

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF123115\
 Data File : BF084198.D
 Acq On : 31 Dec 2015 16:48
 Operator : UM/SJ
 Sample : G4825-04
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016-02

Quant Time: Jan 01 23:19:18 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 31 14:15:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	303199	20.00	ng	0.00
21) Naphthalene-d8	8.19	136	1248974	20.00	ng	0.00
38) Acenaphthene-d10	9.94	164	557099	20.00	ng	-0.01
63) Phenanthrene-d10	11.42	188	1071496	20.00	ng	0.00
75) Chrysene-d12	14.07	240	877246	20.00	ng	0.00
86) Perylene-d12	15.51	264	650741	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.50	112	1796005	95.81	ng	0.01
7) Phenol-d6	6.53	99	2556377	108.59	ng	0.00
23) Nitrobenzene-d5	7.46	82	1555390	69.31	ng	-0.01
41) 2,4,6-Tribromophenol	10.73	330	587432	104.44	ng	-0.01
44) 2-Fluorobiphenyl	9.26	172	2448838	76.71	ng	0.00
78) Terphenyl-d14	13.01	244	2407180	61.25	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.60	88	116051	13.07	ng	# 74
3) Pyridine	3.36	79	325126	13.13	ng	# 73
4) n-Nitrosodimethylamine	3.26	42	171052	13.46	ng	80
6) Aniline	6.56	93	319954	9.29	ng	# 81
8) 2-Chlorophenol	6.68	128	335510	15.78	ng	91
9) Benzaldehyde	6.44	77	252571	16.48	ng	95
10) Phenol	6.54	94	286604	10.71	ng	76
11) bis(2-Chloroethyl)ether	6.64	93	332049	16.01	ng	87
12) 1,3-Dichlorobenzene	6.84	146	330538	15.07	ng	98
13) 1,4-Dichlorobenzene	6.84	146	330538	15.02	ng	94
14) 1,2-Dichlorobenzene	7.07	146	315215	14.96	ng	98
15) Benzyl Alcohol	7.04	79	299216	15.11	ng	92
16) 2,2'-oxybis(1-Chloropropan	7.18	45	561159	14.86	ng	84
17) 2-Methylphenol	7.15	107	274310	15.39	ng	99
18) Hexachloroethane	7.41	117	123154	14.00	ng	94
19) n-Nitroso-di-n-propylamine	7.31	70	227558	14.28	ng	# 67
20) 3+4-Methylphenols	7.30	107	323507	15.44	ng	# 71
22) Acetophenone	7.31	105	455131	15.15	ng	# 98
24) Nitrobenzene	7.48	77	364896	16.03	ng	99
25) Isophorone	7.72	82	641619	14.95	ng	98
26) 2-Nitrophenol	7.80	139	152984	14.77	ng	95
27) 2,4-Dimethylphenol	7.84	122	310372	14.80	ng	96
28) bis(2-Chloroethoxy)methane	7.94	93	407712	15.55	ng	99
29) 2,4-Dichlorophenol	8.04	162	265006	15.17	ng	94
30) 1,2,4-Trichlorobenzene	8.12	180	269726	14.96	ng	95
31) Naphthalene	8.20	128	873009	15.41	ng	98
32) Benzoic acid	7.90	122	115427	13.69	ng	92
33) 4-Chloroaniline	8.26	127	230652	8.88	ng	# 89
34) Hexachlorobutadiene	8.33	225	146657	14.15	ng	98
35) Caprolactam	8.60	113	87029	14.78	ng	# 74
36) 4-Chloro-3-methylphenol	8.73	107	281663	14.40	ng	89
37) 2-Methylnaphthalene	8.90	142	617604	15.18	ng	98
39) 1,2,4,5-Tetrachlorobenzene	9.07	216	236421	14.76	ng	98
40) Hexachlorocyclopentadiene	9.06	237	149578	15.47	ng	99

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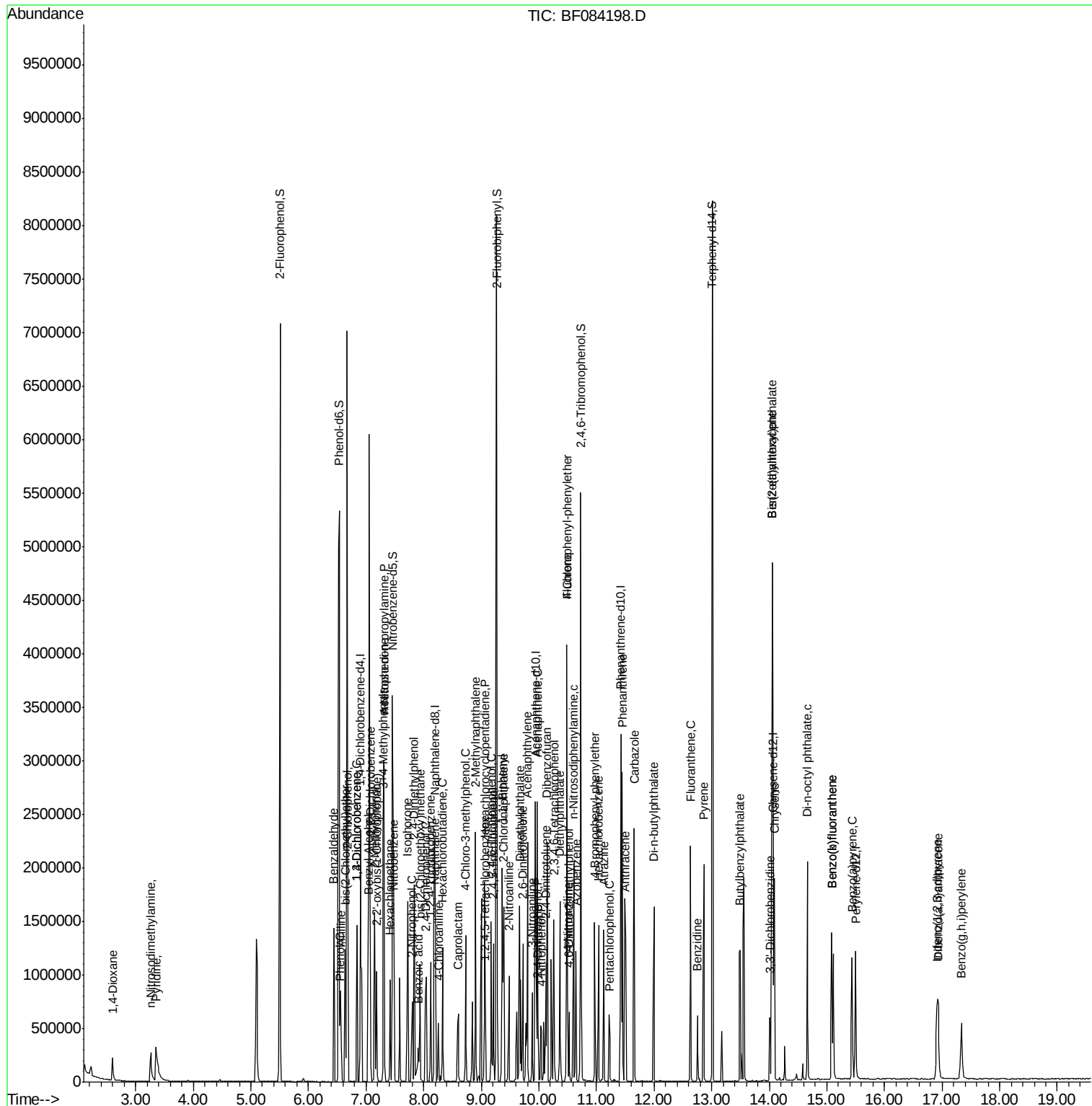
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	9.17	196	183365	15.30	ng	96
43) 2,4,5-Trichlorophenol	9.21	196	164970	14.36	ng #	79
45) 1,1'-Biphenyl	9.37	154	746455	16.86	ng	95
46) 2-Chloronaphthalene	9.39	162	572266	16.45	ng #	89
47) 2-Nitroaniline	9.48	65	180679	15.74	ng #	77
48) Acenaphthylene	9.80	152	896964	17.46	ng	98
49) Dimethylphthalate	9.66	163	701859	17.62	ng #	91
50) 2,6-Dinitrotoluene	9.72	165	148133	16.96	ng #	70
51) Acenaphthene	9.97	154	567268	16.46	ng	97
52) 3-Nitroaniline	9.88	138	114542	10.58	ng	90
53) 2,4-Dinitrophenol	9.98	184	29034	11.01	ng #	1
54) Dibenzofuran	10.14	168	796478	15.92	ng	95
55) 4-Nitrophenol	10.04	139	113597	14.46	ng	87
56) 2,4-Dinitrotoluene	10.12	165	197056	17.82	ng	88
57) Fluorene	10.49	166	604127	15.97	ng	100
58) 2,3,4,6-Tetrachlorophenol	10.26	232	151959	15.49	ng	97
59) Diethylphthalate	10.36	149	626364	15.95	ng	97
60) 4-Chlorophenyl-phenylether	10.49	204	279100	13.65	ng	90
61) 4-Nitroaniline	10.50	138	146671	15.20	ng	84
62) Azobenzene	10.65	77	700159	16.26	ng	93
64) 4,6-Dinitro-2-methylphenol	10.52	198	61271	13.38	ng #	46
65) n-Nitrosodiphenylamine	10.60	169	550987	16.08	ng	98
66) 4-Bromophenyl-phenylether	10.97	248	173133	15.01	ng #	66
67) Hexachlorobenzene	11.04	284	205384	15.82	ng	99
68) Atrazine	11.13	200	202413	18.05	ng	97
69) Pentachlorophenol	11.23	266	80310	11.93	ng	99
70) Phenanthrene	11.45	178	956817	17.07	ng	98
71) Anthracene	11.50	178	935121	17.02	ng	98
72) Carbazole	11.65	167	882622	16.43	ng	100
73) Di-n-butylphthalate	12.00	149	1030307	13.81	ng	100
74) Fluoranthene	12.64	202	987657	16.87	ng	95
76) Benzidine	12.75	184	255066	8.11	ng	96
77) Pyrene	12.87	202	1008997	14.66	ng	99
79) Butylbenzylphthalate	13.49	149	423760	14.23	ng #	81
80) Benzo(a)anthracene	14.05	228	771020	14.97	ng	99
81) 3,3'-Dichlorobenzidine	14.01	252	135071	7.51	ng #	91
82) Chrysene	14.09	228	748100	15.11	ng	100
83) Bis(2-ethylhexyl)phthalate	14.05	149	577992	15.36	ng #	97
84) Di-n-octyl phthalate	14.66	149	929528	14.63	ng #	86
85) Indeno(1,2,3-cd)pyrene	16.91	276	525386	13.39	ng	99
87) Benzo(b)fluoranthene	15.08	252	1214767	28.54	ng	98
88) Benzo(k)fluoranthene	15.08	252	1214767	34.89	ng	97
89) Benzo(a)pyrene	15.44	252	550440	15.24	ng #	98
90) Dibenzo(a,h)anthracene	16.93	278	447469	14.40	ng	97
91) Benzo(g,h,i)perylene	17.33	276	444527	13.82	ng	99

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.90 min Scan# 421

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

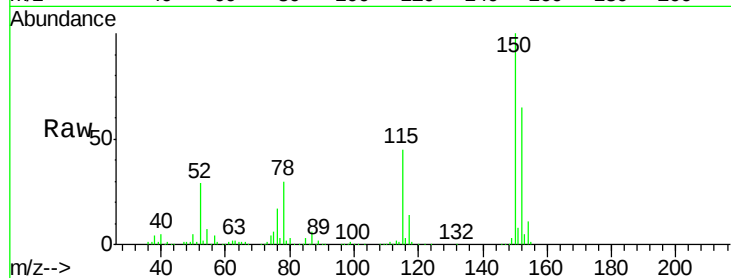
Tgt Ion:152 Resp: 303199

Ion Ratio Lower Upper

152 100

150 154.6 123.0 184.4

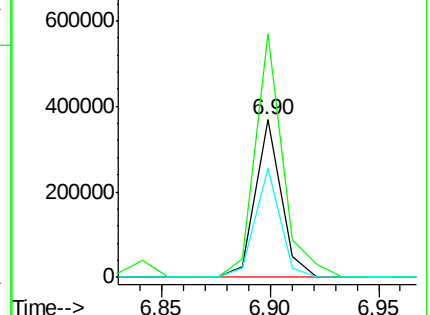
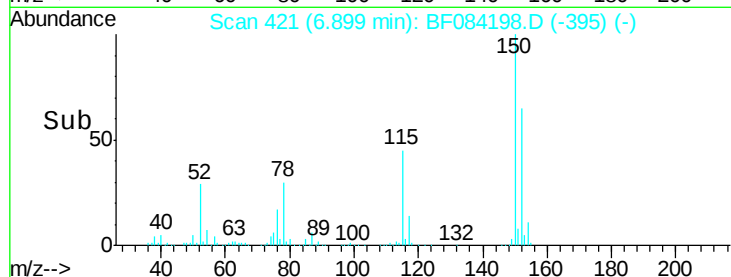
115 69.7 51.4 77.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 13.07 ng

RT: 2.60 min Scan# 45

Delta R.T. 0.07 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

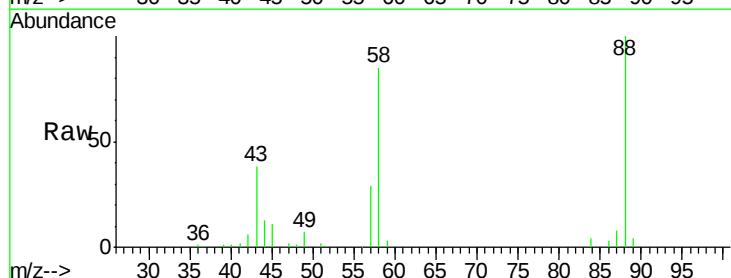
Tgt Ion: 88 Resp: 116051

Ion Ratio Lower Upper

88 100

58 86.3 51.2 76.8#

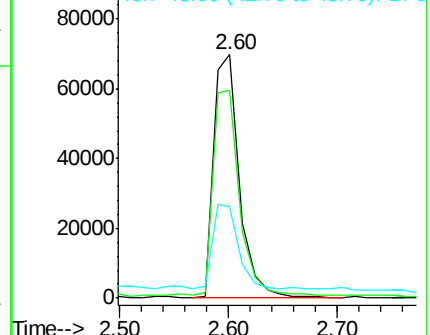
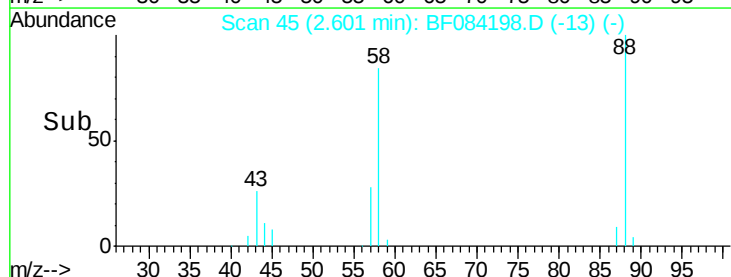
43 34.4 19.5 29.3#

