

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112916\
 Data File : BF091333.D
 Acq On : 29 Nov 2016 18:09
 Operator : UM/SJ
 Sample : H5696-02MSD
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

Quant Time: Nov 30 00:38:46 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 29 13:33:46 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	187641	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	719494	20.00	ng	-0.02
38) Acenaphthene-d10	9.91	164	422447	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	638125	20.00	ng	-0.02
75) Chrysene-d12	14.01	240	367467	20.00	ng	-0.03
86) Perylene-d12	15.44	264	188140	20.00	ng	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	5.49	112	1295256	112.77	ng	0.02
7) Phenol-d6	6.50	99	1518053	107.36	ng	0.00
23) Nitrobenzene-d5	7.43	82	1024276	79.78	ng	-0.02
41) 2,4,6-Tribromophenol	10.70	330	494044	123.53	ng	0.00
44) 2-Fluorobiphenyl	9.24	172	2051456	87.93	ng	0.00
78) Terphenyl-d14	12.97	244	1788855	105.81	ng	-0.02

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.63	88	160745	30.94	ng	87
3) Pyridine	3.33	79	253655	17.25	ng	# 85
4) n-Nitrosodimethylamine	3.26	42	295685	38.32	ng	98
6) Aniline	6.54	93	59523	3.17	ng	# 69
8) 2-Chlorophenol	6.65	128	494809	39.29	ng	86
10) Phenol	6.52	94	633715	38.09	ng	88
11) bis(2-Chloroethyl)ether	6.61	93	524975	44.16	ng	98
12) 1,3-Dichlorobenzene	6.81	146	497794	35.53	ng	96
13) 1,4-Dichlorobenzene	6.88	146	481974	34.59	ng	95
14) 1,2-Dichlorobenzene	7.04	146	510522	39.33	ng	94
15) Benzyl Alcohol	7.01	79	330700	29.23	ng	97
16) 2,2'-oxybis(1-Chloropropan	7.16	45	1016828	39.78	ng	74
17) 2-Methylphenol	7.12	107	390100	39.19	ng	# 76
18) Hexachloroethane	7.38	117	191209	38.65	ng	97
19) n-Nitroso-di-n-propylamine	7.28	70	365422	41.02	ng	# 97
20) 3+4-Methylphenols	7.28	107	485919	39.98	ng	# 45
22) Acetophenone	7.28	105	683092	40.06	ng	# 88
24) Nitrobenzene	7.45	77	590737	44.94	ng	# 83
25) Isophorone	7.69	82	1004346	44.16	ng	98
26) 2-Nitrophenol	7.76	139	241084	40.25	ng	97
27) 2,4-Dimethylphenol	7.81	122	480891	42.91	ng	96
28) bis(2-Chloroethoxy)methane	7.90	93	565770	41.32	ng	99
29) 2,4-Dichlorophenol	8.01	162	426319	43.25	ng	90
30) 1,2,4-Trichlorobenzene	8.09	180	464454	42.03	ng	98
31) Naphthalene	8.17	128	1446107	42.29	ng	99
32) Benzoic acid	7.92	122	298794	36.17	ng	97
34) Hexachlorobutadiene	8.30	225	282171	41.52	ng	99
35) Caprolactam	8.58	113	75769	26.74	ng	91
36) 4-Chloro-3-methylphenol	8.70	107	427182	40.14	ng	99
37) 2-Methylnaphthalene	8.87	142	1002874	43.17	ng	95
39) 1,2,4,5-Tetrachlorobenzene	9.03	216	410108	34.44	ng	100
40) Hexachlorocyclopentadiene	9.02	237	512650	92.87	ng	99
42) 2,4,6-Trichlorophenol	9.14	196	344338	44.49	ng	96
43) 2,4,5-Trichlorophenol	9.19	196	304260	39.23	ng	95

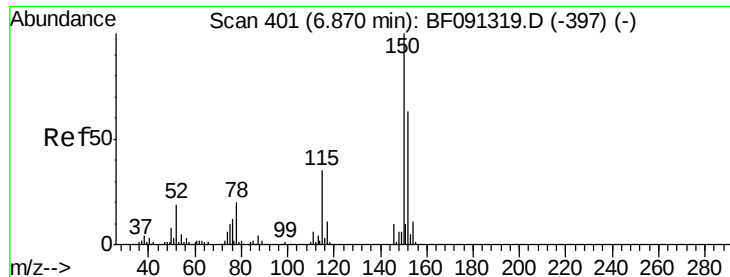
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112916\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1'-Biphenyl	9.33	154	1091907	35.95	ng	98
46) 2-Chloronaphthalene	9.35	162	847241	37.45	ng	97
47) 2-Nitroaniline	9.44	65	256869	31.61	ng #	74
48) Acenaphthylene	9.77	152	1393287	39.12	ng	99
49) Dimethylphthalate	9.64	163	1117952	43.71	ng	98
50) 2,6-Dinitrotoluene	9.69	165	267010	46.70	ng #	68
51) Acenaphthene	9.94	154	1054288	43.89	ng	94
52) 3-Nitroaniline	9.85	138	37891	5.73	ng	100
53) 2,4-Dinitrophenol	9.97	184	248707	99.48	ng #	68
54) Dibenzofuran	10.12	168	1362692	42.37	ng	93
55) 4-Nitrophenol	10.01	139	261258	54.66	ng	100
56) 2,4-Dinitrotoluene	10.09	165	336983	45.44	ng #	82
57) Fluorene	10.46	166	996041	40.34	ng	97
58) 2,3,4,6-Tetrachlorophenol	10.23	232	282281	42.62	ng	96
59) Diethylphthalate	10.33	149	1055618	41.81	ng	96
60) 4-Chlorophenyl-phenylether	10.45	204	470652	38.01	ng #	88
61) 4-Nitroaniline	10.46	138	92582	14.90	ng	91
62) Azobenzene	10.61	77	1098443	42.63	ng	91
64) 4,6-Dinitro-2-methylphenol	10.49	198	154566	43.97	ng #	78
65) n-Nitrosodiphenylamine	10.56	169	461641	23.86	ng	99
66) 4-Bromophenyl-phenylether	10.94	248	338064	49.29	ng #	81
67) Hexachlorobenzene	11.00	284	322720	43.54	ng #	75
68) Atrazine	11.09	200	24006	3.83	ng	99
69) Pentachlorophenol	11.19	266	351791	80.63	ng	96
70) Phenanthrene	11.41	178	1392681	42.00	ng	100
71) Anthracene	11.46	178	1500008	45.58	ng	99
72) Carbazole	11.61	167	569036	19.06	ng	96
73) Di-n-butylphthalate	11.96	149	1533917	45.32	ng	100
74) Fluoranthene	12.60	202	1394228	44.39	ng	99
77) Pyrene	12.82	202	1352107	48.49	ng	99
79) Butylbenzylphthalate	13.44	149	504667	48.33	ng	86
80) Benzo(a)anthracene	14.00	228	976020	45.42	ng	99
82) Chrysene	14.05	228	1035203	48.69	ng	98
83) Bis(2-ethylhexyl)phthalate	14.01	149	701503	53.00	ng #	92
84) Di-n-octyl phthalate	14.62	149	1101728	55.01	ng	99
85) Indeno(1,2,3-cd)pyrene	16.85	276	1060054	54.44	ng	96
87) Benzo(b)fluoranthene	15.07	252	1900497	162.52	ng	97
88) Benzo(k)fluoranthene	15.07	252	1901557	193.37	ng #	96
89) Benzo(a)pyrene	15.39	252	823716	78.44	ng #	97
90) Dibenzo(a,h)anthracene	16.87	278	993227	102.26	ng #	95
91) Benzo(g,h,i)perylene	17.28	276	861193	85.99	ng	97

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.87 min Scan# 401

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

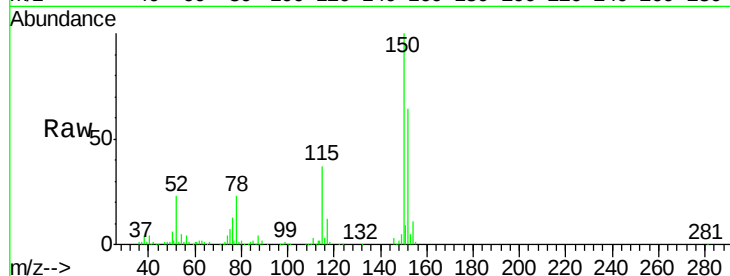
Tgt Ion:152 Resp: 187641

Ion Ratio Lower Upper

152 100

150 156.3 122.5 183.7

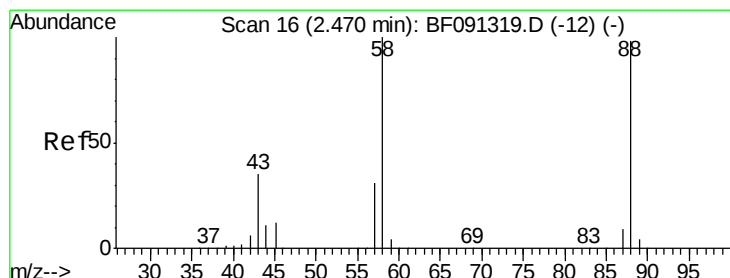
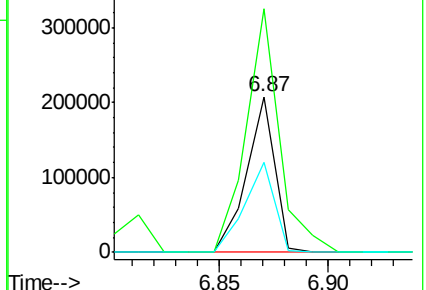
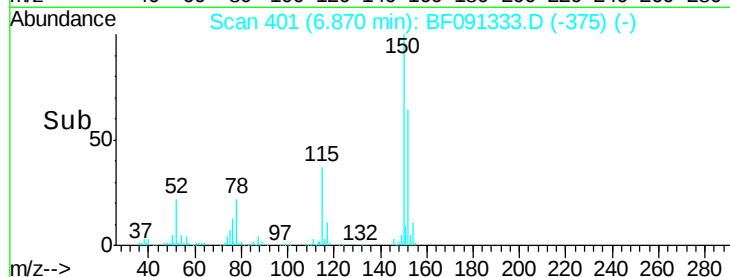
115 57.6 51.8 77.8



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: 30.94 ng

RT: 2.63 min Scan# 30

Delta R.T. 0.13 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

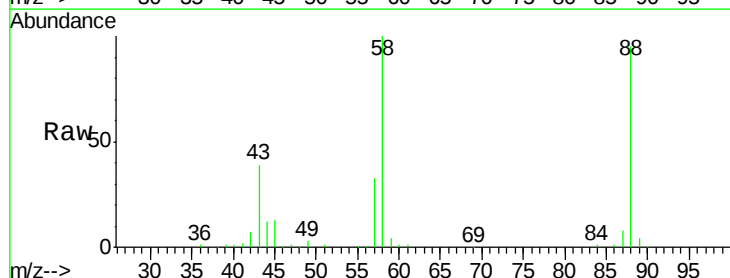
Tgt Ion: 88 Resp: 160745

Ion Ratio Lower Upper

88 100

58 104.8 70.3 105.5

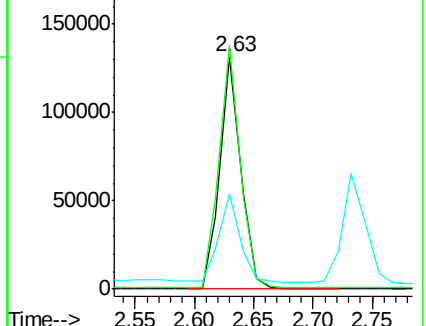
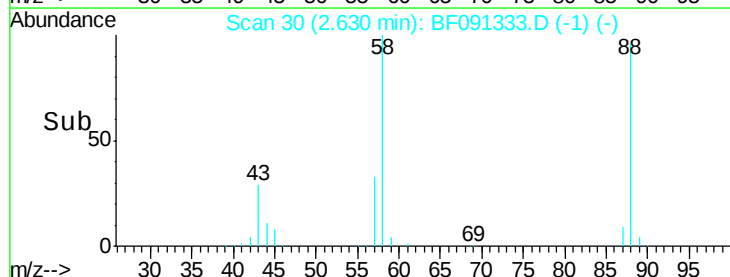
43 38.6 31.3 46.9

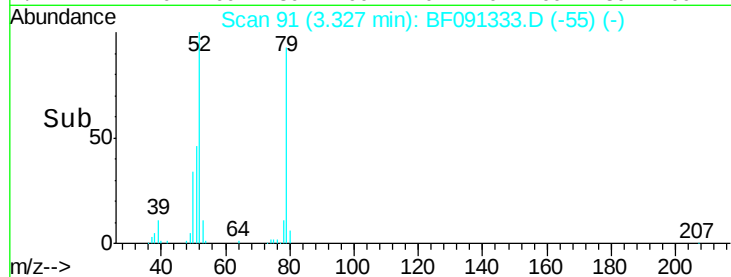
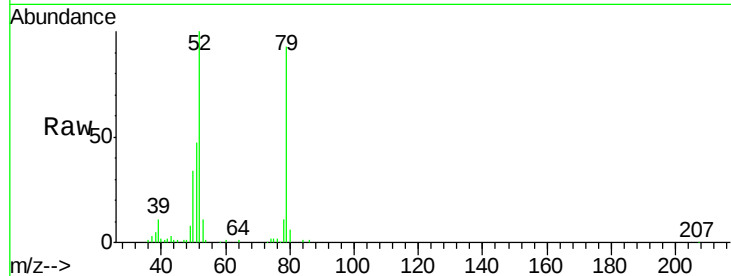
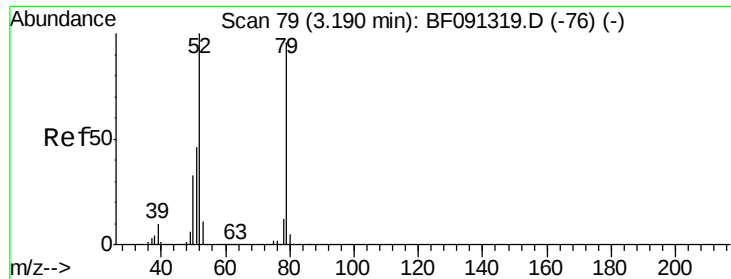


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0

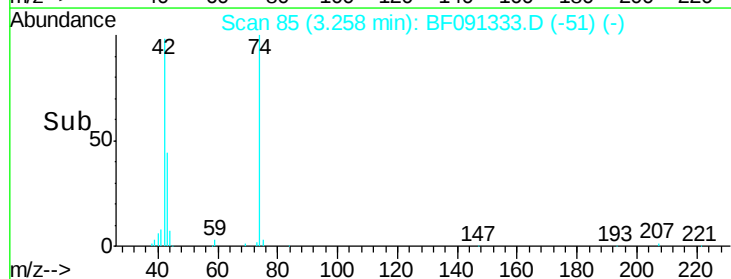
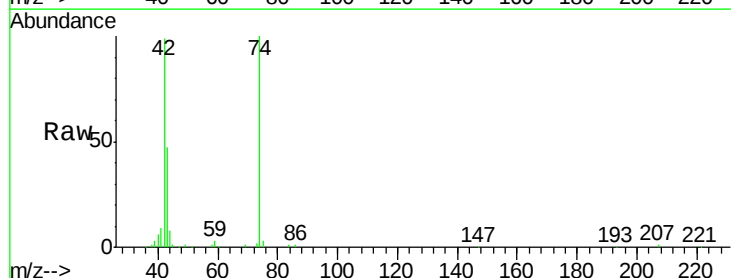
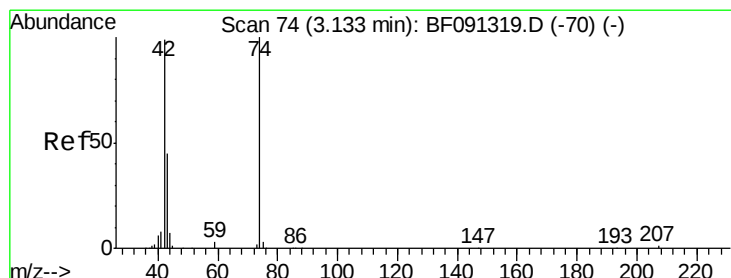
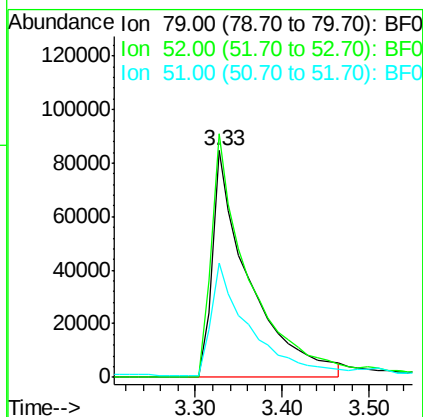




#3
 Pyridine
 Concen: 17.25 ng
 RT: 3.33 min Scan# 91
 Delta R.T. 0.11 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

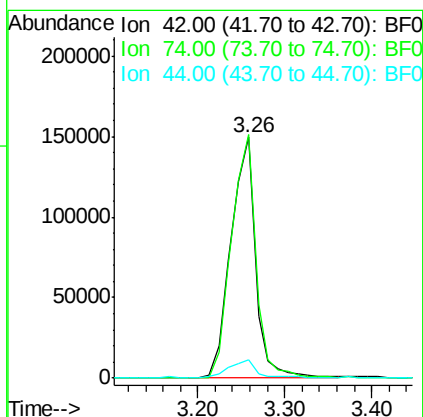
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

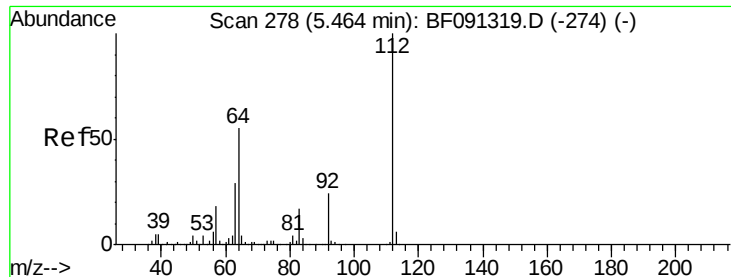
Tgt Ion: 79 Resp: 253655
 Ion Ratio Lower Upper
 79 100
 52 107.4 71.0 106.4#
 51 50.6 37.0 55.4



#4
 n-Nitrosodimethylamine
 Concen: 38.32 ng
 RT: 3.26 min Scan# 85
 Delta R.T. 0.09 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Tgt Ion: 42 Resp: 295685
 Ion Ratio Lower Upper
 42 100
 74 101.1 78.9 118.3
 44 7.8 5.8 8.6





#5

2-Fluorophenol

Concen: 112.77 ng

RT: 5.49 min Scan# 280

Delta R.T. 0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

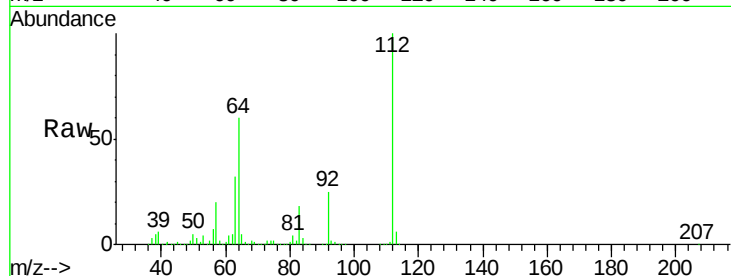
Tgt Ion:112 Resp: 1295256

Ion Ratio Lower Upper

112 100

64 60.4 61.5 92.3#

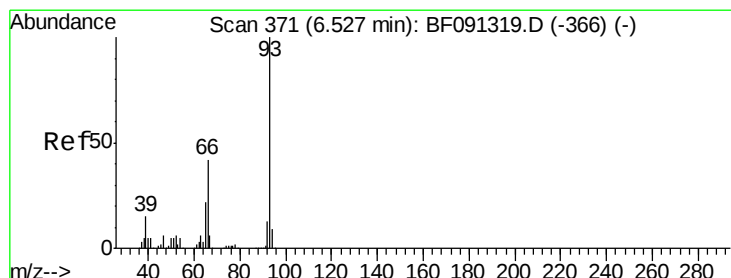
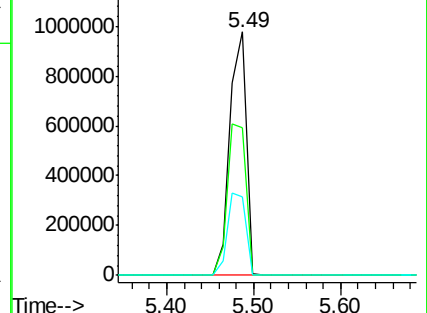
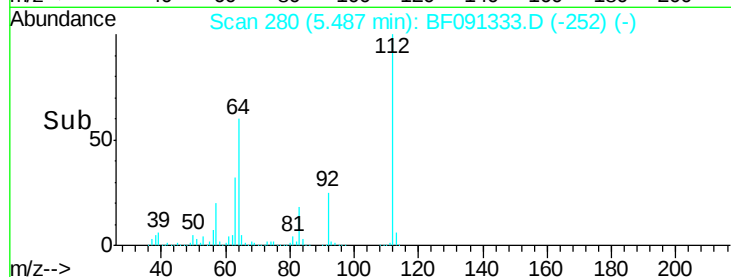
63 32.3 33.3 49.9#



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#6

Aniline

Concen: 3.17 ng

RT: 6.54 min Scan# 372

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

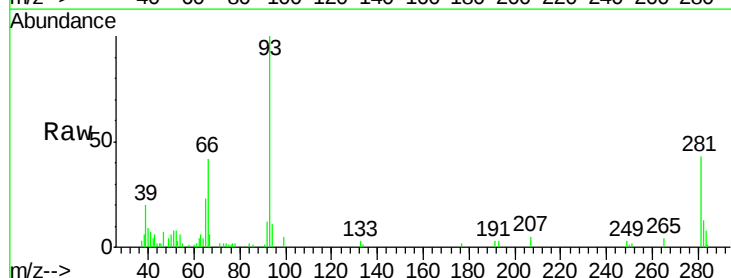
Tgt Ion: 93 Resp: 59523

Ion Ratio Lower Upper

93 100

66 42.1 55.8 83.6#

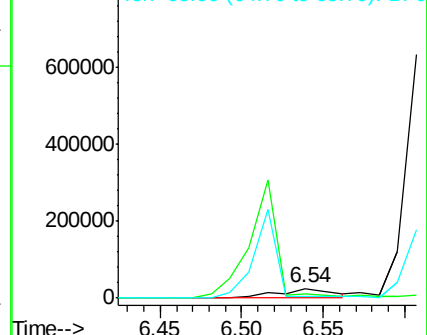
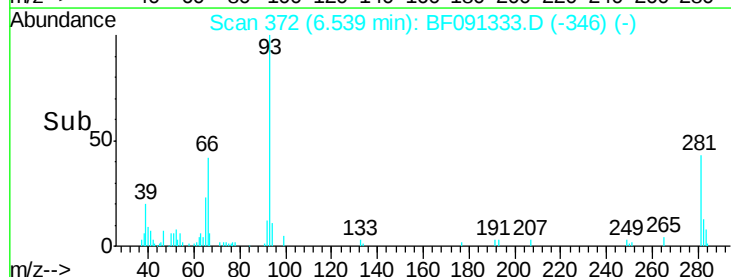
65 22.6 29.9 44.9#

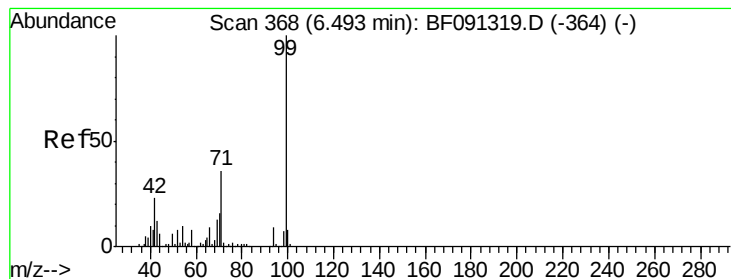


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 107.36 ng

RT: 6.50 min Scan# 369

Delta R.T. 0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

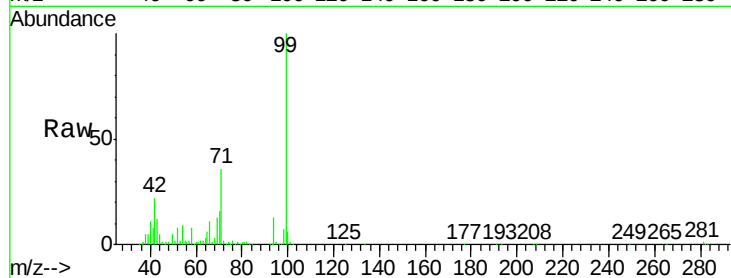
Tgt Ion: 99 Resp: 1518053

Ion Ratio Lower Upper

99 100

42 22.3 20.6 31.0

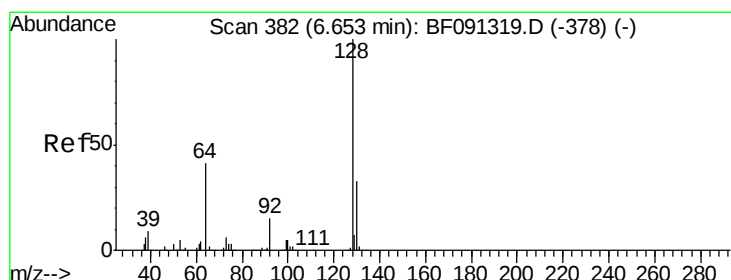
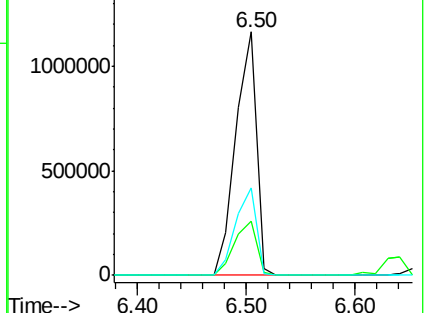
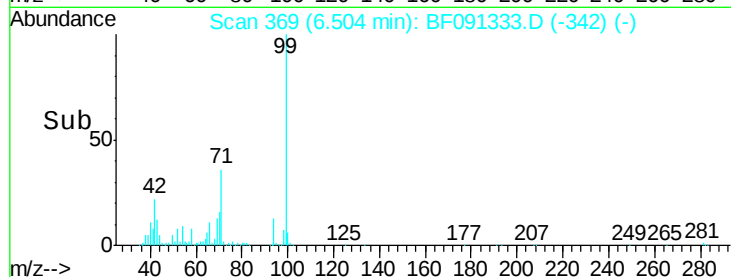
71 35.7 29.9 44.9



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: 39.29 ng

RT: 6.65 min Scan# 382

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

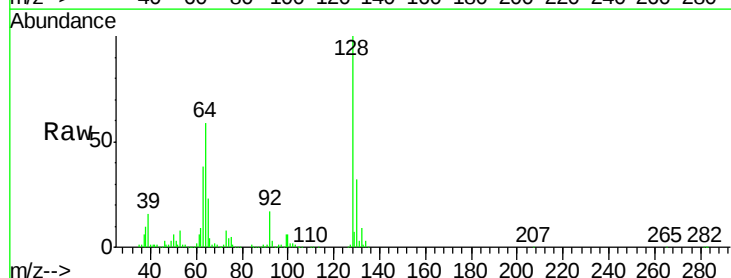
Tgt Ion: 128 Resp: 494809

Ion Ratio Lower Upper

128 100

130 32.4 13.1 53.1

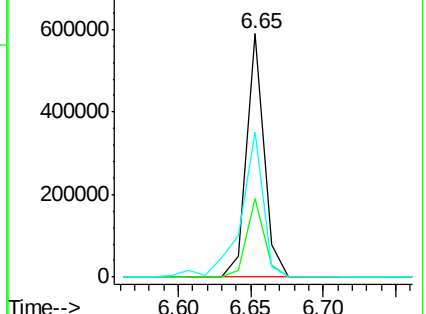
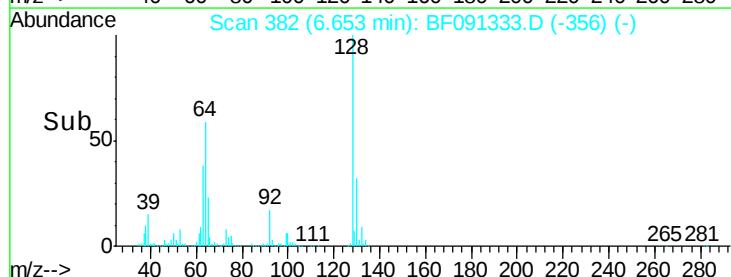
64 59.3 24.1 64.1

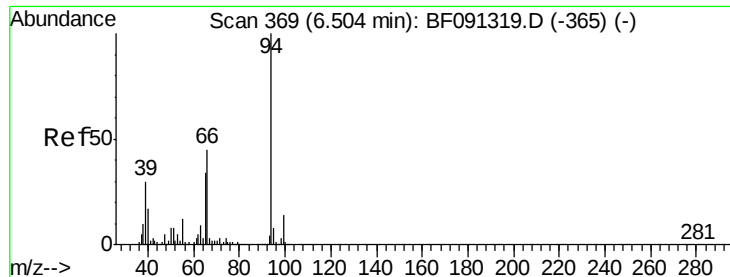


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF0





#10

Phenol

Concen: 38.09 ng

RT: 6.52 min Scan# 370

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

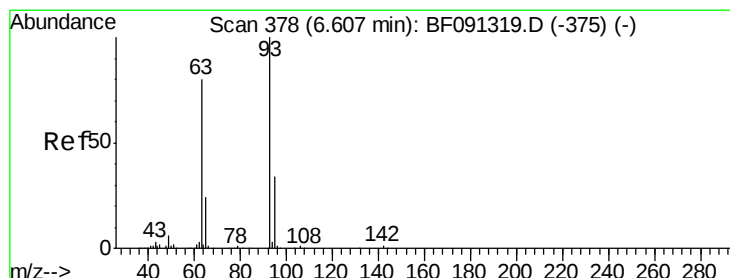
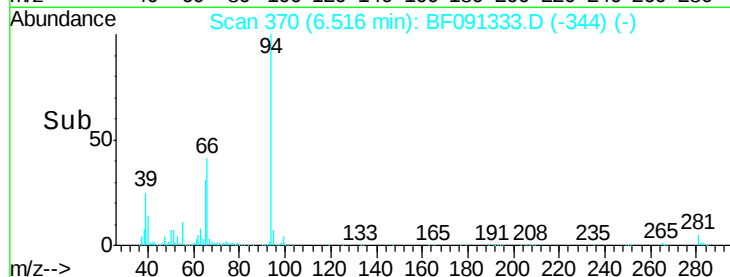
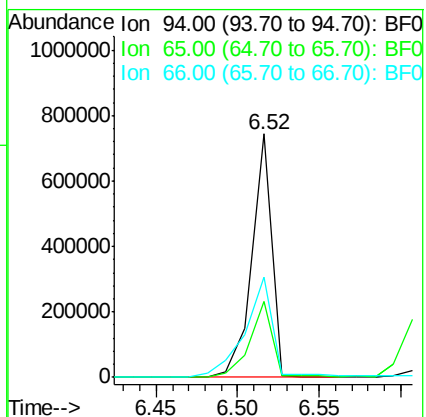
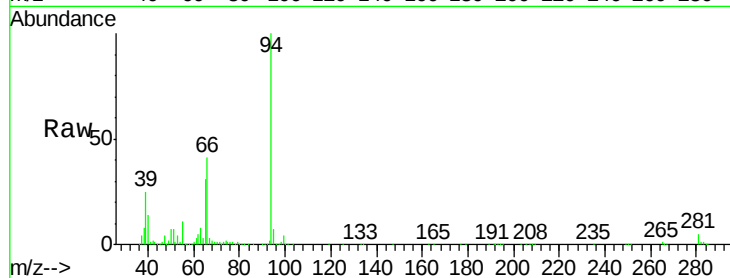
Tgt Ion: 94 Resp: 633715

