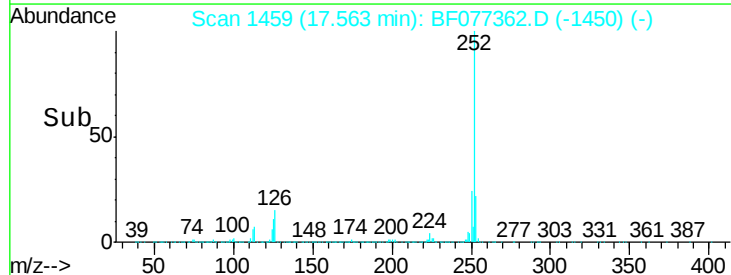
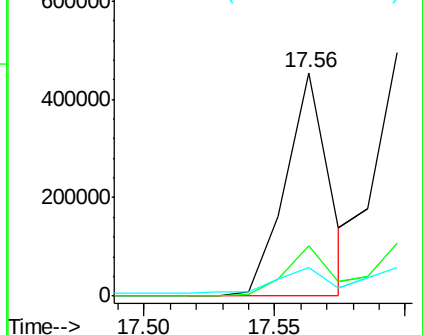


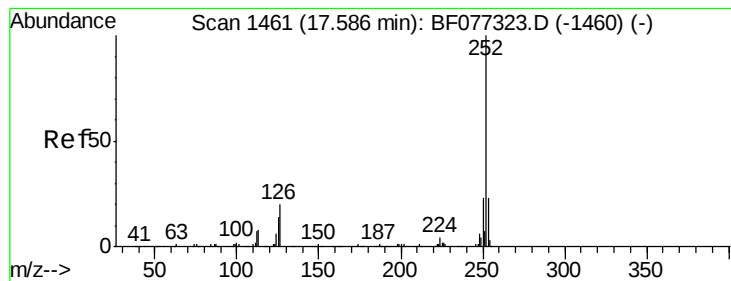
#87
Benzo(b)fluoranthene
Concen: 39.12 ng
RT: 17.56 min Scan# 1459
Delta R.T. 0.00 min
Lab File: BF077362.D
Acq: 18 Feb 2015 20:01

Tgt Ion: 252 Resp: 524636
Ion Ratio Lower Upper
252 100
253 22.3 17.3 25.9
125 13.0 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: 49.22 ng m