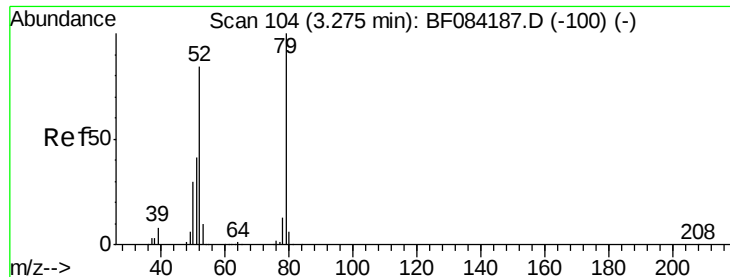


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#3

Pyridine

Concen: 13.13 ng

RT: 3.36 min Scan# 111

Delta R.T. 0.08 min

Lab File: BF084198.D

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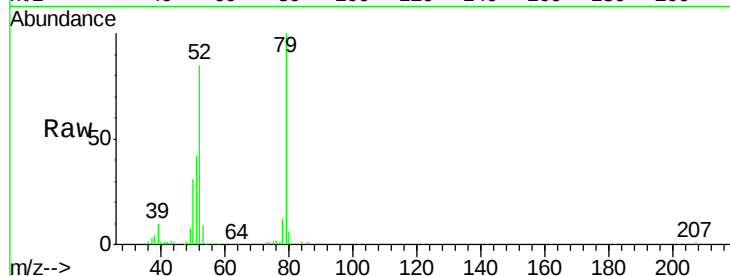
Tgt Ion: 79 Resp: 325126

Ion Ratio Lower Upper

79 100

52 84.7 49.0 73.4#

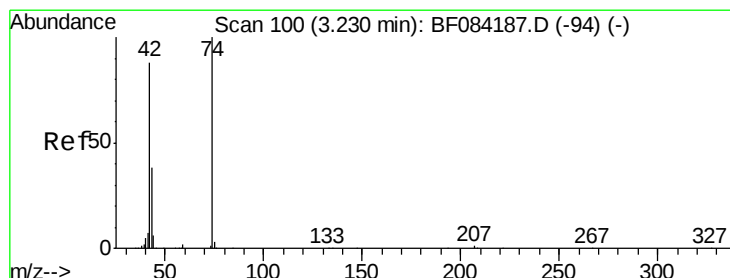
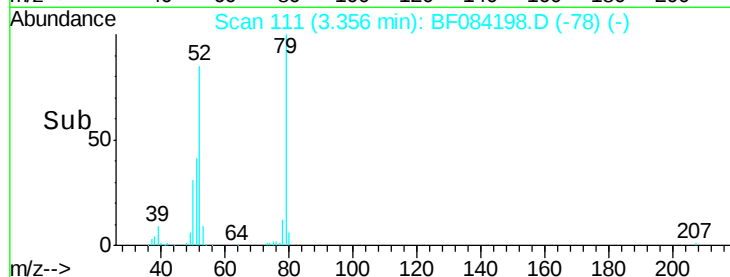
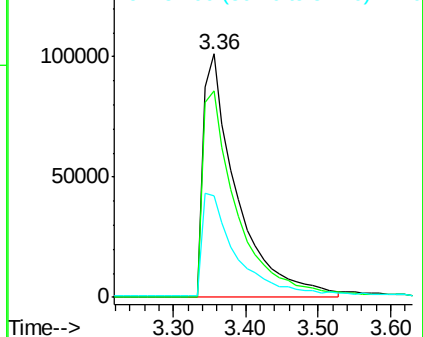
51 41.7 25.2 37.8#



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 52.00 (51.70 to 52.70): BF0

Ion 51.00 (50.70 to 51.70): BF0



#4

n-Nitrosodimethylamine

Concen: 13.46 ng

RT: 3.26 min Scan# 103

Delta R.T. 0.03 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

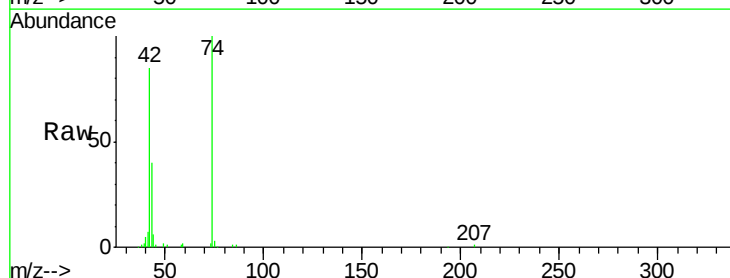
Tgt Ion: 42 Resp: 171052

Ion Ratio Lower Upper

42 100

74 118.3 115.7 173.5

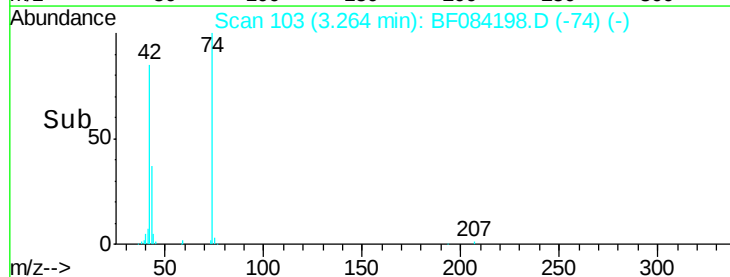
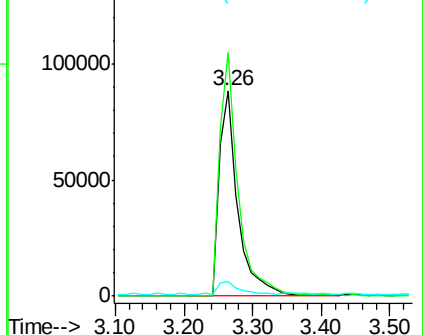
44 7.2 5.1 7.7

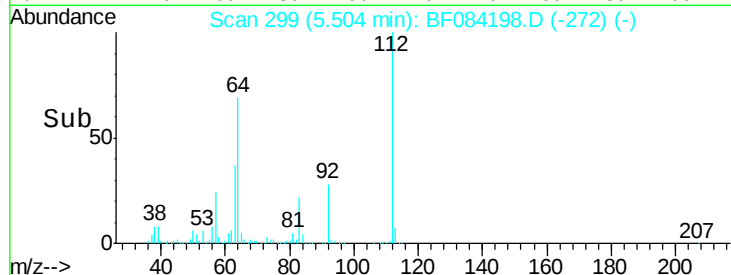
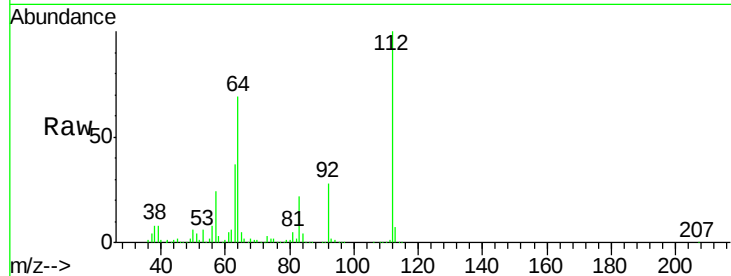
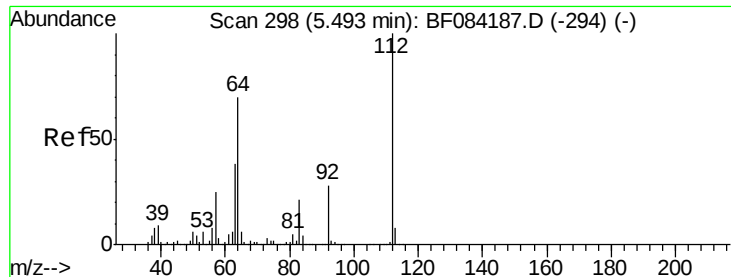


Abundance Ion 42.00 (41.70 to 42.70): BF0

Ion 74.00 (73.70 to 74.70): BF0

Ion 44.00 (43.70 to 44.70): BF0





#5

2-Fluorophenol

Concen: 95.81 ng

RT: 5.50 min Scan# 299

Delta R.T. 0.01 min

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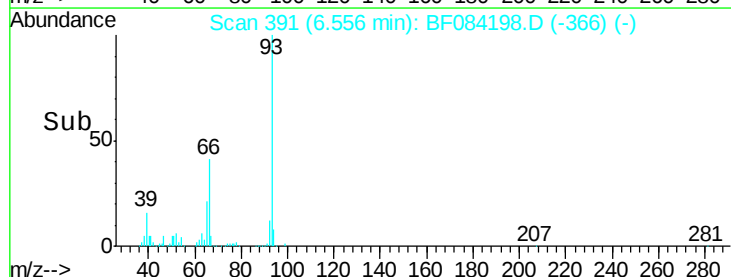
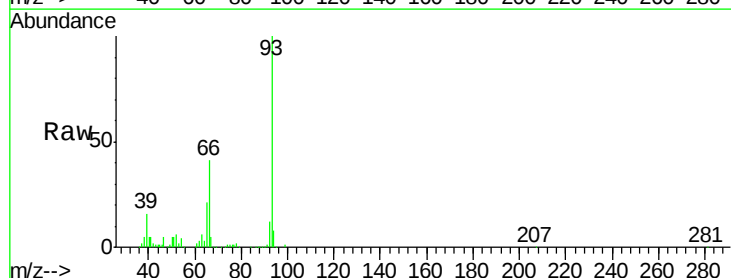
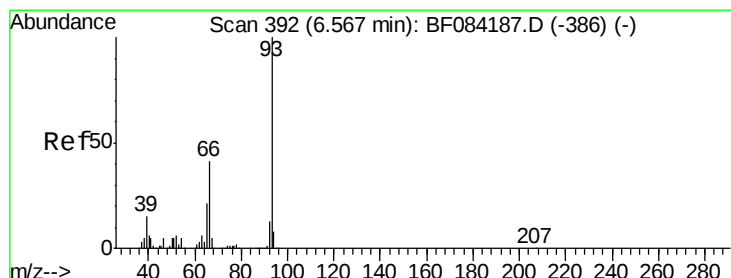
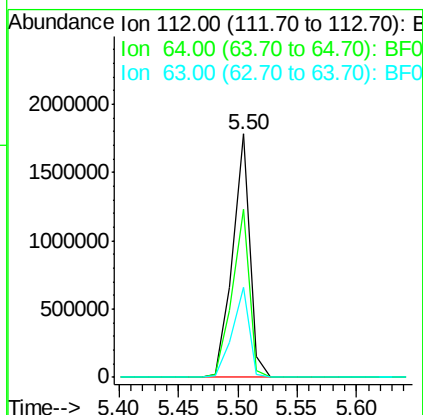
Tgt Ion:112 Resp: 1796005

Ion Ratio Lower Upper

112 100

64 69.2 36.6 55.0#

63 37.2 19.4 29.0#



#6

Aniline

Concen: 9.29 ng

RT: 6.56 min Scan# 391

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

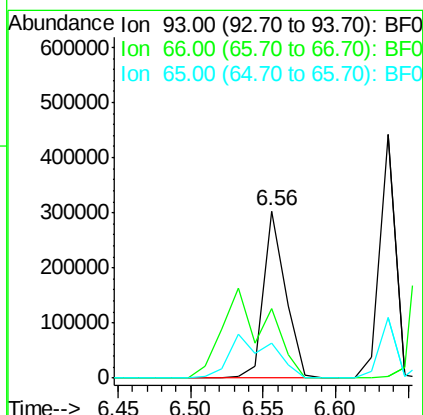
Tgt Ion: 93 Resp: 319954

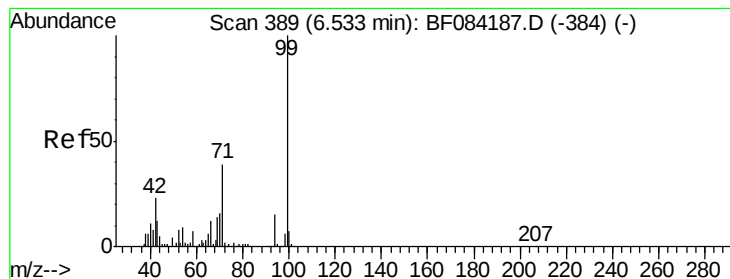
Ion Ratio Lower Upper

93 100

66 41.4 44.9 67.3#

65 21.0 23.7 35.5#





#7

Phenol-d6

Concen: 108.59 ng

RT: 6.53 min Scan# 389

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

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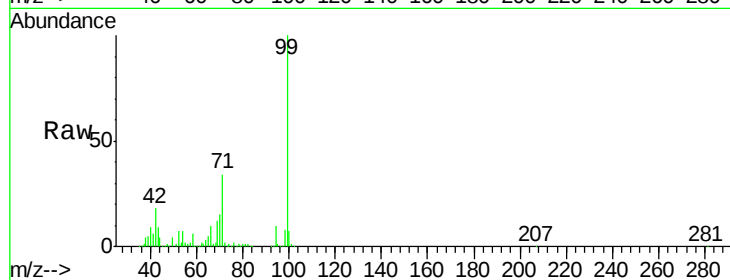
Tgt Ion: 99 Resp: 2556377

Ion Ratio Lower Upper

99 100

42 17.7 12.8 19.2

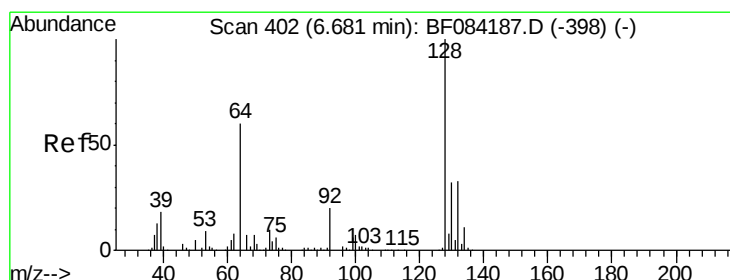
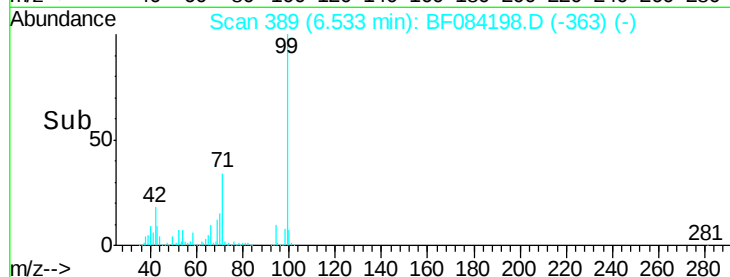
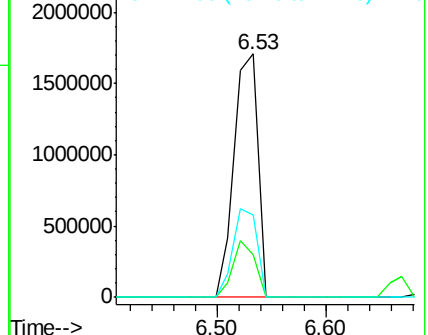
71 33.6 30.9 46.3