Ion Ratio Lower Upper

94 100

65 31.1 16.9 56.9

66 41.1 30.6 70.6



#11

bis(2-Chloroethyl)ether

Concen: 44.16 ng

RT: 6.61 min Scan# 378

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

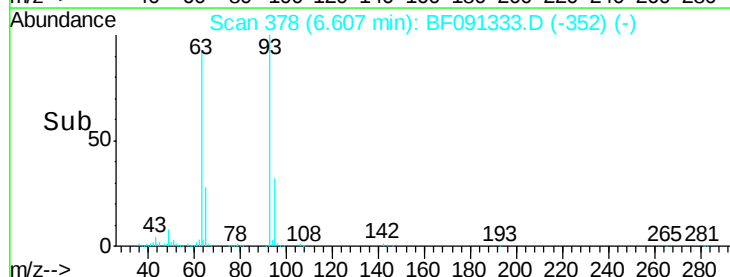
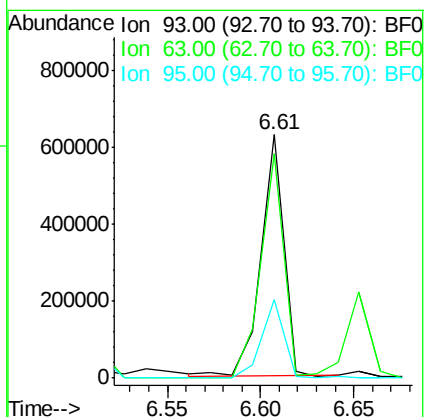
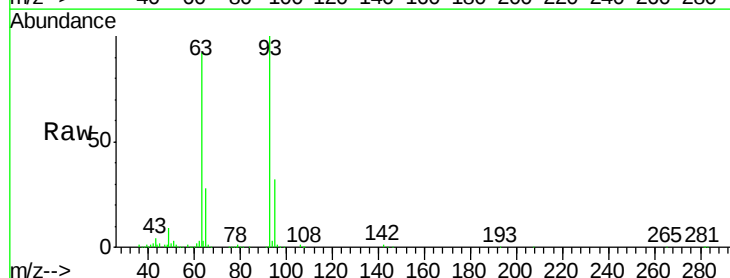
Tgt Ion: 93 Resp: 524975

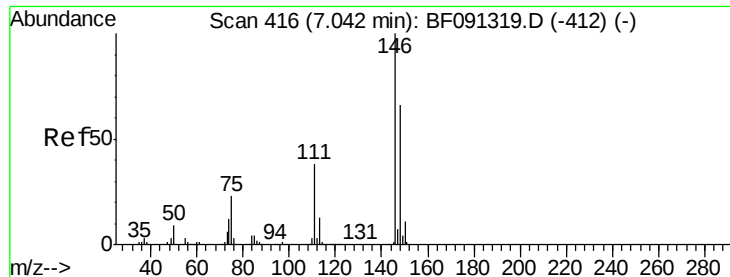
Ion Ratio Lower Upper

93 100

63 92.3 74.8 114.8

95 32.2 12.4 52.4

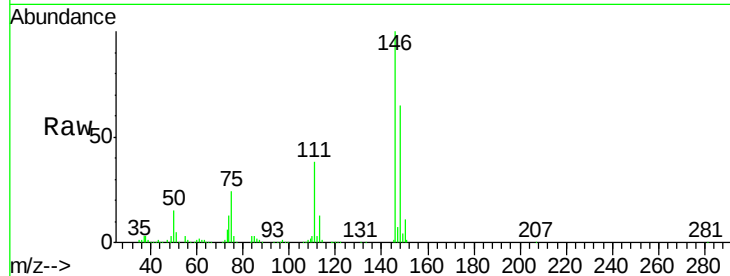




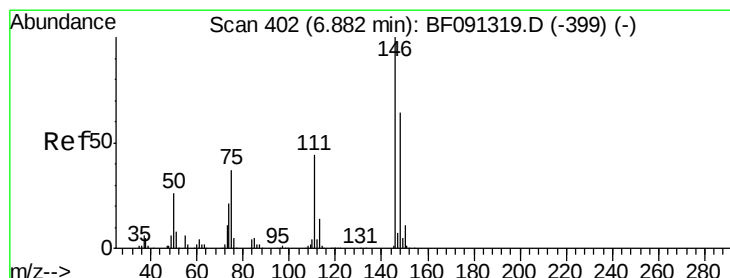
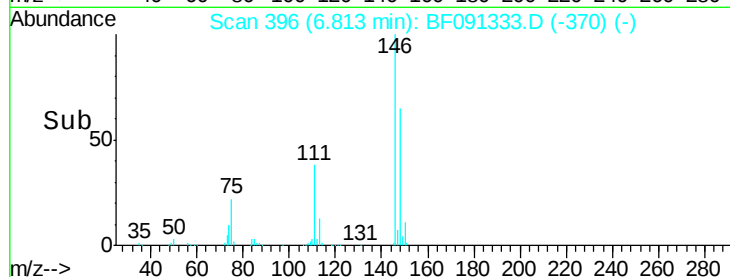
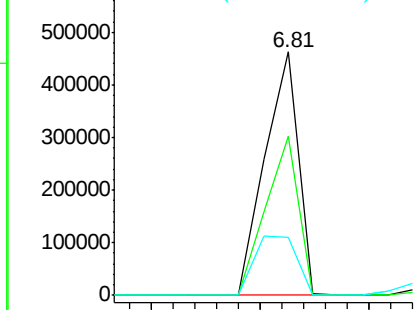
#12
 1,3-Dichlorobenzene
 Concen: 35.53 ng
 RT: 6.81 min Scan# 396
 Delta R.T. -0.01 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

Tgt Ion:146 Resp: 497794
 Ion Ratio Lower Upper
 146 100
 148 65.2 51.4 77.0
 75 23.7 23.6 35.4

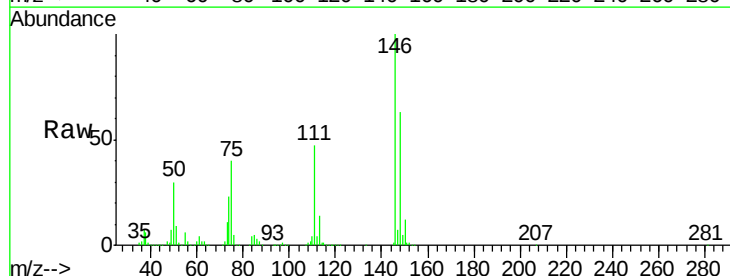


Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 75.00 (74.70 to 75.70): BF0

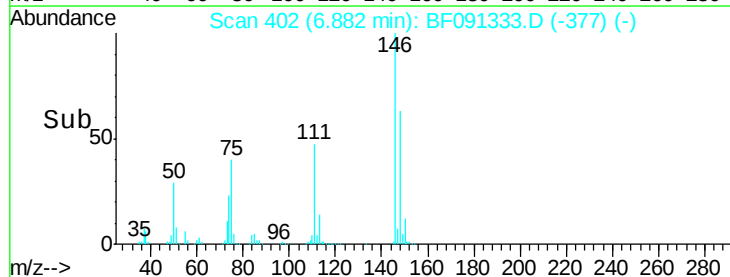
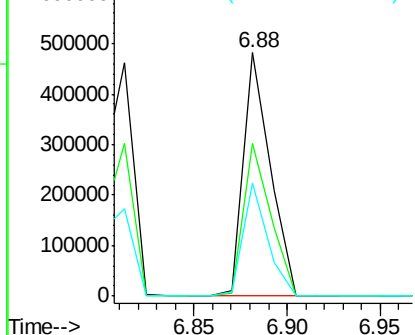


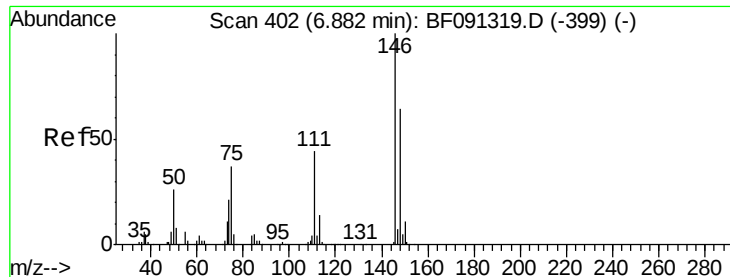
#13
 1,4-Dichlorobenzene
 Concen: 34.59 ng
 RT: 6.88 min Scan# 402
 Delta R.T. -0.02 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Tgt Ion:146 Resp: 481974
 Ion Ratio Lower Upper
 146 100
 148 62.9 51.4 77.0
 111 46.6 32.2 48.2



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

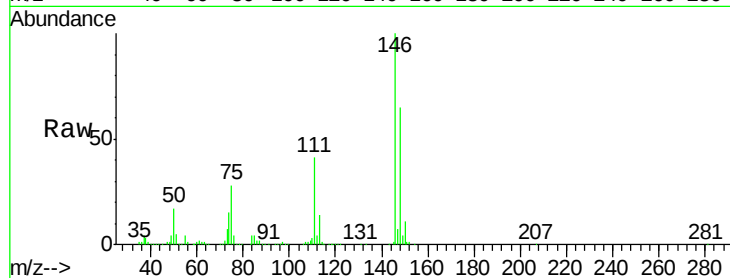




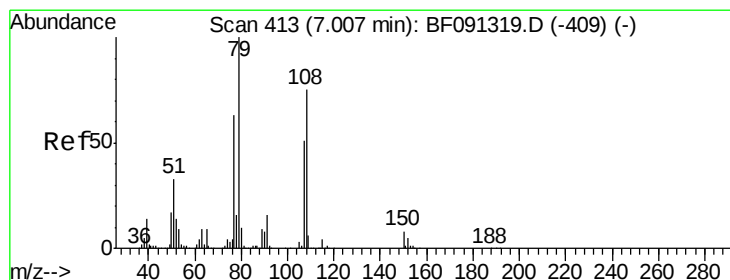
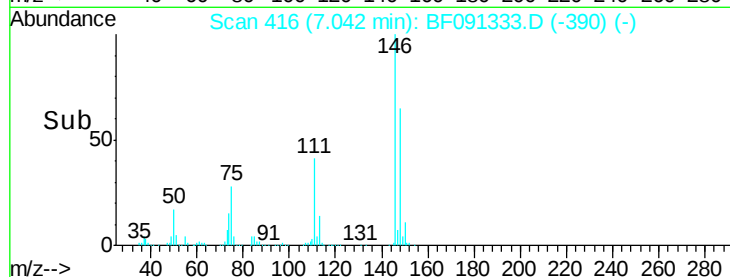
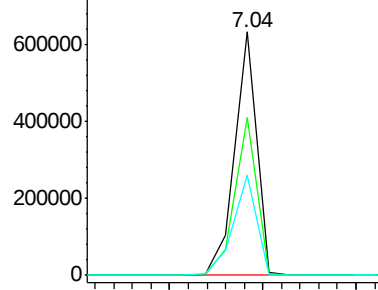
#14
 1,2-Dichlorobenzene
 Concen: 39.33 ng
 RT: 7.04 min Scan# 416
 Delta R.T. -0.01 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

Tgt Ion:146 Resp: 510522
 Ion Ratio Lower Upper
 146 100
 148 64.9 51.0 76.6
 111 41.2 38.9 58.3

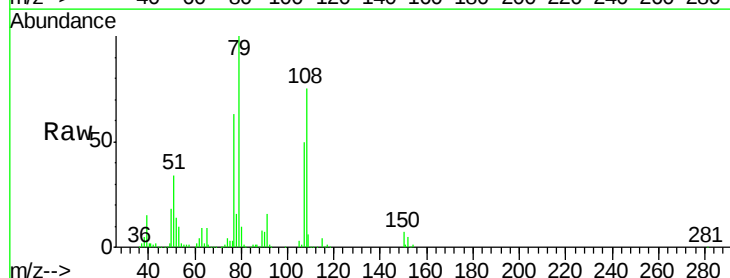


Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 111.00 (110.70 to 111.70): E

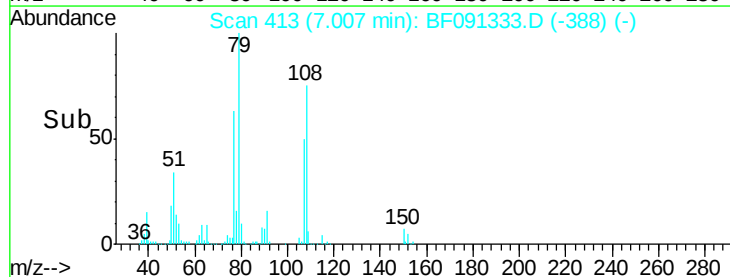
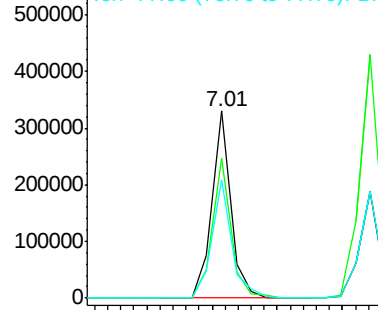


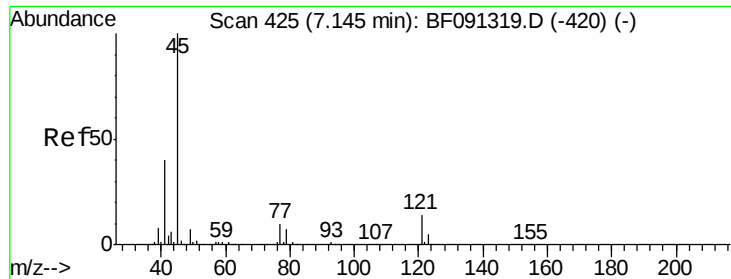
#15
 Benzyl Alcohol
 Concen: 29.23 ng
 RT: 7.01 min Scan# 413
 Delta R.T. -0.02 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Tgt Ion: 79 Resp: 330700
 Ion Ratio Lower Upper
 79 100
 108 74.8 62.7 94.1
 77 63.5 51.7 77.5



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

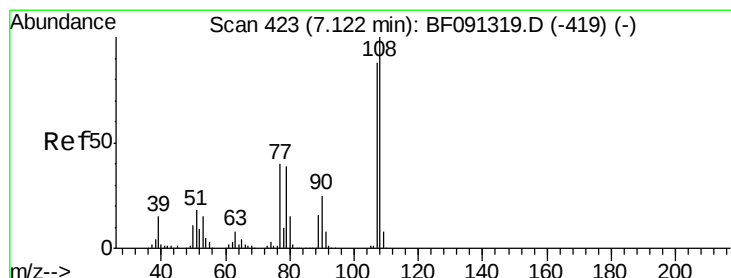
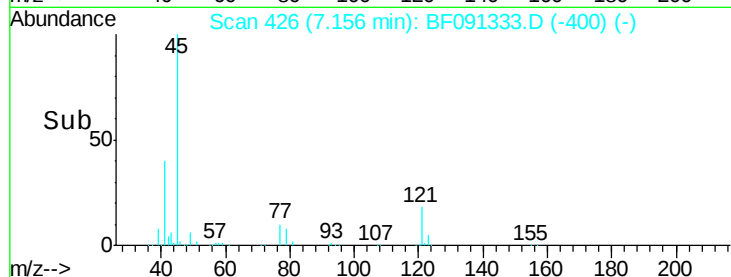
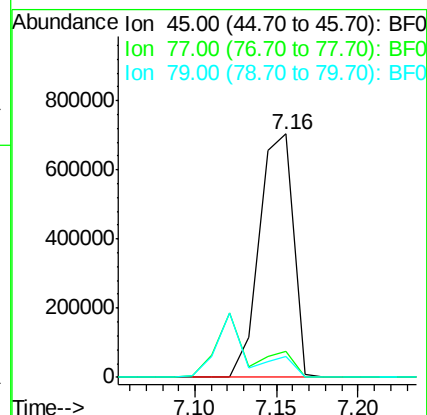
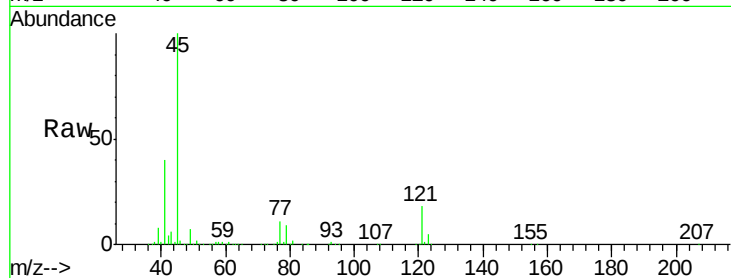




#16
 2,2'-oxybis(1-Chloropropane)
 Concen: 39.78 ng
 RT: 7.16 min Scan# 426
 Delta R.T. -0.01 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

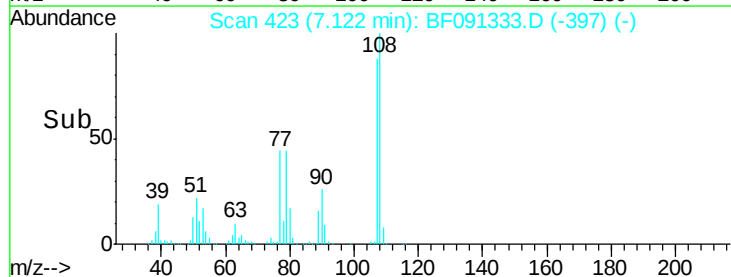
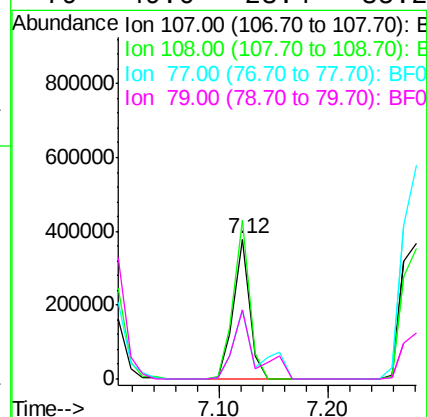
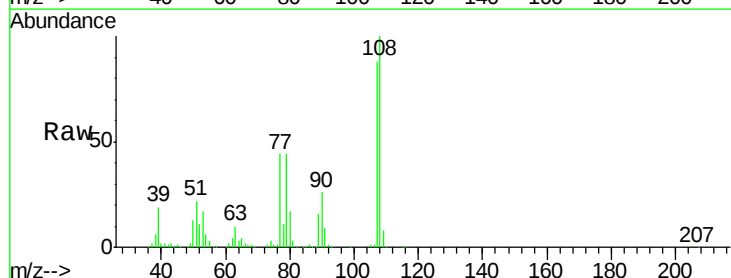
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

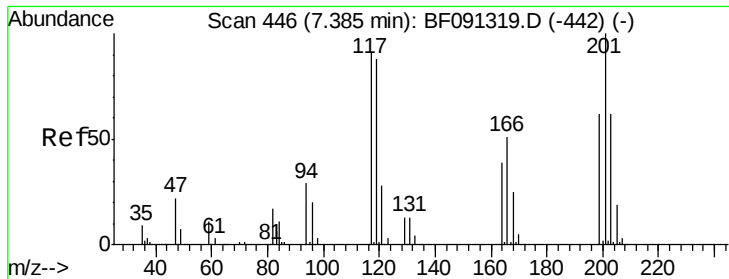
Tgt Ion: 45 Resp: 1016828
 Ion Ratio Lower Upper
 45 100
 77 10.5 3.8 43.8
 79 8.8 0.2 40.2



#17
 2-Methylphenol
 Concen: 39.19 ng
 RT: 7.12 min Scan# 423
 Delta R.T. -0.01 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Tgt Ion: 107 Resp: 390100
 Ion Ratio Lower Upper
 107 100
 108 113.3 67.7 101.5#
 77 49.5 40.7 61.1
 79 49.6 23.4 35.2#





#18

Hexachloroethane

Concen: 38.65 ng

RT: 7.38 min Scan# 446

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

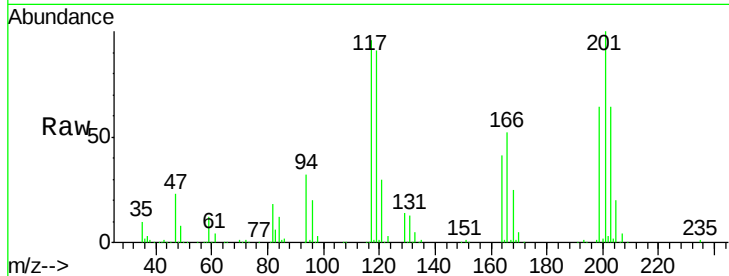
Tgt Ion: 117 Resp: 191209

Ion Ratio Lower Upper

117 100

119 95.4 78.6 118.0

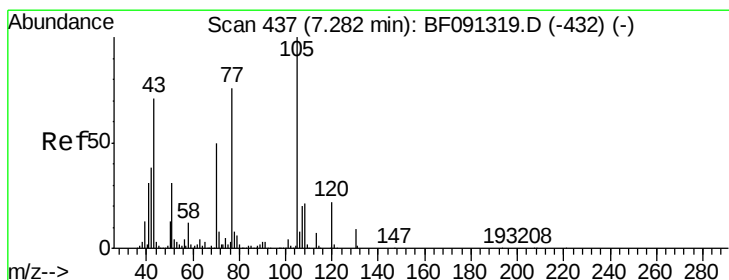
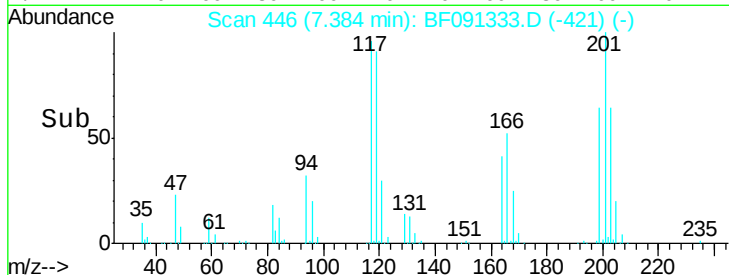
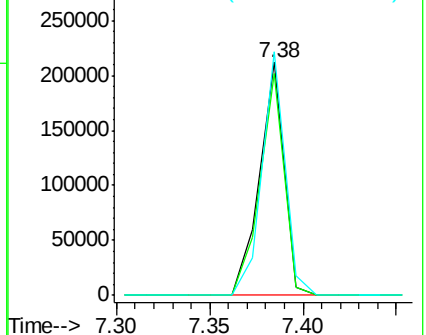
201 104.5 86.7 130.1



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: 41.02 ng

RT: 7.28 min Scan# 437

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Tgt Ion: 70 Resp: 365422

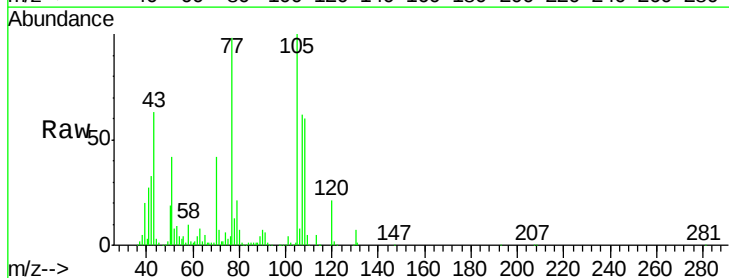
Ion Ratio Lower Upper

70 100

42 78.9 64.8 97.2

101 8.8 6.2 9.4

130 18.0 11.7 17.5#

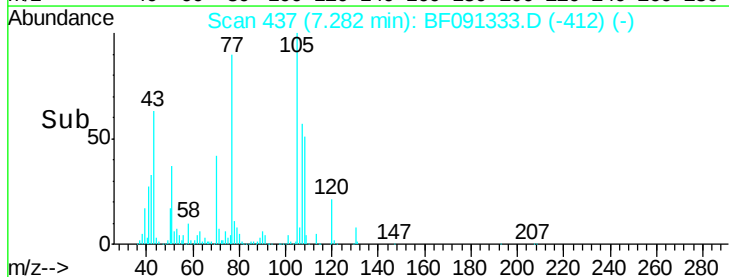
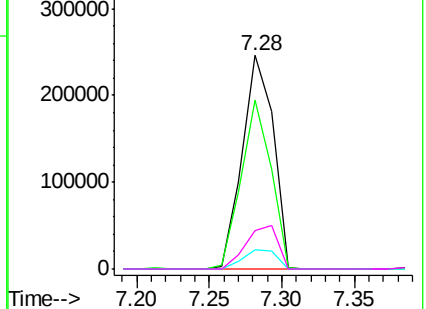


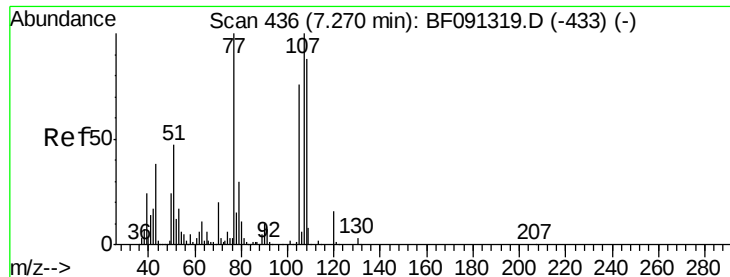
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 39.98 ng

RT: 7.28 min Scan# 437

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

Tgt Ion:107 Resp: 485919

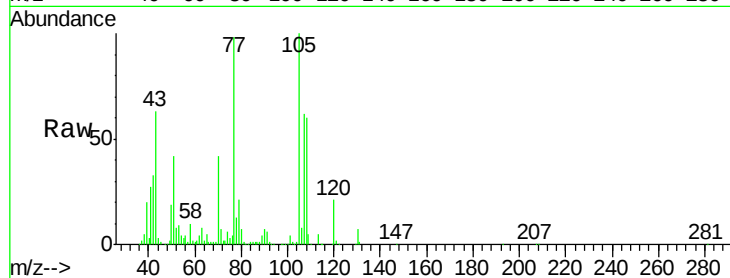
Ion Ratio Lower Upper

107 100

108 95.5 64.6 104.6

77 156.9 30.9 70.9#

79 33.5 9.3 49.3

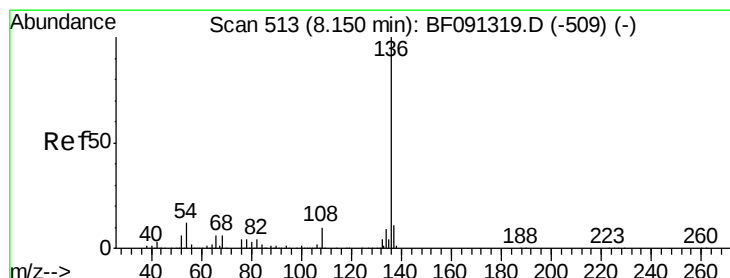
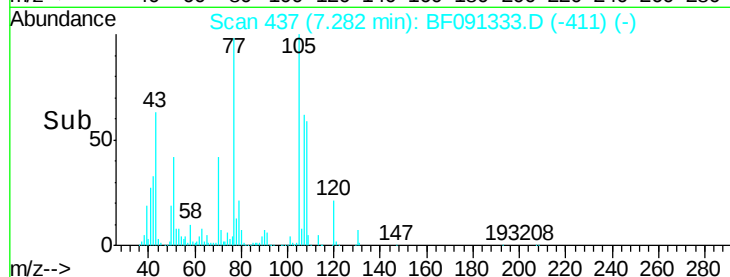
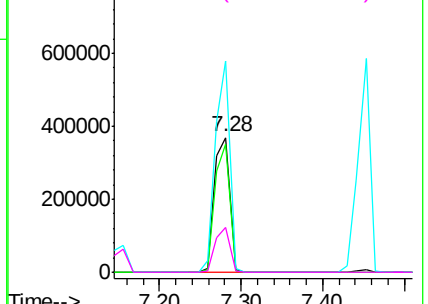


Abundance Ion 107.00 (106.70 to 107.70): E

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: 8.15 min Scan# 513

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Tgt Ion:136 Resp: 719494

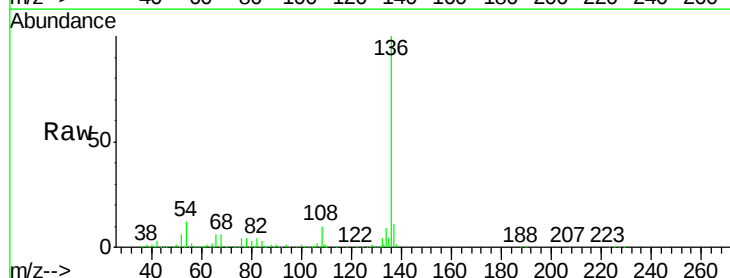
Ion Ratio Lower Upper

136 100

137 11.3 9.1 13.7

54 12.1 9.1 13.7

68 5.7 5.9 8.9#

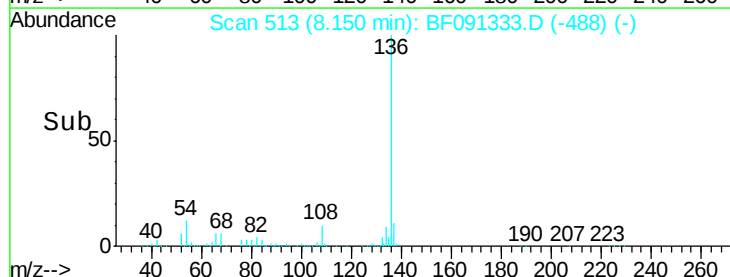
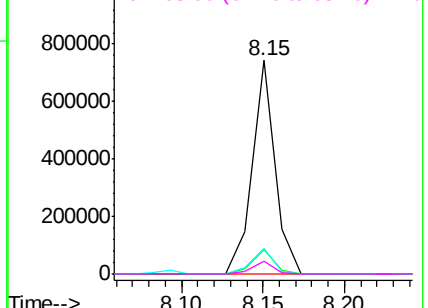