RT: 17.60 min Scan# 1462

Delta R.T. 0.01 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

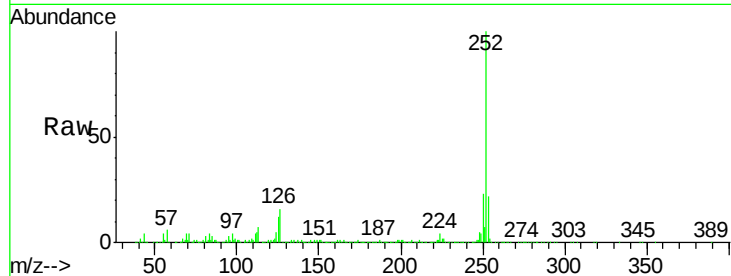
Tgt Ion:252 Resp: 545140

Ion Ratio Lower Upper

252 100

253 21.9 18.0 27.0

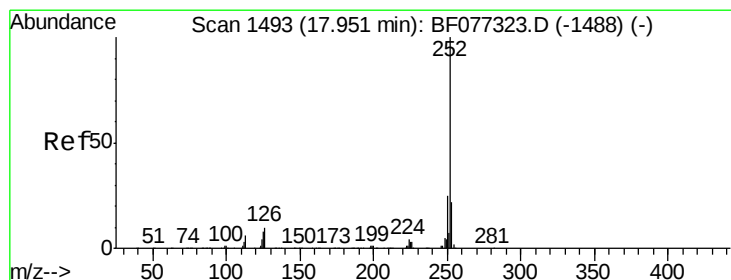
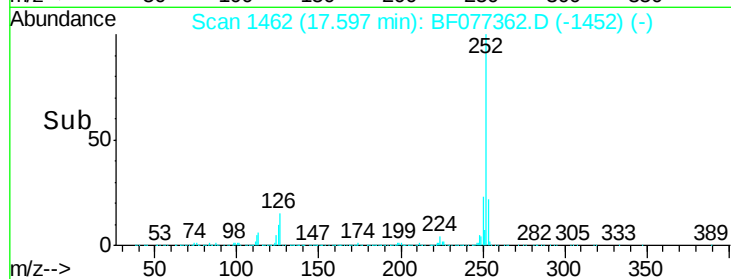
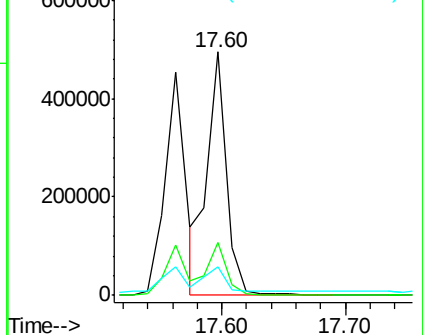
125 11.7 11.0 16.4



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: 44.27 ng

RT: 17.95 min Scan# 1493

Delta R.T. 0.00 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

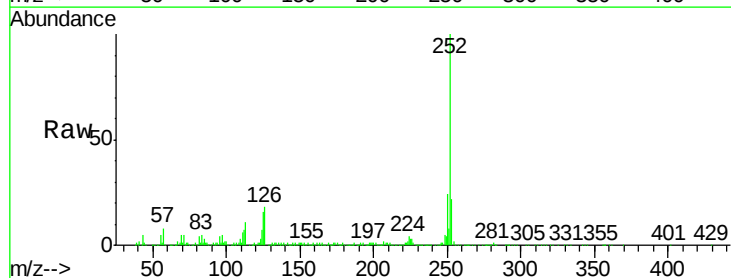
Tgt Ion:252 Resp: 516676

Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.0

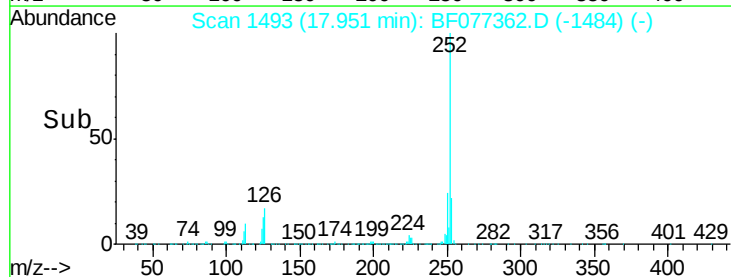
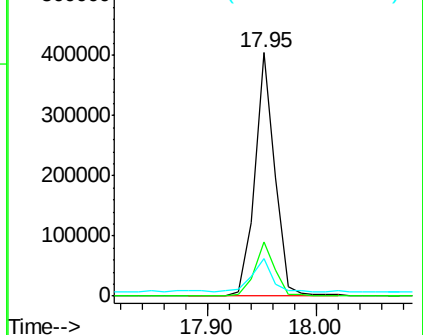
125 15.5 6.2 9.2#

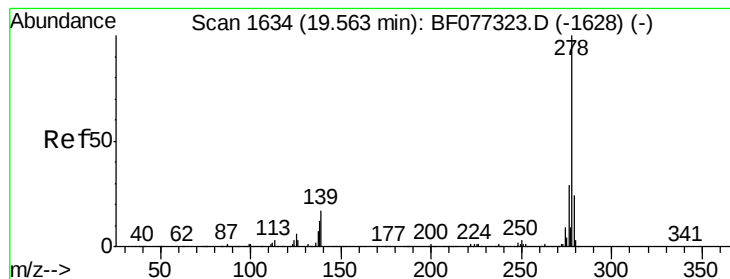


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 46.40 ng

RT: 19.57 min Scan# 1635

Delta R.T. 0.01 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

Instrument :