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: 15.78 ng

RT: 6.68 min Scan# 402

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

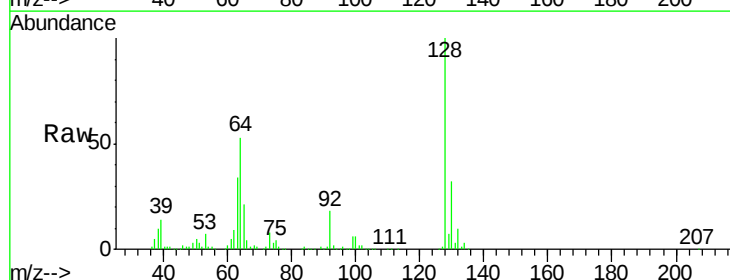
Tgt Ion: 128 Resp: 335510

Ion Ratio Lower Upper

128 100

130 31.9 11.6 51.6

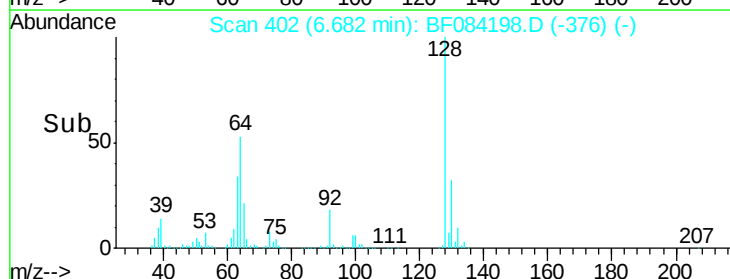
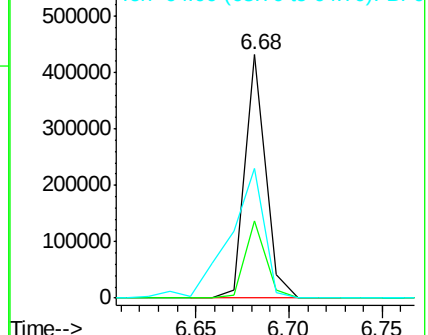
64 53.1 23.8 63.8

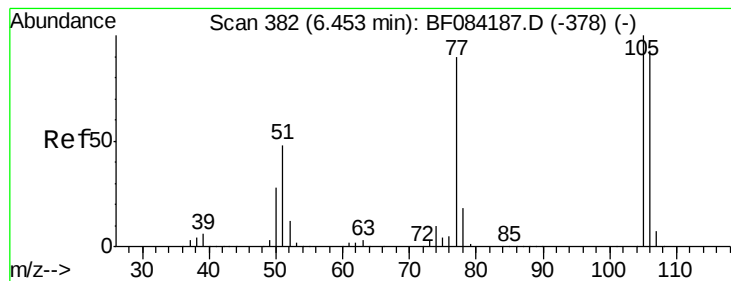


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF0





#9

Benzaldehyde

Concen: 16.48 ng

RT: 6.44 min Scan# 381

Delta R.T. -0.01 min

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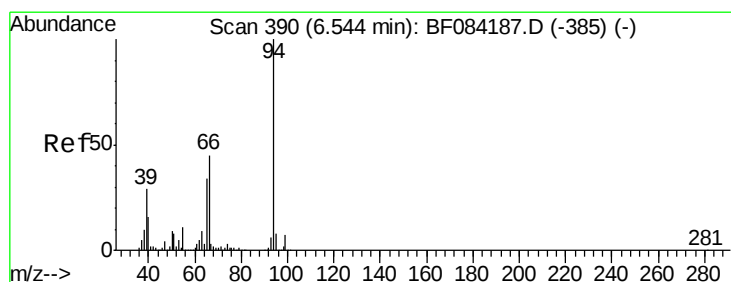
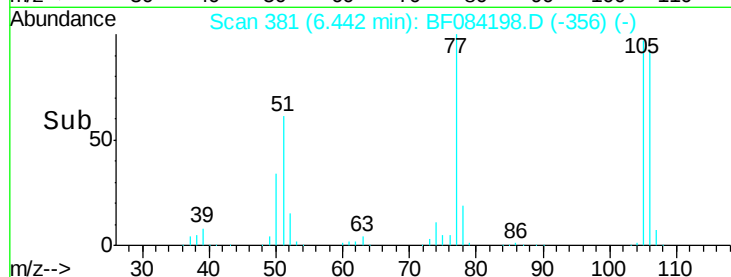
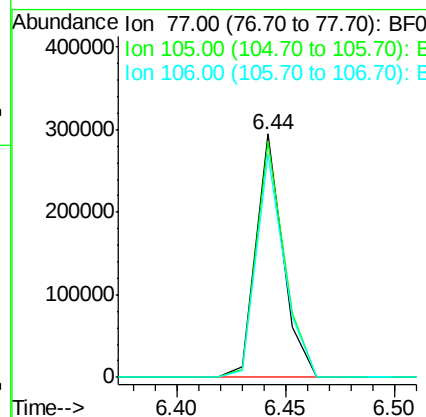
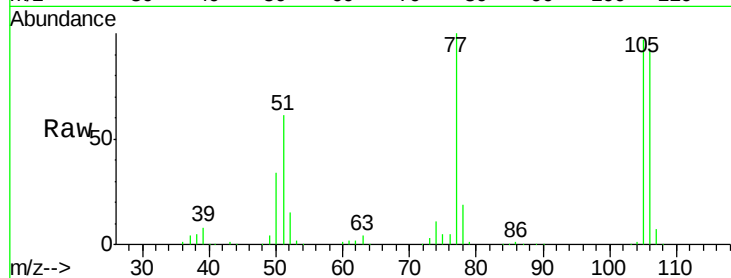
Tgt Ion: 77 Resp: 252571

Ion Ratio Lower Upper

77 100

105 97.0 83.0 123.0

106 91.6 74.6 114.6



#10

Phenol

Concen: 10.71 ng

RT: 6.54 min Scan# 390

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

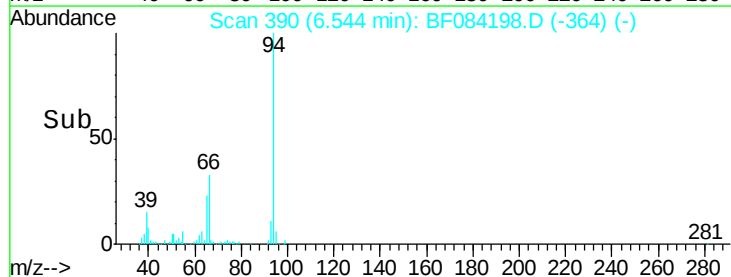
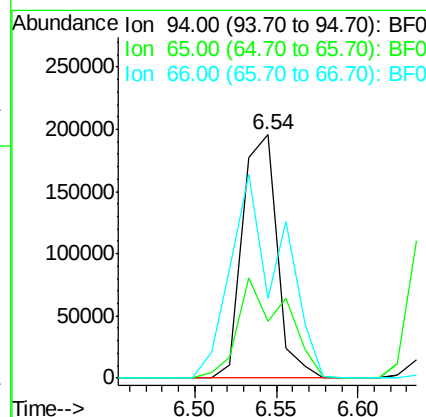
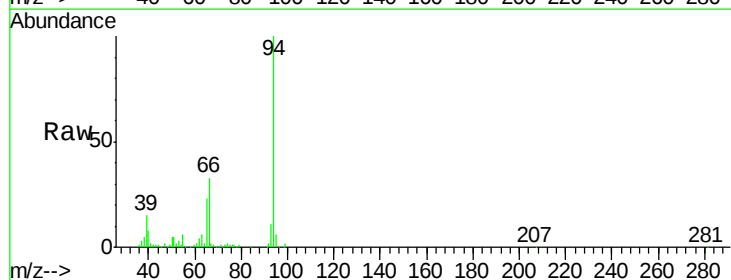
Tgt Ion: 94 Resp: 286604

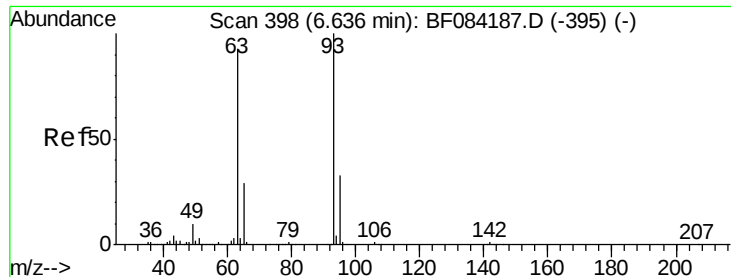
Ion Ratio Lower Upper

94 100

65 23.1 12.9 52.9

66 32.8 32.7 72.7

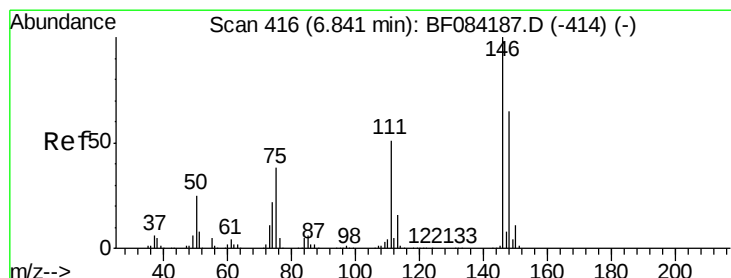
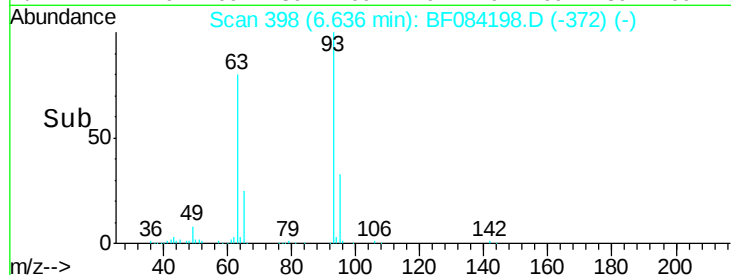
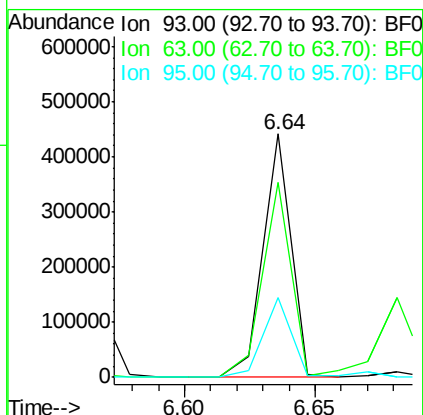
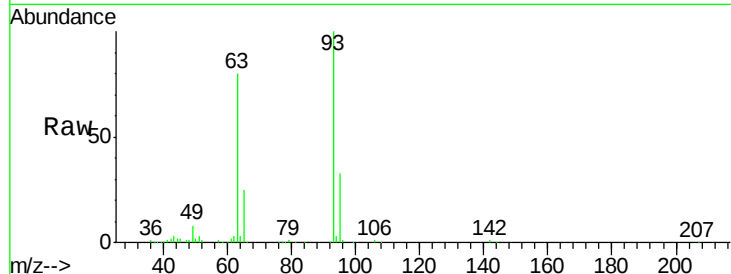




#11
bis(2-Chloroethyl)ether
Concen: 16.01 ng
RT: 6.64 min Scan# 398
Delta R.T. 0.00 min
Lab File: BF084198.D
Acq: 31 Dec 2015 16:48

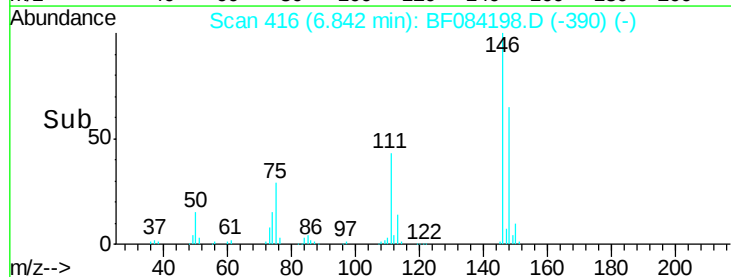
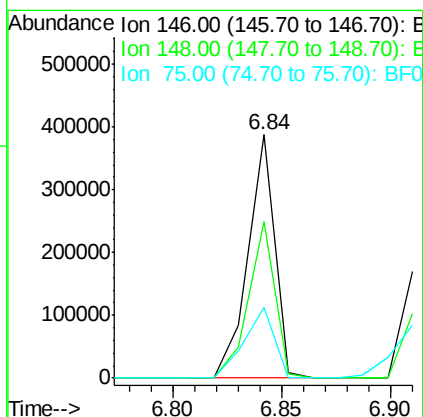
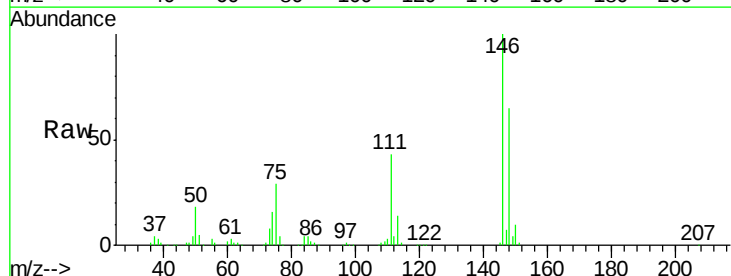
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

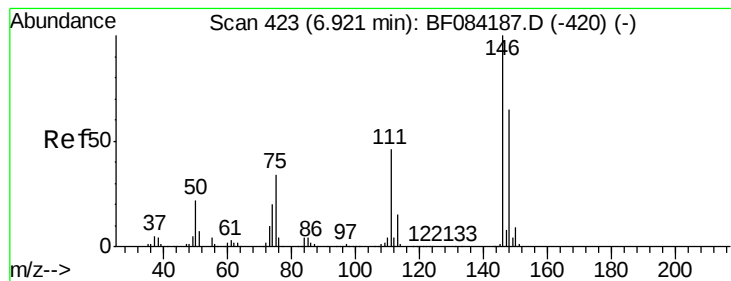
Tgt Ion: 93 Resp: 332049
Ion Ratio Lower Upper
93 100
63 80.3 45.9 85.9
95 33.0 12.3 52.3



#12
1,3-Dichlorobenzene
Concen: 15.07 ng
RT: 6.84 min Scan# 416
Delta R.T. 0.00 min
Lab File: BF084198.D
Acq: 31 Dec 2015 16:48

Tgt Ion: 146 Resp: 330538
Ion Ratio Lower Upper
146 100
148 64.5 51.9 77.9
75 29.0 20.5 30.7