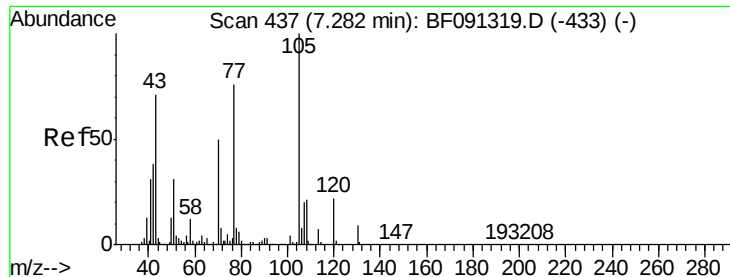
Abundance Ion 136.00 (135.70 to 136.70): E

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: 40.06 ng

RT: 7.28 min Scan# 437

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

Tgt Ion: 105 Resp: 683092

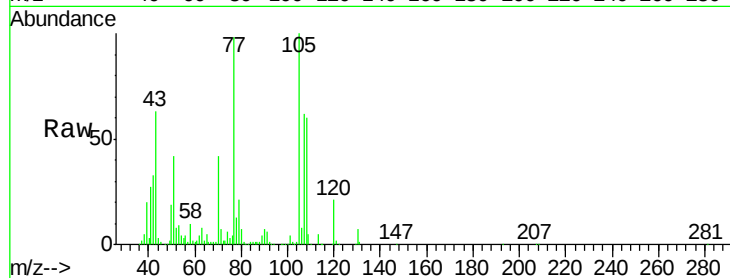
Ion Ratio Lower Upper

105 100

71 6.9 7.9 11.9#

51 42.2 24.5 36.7#

120 21.1 16.6 24.8

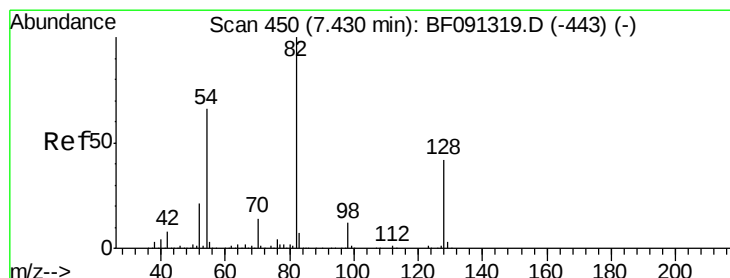
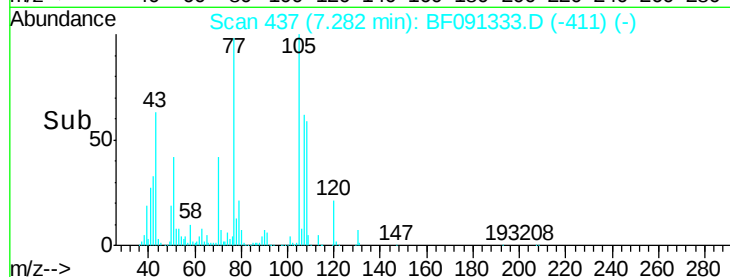
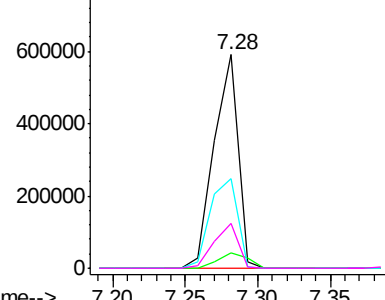


Abundance Ion 105.00 (104.70 to 105.70): E

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: 79.78 ng

RT: 7.43 min Scan# 450

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

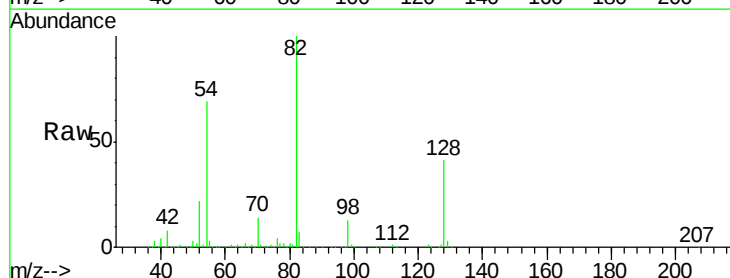
Tgt Ion: 82 Resp: 1024276

Ion Ratio Lower Upper

82 100

128 41.2 31.8 47.6

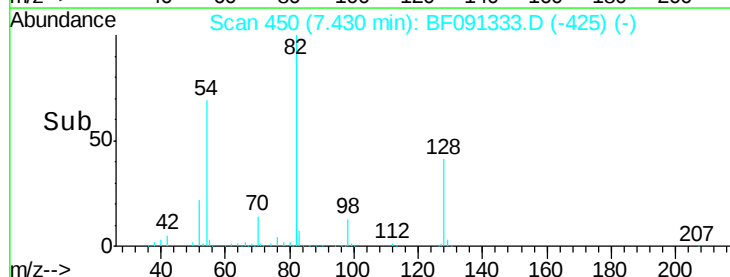
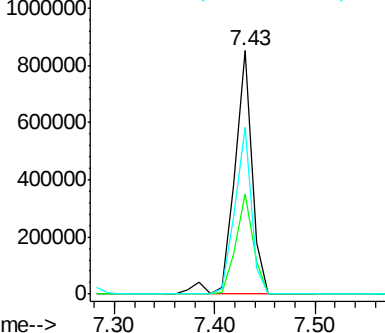
54 68.6 49.1 73.7

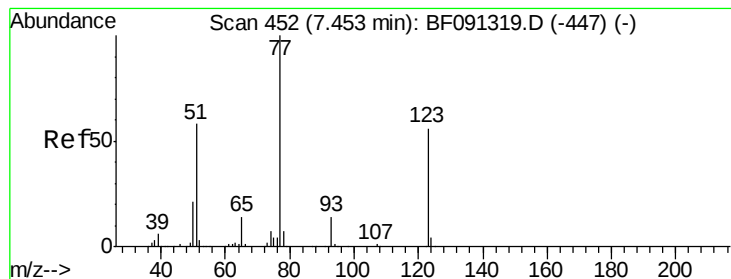


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#24

Nitrobenzene

Concen: 44.94 ng

RT: 7.45 min Scan# 452

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

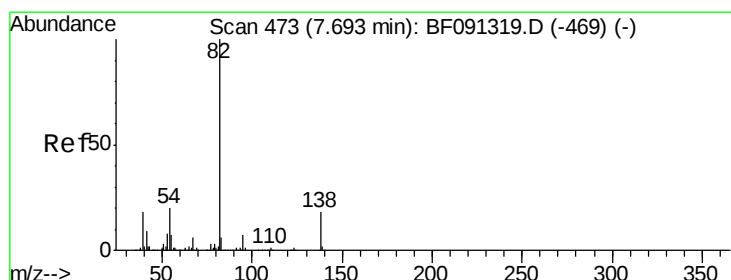
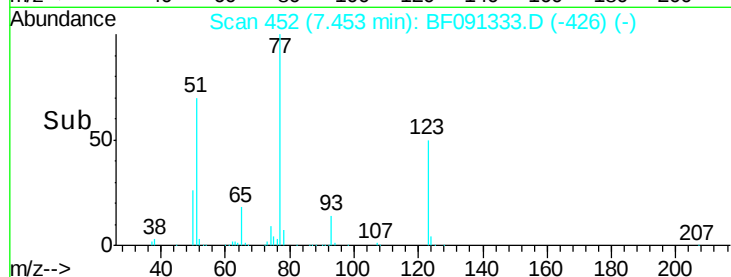
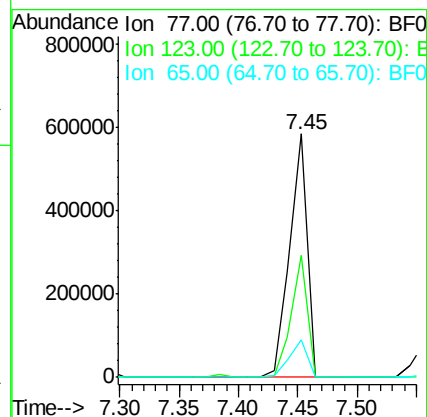
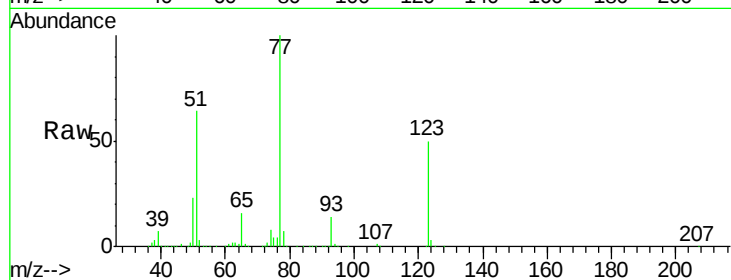
Tgt Ion: 77 Resp: 590737

Ion Ratio Lower Upper

77 100

123 50.3 28.5 42.7#

65 15.6 12.5 18.7



#25

Isophorone

Concen: 44.16 ng

RT: 7.69 min Scan# 473

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

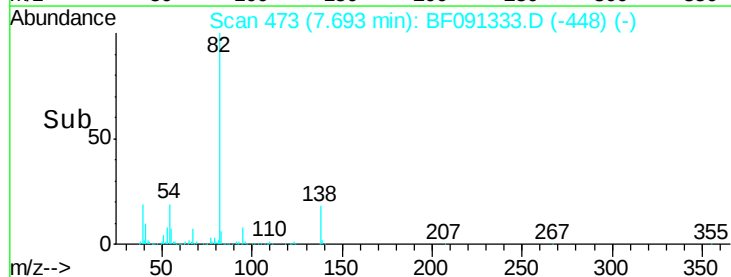
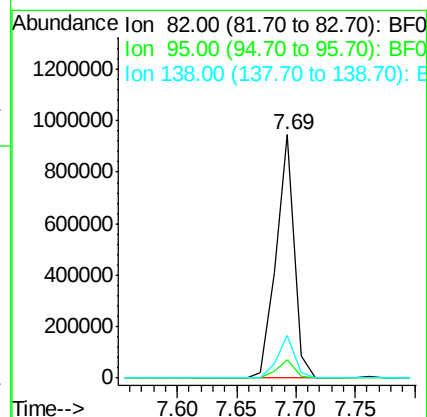
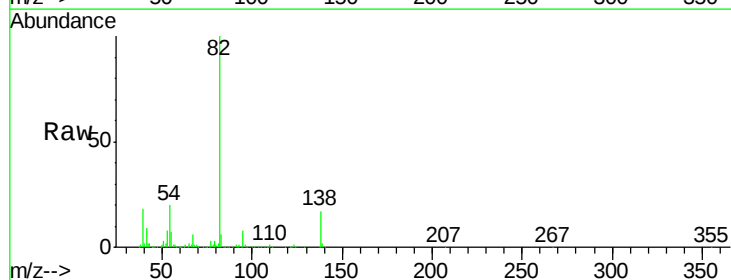
Tgt Ion: 82 Resp: 1004346

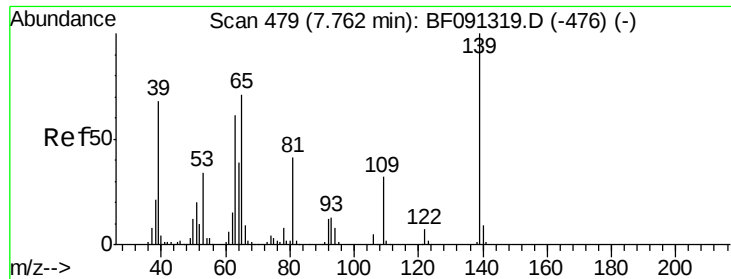
Ion Ratio Lower Upper

82 100

95 7.7 5.7 8.5

138 17.3 13.4 20.0

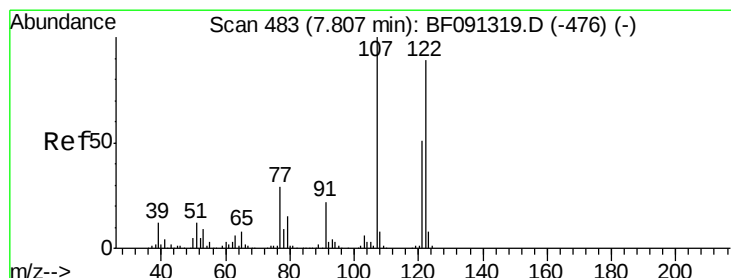
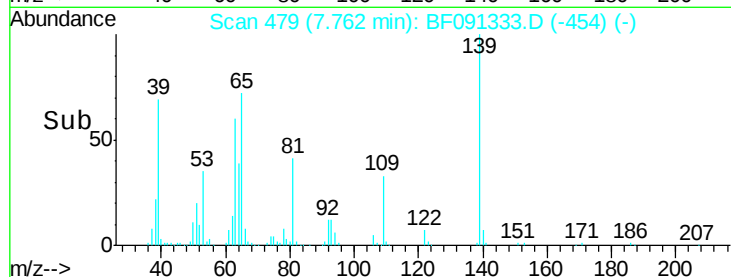
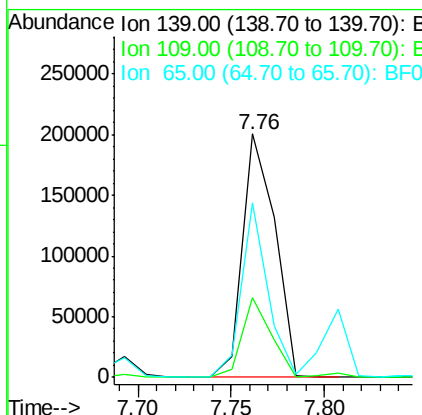
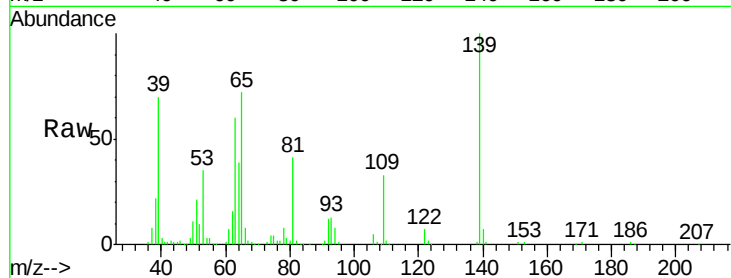




#26
 2-Nitrophenol
 Concen: 40.25 ng
 RT: 7.76 min Scan# 479
 Delta R.T. -0.02 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

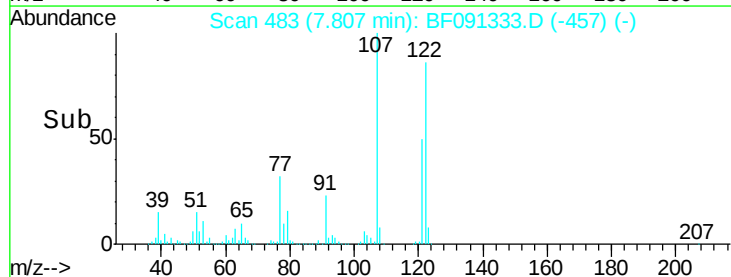
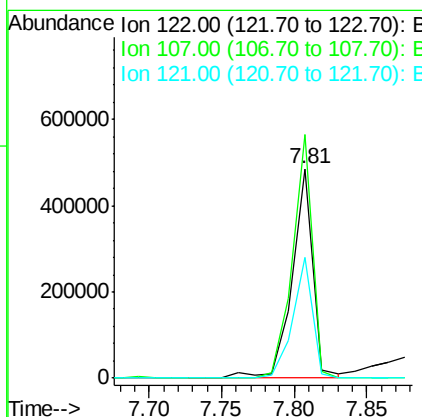
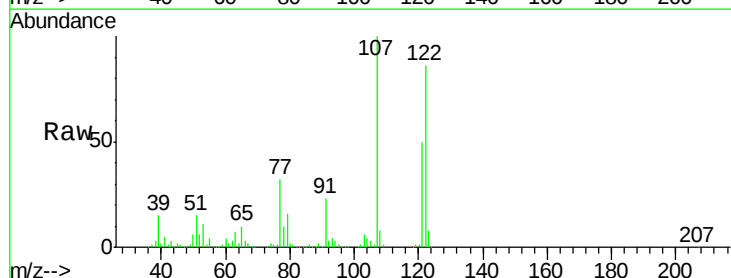
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

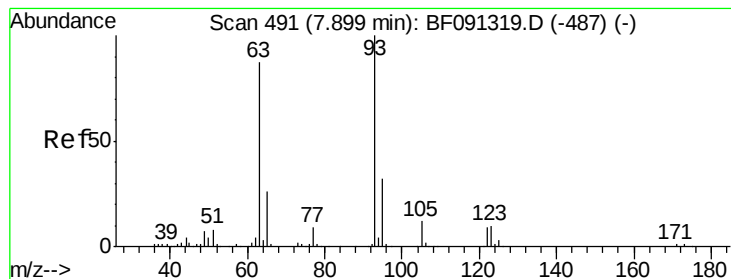
Tgt Ion:139 Resp: 241084
 Ion Ratio Lower Upper
 139 100
 109 33.0 25.3 37.9
 65 71.9 55.4 83.2



#27
 2,4-Dimethylphenol
 Concen: 42.91 ng
 RT: 7.81 min Scan# 483
 Delta R.T. -0.01 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Tgt Ion:122 Resp: 480891
 Ion Ratio Lower Upper
 122 100
 107 116.3 96.8 145.2
 121 57.9 47.7 71.5





#28

bis(2-Chloroethoxy)methane

Concen: 41.32 ng

RT: 7.90 min Scan# 491

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

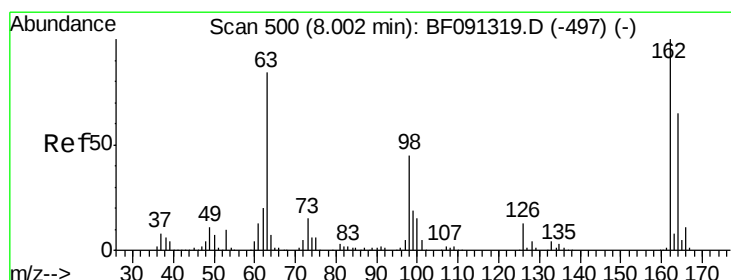
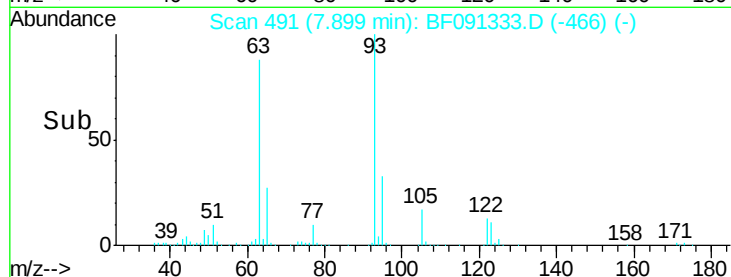
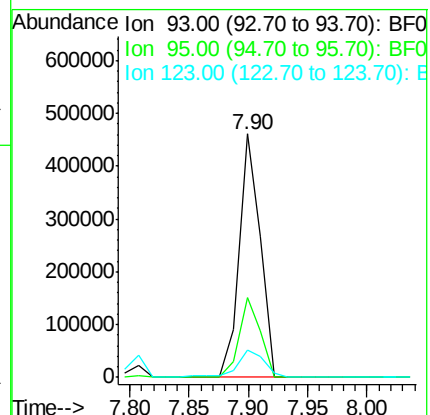
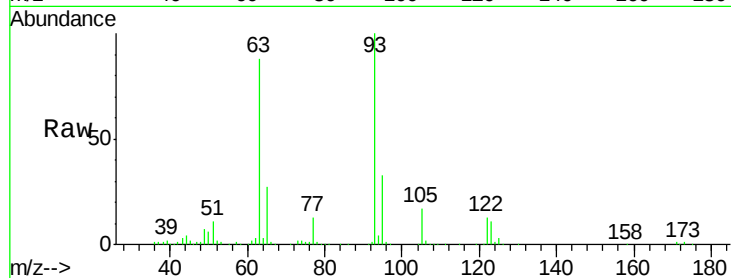
Tgt Ion: 93 Resp: 565770

Ion Ratio Lower Upper

93 100

95 33.0 26.0 39.0

123 11.0 8.6 12.8



#29

2,4-Dichlorophenol

Concen: 43.25 ng

RT: 8.01 min Scan# 501

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

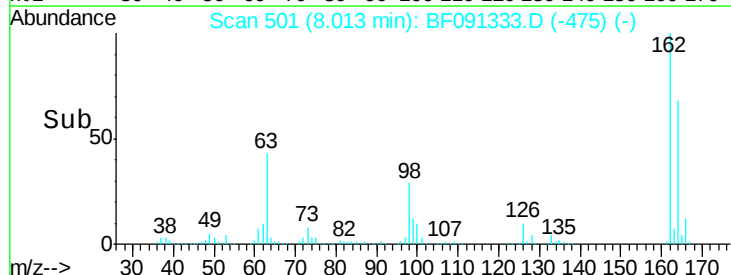
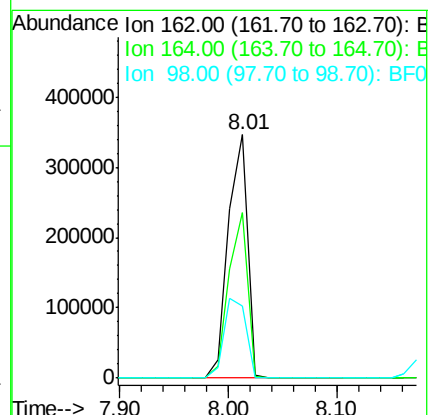
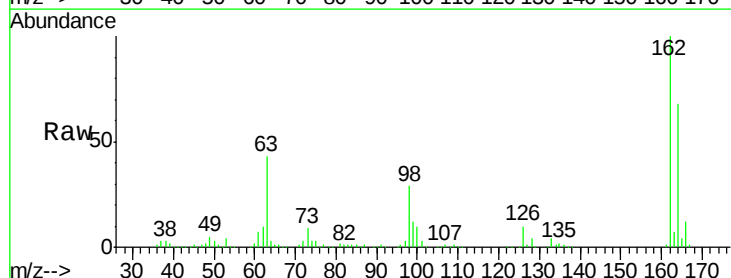
Tgt Ion: 162 Resp: 426319

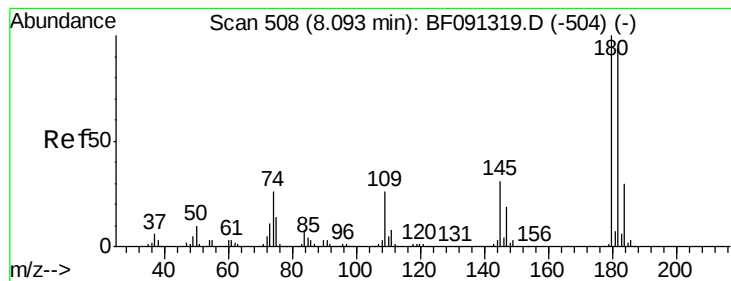
Ion Ratio Lower Upper

162 100

164 67.9 45.0 85.0

98 29.4 21.3 61.3





#30

1,2,4-Trichlorobenzene

Concen: 42.03 ng

RT: 8.09 min Scan# 508

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

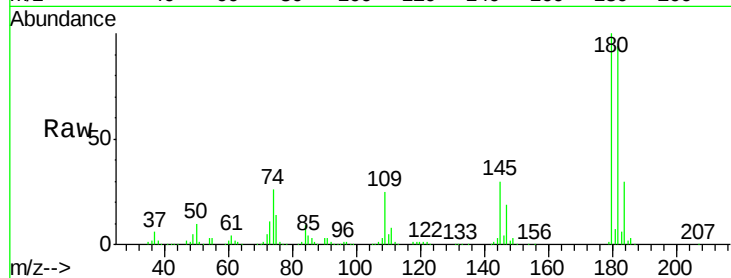
Tgt Ion:180 Resp: 464454

Ion Ratio Lower Upper

180 100

182 93.7 75.8 113.8

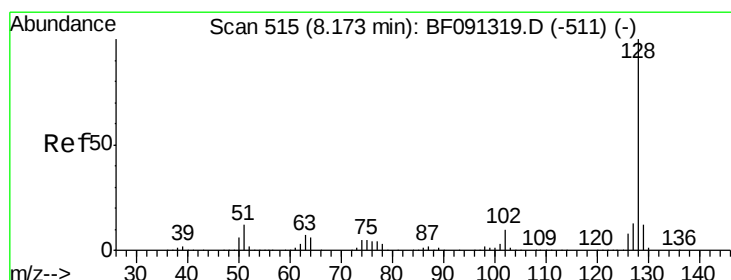
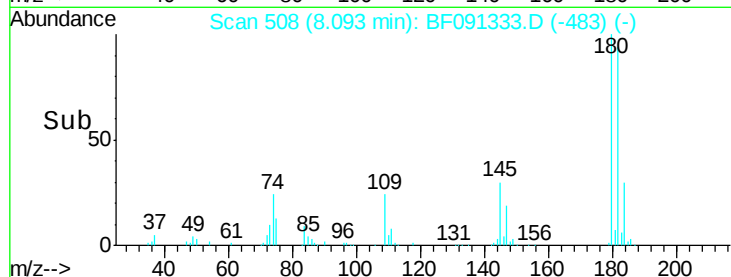
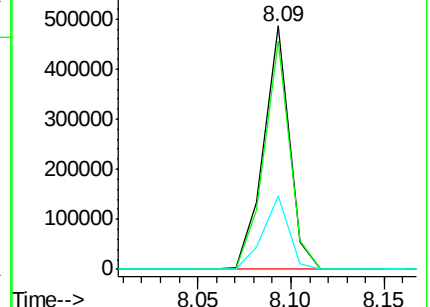
145 30.1 27.0 40.4



Abundance Ion 180.00 (179.70 to 180.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 145.00 (144.70 to 145.70): E



#31

Naphthalene

Concen: 42.29 ng

RT: 8.17 min Scan# 515

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

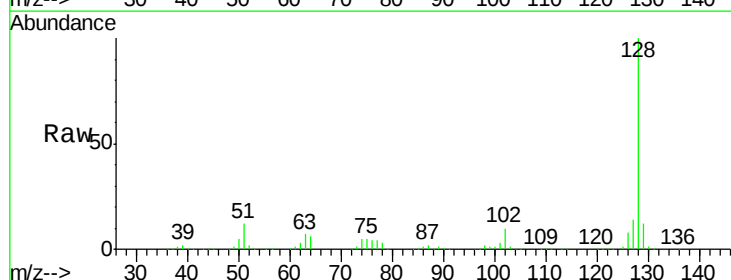
Tgt Ion:128 Resp: 1446107

Ion Ratio Lower Upper

128 100

129 11.8 9.1 13.7

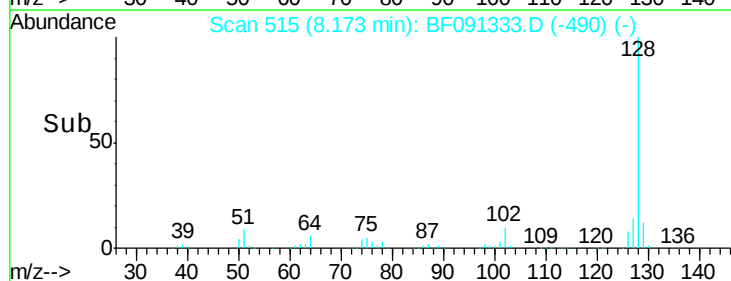
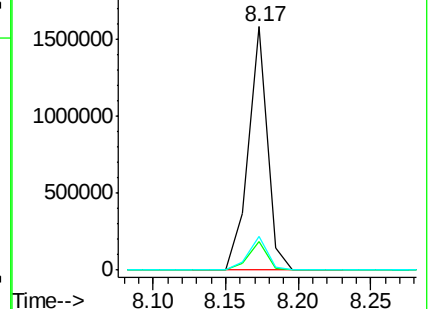
127 13.9 11.0 16.4

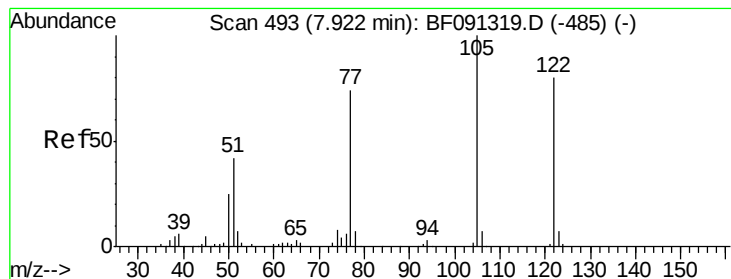


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#32

Benzoic acid

Concen: 36.17 ng

RT: 7.92 min Scan# 493

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

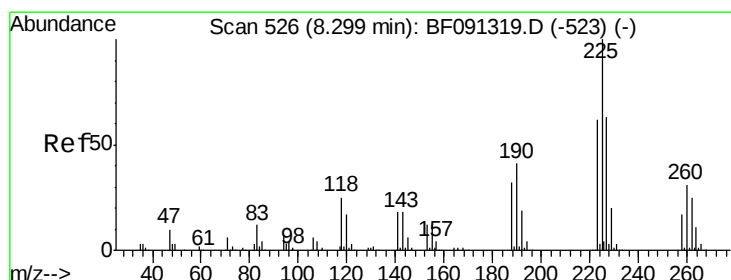
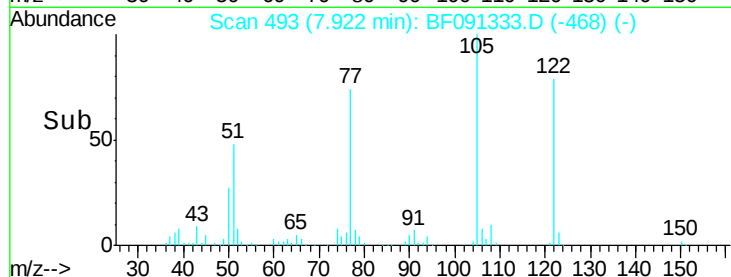
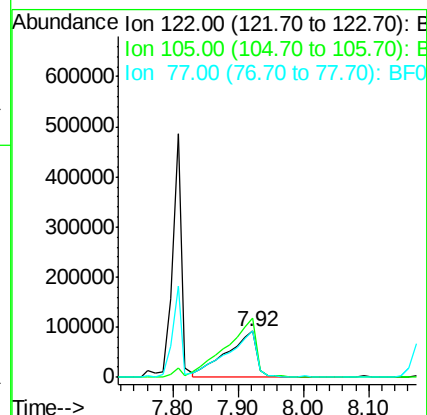
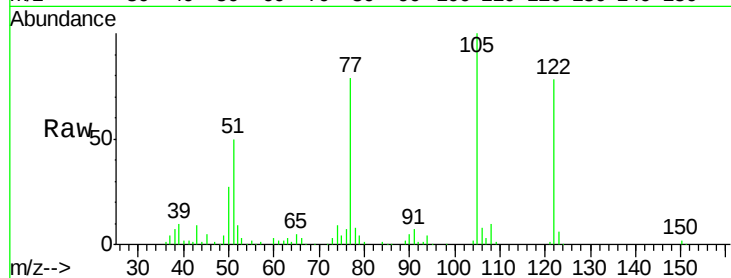
Tgt Ion:122 Resp: 298794