BNA_F

ClientSampleId :

SOIL-CHARACTERIZATIONMS

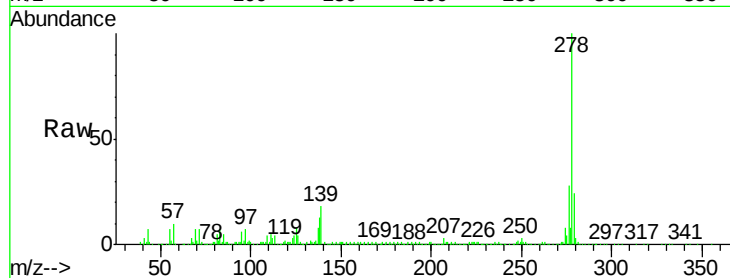
Tgt Ion:278 Resp: 551146

Ion Ratio Lower Upper

278 100

139 17.9 13.4 20.2

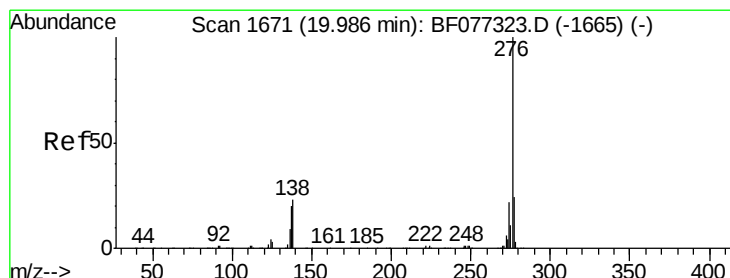
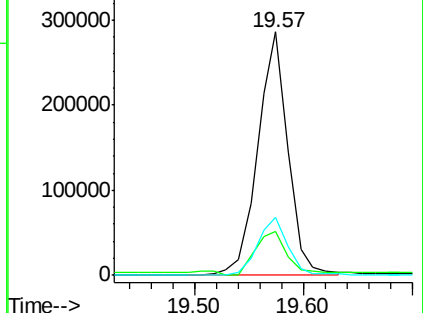
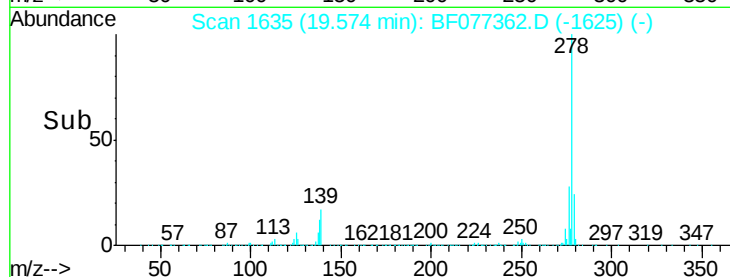
279 24.1 19.1 28.7



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: 46.84 ng

RT: 20.00 min Scan# 1672

Delta R.T. 0.01 min

Lab File: BF077362.D

Acq: 18 Feb 2015 20:01

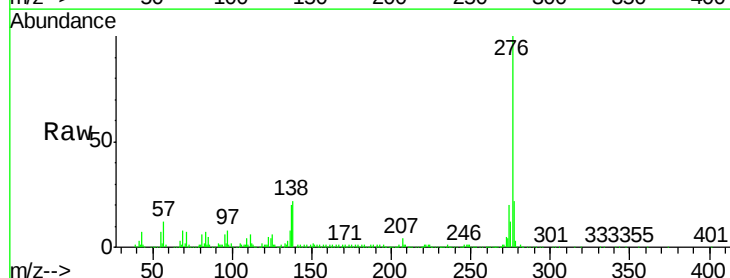
Tgt Ion:276 Resp: 553125

Ion Ratio Lower Upper

276 100

277 22.1 19.0 28.6

138 21.8 18.7 28.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