#13

1,4-Dichlorobenzene

Concen: 15.02 ng

RT: 6.84 min Scan# 416

Delta R.T. -0.08 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

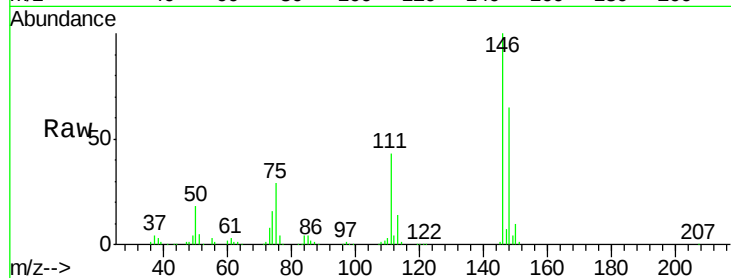
Tgt Ion:146 Resp: 330538

Ion Ratio Lower Upper

146 100

148 64.5 51.9 77.9

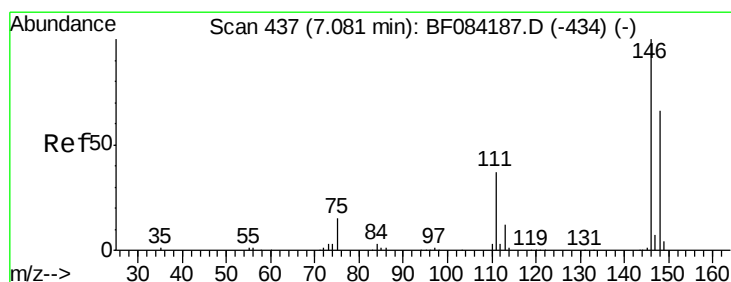
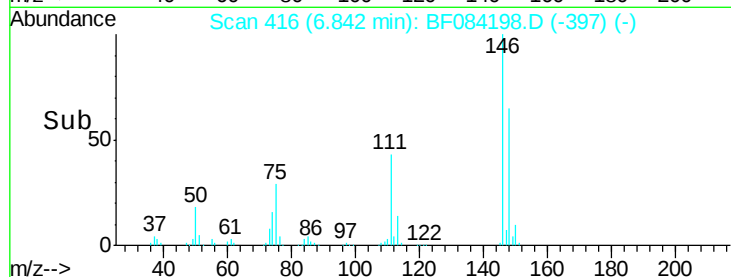
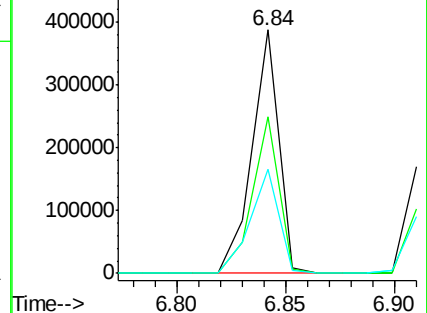
111 42.9 41.6 62.4



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: 14.96 ng

RT: 7.07 min Scan# 436

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

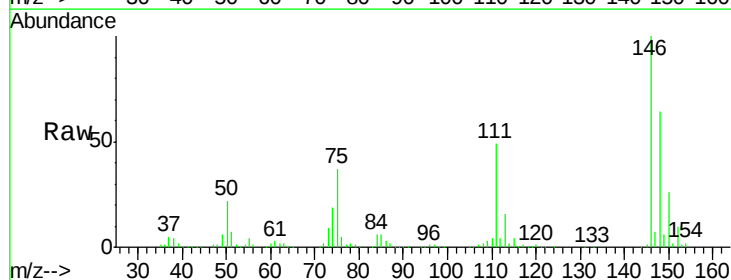
Tgt Ion:146 Resp: 315215

Ion Ratio Lower Upper

146 100

148 63.5 51.6 77.4

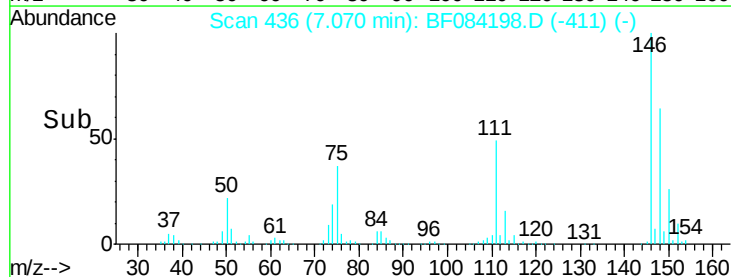
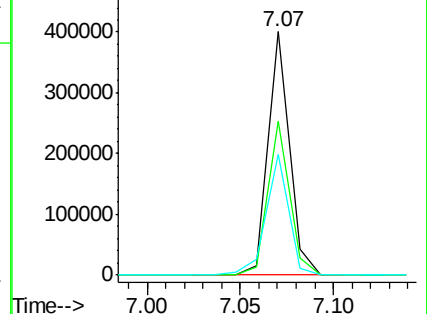
111 49.5 38.0 57.0



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: 15.11 ng

RT: 7.04 min Scan# 433

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

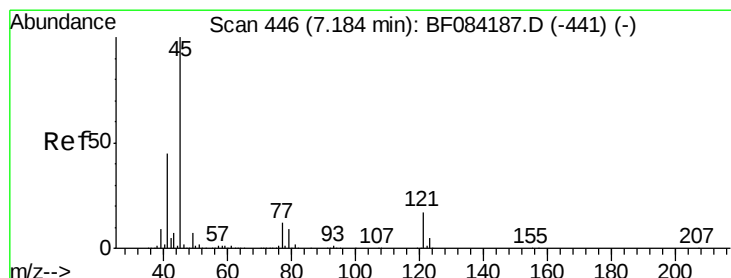
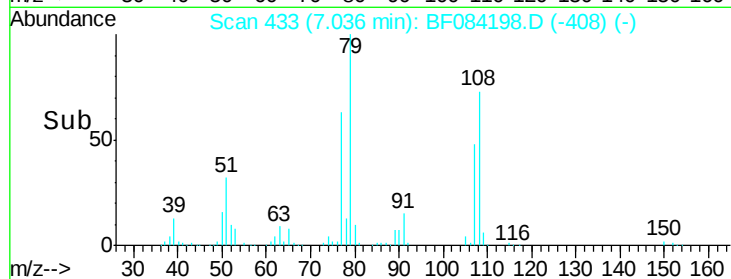
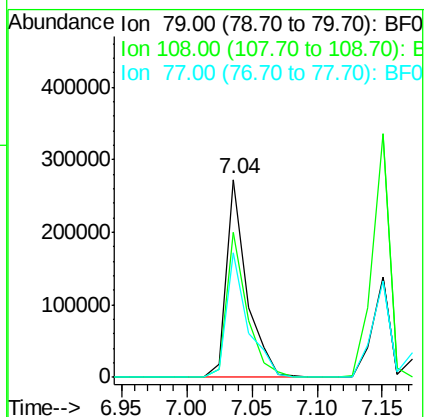
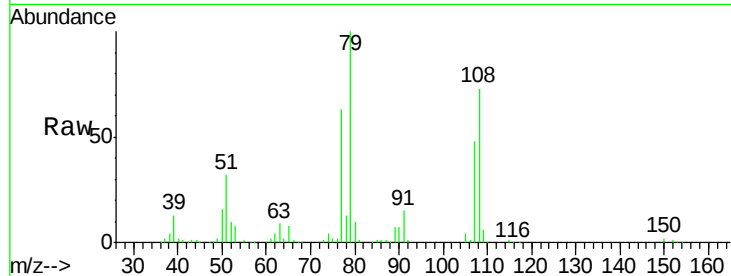
Tgt Ion: 79 Resp: 299216

Ion Ratio Lower Upper

79 100

108 73.4 69.0 103.4

77 62.8 50.0 75.0



#16

2,2'-oxybis(1-Chloropropane)

Concen: 14.86 ng

RT: 7.18 min Scan# 446

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

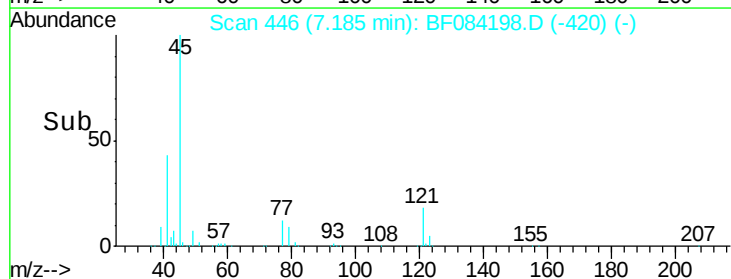
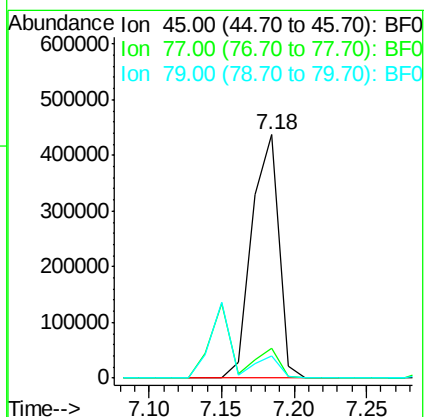
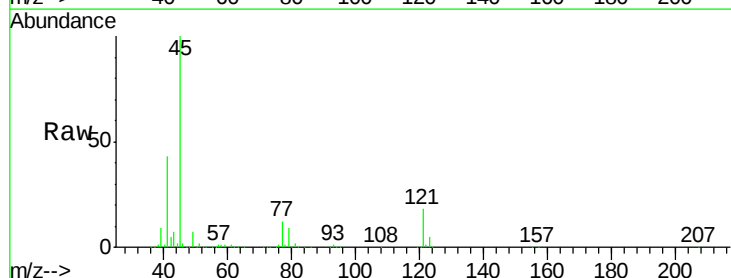
Tgt Ion: 45 Resp: 561159

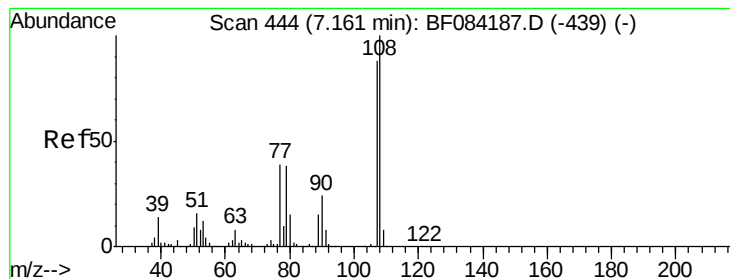
Ion Ratio Lower Upper

45 100

77 12.1 0.0 39.6

79 9.0 0.0 35.0





#17

2-Methylphenol

Concen: 15.39 ng

RT: 7.15 min Scan# 443

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

Tgt Ion:107 Resp: 274310

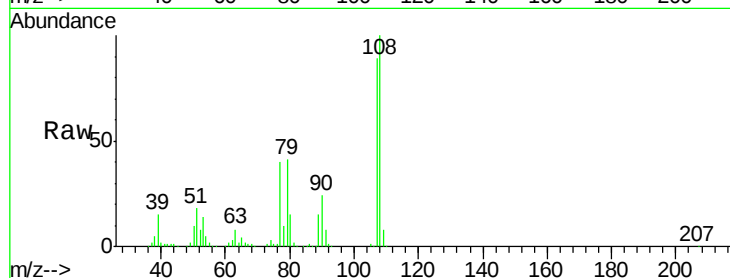
Ion Ratio Lower Upper

107 100

108 111.8 89.8 134.6

77 44.4 35.7 53.5

79 45.8 35.7 53.5

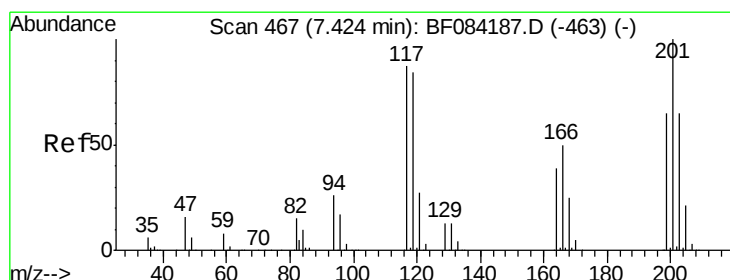
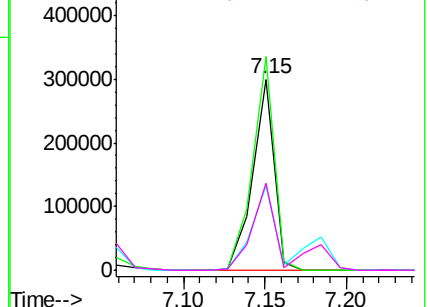
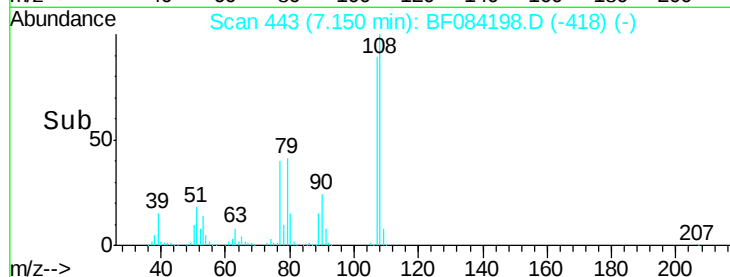


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



#18

Hexachloroethane

Concen: 14.00 ng

RT: 7.41 min Scan# 466

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

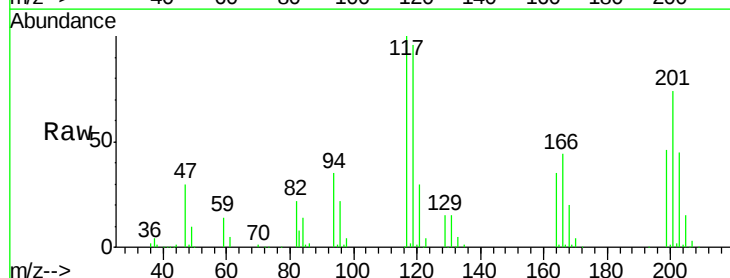
Tgt Ion:117 Resp: 123154

Ion Ratio Lower Upper

117 100

119 96.4 77.4 116.0

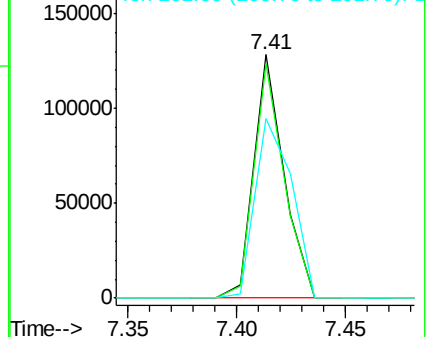
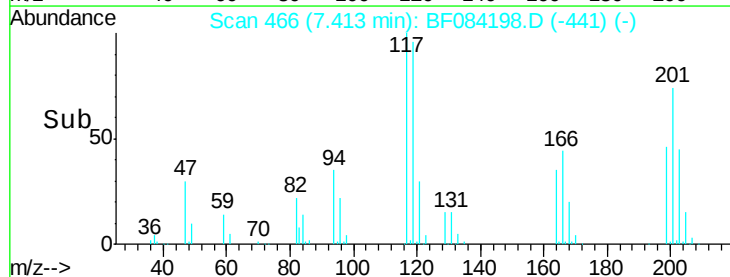
201 73.5 68.6 103.0