Ion Ratio Lower Upper

122 100

105 127.7 113.0 153.0

77 100.8 82.0 122.0



#34

Hexachlorobutadiene

Concen: 41.52 ng

RT: 8.30 min Scan# 526

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

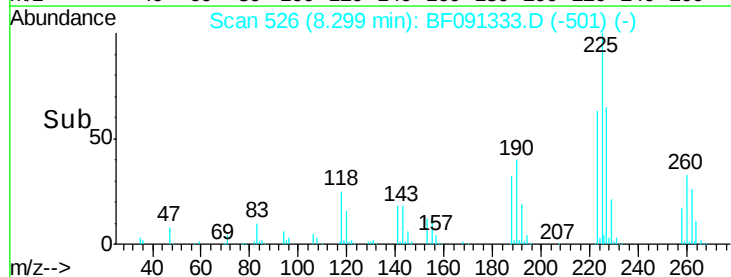
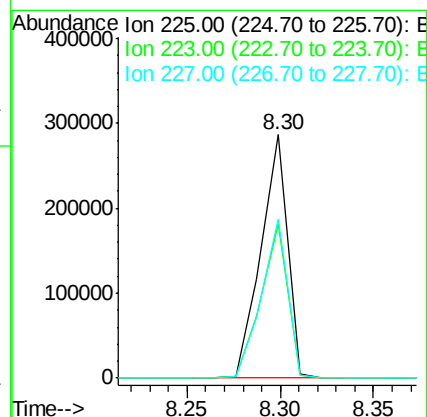
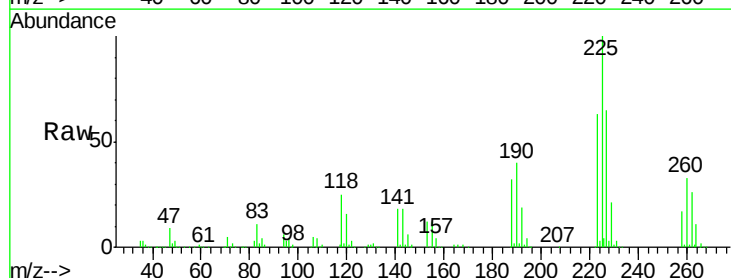
Tgt Ion:225 Resp: 282171

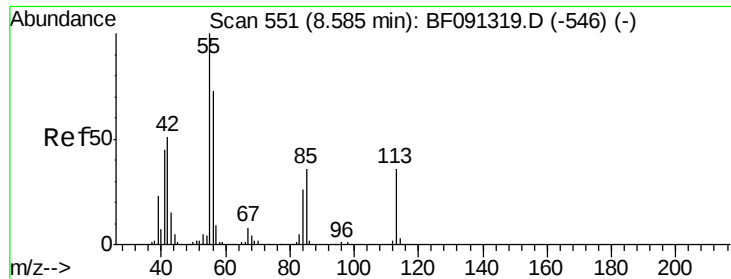
Ion Ratio Lower Upper

225 100

223 63.5 49.8 74.6

227 65.5 52.6 79.0

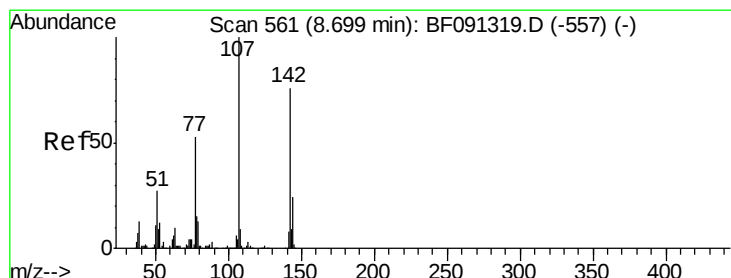
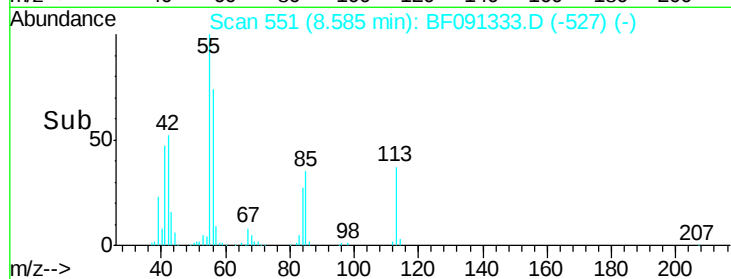
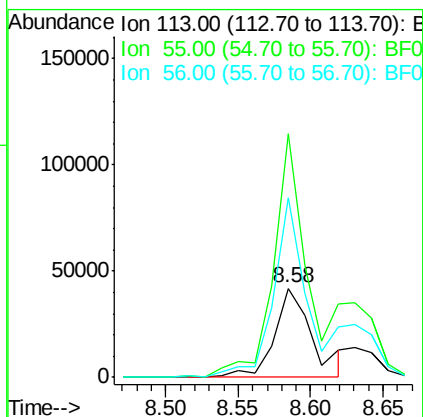
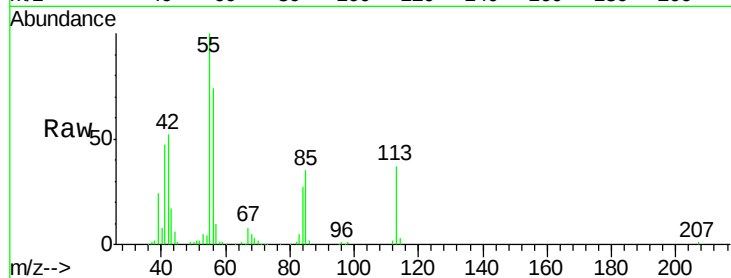




#35
 Caprolactam
 Concen: 26.74 ng
 RT: 8.58 min Scan# 551
 Delta R.T. -0.03 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

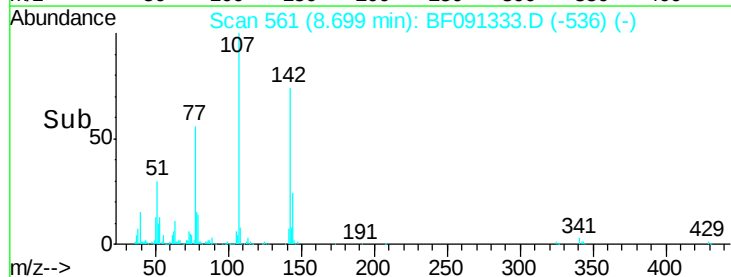
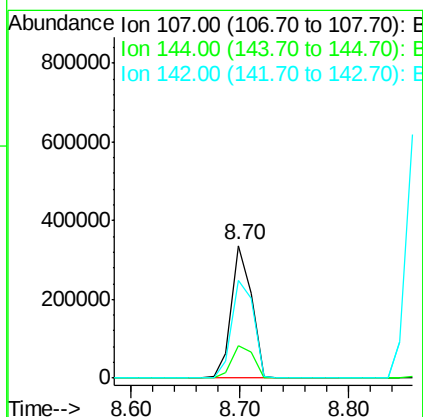
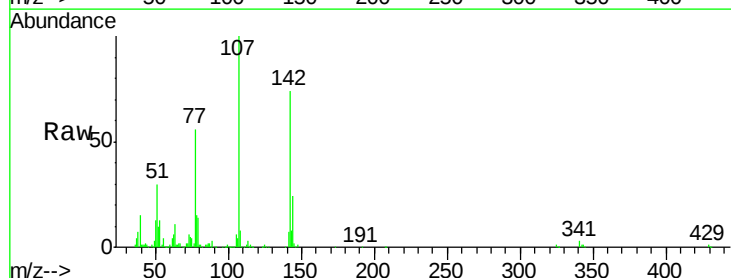
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

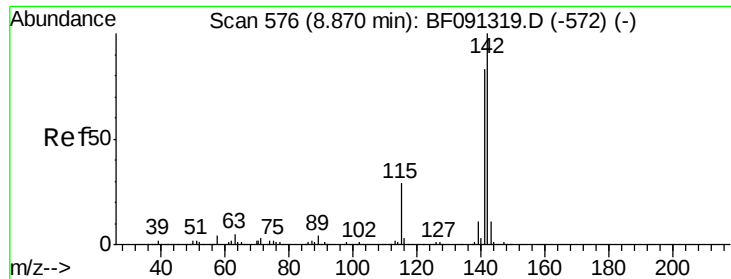
Tgt Ion:113 Resp: 75769
 Ion Ratio Lower Upper
 113 100
 55 273.3 239.8 279.8
 56 202.2 165.6 205.6



#36
 4-Chloro-3-methylphenol
 Concen: 40.14 ng
 RT: 8.70 min Scan# 561
 Delta R.T. -0.02 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Tgt Ion:107 Resp: 427182
 Ion Ratio Lower Upper
 107 100
 144 24.0 18.9 28.3
 142 74.0 58.5 87.7

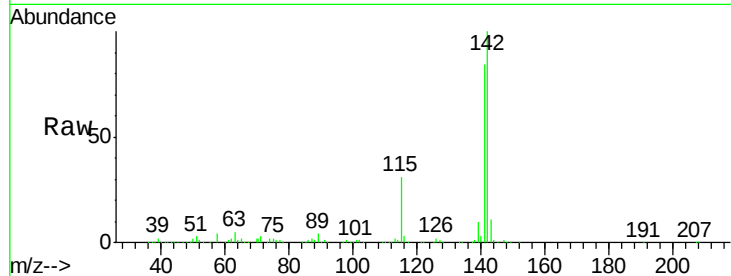




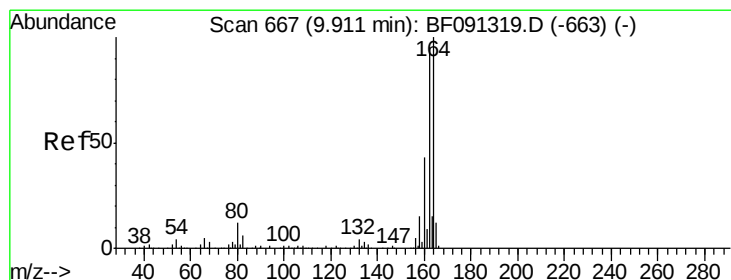
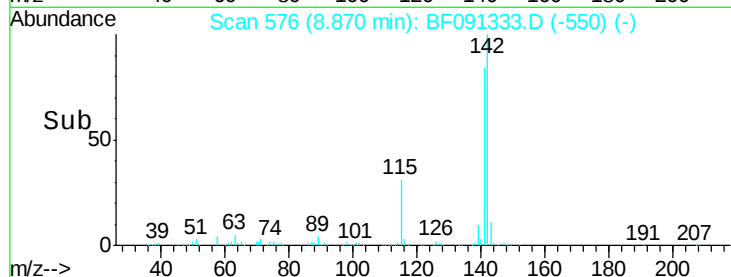
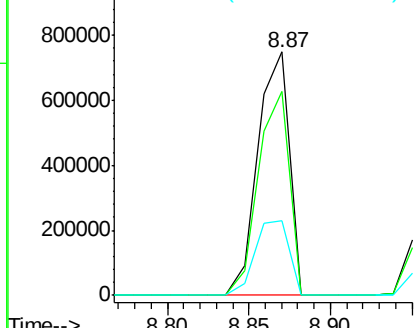
#37
 2-Methylnaphthalene
 Concen: 43.17 ng
 RT: 8.87 min Scan# 576
 Delta R.T. -0.01 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

Tgt Ion:142 Resp: 1002874
 Ion Ratio Lower Upper
 142 100
 141 83.9 71.7 107.5
 115 30.8 25.0 37.6

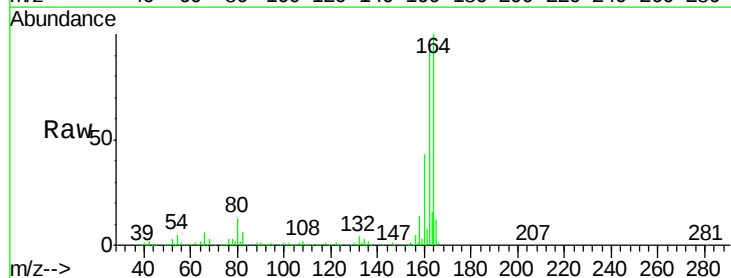


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

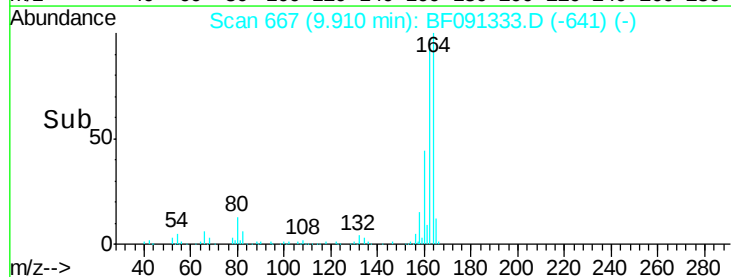
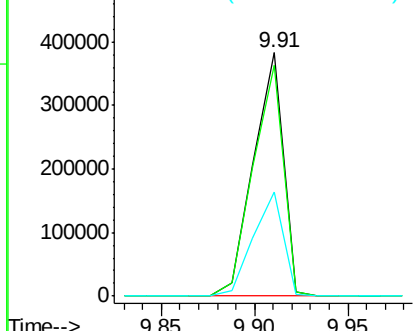


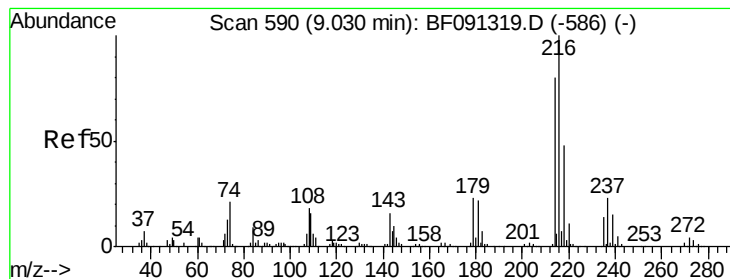
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.91 min Scan# 667
 Delta R.T. -0.01 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Tgt Ion:164 Resp: 422447
 Ion Ratio Lower Upper
 164 100
 162 94.6 82.6 124.0
 160 42.8 36.7 55.1



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: 34.44 ng

RT: 9.03 min Scan# 590

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

Tgt Ion:216 Resp: 410108

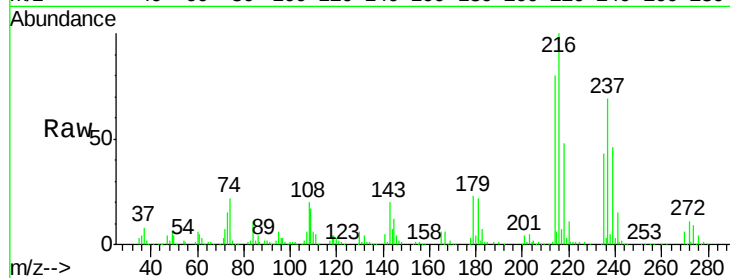
Ion Ratio Lower Upper

216 100

214 79.6 63.8 95.8

179 21.9 18.2 27.2

108 21.5 17.2 25.8

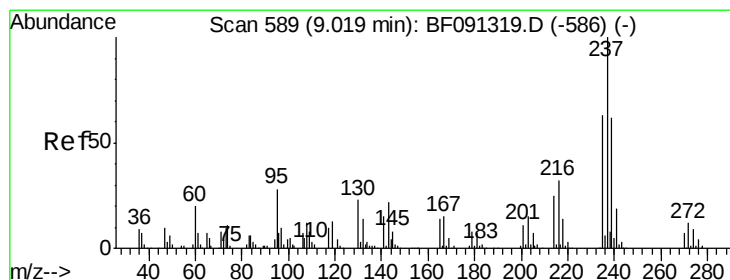
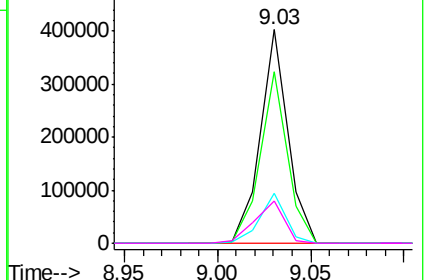
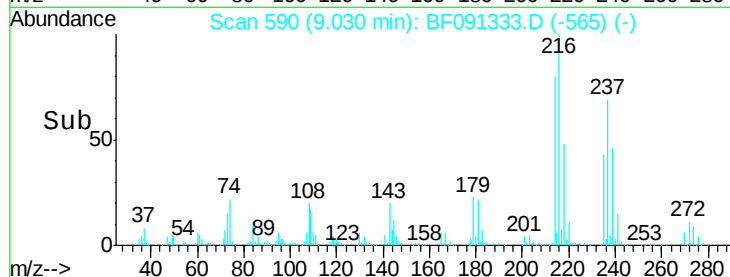


Abundance Ion 216.00 (215.70 to 216.70): E

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: 92.87 ng

RT: 9.02 min Scan# 589

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

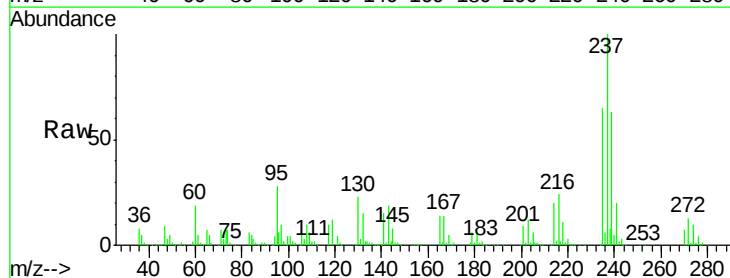
Tgt Ion:237 Resp: 512650

Ion Ratio Lower Upper

237 100

235 64.6 43.9 83.9

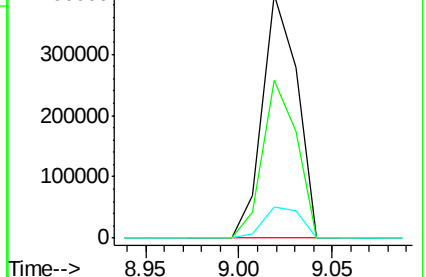
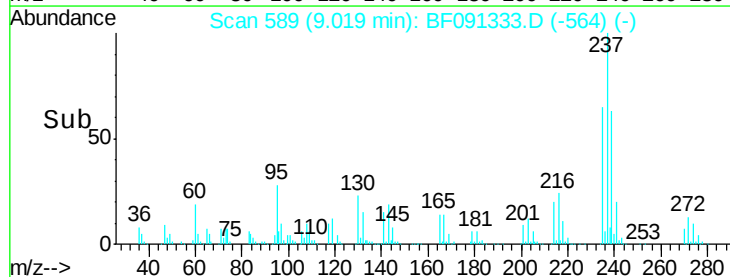
272 12.7 0.0 33.1

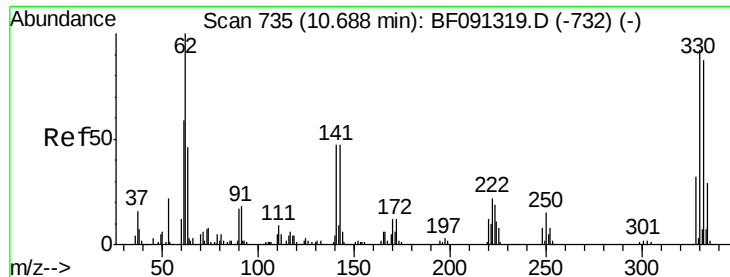


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

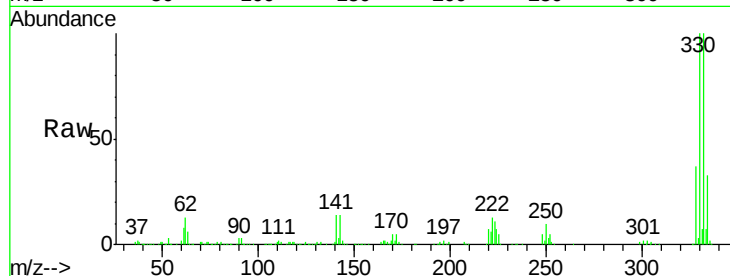




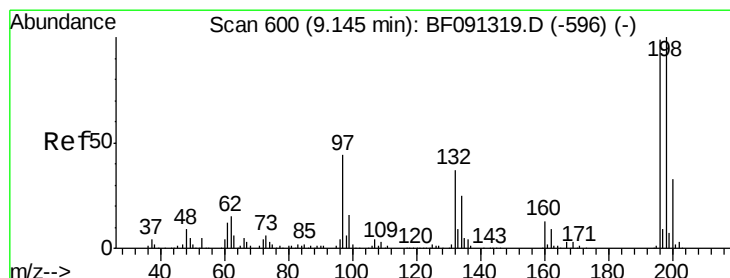
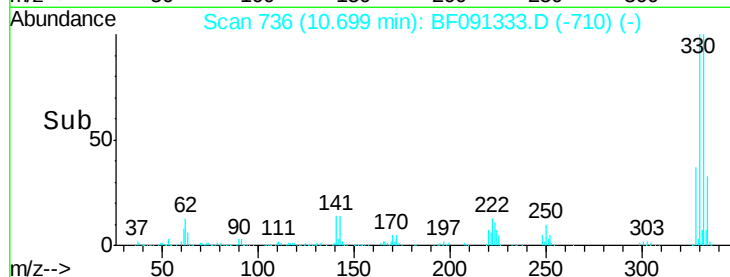
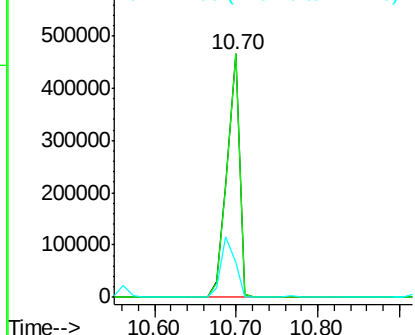
#41
 2,4,6-Tribromophenol
 Concen: 123.53 ng
 RT: 10.70 min Scan# 736
 Delta R.T. -0.01 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

Tgt Ion:330 Resp: 494044
 Ion Ratio Lower Upper
 330 100
 332 99.4 76.2 114.4
 141 28.5 33.6 50.4#

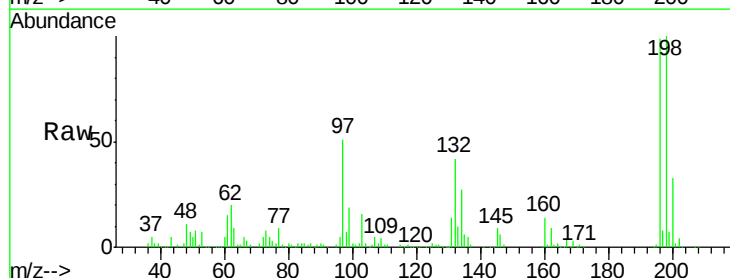


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

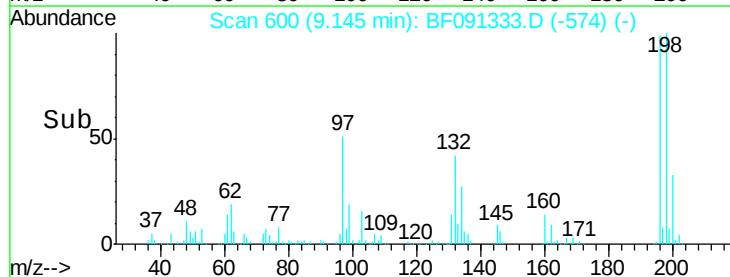
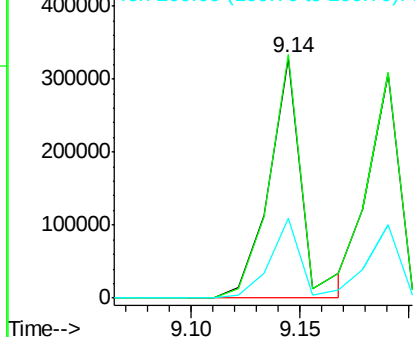


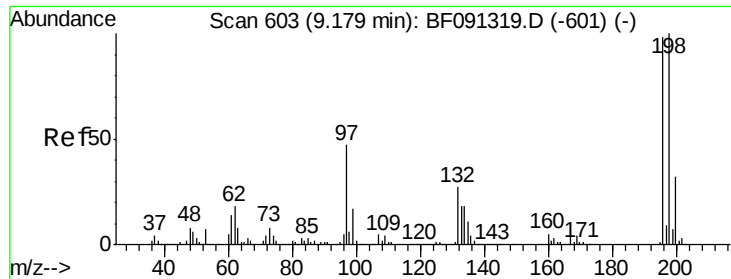
#42
 2,4,6-Trichlorophenol
 Concen: 44.49 ng
 RT: 9.14 min Scan# 600
 Delta R.T. -0.01 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Tgt Ion:196 Resp: 344338
 Ion Ratio Lower Upper
 196 100
 198 101.4 77.4 116.0
 200 33.1 25.2 37.8



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

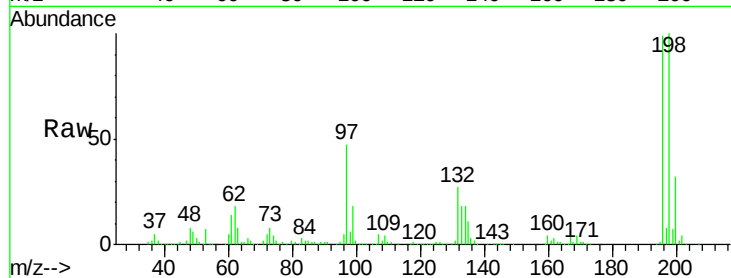




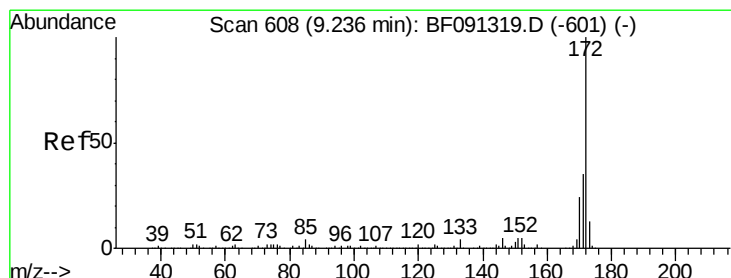
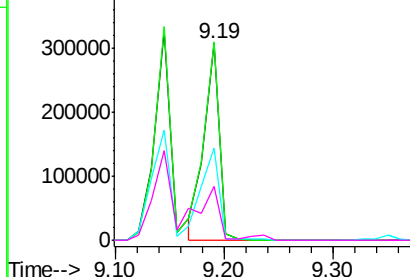
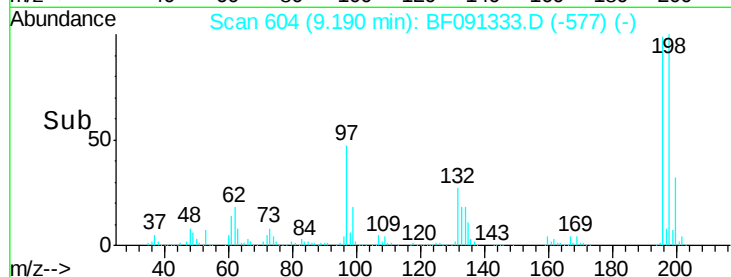
#43
 2,4,5-Trichlorophenol
 Concen: 39.23 ng
 RT: 9.19 min Scan# 604
 Delta R.T. 0.01 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

Tgt Ion:196 Resp: 304260
 Ion Ratio Lower Upper
 196 100
 198 100.6 77.0 115.6
 97 47.0 33.5 50.3
 132 27.0 20.5 30.7

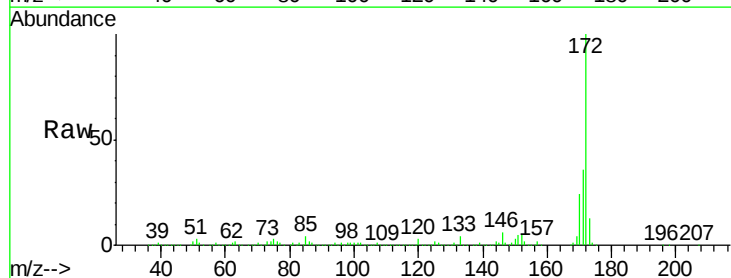


Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 97.00 (96.70 to 97.70): BF0
 Ion 132.00 (131.70 to 132.70): E

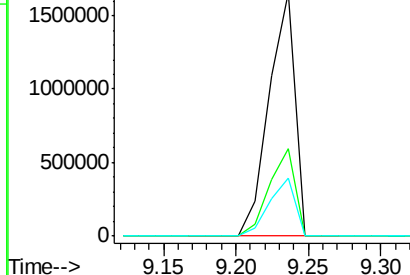
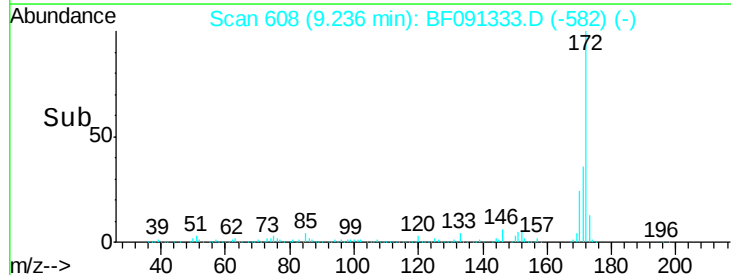


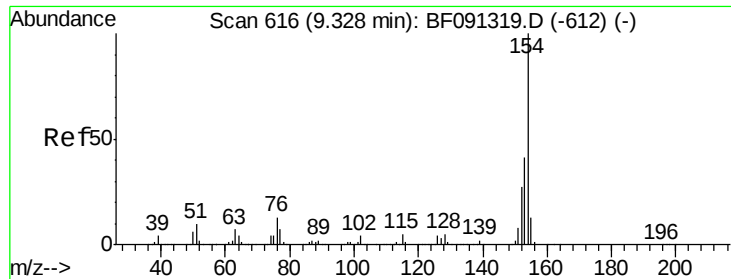
#44
 2-Fluorobiphenyl
 Concen: 87.93 ng
 RT: 9.24 min Scan# 608
 Delta R.T. -0.00 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Tgt Ion:172 Resp: 2051456
 Ion Ratio Lower Upper
 172 100
 171 36.0 29.4 44.0
 170 24.0 19.7 29.5