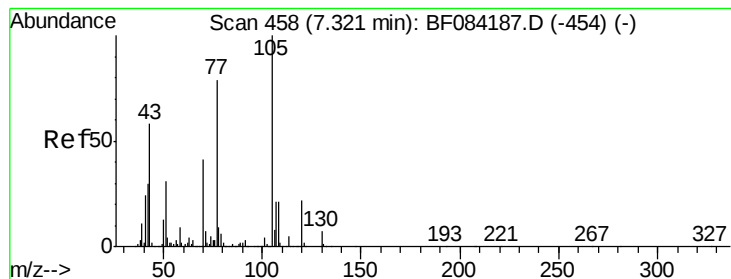


Abundance Ion 117.00 (116.70 to 117.70): E

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: 14.28 ng

RT: 7.31 min Scan# 457

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

Tgt Ion: 70 Resp: 227558

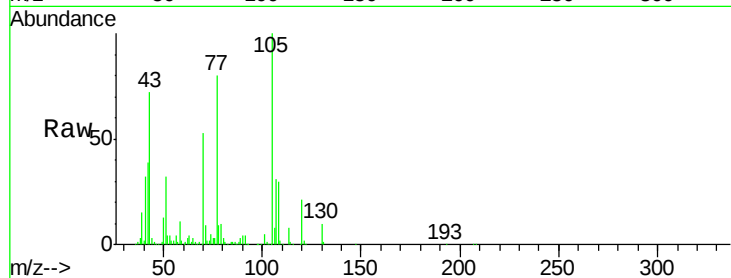
Ion Ratio Lower Upper

70 100

42 73.3 33.3 49.9#

101 9.4 9.3 13.9

130 18.3 23.4 35.0#

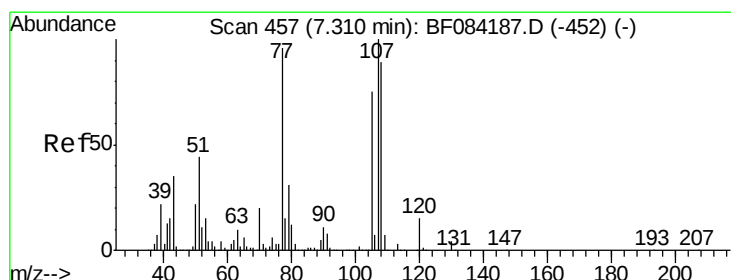
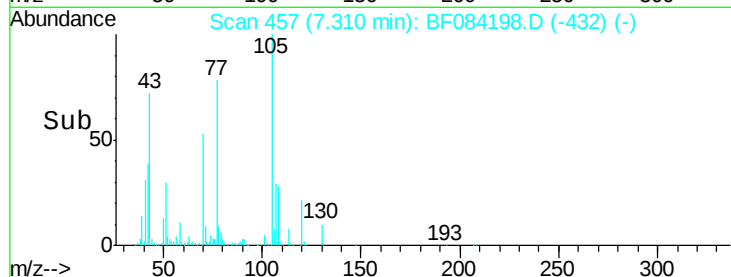
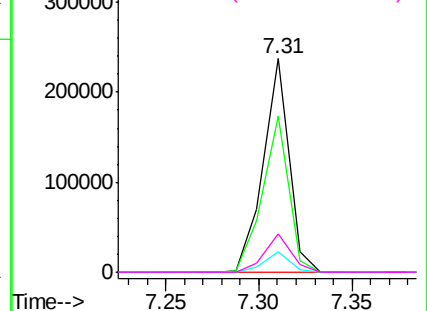


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0



#20

3+4-Methylphenols

Concen: 15.44 ng

RT: 7.30 min Scan# 456

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Tgt Ion: 107 Resp: 323507

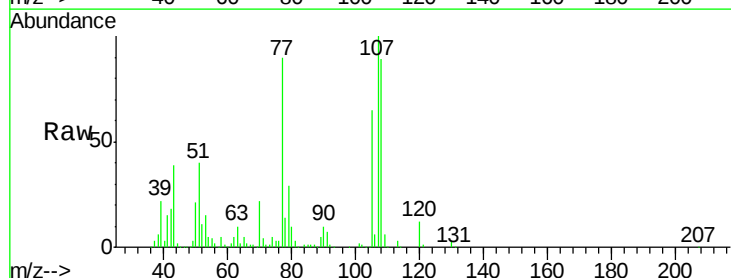
Ion Ratio Lower Upper

107 100

108 89.3 64.1 104.1

77 89.6 128.9 168.9#

79 28.8 9.6 49.6

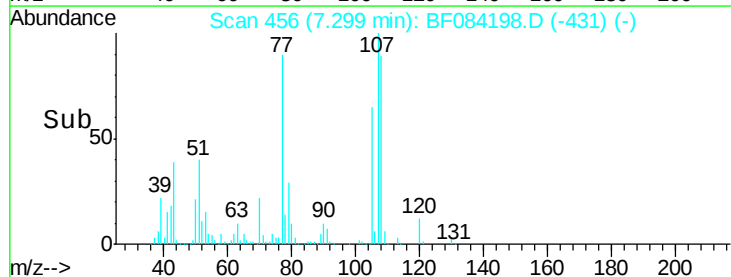
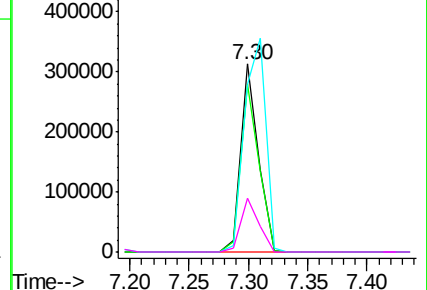


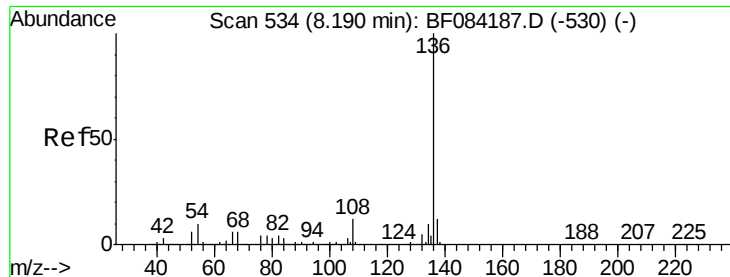
Abundance Ion 107.00 (106.70 to 107.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

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: 8.19 min Scan# 534

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

Tgt Ion:136 Resp: 1248974

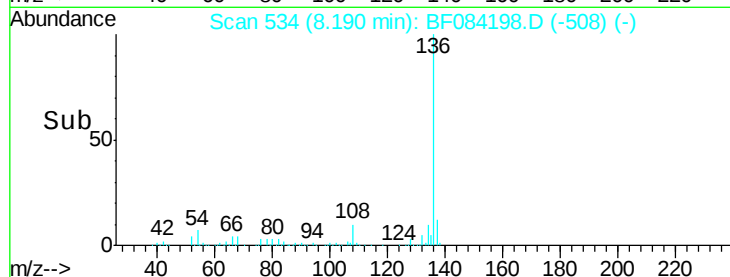
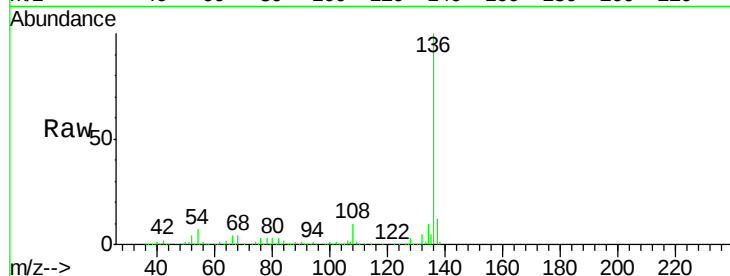
Ion Ratio Lower Upper

136 100

137 11.6 8.7 13.1

54 7.2 5.8 8.8

68 4.1 4.2 6.2#

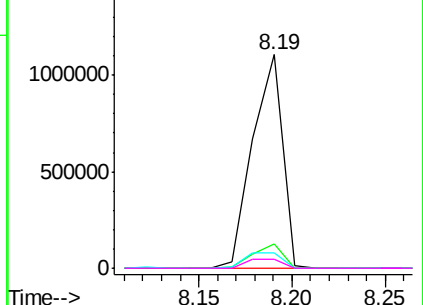


Abundance Ion 136.00 (135.70 to 136.70): E

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: 15.15 ng

RT: 7.31 min Scan# 457

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Tgt Ion:105 Resp: 455131

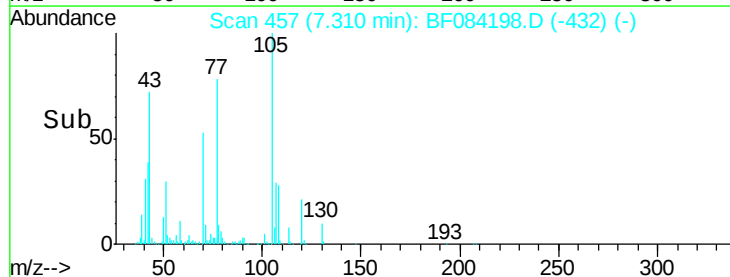
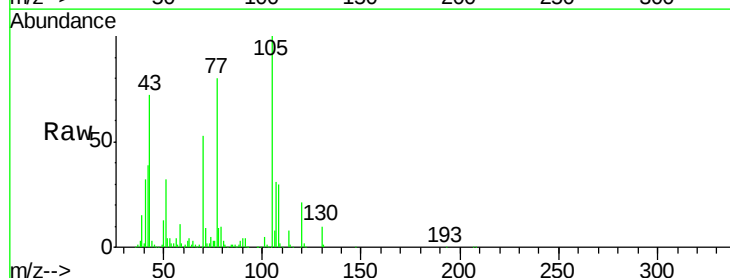
Ion Ratio Lower Upper

105 100

71 9.0 3.7 5.5#

51 31.7 25.1 37.7

120 21.1 16.6 25.0

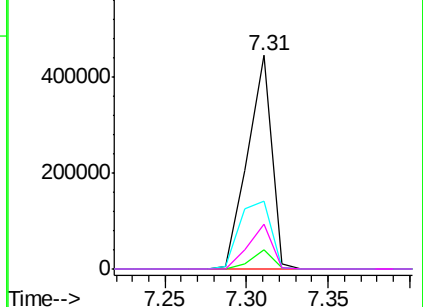


Abundance Ion 105.00 (104.70 to 105.70): E

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

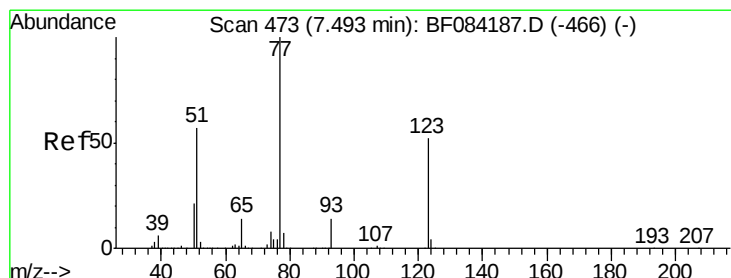
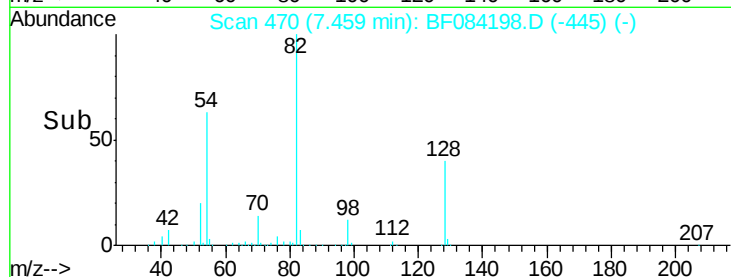
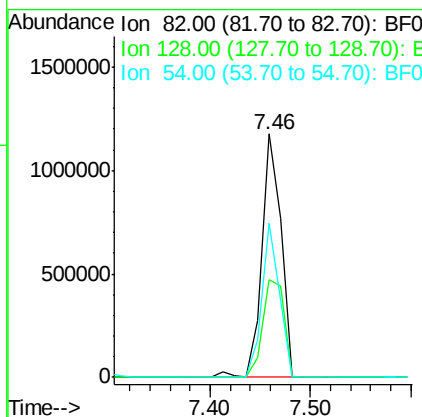
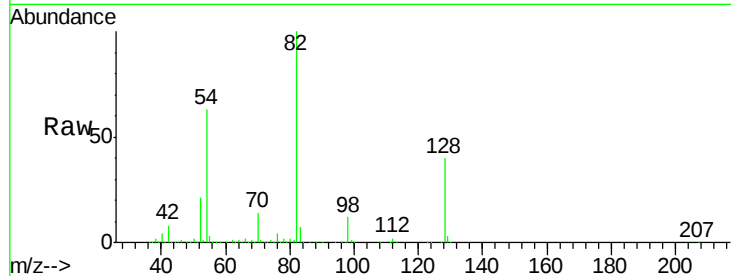




#23
 Nitrobenzene-d5
 Concen: 69.31 ng
 RT: 7.46 min Scan# 470
 Delta R.T. -0.01 min
 Lab File: BF084198.D
 Acq: 31 Dec 2015 16:48

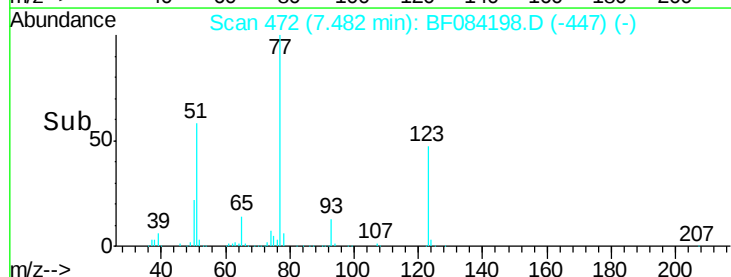
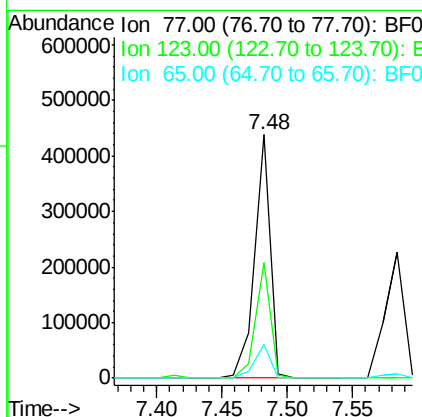
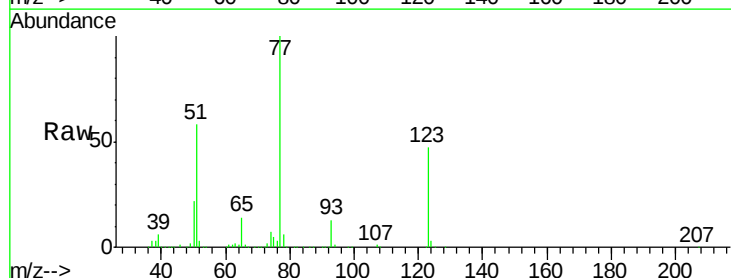
Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016-02