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: 35.95 ng

RT: 9.33 min Scan# 616

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

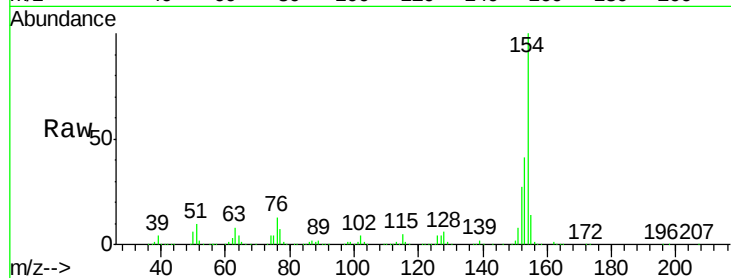
Tgt Ion:154 Resp: 1091907

Ion Ratio Lower Upper

154 100

153 40.7 20.6 60.6

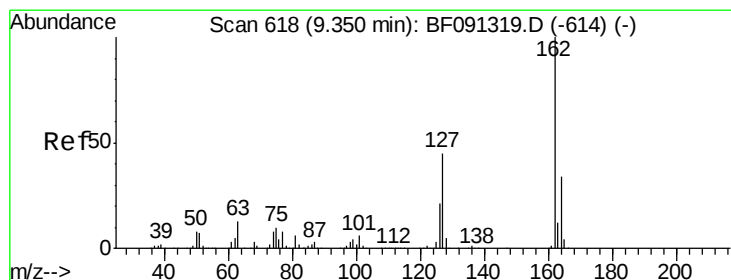
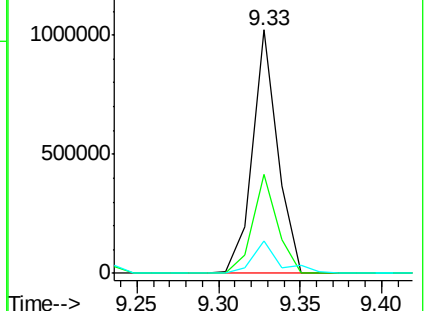
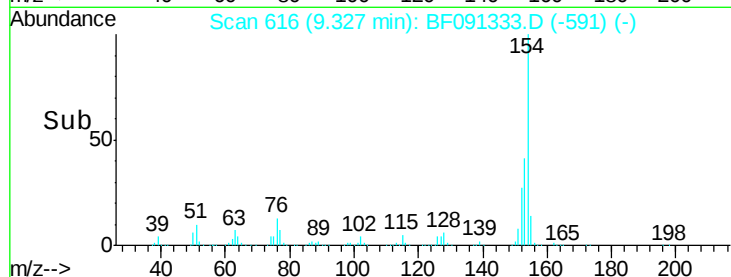
76 13.1 0.0 36.6



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: 37.45 ng

RT: 9.35 min Scan# 618

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

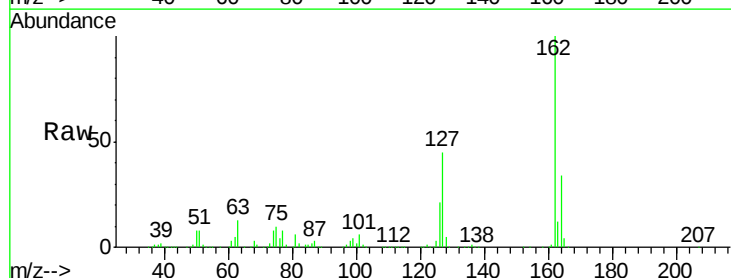
Tgt Ion:162 Resp: 847241

Ion Ratio Lower Upper

162 100

127 44.9 34.3 51.5

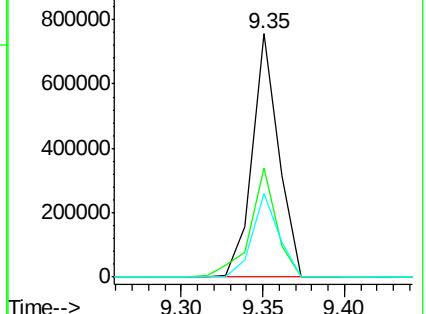
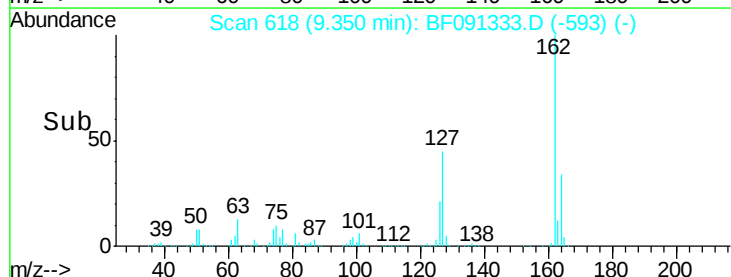
164 34.4 26.6 40.0

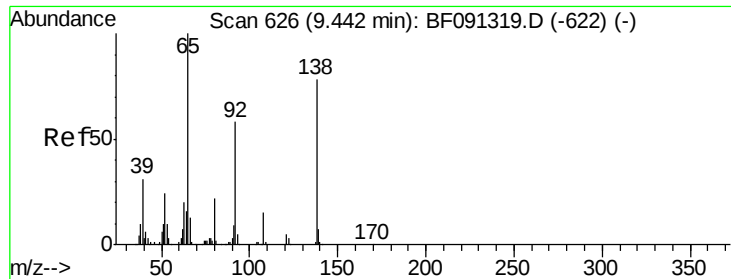


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E

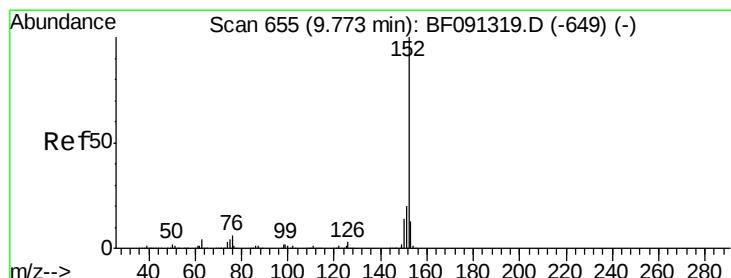
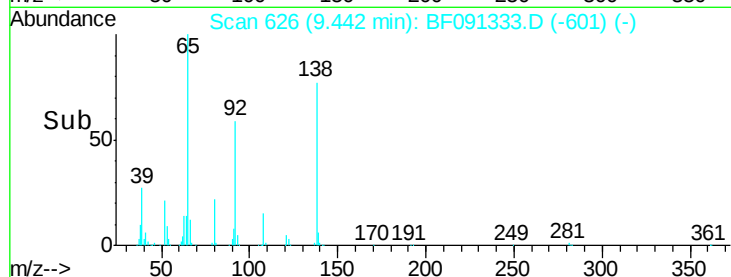
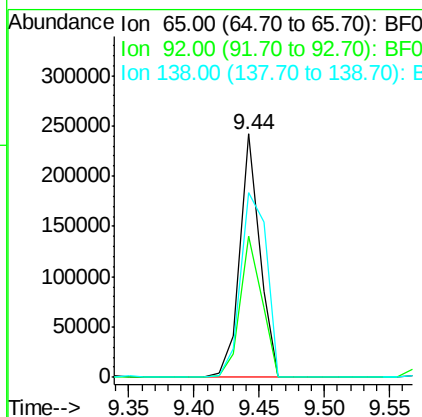
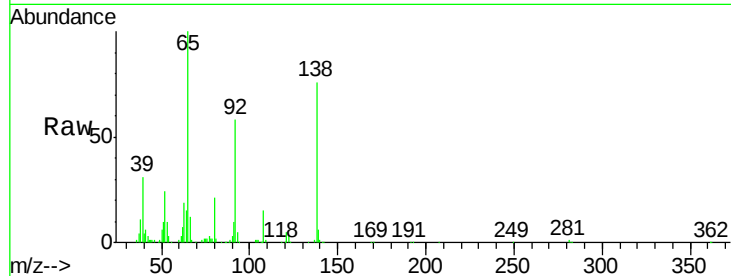




#47
 2-Nitroaniline
 Concen: 31.61 ng
 RT: 9.44 min Scan# 626
 Delta R.T. -0.02 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

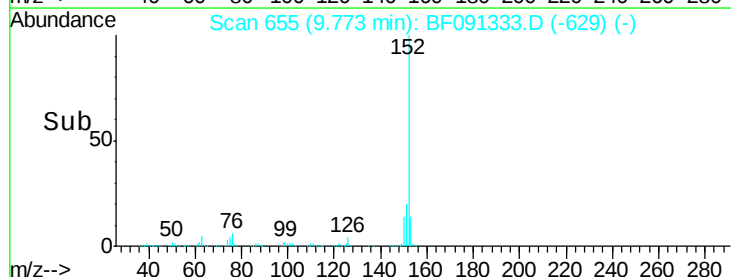
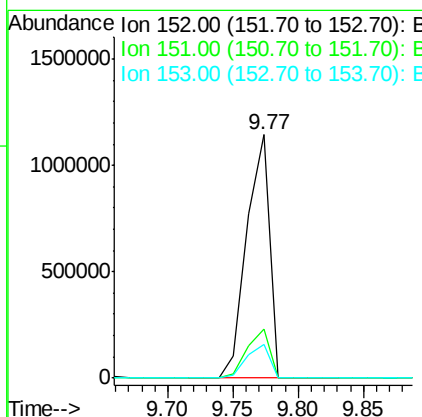
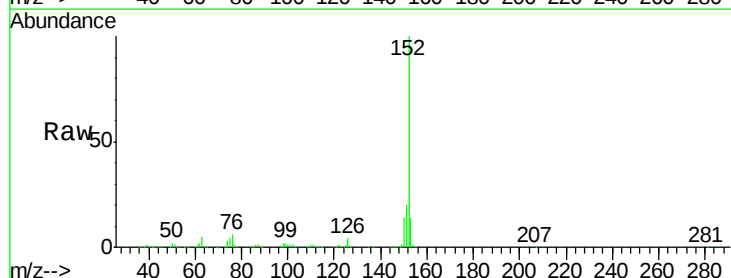
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

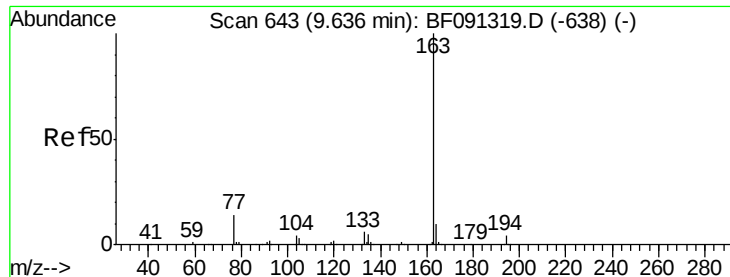
Tgt Ion: 65 Resp: 256869
 Ion Ratio Lower Upper
 65 100
 92 57.9 53.6 80.4
 138 75.8 91.0 136.6#



#48
 Acenaphthylene
 Concen: 39.12 ng
 RT: 9.77 min Scan# 655
 Delta R.T. -0.01 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Tgt Ion: 152 Resp: 1393287
 Ion Ratio Lower Upper
 152 100
 151 20.4 16.6 24.8
 153 13.6 10.7 16.1





#49

Dimethylphthalate

Concen: 43.71 ng

RT: 9.64 min Scan# 643

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

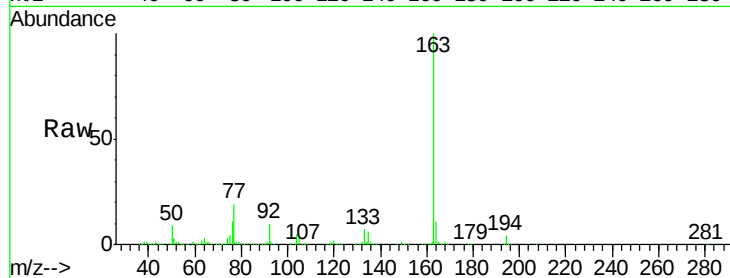
Tgt Ion:163 Resp: 1117952

Ion Ratio Lower Upper

163 100

194 3.9 3.0 4.4

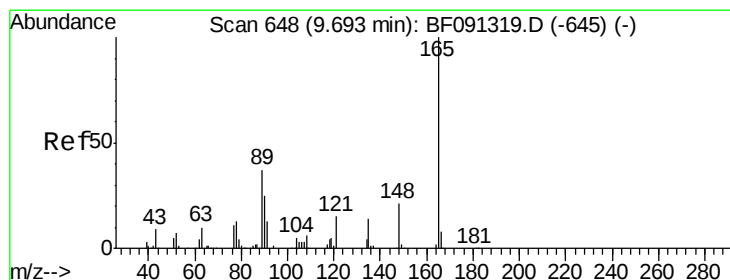
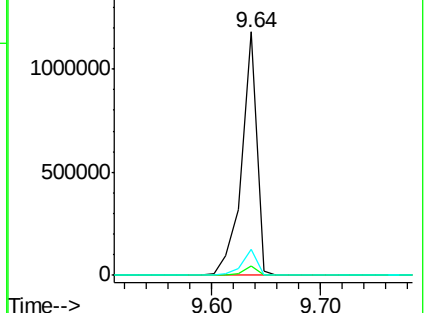
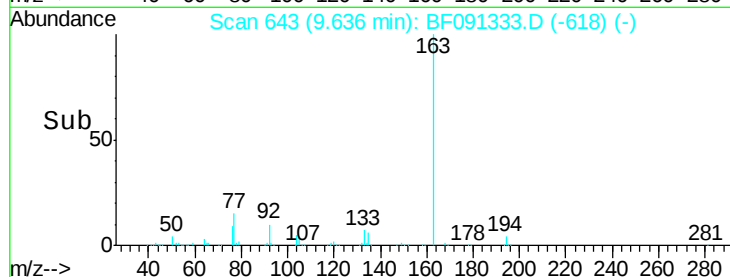
164 10.7 7.8 11.8



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 46.70 ng

RT: 9.69 min Scan# 648

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

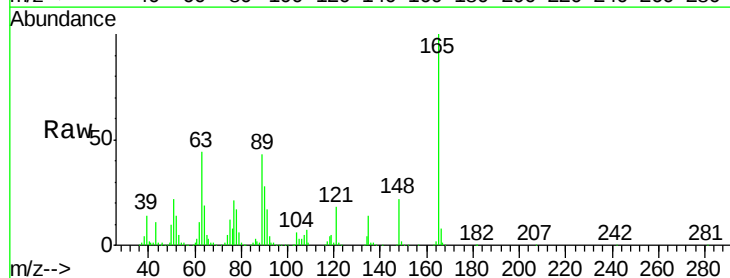
Tgt Ion:165 Resp: 267010

Ion Ratio Lower Upper

165 100

63 43.7 59.4 89.0#

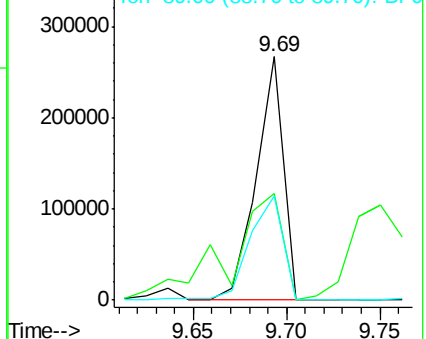
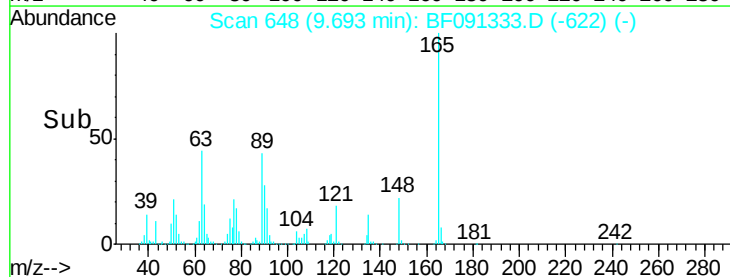
89 42.8 50.8 76.2#

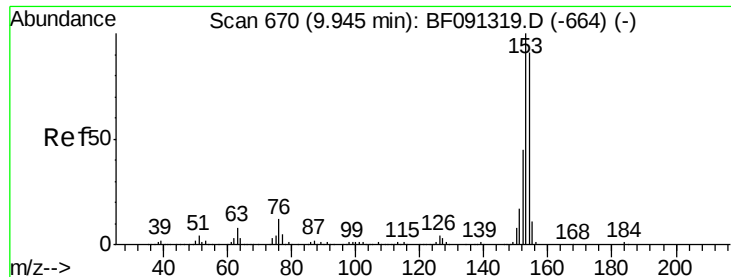


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 43.89 ng

RT: 9.94 min Scan# 670

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

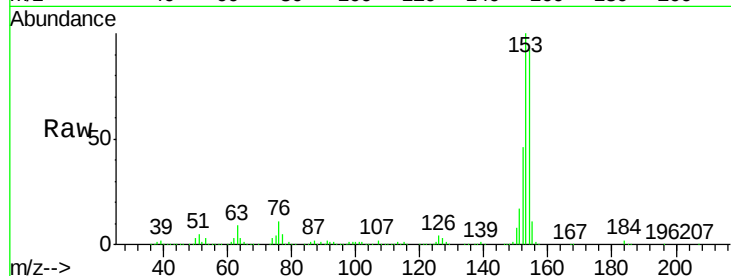
Tgt Ion:154 Resp: 1054288

Ion Ratio Lower Upper

154 100

153 108.3 91.0 136.6

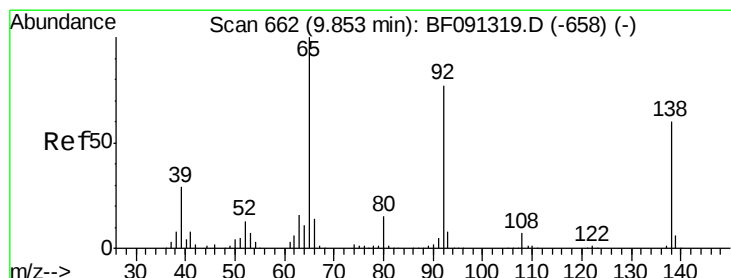
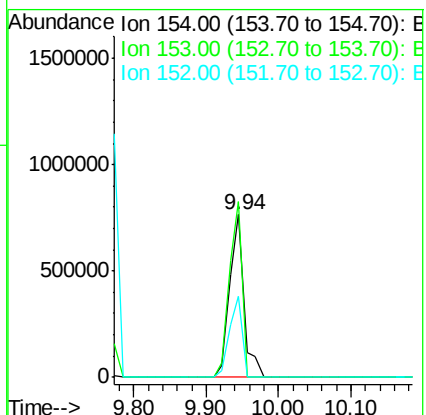
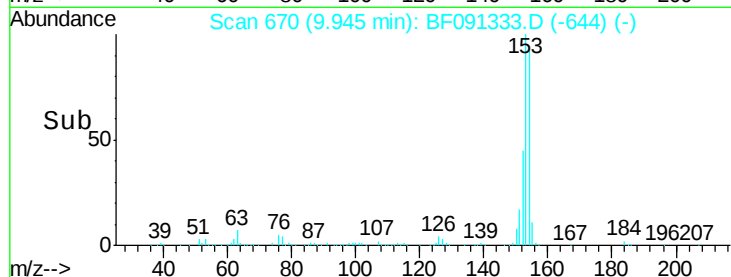
152 49.5 44.2 66.2



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: 5.73 ng

RT: 9.85 min Scan# 662

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

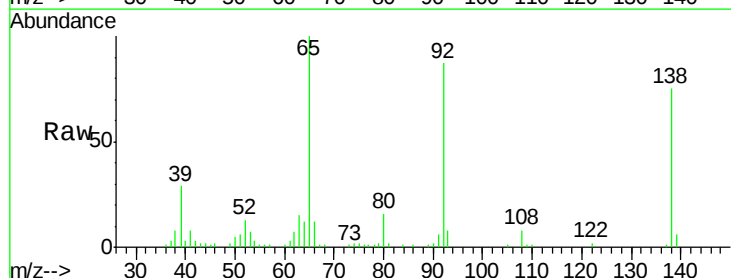
Tgt Ion:138 Resp: 37891

Ion Ratio Lower Upper

138 100

108 10.6 8.1 12.1

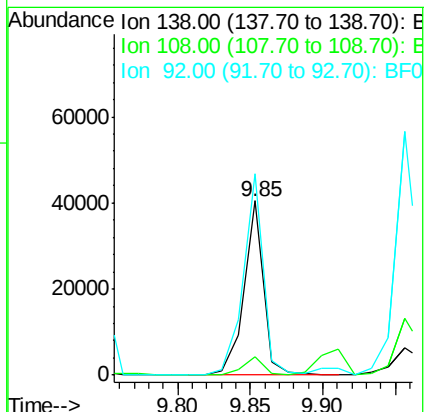
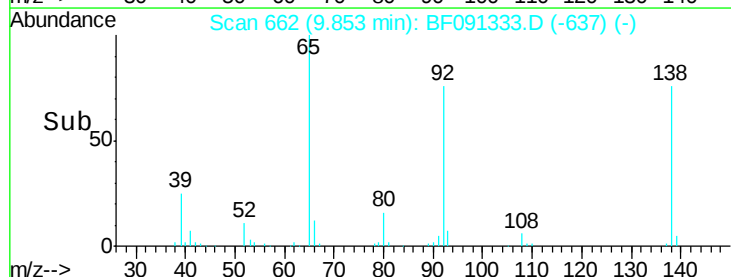
92 115.5 92.5 138.7

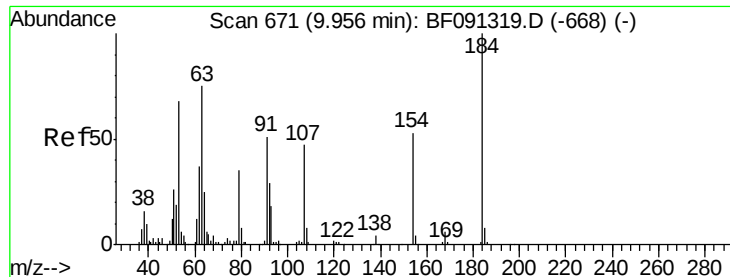


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0

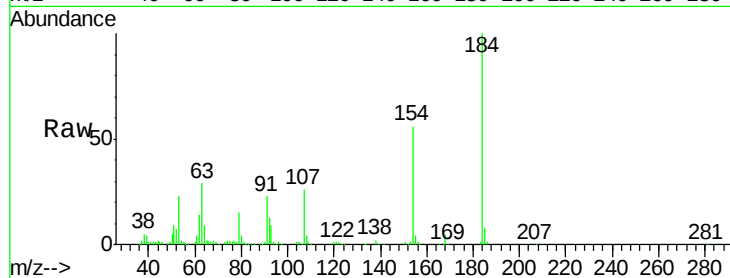




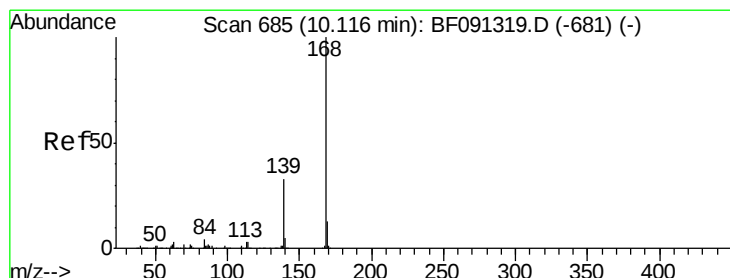
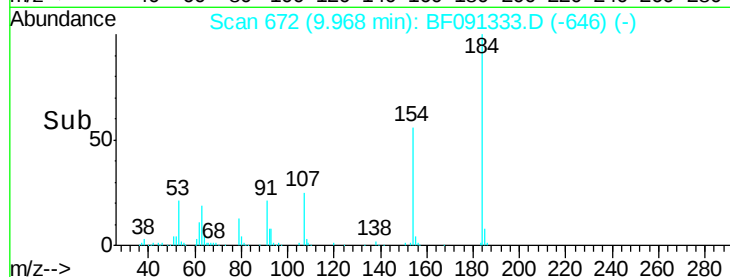
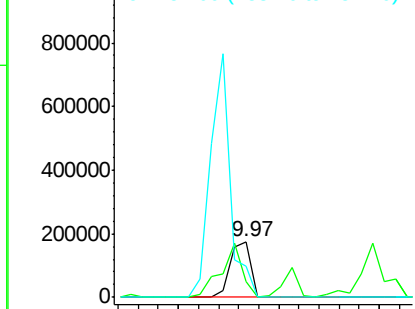
#53
 2,4-Dinitrophenol
 Concen: 99.48 ng
 RT: 9.97 min Scan# 672
 Delta R.T. -0.01 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

Tgt Ion:184 Resp: 248707
 Ion Ratio Lower Upper
 184 100
 63 28.6 58.3 87.5#
 154 55.9 48.6 73.0

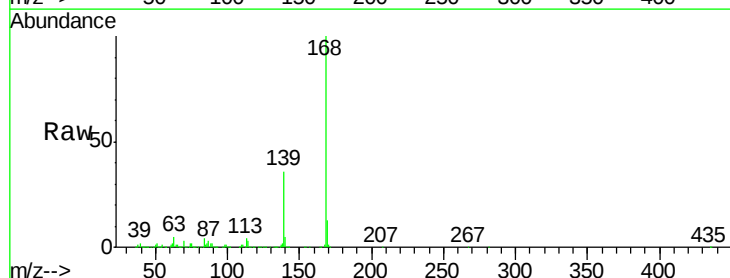


Abundance Ion 184.00 (183.70 to 184.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 154.00 (153.70 to 154.70): E

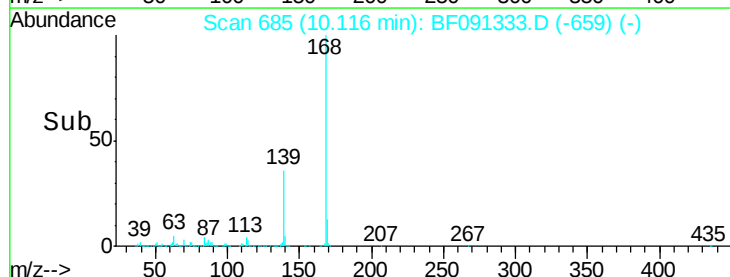
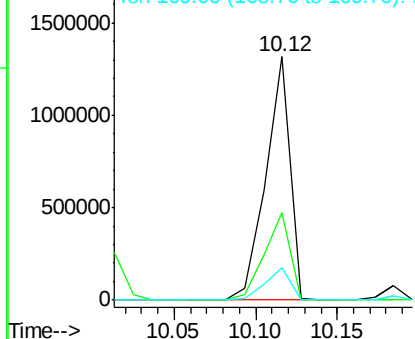


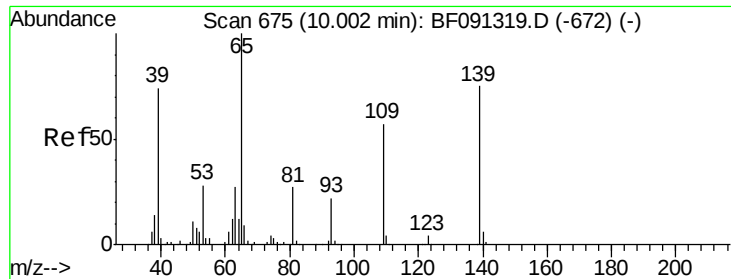
#54
 Dibenzofuran
 Concen: 42.37 ng
 RT: 10.12 min Scan# 685
 Delta R.T. -0.00 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Tgt Ion:168 Resp: 1362692
 Ion Ratio Lower Upper
 168 100
 139 36.0 33.4 50.2
 169 13.5 11.1 16.7



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

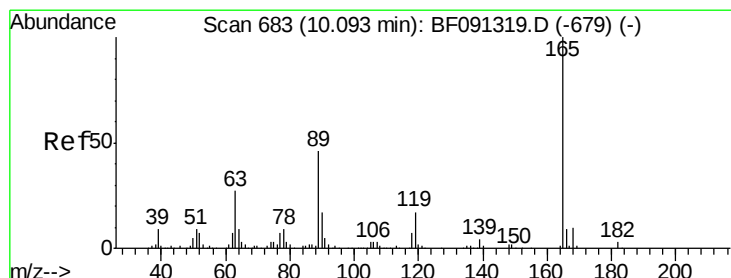
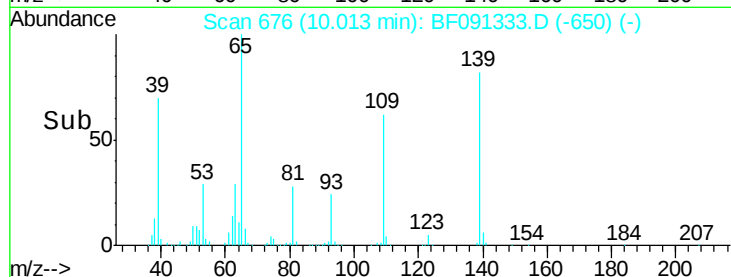
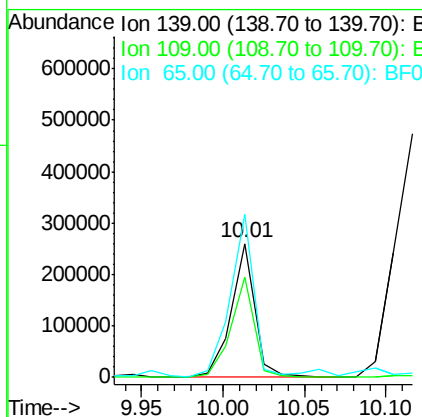
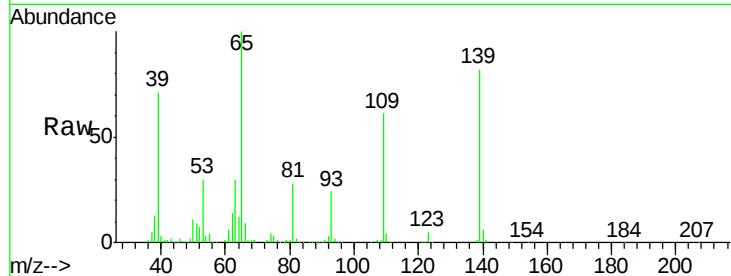




#55
4-Nitrophenol
Concen: 54.66 ng
RT: 10.01 min Scan# 676
Delta R.T. -0.01 min
Lab File: BF091333.D
Acq: 29 Nov 2016 18:09