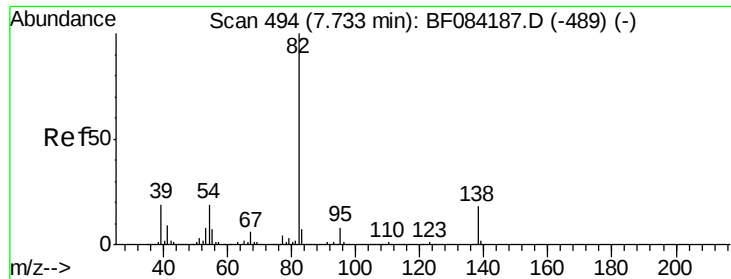
Tgt Ion: 82 Resp: 1555390
 Ion Ratio Lower Upper
 82 100
 128 40.4 34.6 51.8
 54 63.0 38.4 57.6#



#24
 Nitrobenzene
 Concen: 16.03 ng
 RT: 7.48 min Scan# 472
 Delta R.T. -0.01 min
 Lab File: BF084198.D
 Acq: 31 Dec 2015 16:48

Tgt Ion: 77 Resp: 364896
 Ion Ratio Lower Upper
 77 100
 123 47.3 37.4 56.2
 65 13.7 10.9 16.3





#25

Isophorone

Concen: 14.95 ng

RT: 7.72 min Scan# 493

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

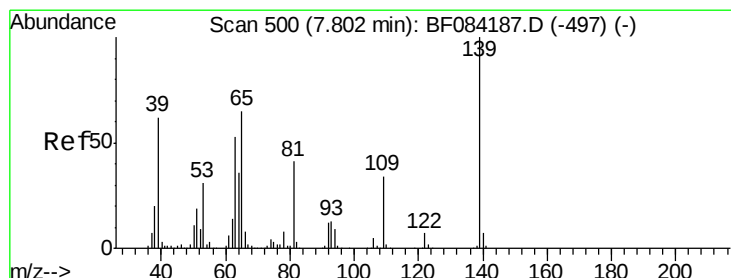
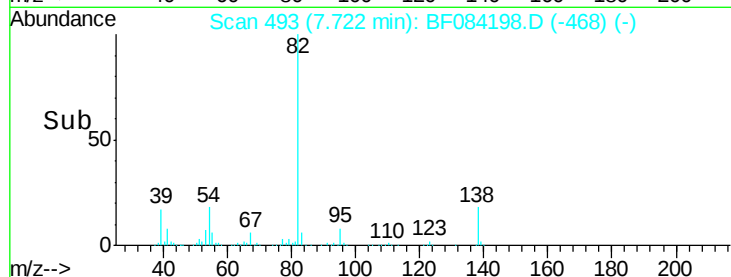
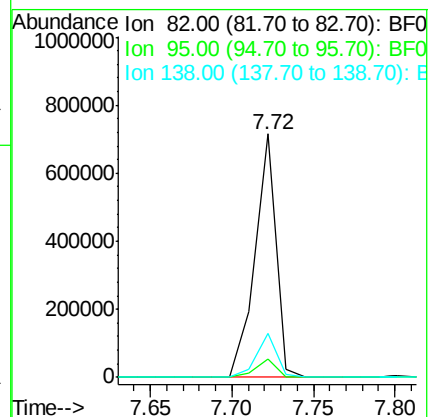
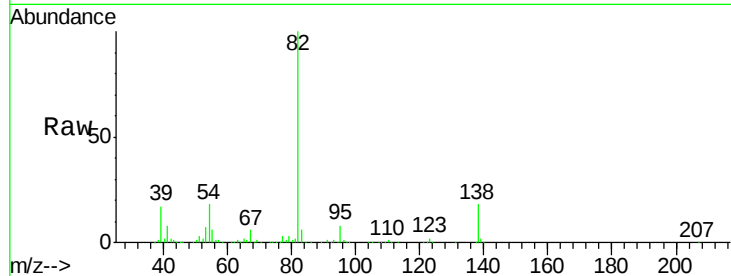
Tgt Ion: 82 Resp: 641619

Ion Ratio Lower Upper

82 100

95 7.6 6.6 10.0

138 17.9 13.6 20.4



#26

2-Nitrophenol

Concen: 14.77 ng

RT: 7.80 min Scan# 500

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

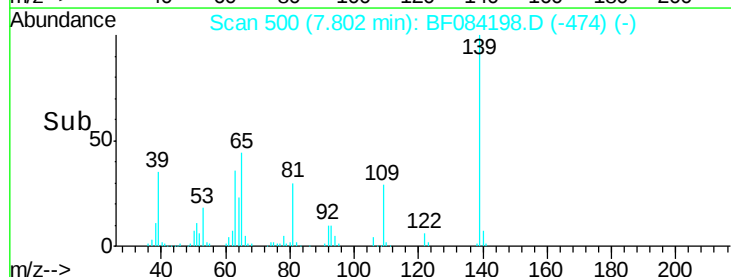
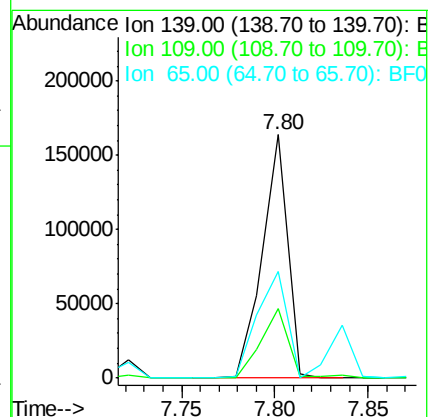
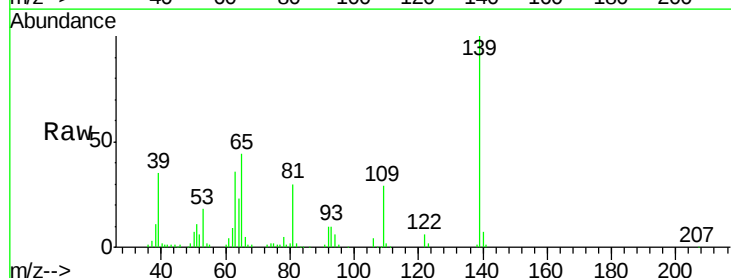
Tgt Ion: 139 Resp: 152984

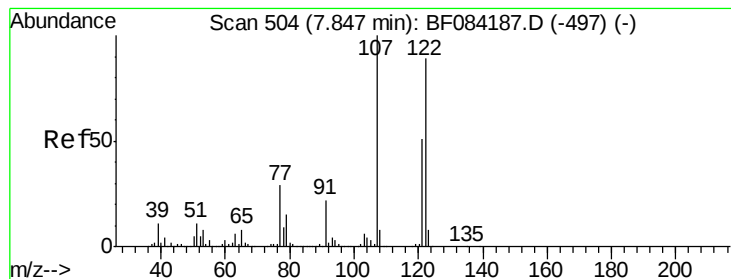
Ion Ratio Lower Upper

139 100

109 28.5 25.4 38.2

65 43.6 32.3 48.5





#27

2,4-Dimethylphenol

Concen: 14.80 ng

RT: 7.84 min Scan# 503

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

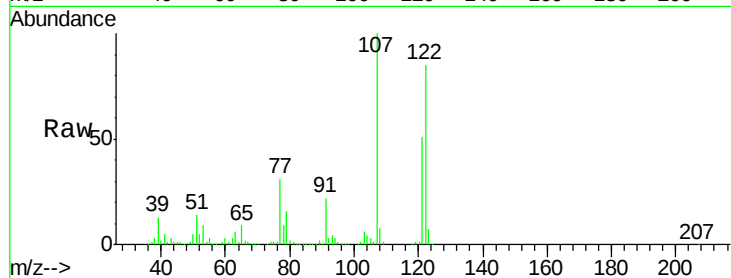
Tgt Ion:122 Resp: 310372

Ion Ratio Lower Upper

122 100

107 117.2 99.1 148.7

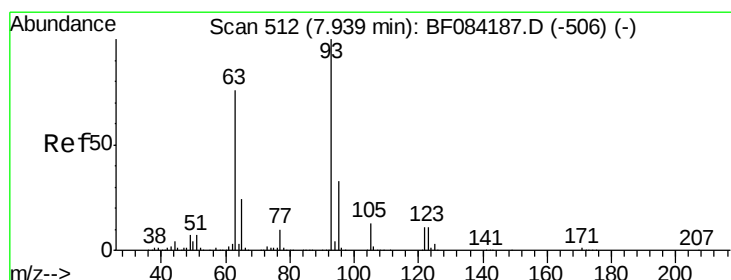
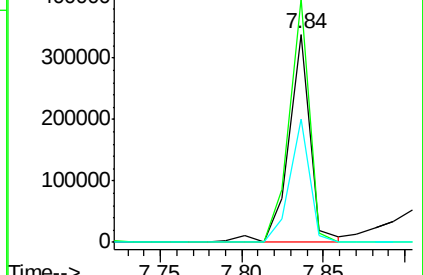
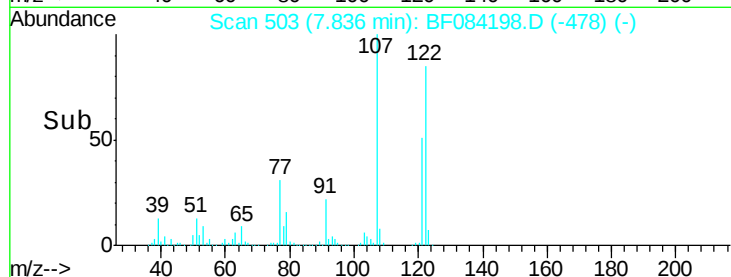
121 59.4 47.9 71.9



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#28

bis(2-Chloroethoxy)methane

Concen: 15.55 ng

RT: 7.94 min Scan# 512

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

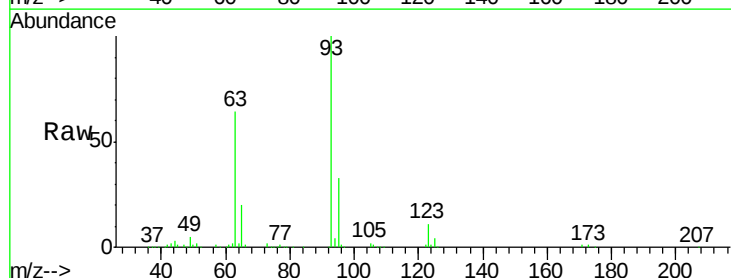
Tgt Ion: 93 Resp: 407712

Ion Ratio Lower Upper

93 100

95 33.1 25.8 38.6

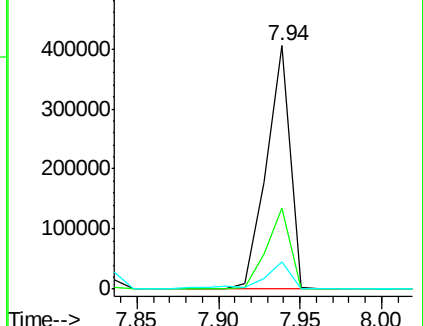
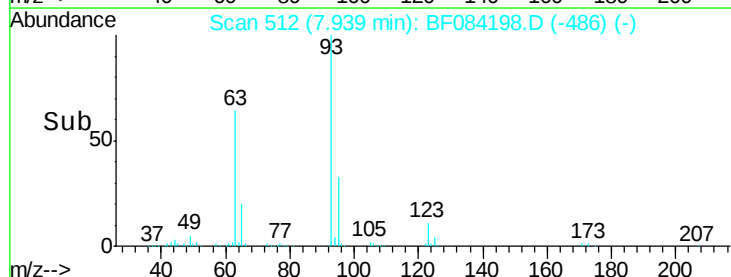
123 11.0 8.6 12.8

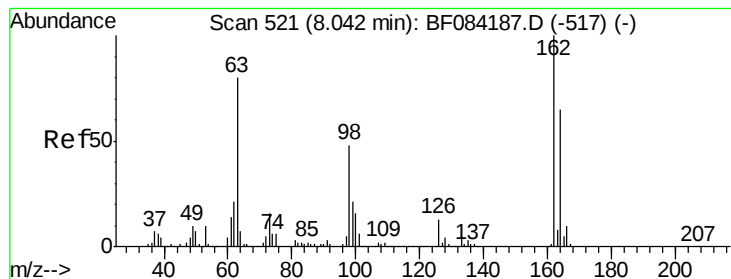


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 123.00 (122.70 to 123.70): E





#29

2,4-Dichlorophenol

Concen: 15.17 ng

RT: 8.04 min Scan# 521

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

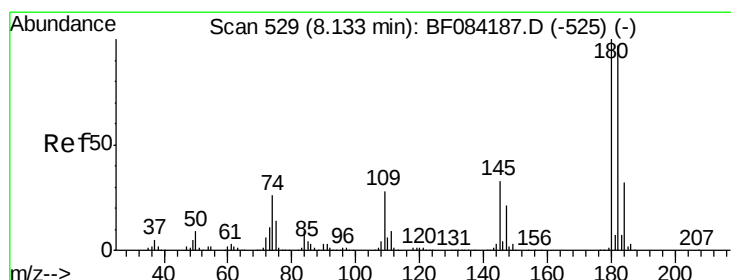
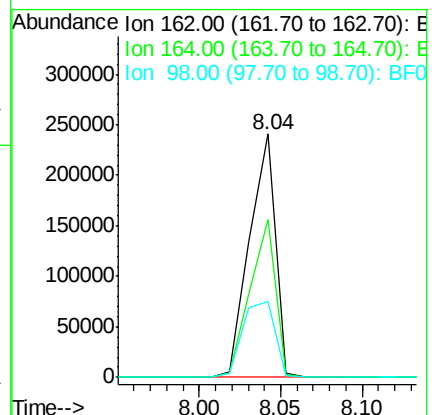
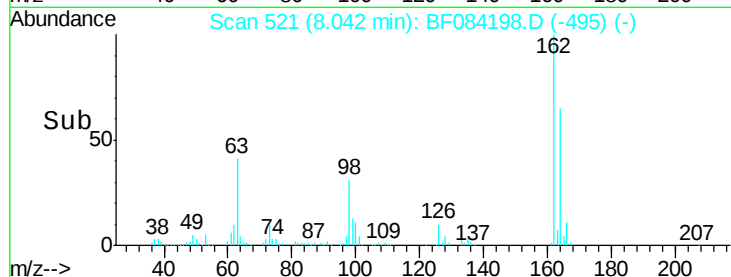
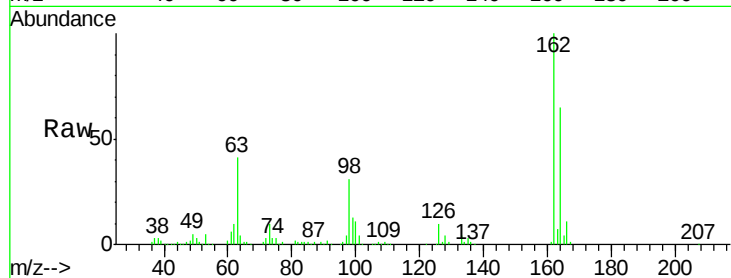
Tgt Ion:162 Resp: 265006

Ion Ratio Lower Upper

162 100

164 64.7 44.1 84.1

98 31.4 20.2 60.2



#30

1,2,4-Trichlorobenzene

Concen: 14.96 ng

RT: 8.12 min Scan# 528

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

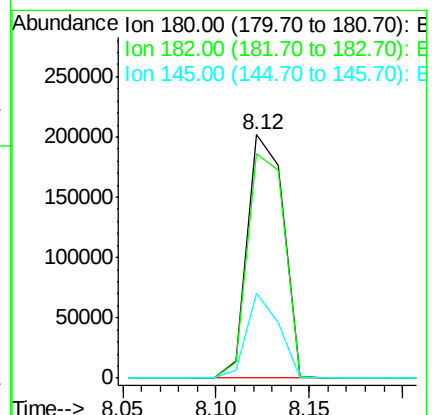
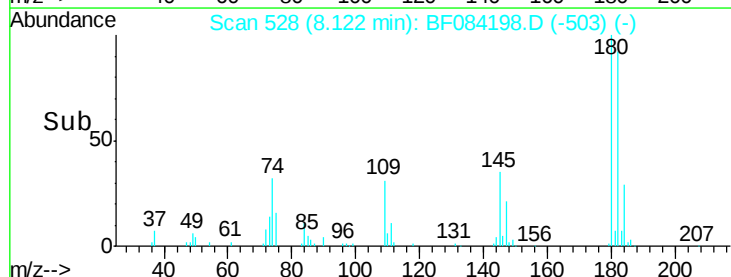
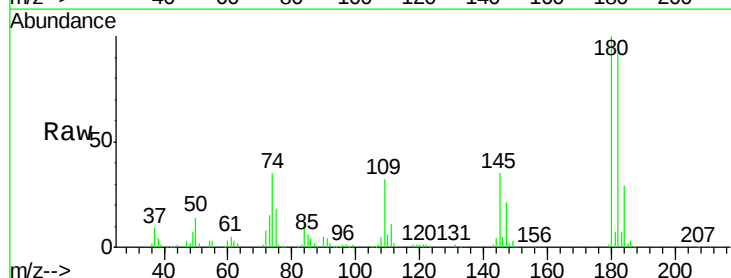
Tgt Ion:180 Resp: 269726

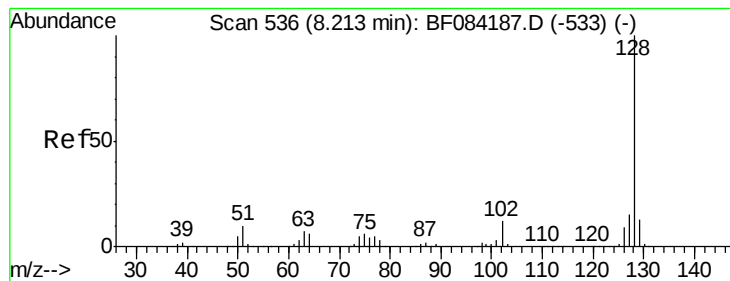
Ion Ratio Lower Upper

180 100

182 92.2 76.4 114.6

145 34.7 31.6 47.4





#31

Naphthalene

Concen: 15.41 ng

RT: 8.20 min Scan# 535

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

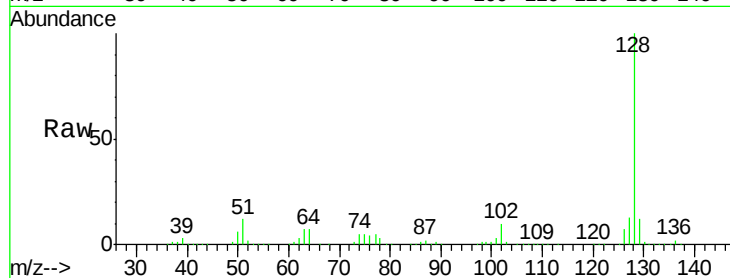
Tgt Ion:128 Resp: 873009

Ion Ratio Lower Upper

128 100

129 12.0 9.1 13.7

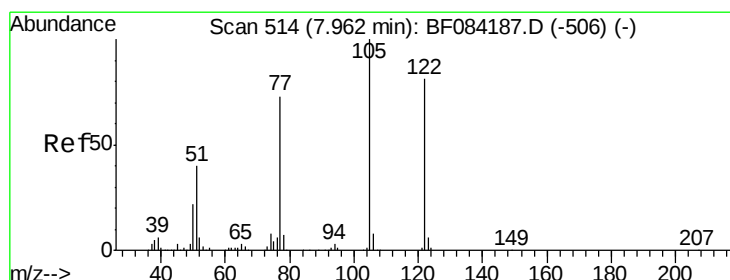
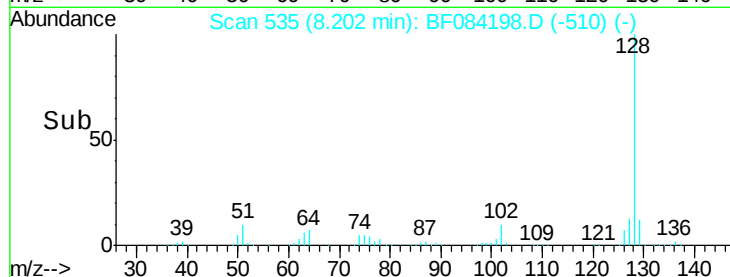
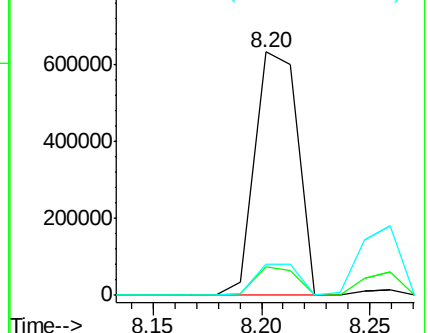
127 13.0 11.1 16.7



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 13.69 ng

RT: 7.90 min Scan# 509

Delta R.T. -0.06 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

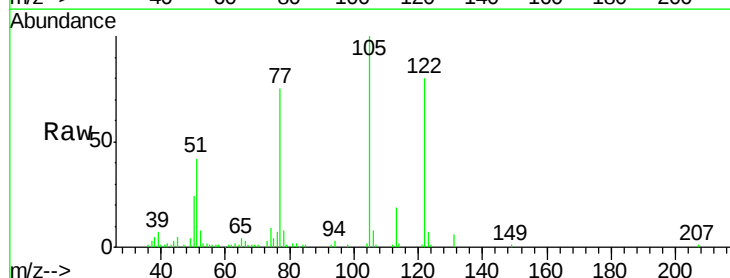
Tgt Ion:122 Resp: 115427

Ion Ratio Lower Upper

122 100

105 125.5 100.3 140.3

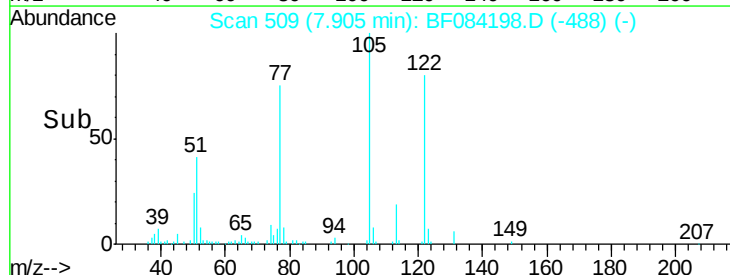
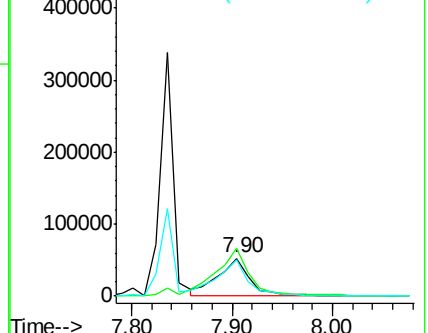
77 94.0 63.5 103.5

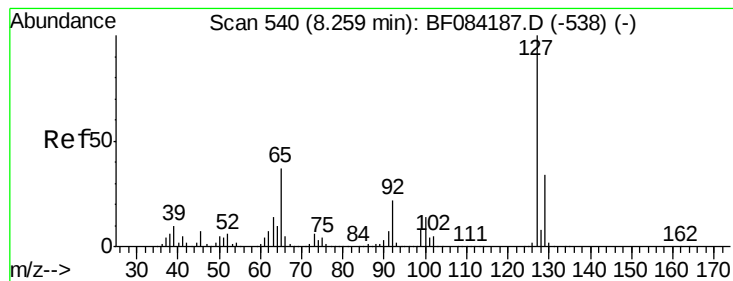


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0





#33

4-Chloroaniline

Concen: 8.88 ng

RT: 8.26 min Scan# 540

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

Tgt Ion:127 Resp: 230652

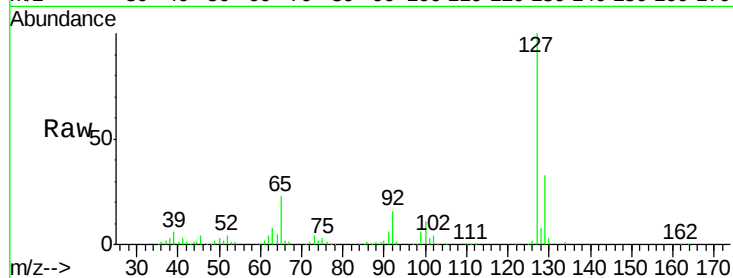
Ion Ratio Lower Upper

127 100

129 33.3 26.5 39.7

65 23.3 27.2 40.8#

92 15.6 17.7 26.5#

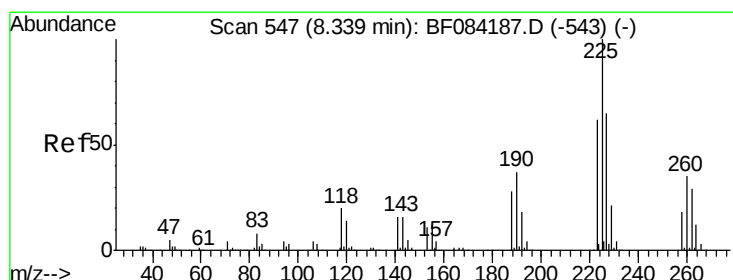
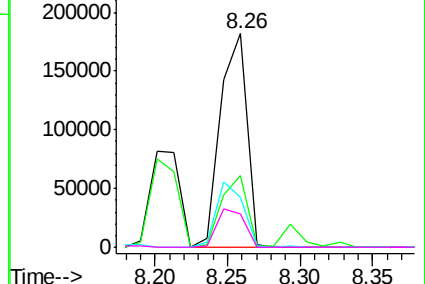
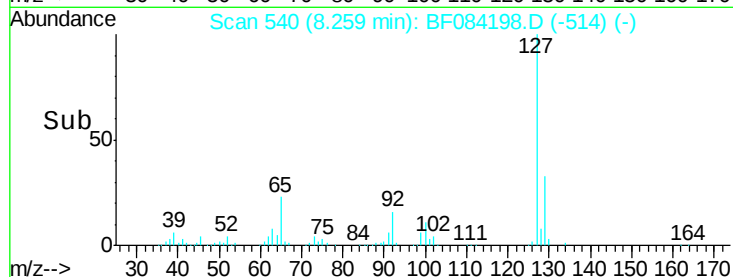


Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0



#34

Hexachlorobutadiene

Concen: 14.15 ng

RT: 8.33 min Scan# 546

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

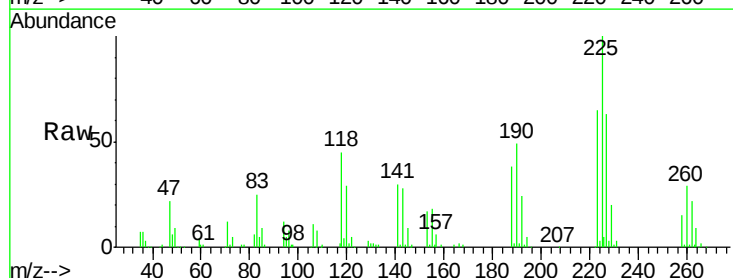
Tgt Ion:225 Resp: 146657

Ion Ratio Lower Upper

225 100

223 65.3 49.4 74.0

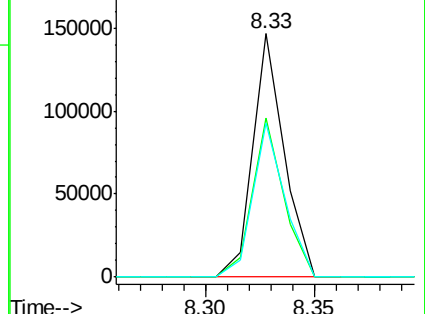
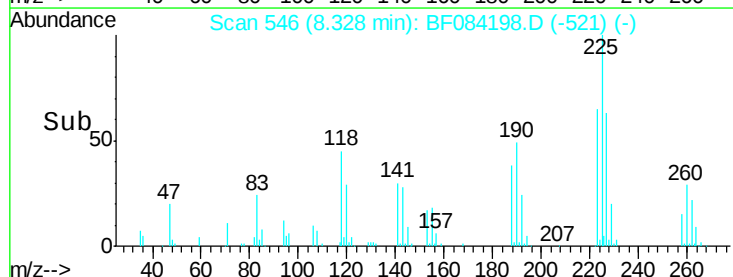
227 63.4 50.8 76.2