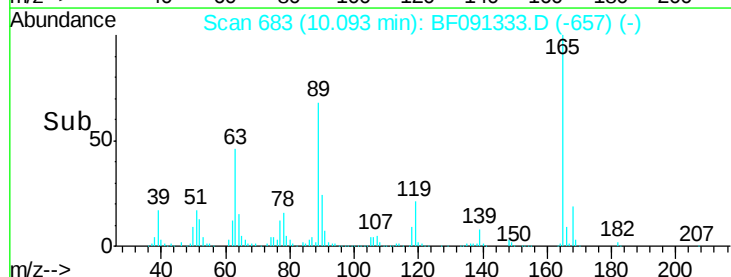
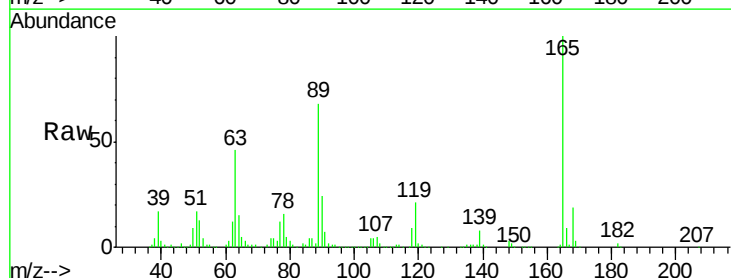
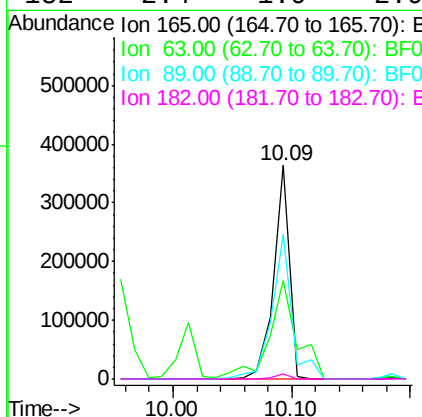
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMSD

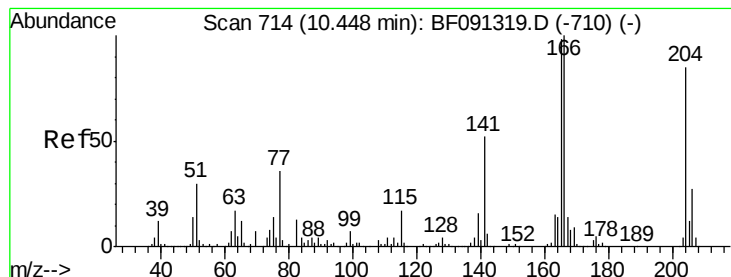
Tgt Ion:139 Resp: 261258
Ion Ratio Lower Upper
139 100
109 74.8 54.9 94.9
65 121.6 102.2 142.2



#56
2,4-Dinitrotoluene
Concen: 45.44 ng
RT: 10.09 min Scan# 683
Delta R.T. -0.01 min
Lab File: BF091333.D
Acq: 29 Nov 2016 18:09

Tgt Ion:165 Resp: 336983
Ion Ratio Lower Upper
165 100
63 46.3 29.0 43.4#
89 67.6 43.1 64.7#
182 2.4 1.9 2.9





#57

Fluorene

Concen: 40.34 ng

RT: 10.46 min Scan# 715

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

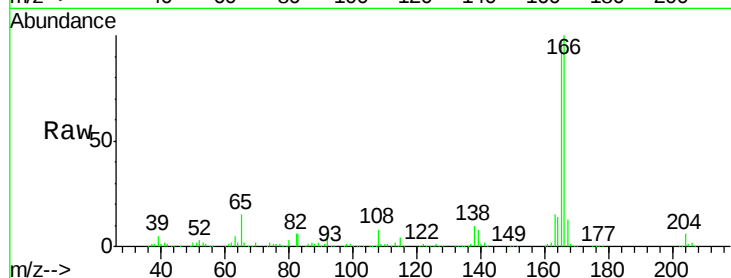
Tgt Ion:166 Resp: 996041

Ion Ratio Lower Upper

166 100

165 97.0 80.0 120.0

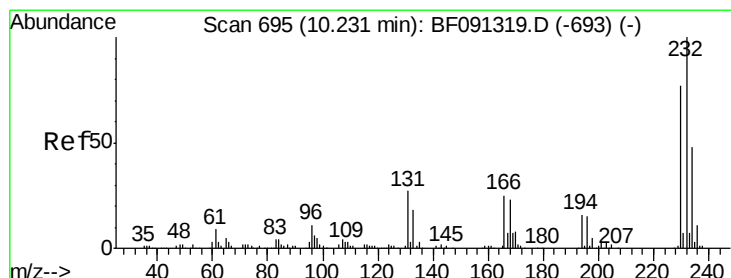
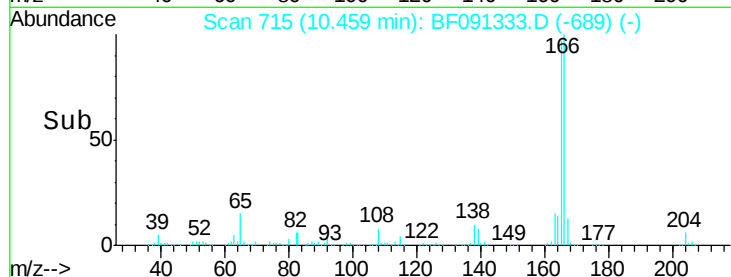
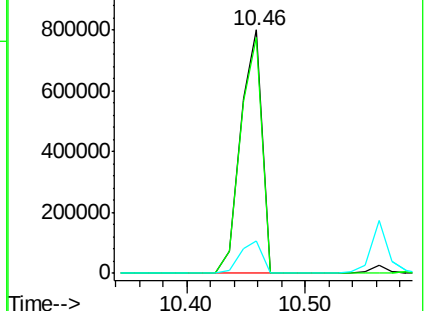
167 13.1 10.8 16.2



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: 42.62 ng

RT: 10.23 min Scan# 695

Delta R.T. -0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Tgt Ion:232 Resp: 282281

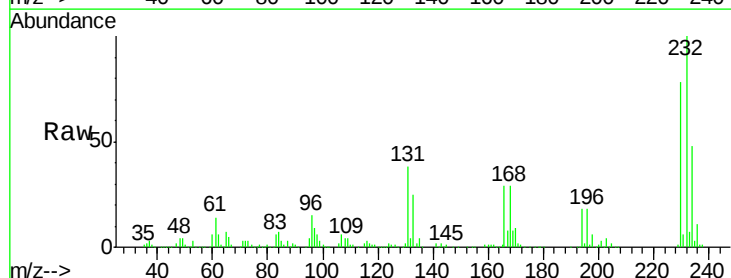
Ion Ratio Lower Upper

232 100

131 44.8 38.4 57.6

130 2.1 1.8 2.8

166 31.1 23.9 35.9

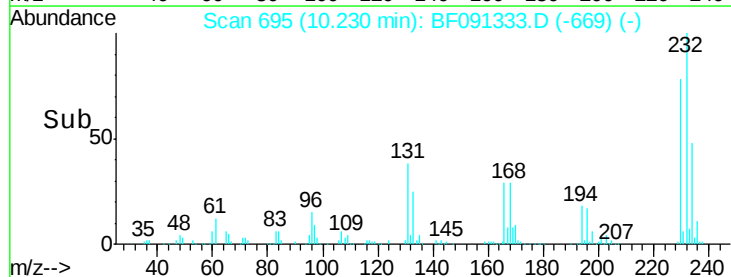
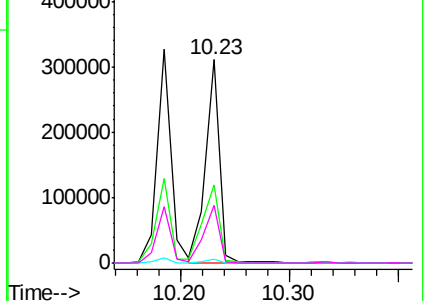


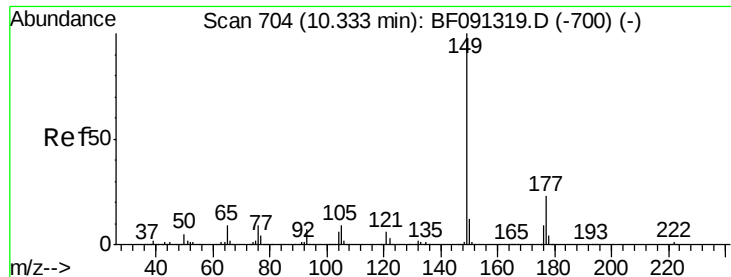
Abundance Ion 232.00 (231.70 to 232.70): E

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

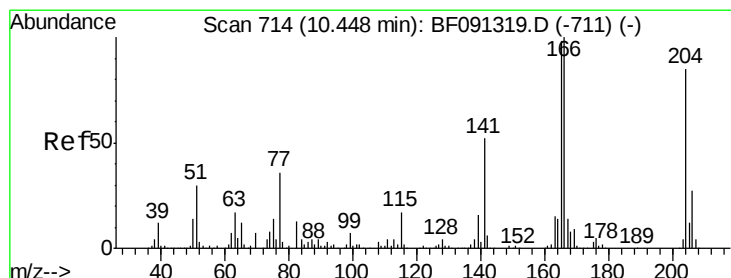
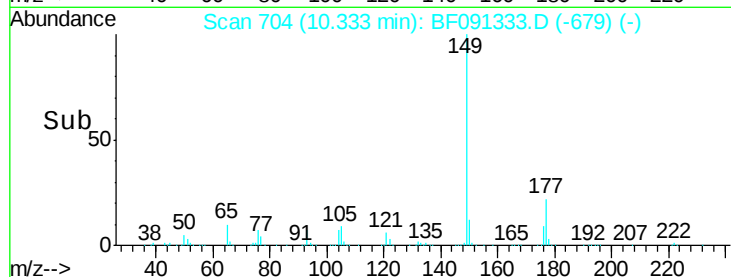
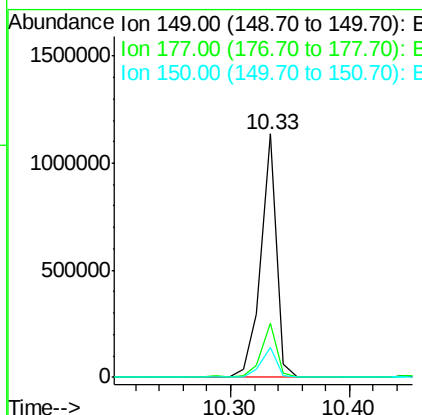
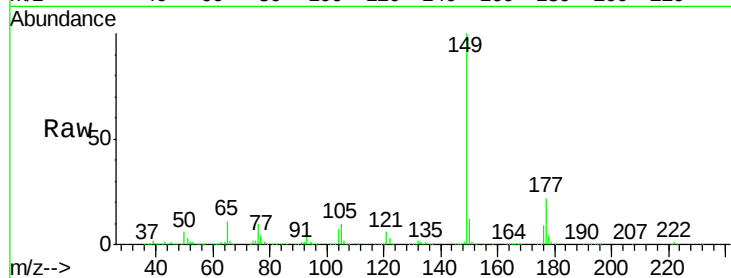




#59
Diethylphthalate
Concen: 41.81 ng
RT: 10.33 min Scan# 704
Delta R.T. -0.02 min
Lab File: BF091333.D
Acq: 29 Nov 2016 18:09

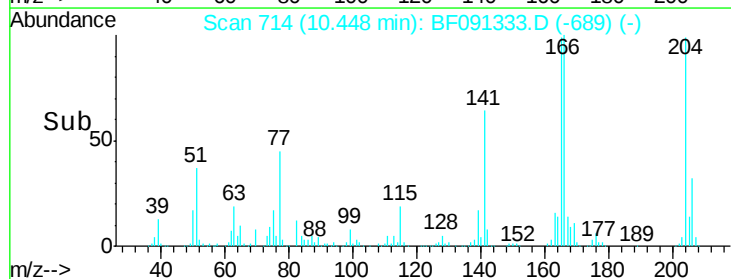
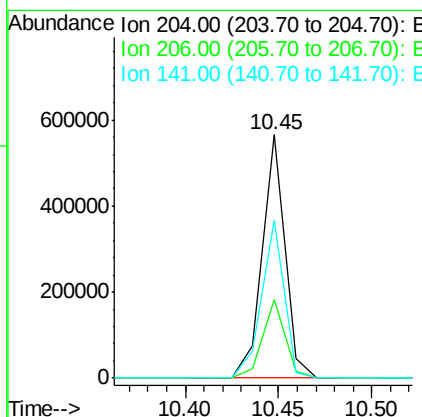
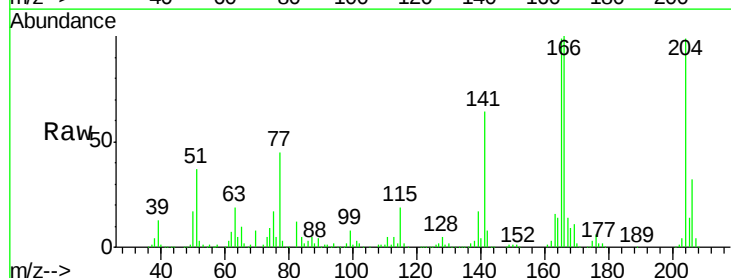
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMSD

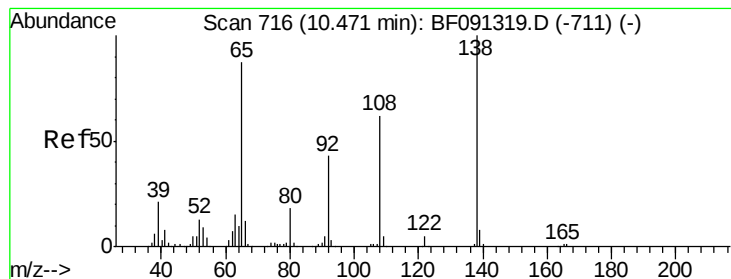
Tgt Ion:149 Resp: 1055618
Ion Ratio Lower Upper
149 100
177 22.2 15.7 23.5
150 12.4 10.2 15.2



#60
4-Chlorophenyl-phenylether
Concen: 38.01 ng
RT: 10.45 min Scan# 714
Delta R.T. -0.02 min
Lab File: BF091333.D
Acq: 29 Nov 2016 18:09

Tgt Ion:204 Resp: 470652
Ion Ratio Lower Upper
204 100
206 32.2 26.1 39.1
141 64.6 40.6 61.0#





#61

4-Nitroaniline

Concen: 14.90 ng

RT: 10.46 min Scan# 715

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

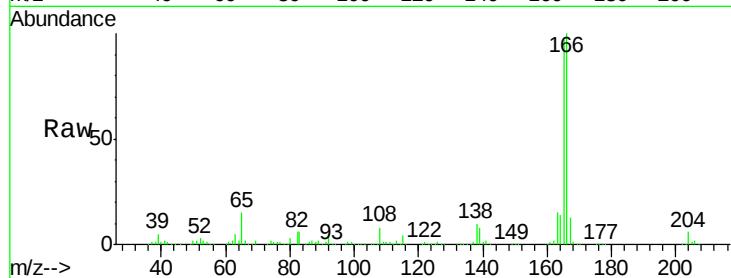
Tgt Ion:138 Resp: 92582

Ion Ratio Lower Upper

138 100

92 52.7 26.9 66.9

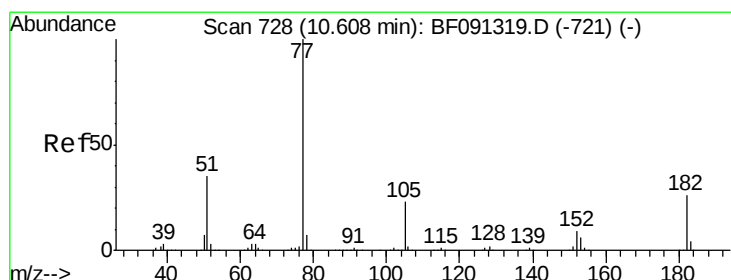
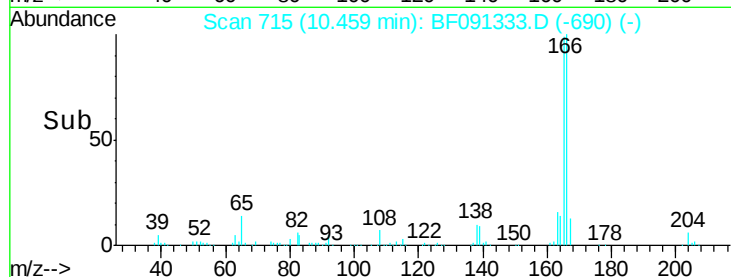
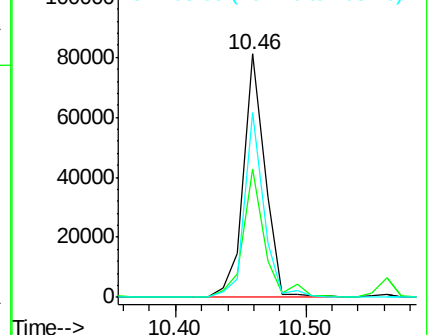
108 76.1 49.1 89.1



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BF0

Ion 108.00 (107.70 to 108.70): E



#62

Azobenzene

Concen: 42.63 ng

RT: 10.61 min Scan# 728

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Tgt Ion: 77 Resp: 1098443

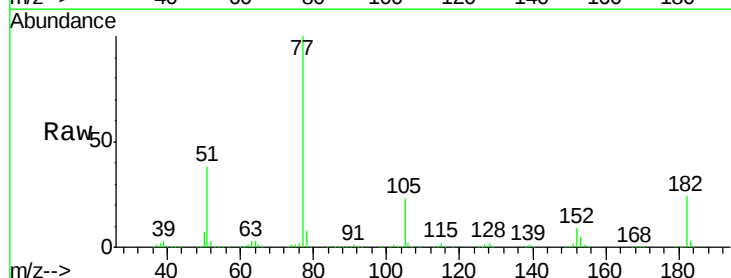
Ion Ratio Lower Upper

77 100

182 24.4 12.5 52.5

105 22.9 3.7 43.7

51 37.6 11.9 51.9

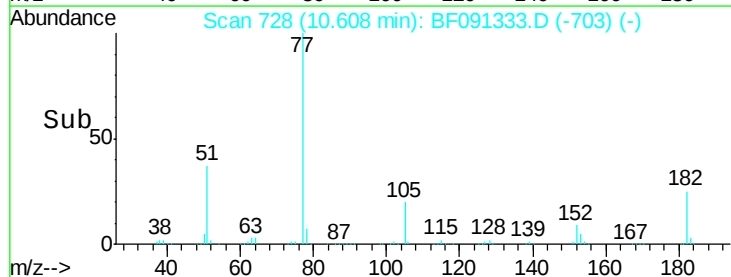
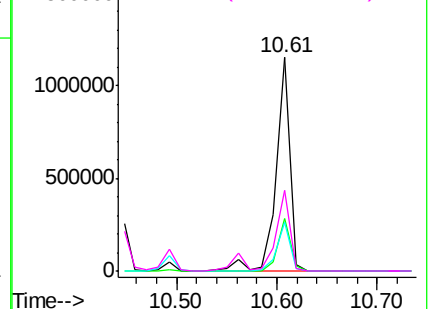


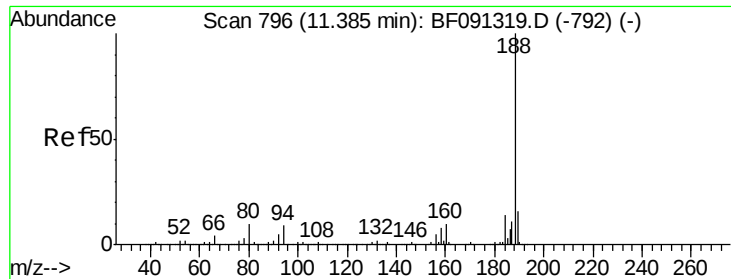
Abundance Ion 77.00 (76.70 to 77.70): BF0

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

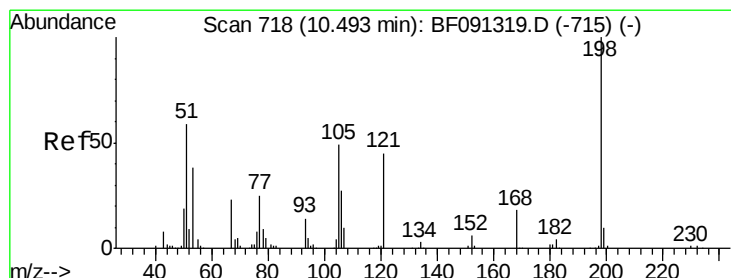
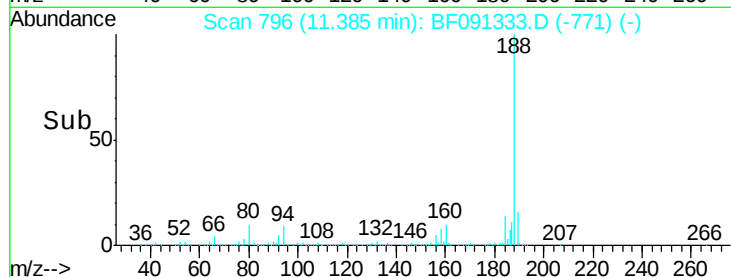
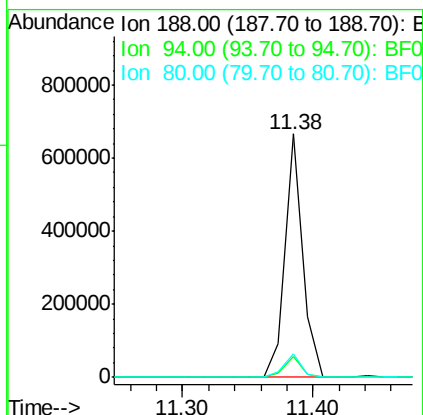
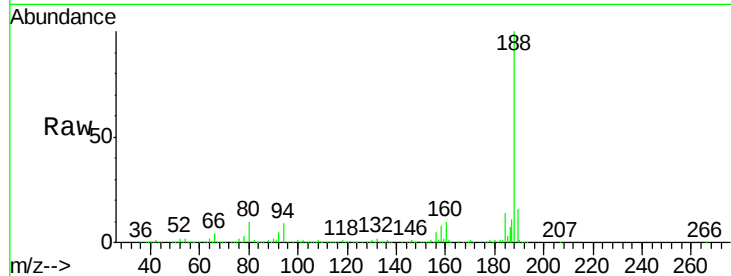




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.38 min Scan# 796
Delta R.T. -0.02 min
Lab File: BF091333.D
Acq: 29 Nov 2016 18:09

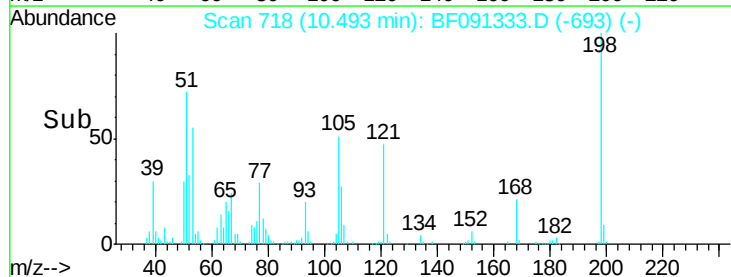
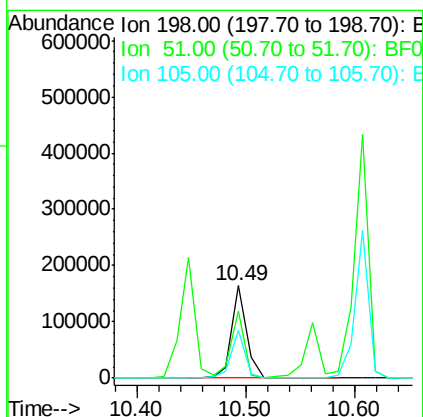
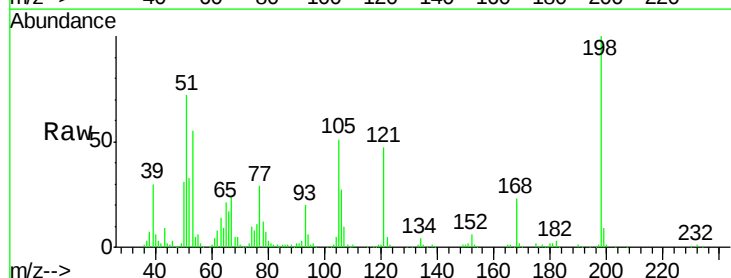
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMSD

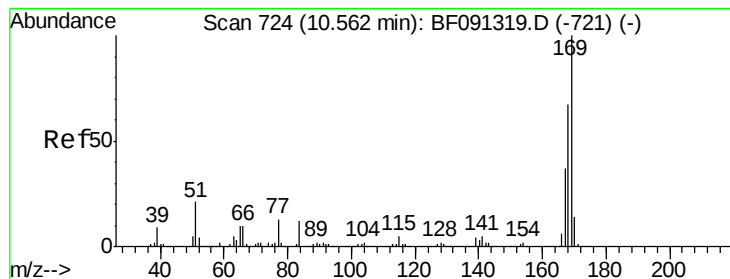
Tgt Ion:188 Resp: 638125
Ion Ratio Lower Upper
188 100
94 8.8 9.2 13.8#
80 9.6 10.5 15.7#



#64
4,6-Dinitro-2-methylphenol
Concen: 43.97 ng
RT: 10.49 min Scan# 718
Delta R.T. -0.02 min
Lab File: BF091333.D
Acq: 29 Nov 2016 18:09

Tgt Ion:198 Resp: 154566
Ion Ratio Lower Upper
198 100
51 71.8 77.1 117.1#
105 51.1 44.8 84.8





#65

n-Nitrosodiphenylamine

Concen: 23.86 ng

RT: 10.56 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

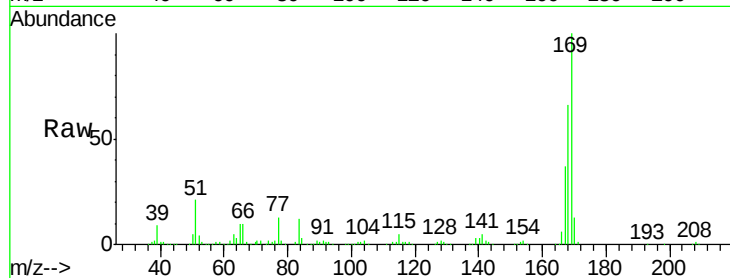
Tgt Ion:169 Resp: 461641

Ion Ratio Lower Upper

169 100

168 66.3 53.8 80.8

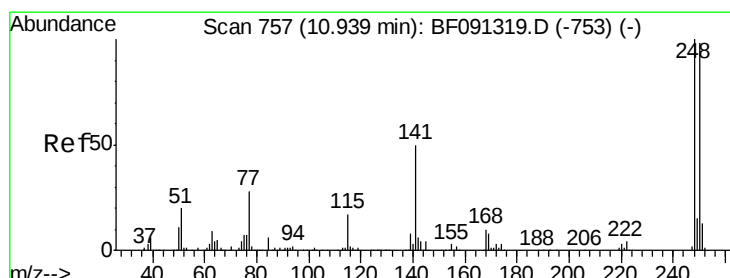
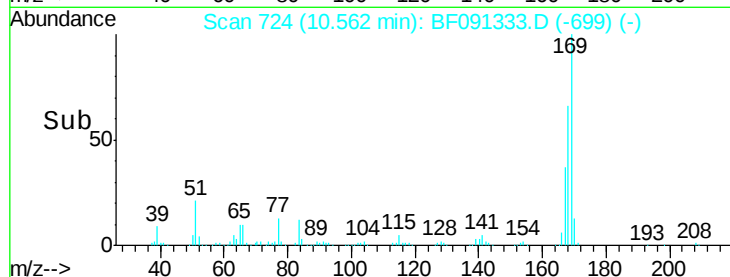
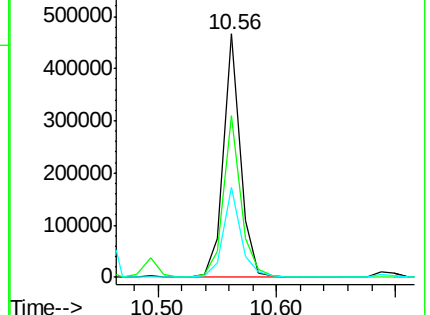
167 37.0 29.8 44.8



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: 49.29 ng

RT: 10.94 min Scan# 757

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

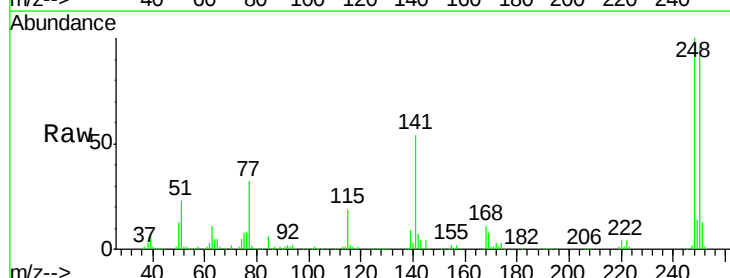
Tgt Ion:248 Resp: 338064

Ion Ratio Lower Upper

248 100

250 95.8 78.2 117.4

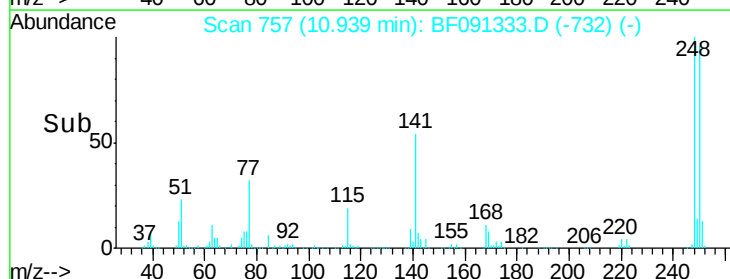
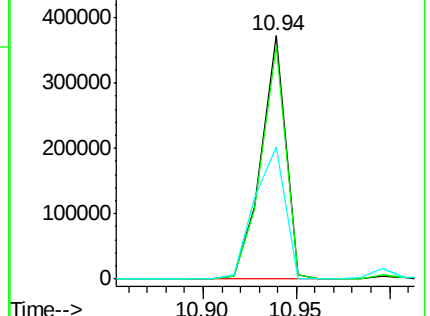
141 54.5 71.9 107.9#

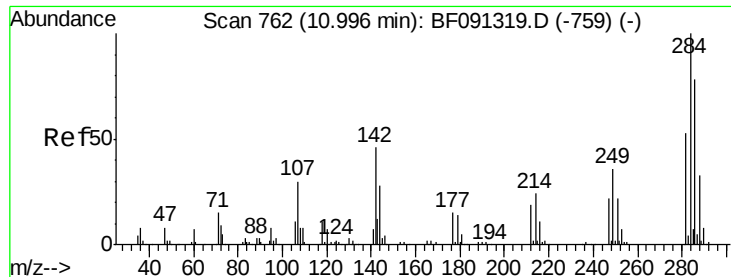


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

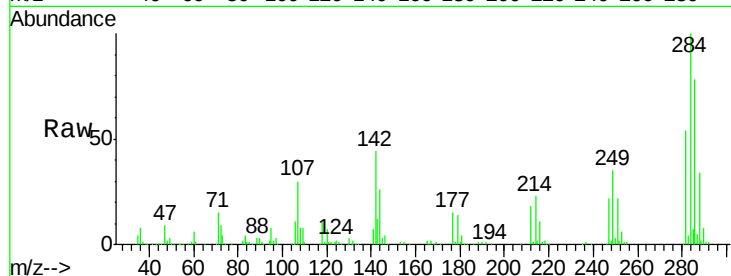




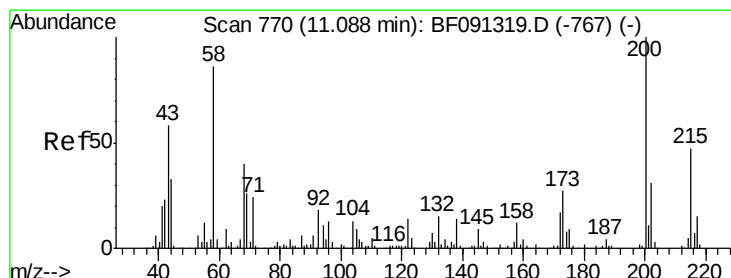
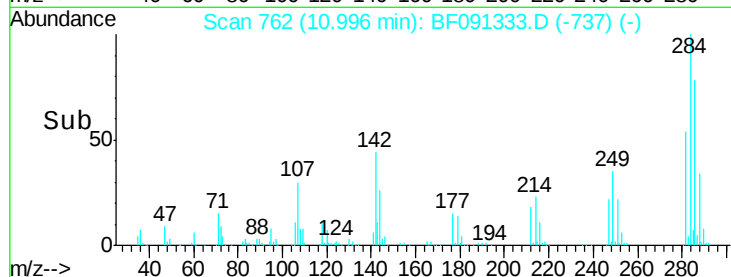
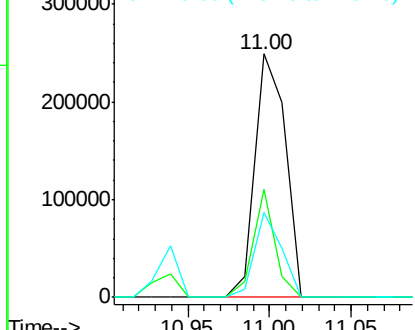
#67
Hexachlorobenzene
Concen: 43.54 ng
RT: 11.00 min Scan# 762
Delta R.T. -0.02 min
Lab File: BF091333.D
Acq: 29 Nov 2016 18:09

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMSD

Tgt Ion: 284 Resp: 322720
Ion Ratio Lower Upper
284 100
142 44.4 17.9 26.9#
249 34.7 23.6 35.4

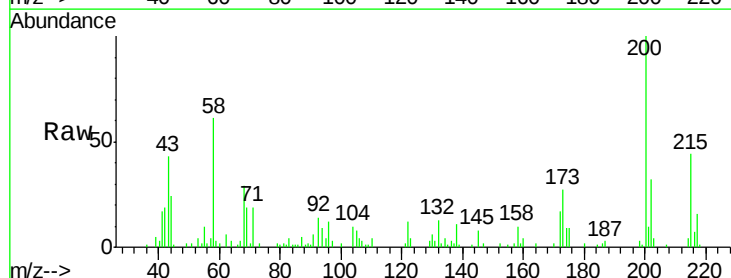


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

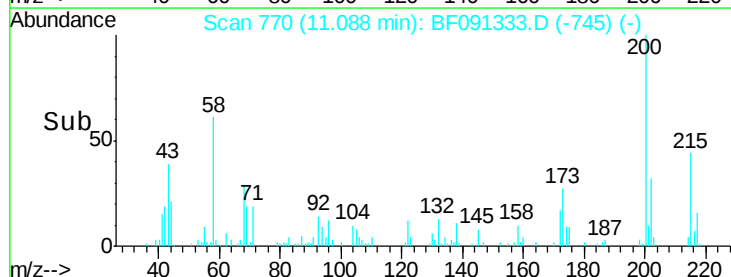
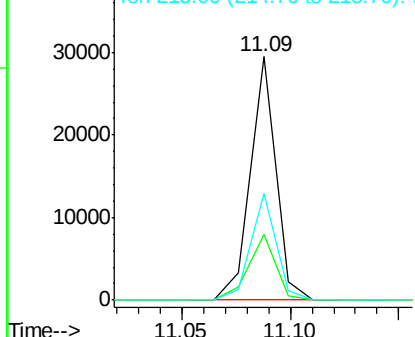


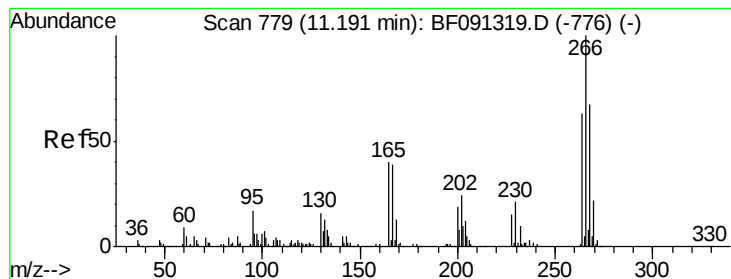
#68
Atrazine
Concen: 3.83 ng
RT: 11.09 min Scan# 770
Delta R.T. -0.02 min
Lab File: BF091333.D
Acq: 29 Nov 2016 18:09

Tgt Ion: 200 Resp: 24006
Ion Ratio Lower Upper
200 100
173 26.8 7.8 47.8
215 44.0 24.3 64.3



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: 80.63 ng

RT: 11.19 min Scan# 779

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

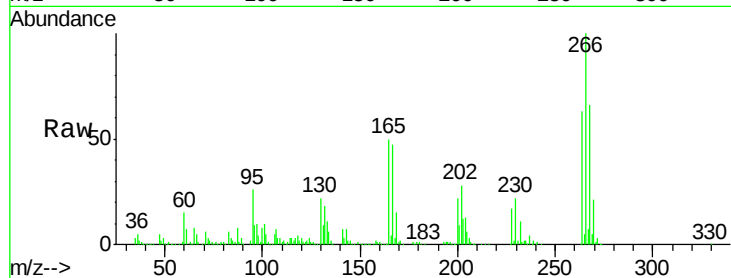
Tgt Ion:266 Resp: 351791

Ion Ratio Lower Upper

266 100

268 65.5 50.3 75.5

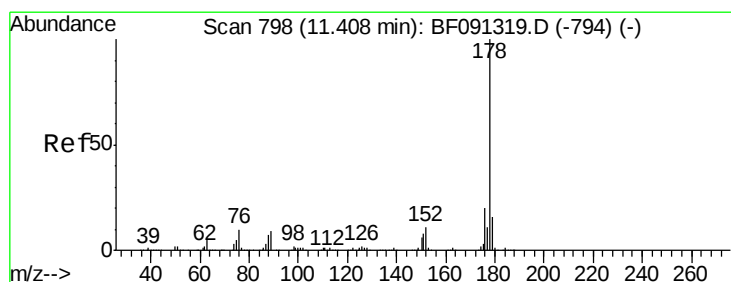
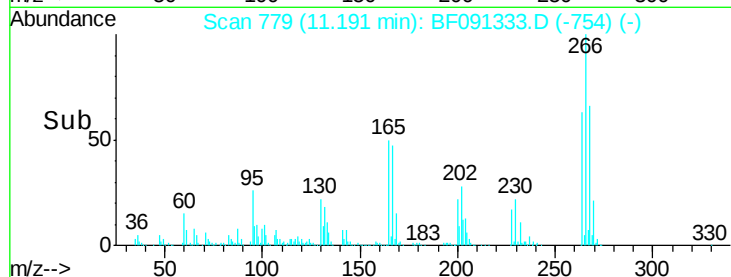
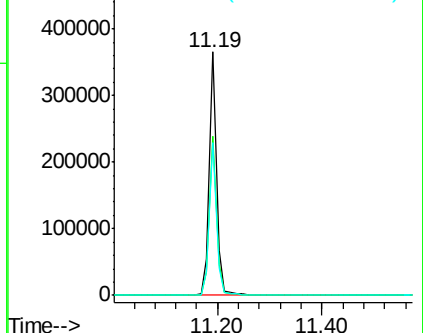
264 62.9 48.2 72.2



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: 42.00 ng

RT: 11.41 min Scan# 798

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

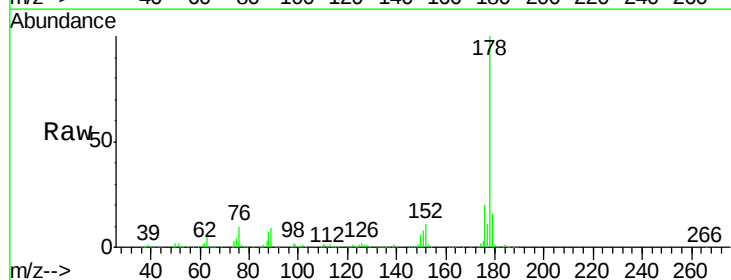
Tgt Ion:178 Resp: 1392681

Ion Ratio Lower Upper

178 100

176 19.7 15.9 23.9

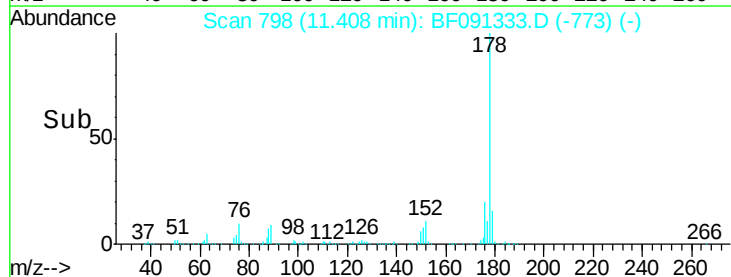
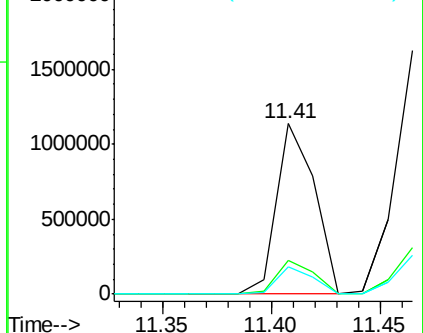
179 15.9 12.6 18.8

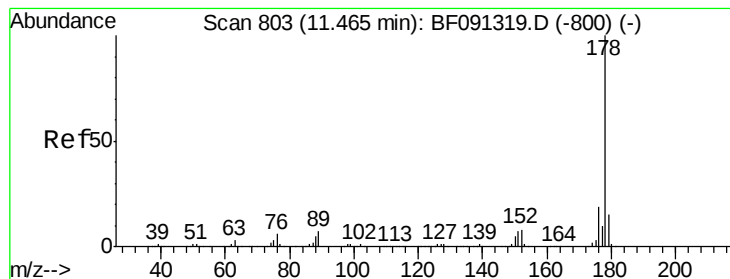


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 45.58 ng

RT: 11.46 min Scan# 803

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

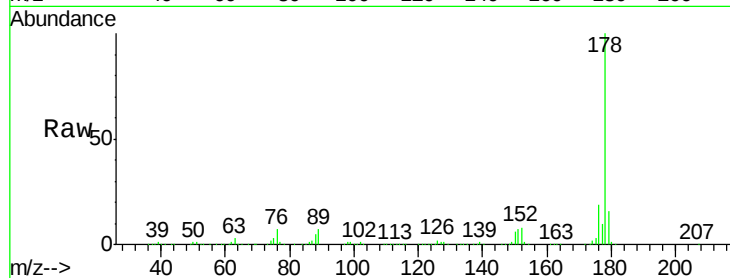
Tgt Ion:178 Resp: 1500008

Ion Ratio Lower Upper

178 100

176 19.0 15.8 23.6

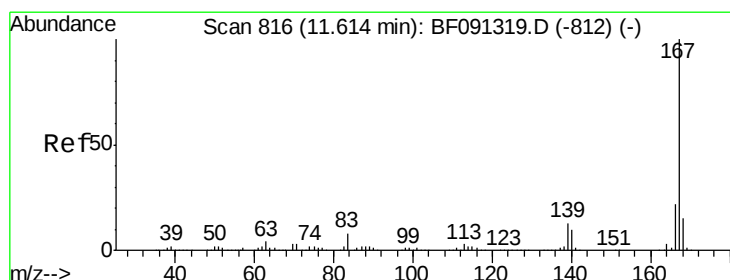
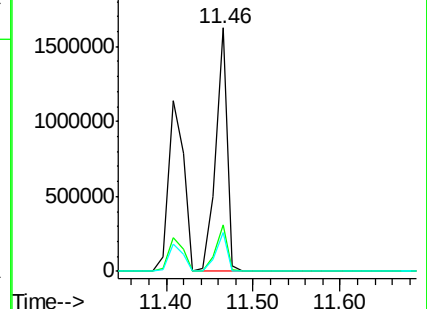
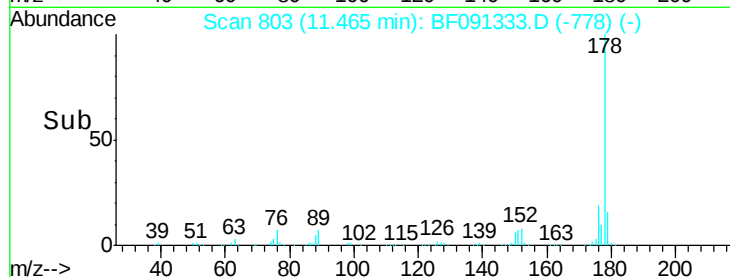
179 15.8 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 19.06 ng

RT: 11.61 min Scan# 816

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

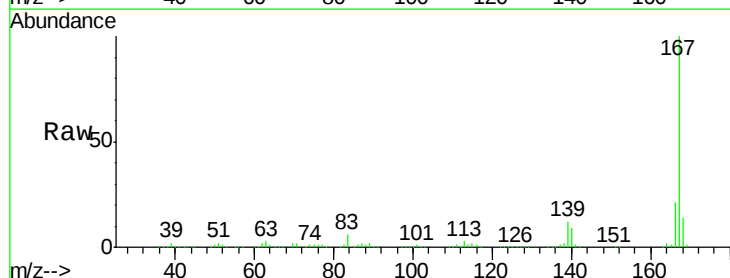
Tgt Ion:167 Resp: 569036

Ion Ratio Lower Upper

167 100

166 21.5 18.1 27.1

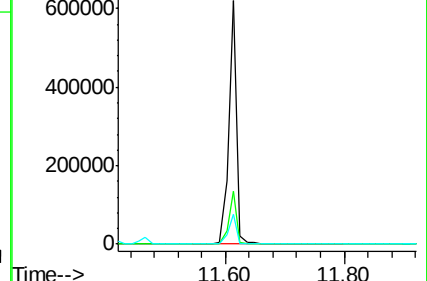
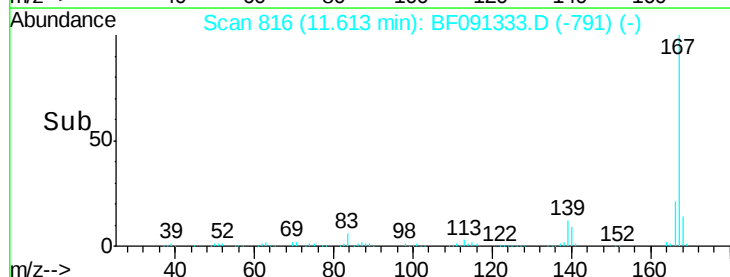
139 12.2 11.5 17.3

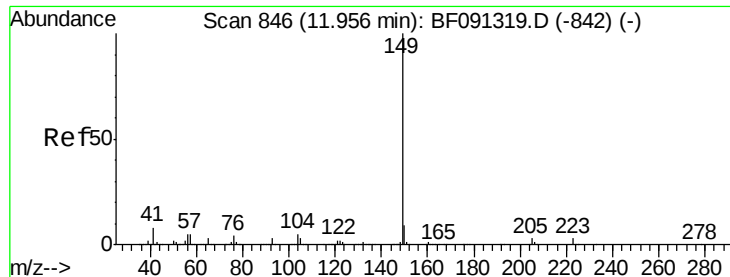


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#73

Di-n-butylphthalate

Concen: 45.32 ng

RT: 11.96 min Scan# 846

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

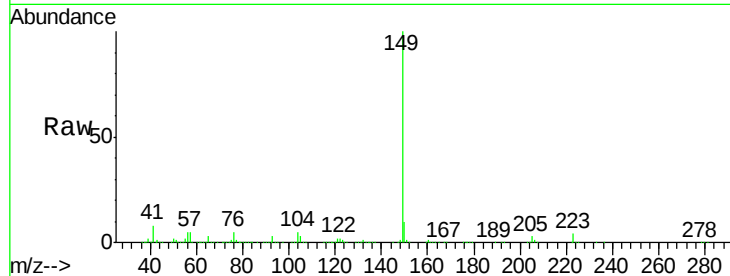
Tgt Ion:149 Resp: 1533917

Ion Ratio Lower Upper

149 100

150 9.6 7.5 11.3

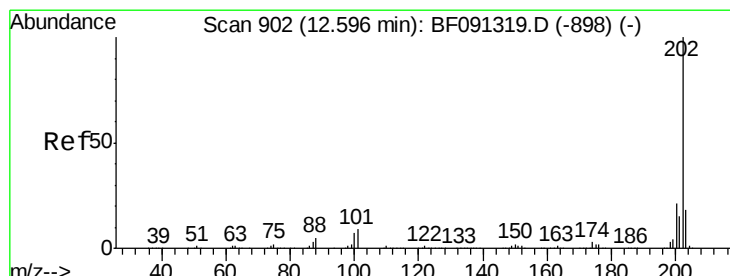
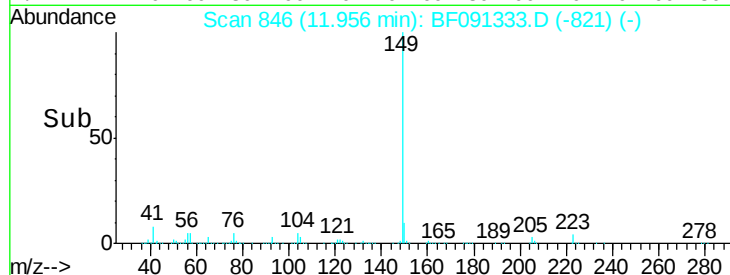
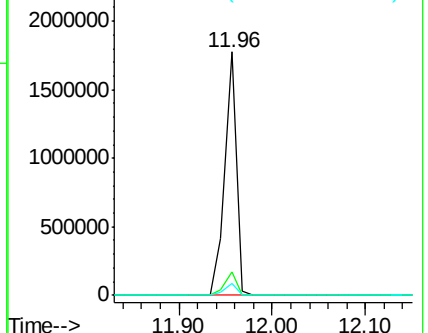
104 5.0 4.0 6.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 44.39 ng

RT: 12.60 min Scan# 902

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

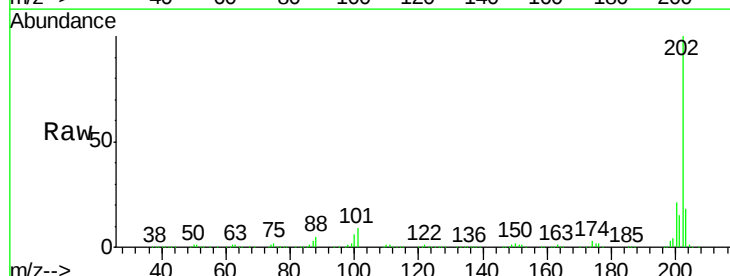
Tgt Ion:202 Resp: 1394228

Ion Ratio Lower Upper

202 100

101 8.8 0.0 29.5

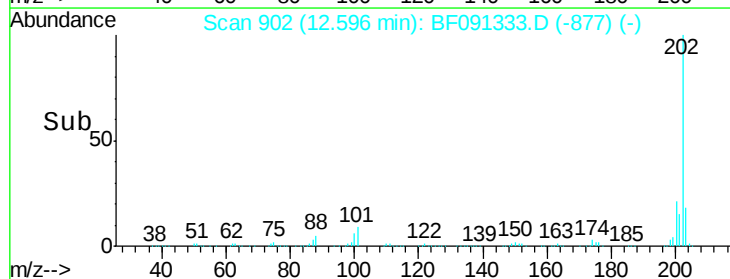
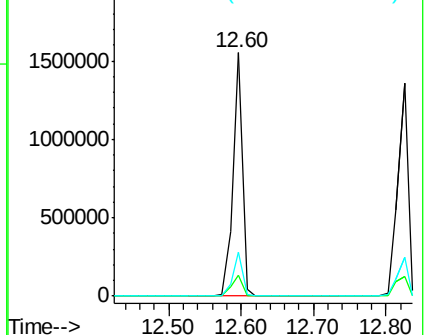
203 18.0 0.0 37.8

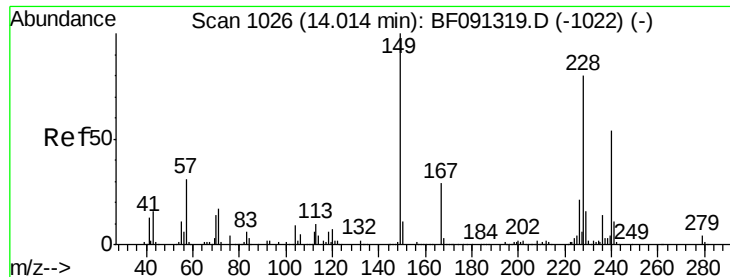


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.01 min Scan# 1026

Delta R.T. -0.03 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

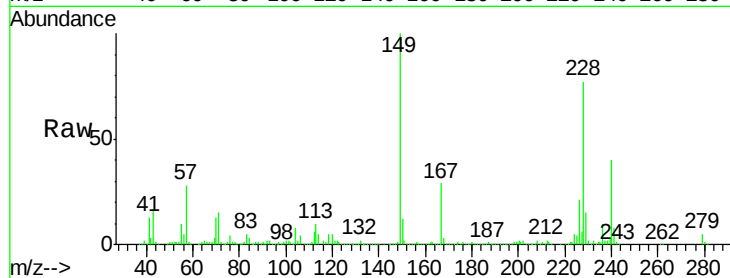
Tgt Ion:240 Resp: 367467

Ion Ratio Lower Upper

240 100

120 13.8 12.1 18.1

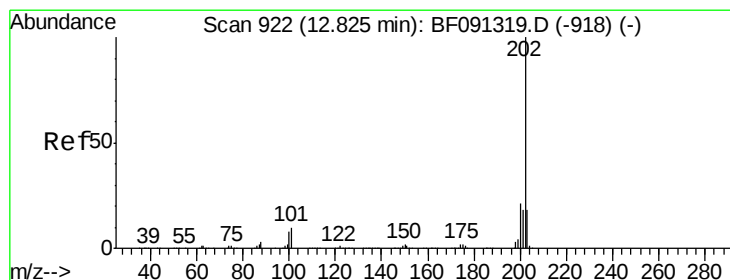
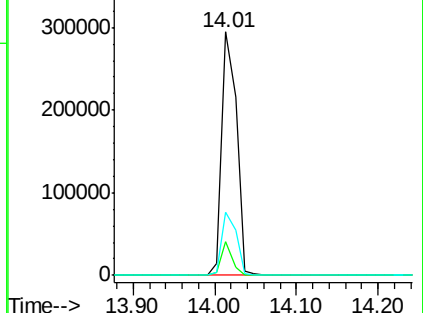
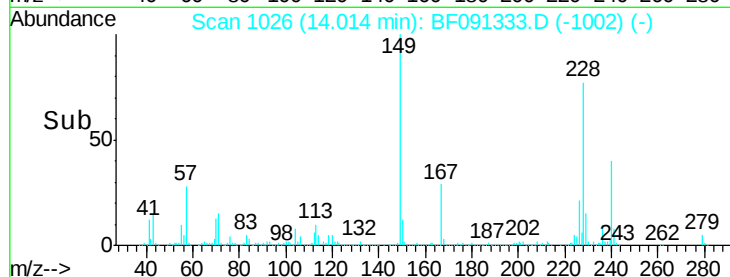
236 25.7 21.0 31.6



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 48.49 ng

RT: 12.82 min Scan# 922

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

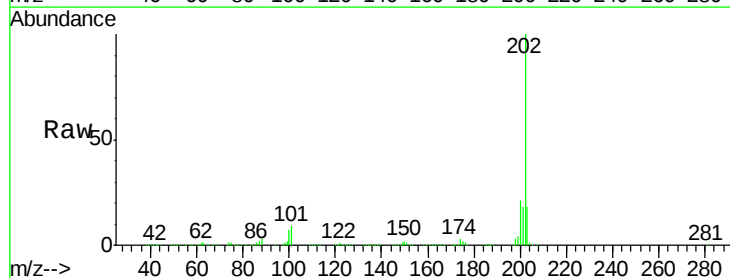
Tgt Ion:202 Resp: 1352107

Ion Ratio Lower Upper

202 100

200 21.4 17.6 26.4

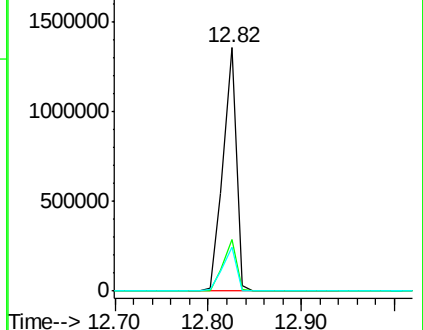
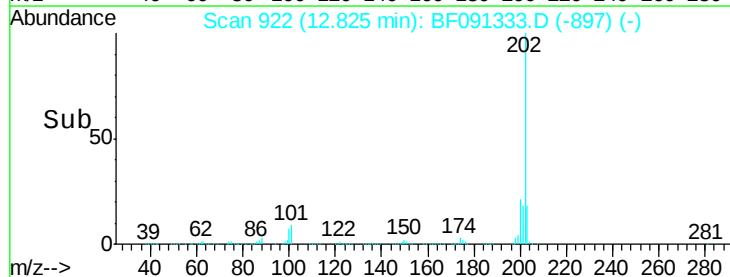
203 18.1 14.0 21.0

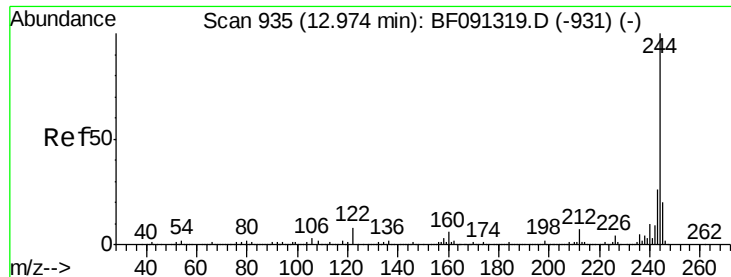


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

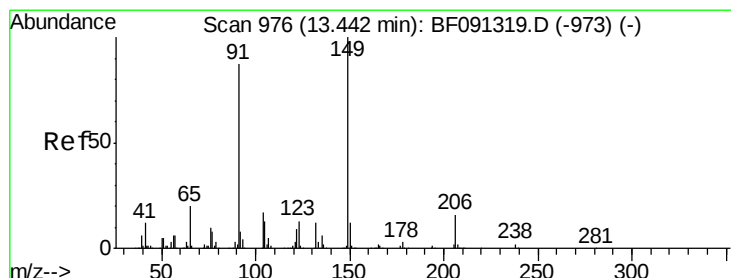
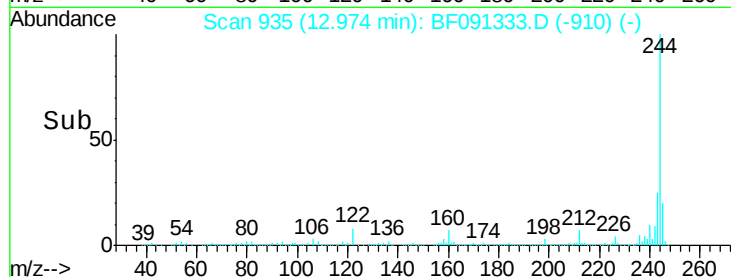
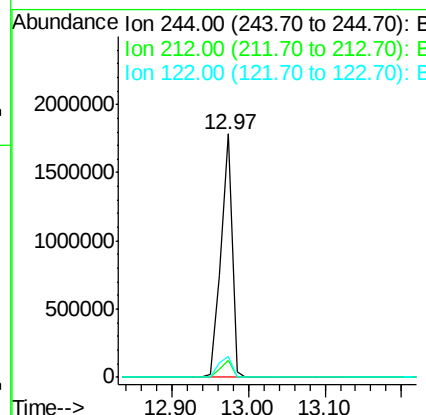
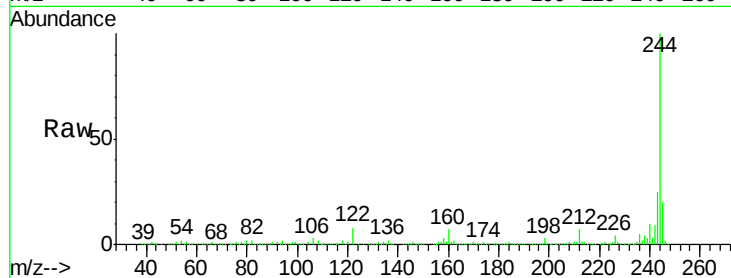




#78
 Terphenyl-d14
 Concen: 105.81 ng
 RT: 12.97 min Scan# 935
 Delta R.T. -0.02 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

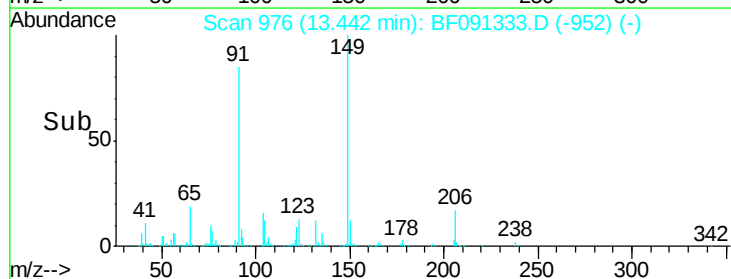
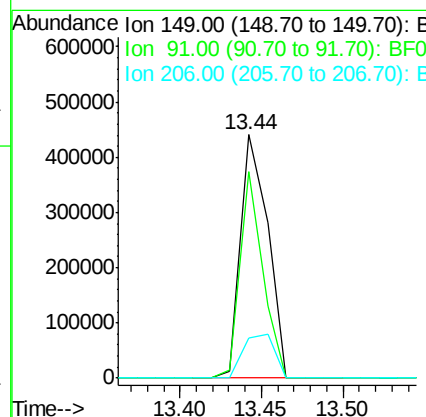
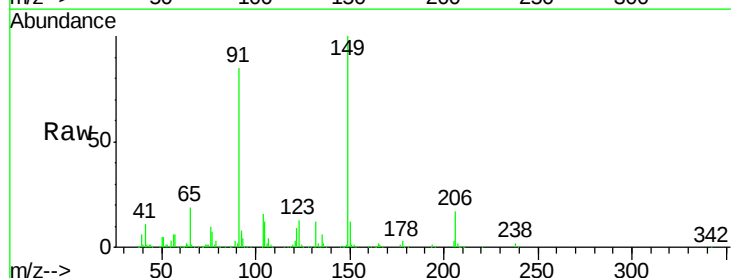
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

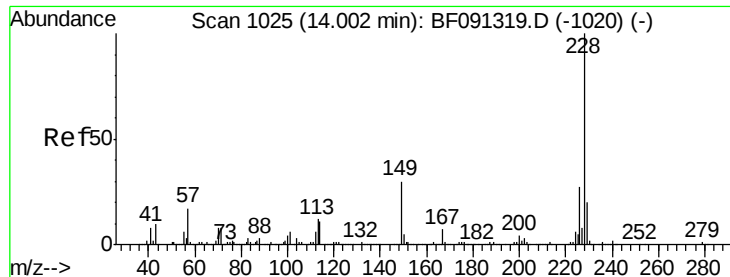
Tgt Ion:244 Resp: 1788855
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.5 9.7
 122 8.5 9.5 14.3#



#79
 Butylbenzylphthalate
 Concen: 48.33 ng
 RT: 13.44 min Scan# 976
 Delta R.T. -0.03 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Tgt Ion:149 Resp: 504667
 Ion Ratio Lower Upper
 149 100
 91 84.7 57.4 86.2
 206 16.5 15.4 23.2





#80

Benzo(a)anthracene

Concen: 45.42 ng

RT: 14.00 min Scan# 1025

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

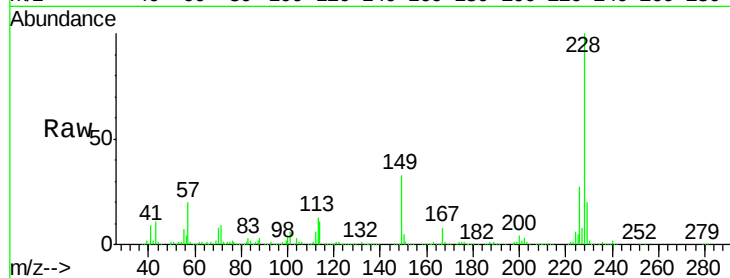
Tgt Ion:228 Resp: 976020

Ion Ratio Lower Upper

228 100

226 27.3 22.5 33.7

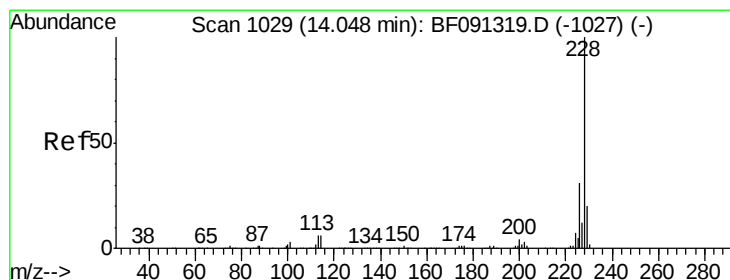
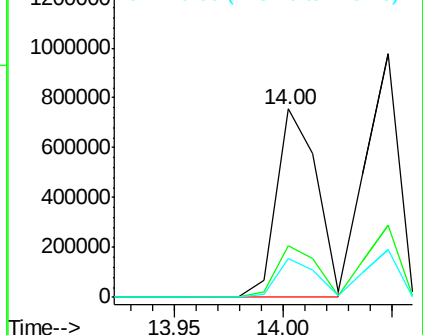
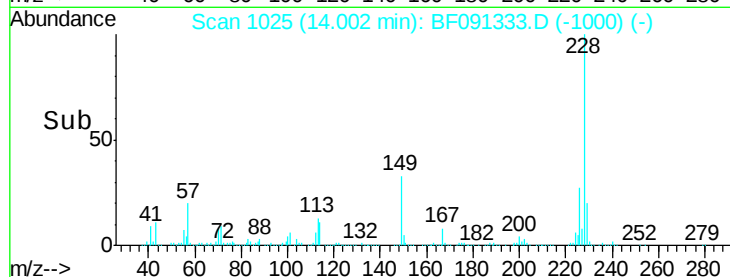
229 20.4 16.4 24.6



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



#82

Chrysene

Concen: 48.69 ng

RT: 14.05 min Scan# 1029

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

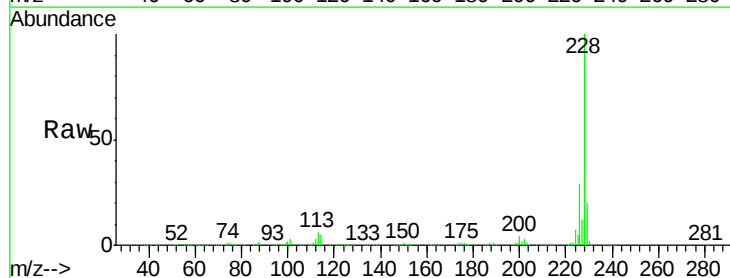
Tgt Ion:228 Resp: 1035203

Ion Ratio Lower Upper

228 100

226 29.5 25.0 37.4

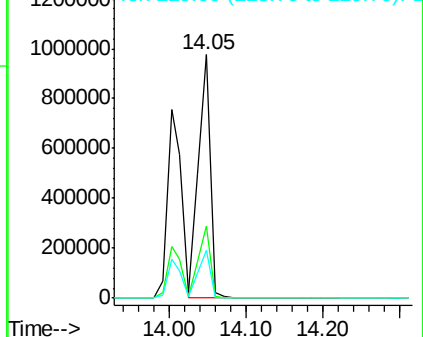
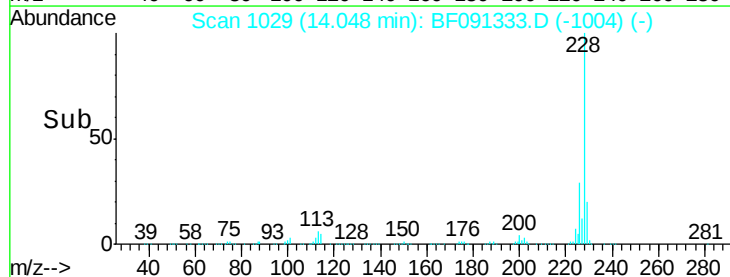
229 19.5 16.0 24.0

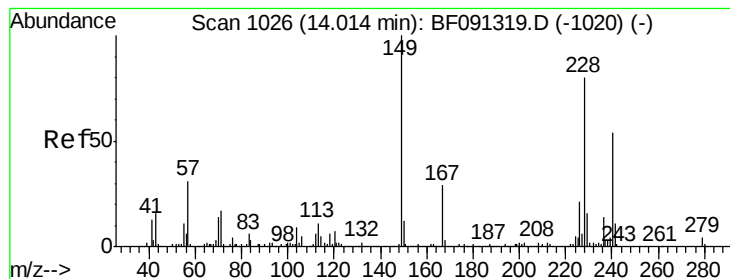


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Bis(2-ethylhexyl)phthalate

Concen: 53.00 ng

RT: 14.01 min Scan# 1026

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

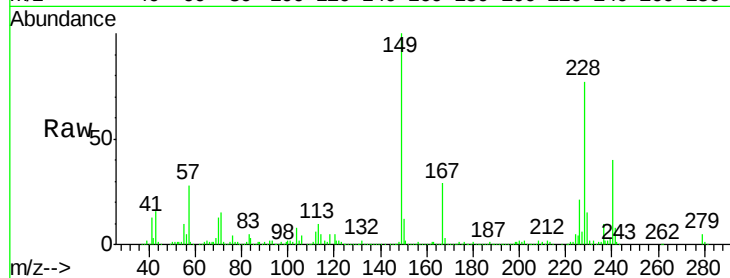
Tgt Ion:149 Resp: 701503

Ion Ratio Lower Upper

149 100

167 28.8 19.6 29.4

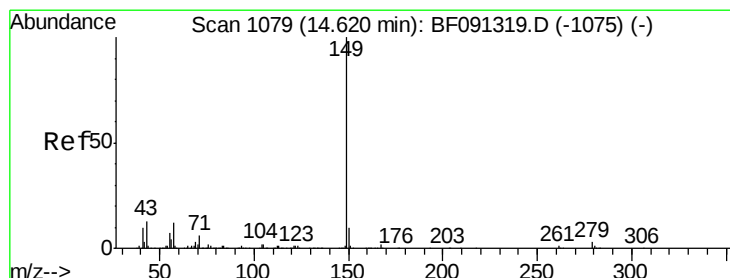
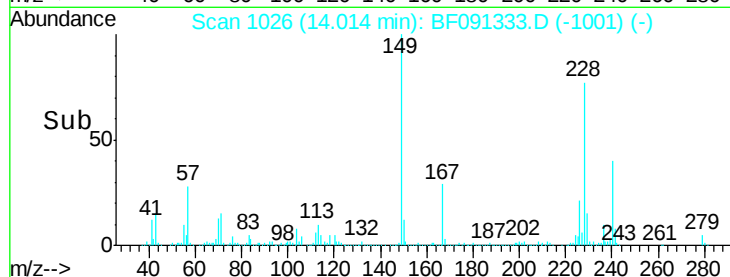
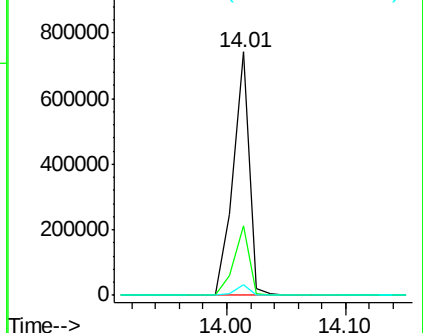
279 4.5 1.9 2.9#



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: 55.01 ng

RT: 14.62 min Scan# 1079

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

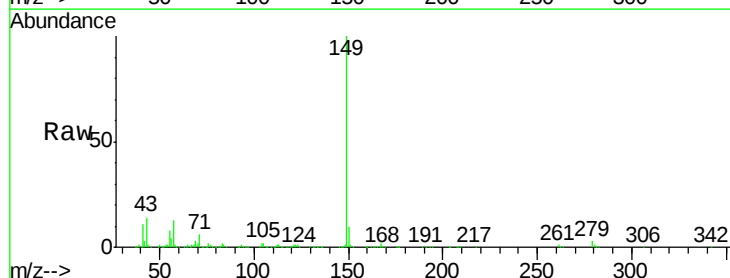
Tgt Ion:149 Resp: 1101728

Ion Ratio Lower Upper

149 100

167 1.6 1.3 1.9

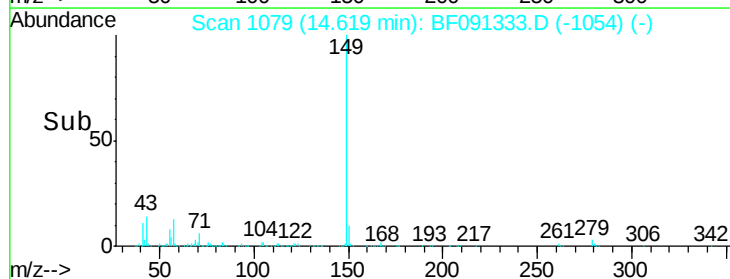
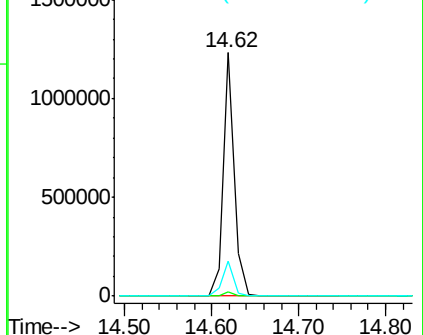
43 14.4 11.9 17.9

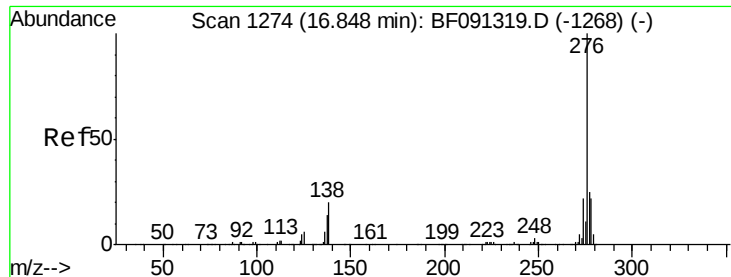


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0

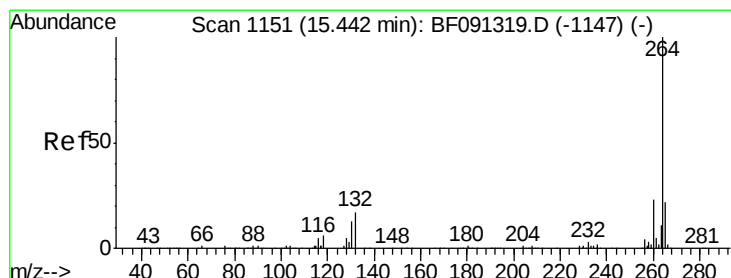
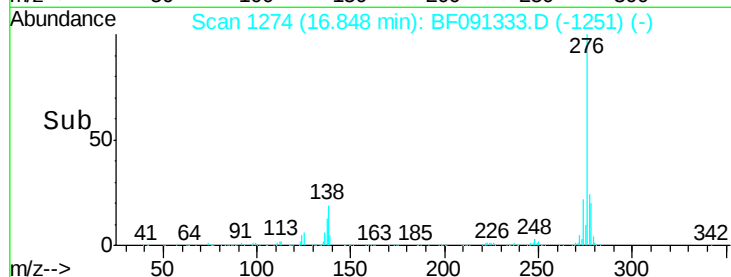
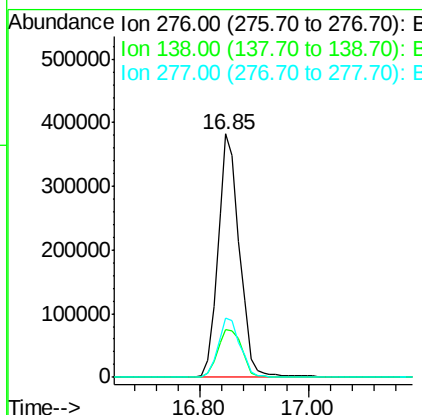
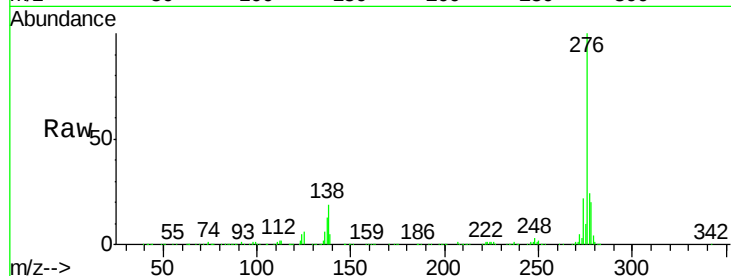




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 54.44 ng
 RT: 16.85 min Scan# 1274
 Delta R.T. -0.04 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

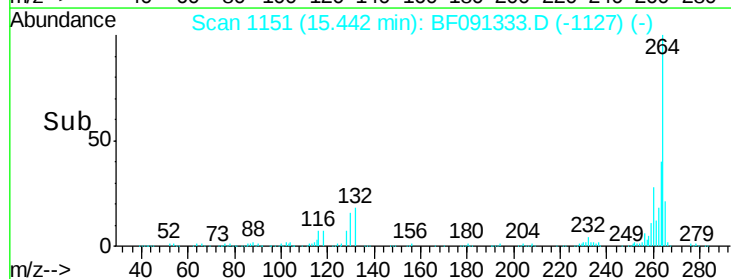
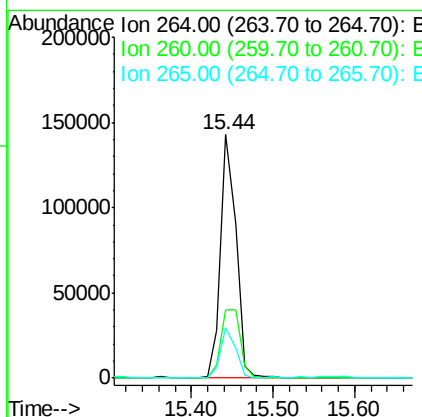
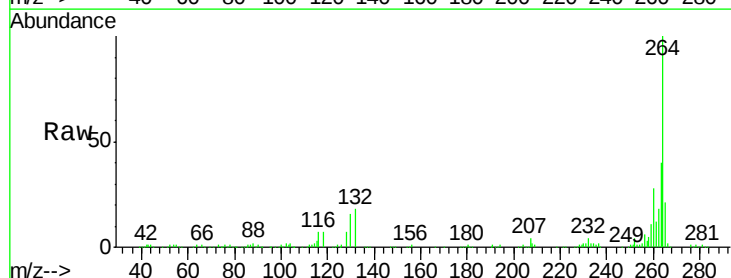
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMSD

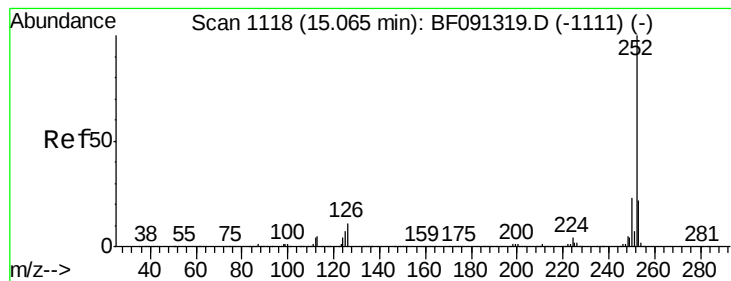
Tgt Ion:276 Resp: 1060054
 Ion Ratio Lower Upper
 276 100
 138 22.6 21.0 31.4
 277 25.2 20.2 30.2



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.44 min Scan# 1151
 Delta R.T. -0.03 min
 Lab File: BF091333.D
 Acq: 29 Nov 2016 18:09

Tgt Ion:264 Resp: 188140
 Ion Ratio Lower Upper
 264 100
 260 28.1 18.8 28.2
 265 20.9 17.0 25.6





#87

Benzo(b)fluoranthene

Concen: 162.52 ng

RT: 15.07 min Scan# 1118

Delta R.T. 0.01 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

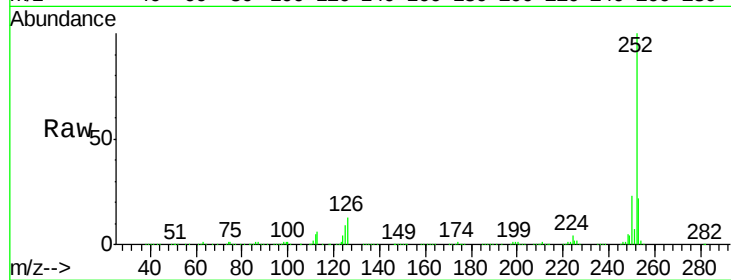
Tgt Ion:252 Resp: 1900497

Ion Ratio Lower Upper

252 100

253 21.5 18.2 27.2

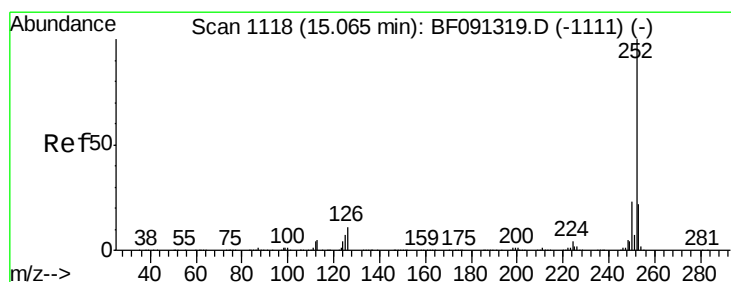
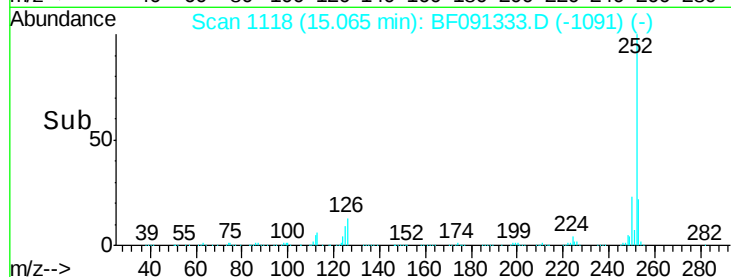
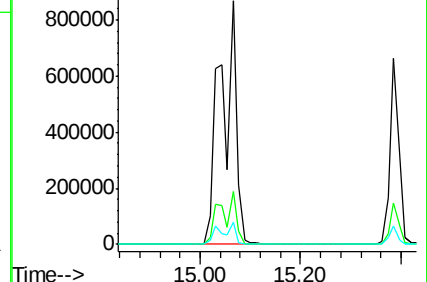
125 8.9 8.6 13.0



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: 193.37 ng

RT: 15.07 min Scan# 1118

Delta R.T. -0.02 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

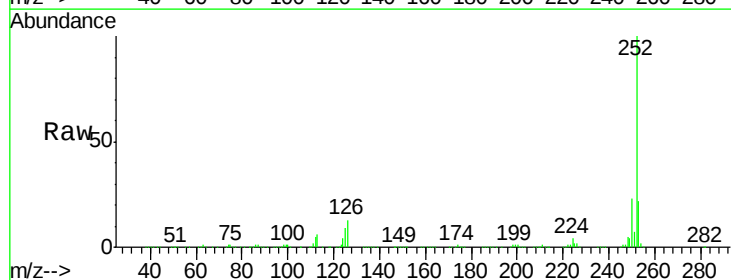
Tgt Ion:252 Resp: 1901557

Ion Ratio Lower Upper

252 100

253 21.5 17.8 26.8

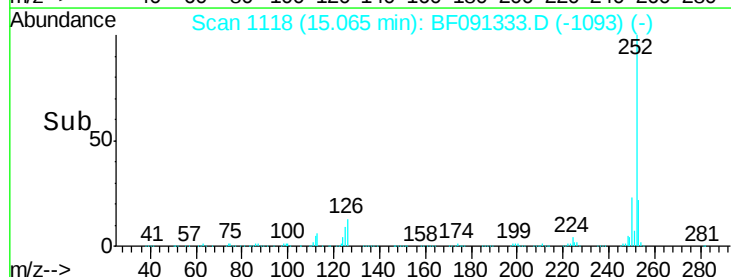
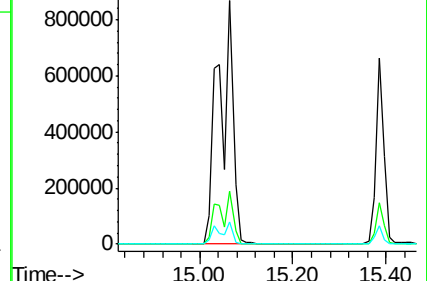
125 8.9 9.6 14.4#

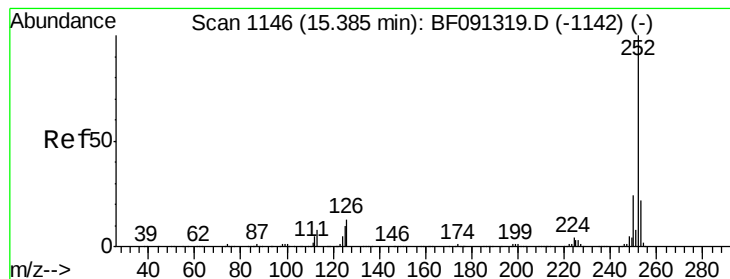


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 78.44 ng

RT: 15.39 min Scan# 1146

Delta R.T. -0.03 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD

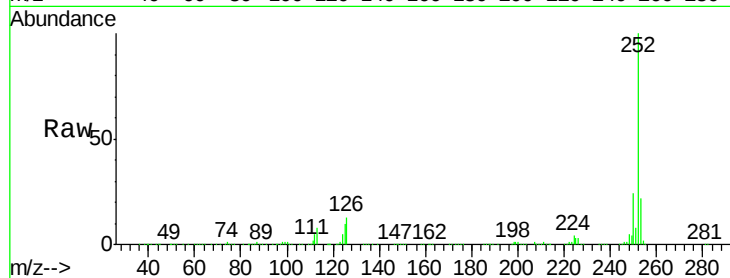
Tgt Ion:252 Resp: 823716

Ion Ratio Lower Upper

252 100

253 22.4 18.2 27.4

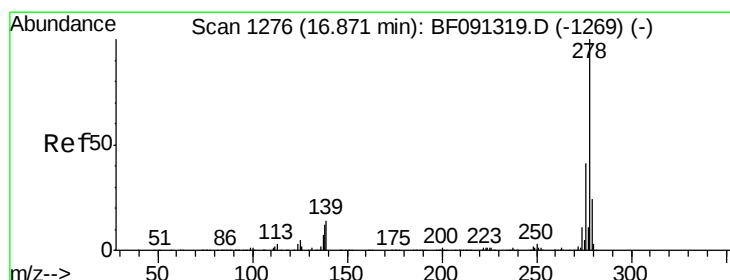
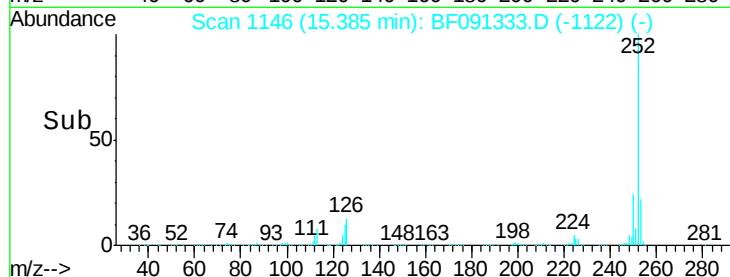
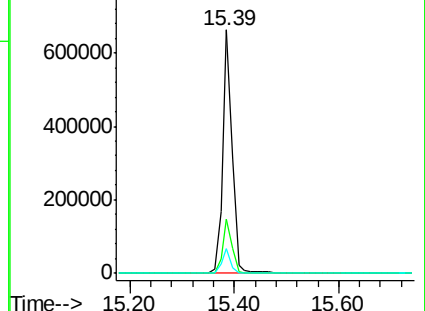
125 10.2 10.4 15.6#



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: 102.26 ng

RT: 16.87 min Scan# 1276

Delta R.T. -0.04 min

Lab File: BF091333.D

Acq: 29 Nov 2016 18:09

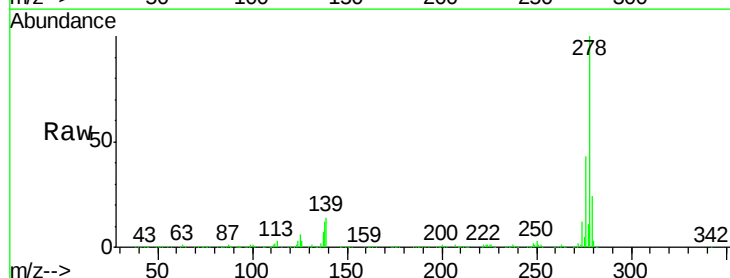
Tgt Ion:278 Resp: 993227

Ion Ratio Lower Upper

278 100

139 14.0 15.1 22.7#

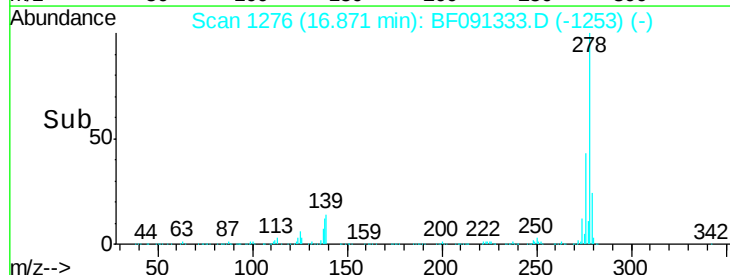
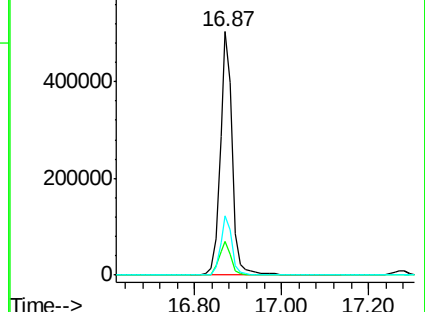
279 24.4 19.0 28.6

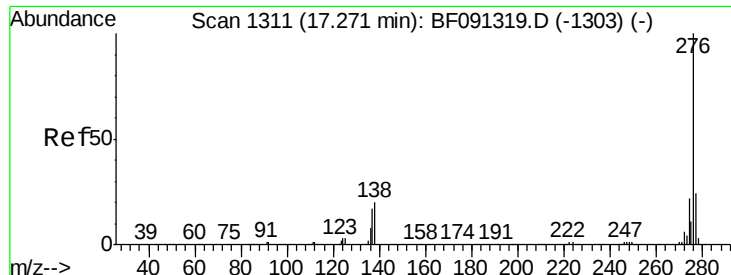


Abundance Ion 278.00 (277.70 to 278.70): E

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: 85.99 ng

RT: 17.28 min Scan# 1312

Delta R.T. -0.03 min

Lab File: BF091333.D

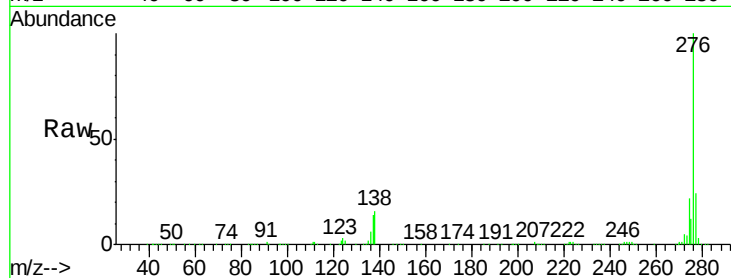
Acq: 29 Nov 2016 18:09

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMSD



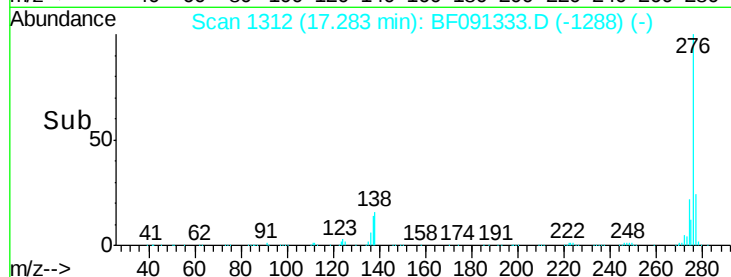
Tgt Ion: 276 Resp: 861193

Ion Ratio Lower Upper

276 100

277 23.7 19.0 28.4

138 16.5 15.4 23.0



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