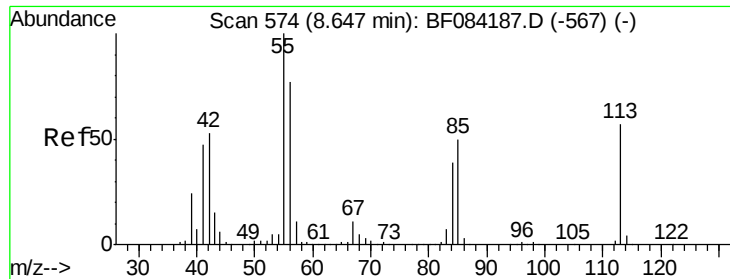


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

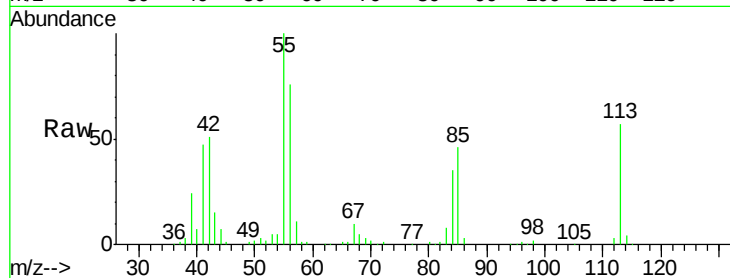




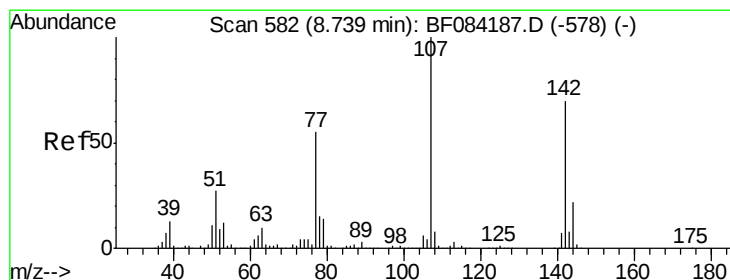
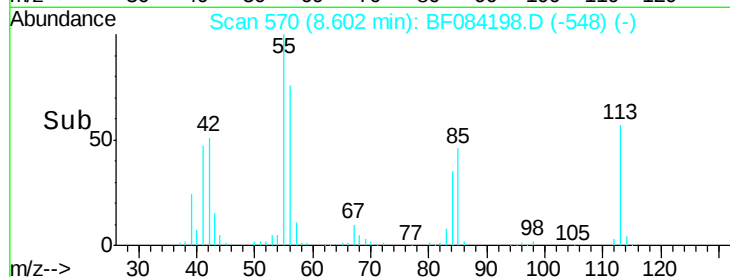
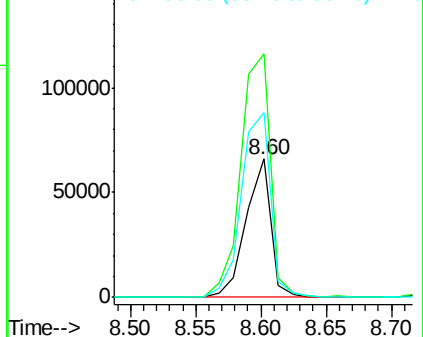
#35
 Caprolactam
 Concen: 14.78 ng
 RT: 8.60 min Scan# 570
 Delta R.T. -0.05 min
 Lab File: BF084198.D
 Acq: 31 Dec 2015 16:48

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016-02

Tgt Ion:113 Resp: 87029
 Ion Ratio Lower Upper
 113 100
 55 176.1 116.9 156.9#
 56 133.8 93.8 133.8

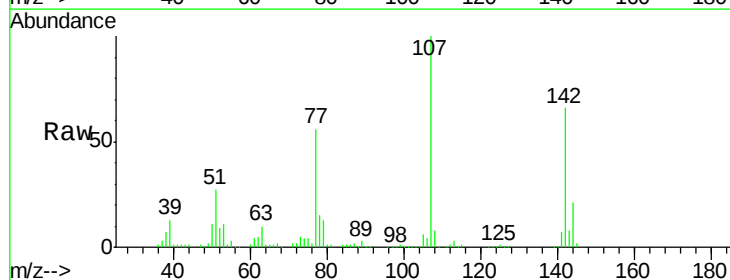


Abundance Ion 113.00 (112.70 to 113.70): E
 Ion 55.00 (54.70 to 55.70): BF0
 Ion 56.00 (55.70 to 56.70): BF0

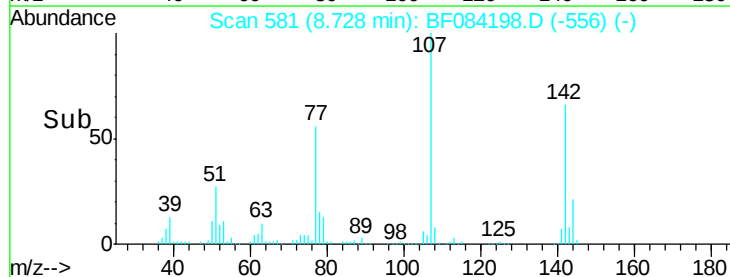
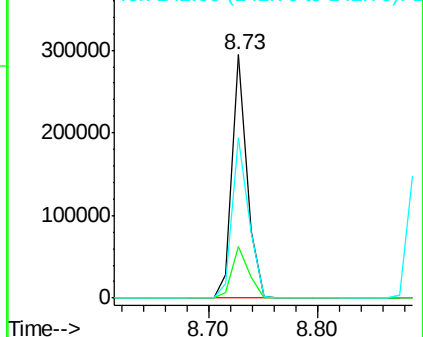


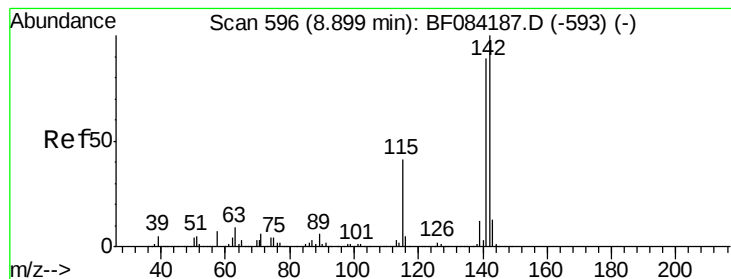
#36
 4-Chloro-3-methylphenol
 Concen: 14.40 ng
 RT: 8.73 min Scan# 581
 Delta R.T. -0.01 min
 Lab File: BF084198.D
 Acq: 31 Dec 2015 16:48

Tgt Ion:107 Resp: 281663
 Ion Ratio Lower Upper
 107 100
 144 21.3 19.7 29.5
 142 66.0 61.8 92.6



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





#37

2-Methylnaphthalene

Concen: 15.18 ng

RT: 8.90 min Scan# 596

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

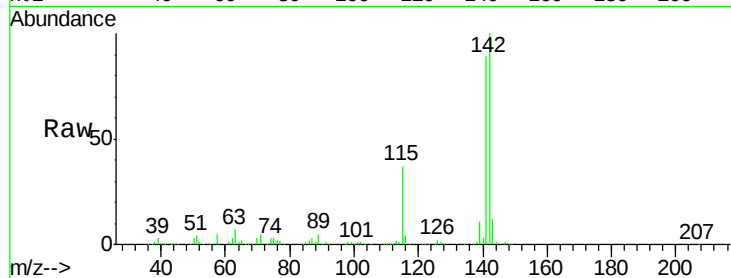
Tgt Ion:142 Resp: 617604

Ion Ratio Lower Upper

142 100

141 88.5 72.4 108.6

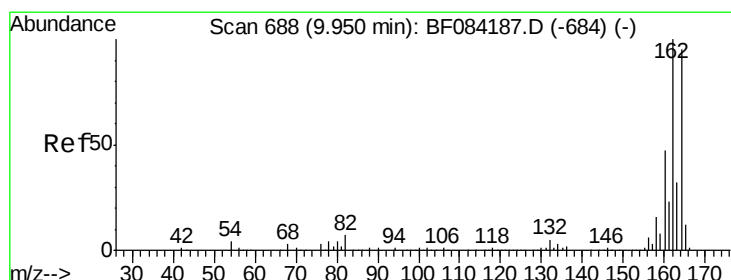
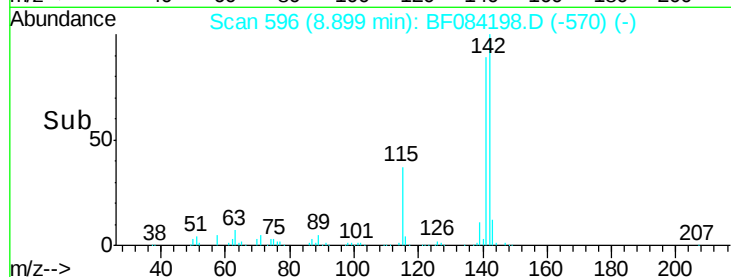
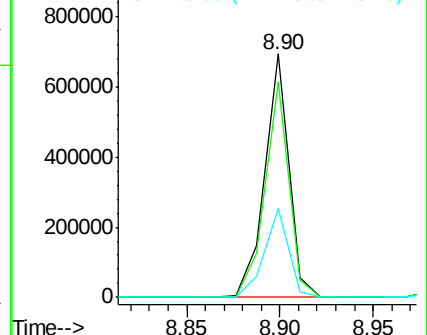
115 36.6 27.9 41.9



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: 9.94 min Scan# 687

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

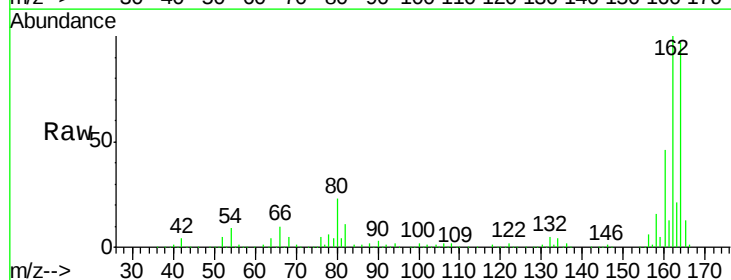
Tgt Ion:164 Resp: 557099

Ion Ratio Lower Upper

164 100

162 103.0 85.1 127.7

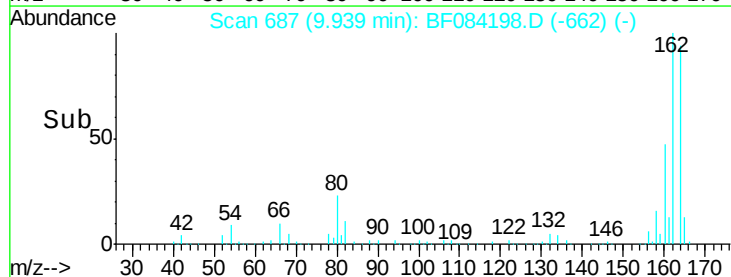
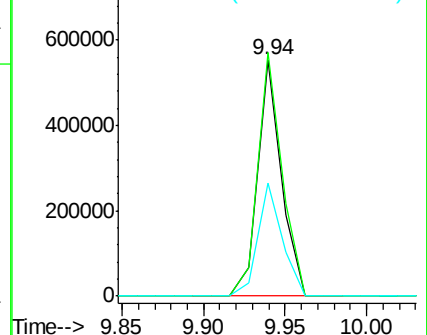
160 47.9 37.5 56.3

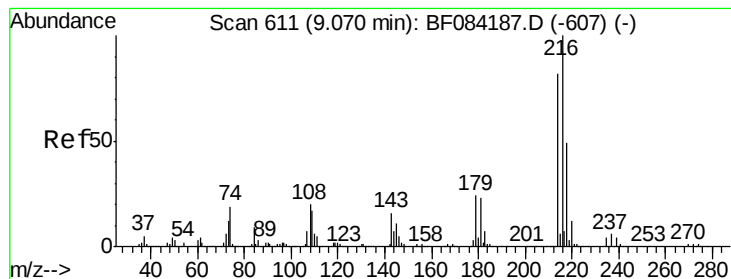


Abundance Ion 164.00 (163.70 to 164.70): E

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: 14.76 ng

RT: 9.07 min Scan# 611

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

Tgt Ion:216 Resp: 236421

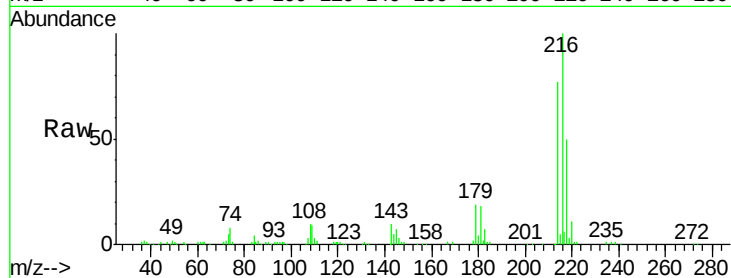
Ion Ratio Lower Upper

216 100

214 78.1 64.2 96.2

179 23.8 18.7 28.1

108 21.7 16.8 25.2

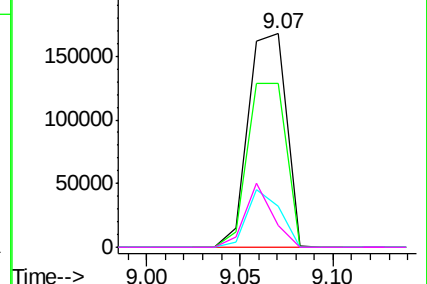
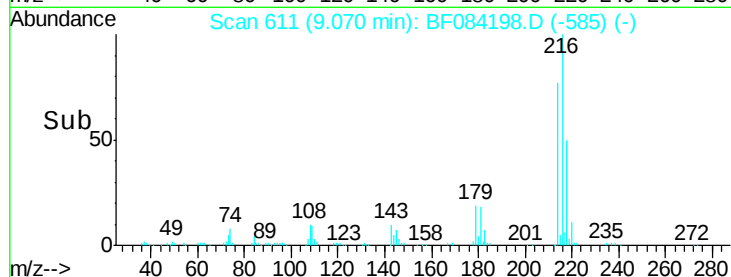


Abundance Ion 216.00 (215.70 to 216.70): E

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: 15.47 ng

RT: 9.06 min Scan# 610

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

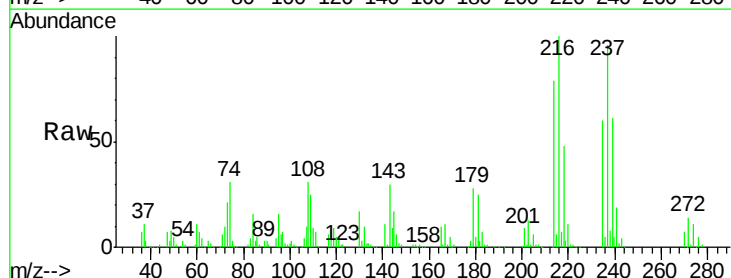
Tgt Ion:237 Resp: 149578

Ion Ratio Lower Upper

237 100

235 62.4 43.1 83.1

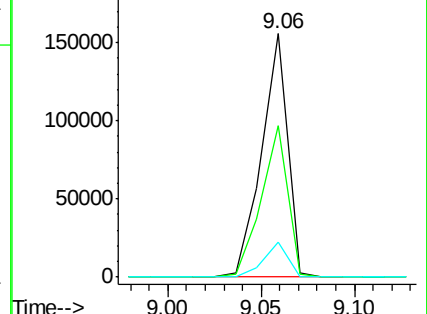
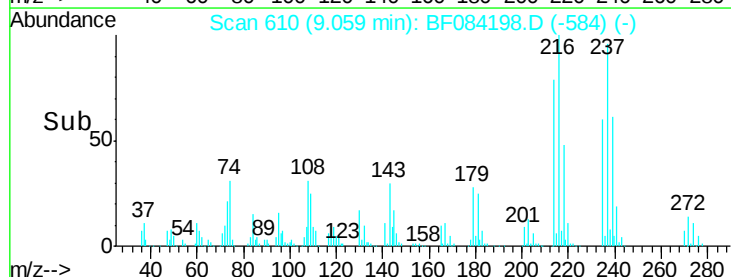
272 14.6 0.0 35.1

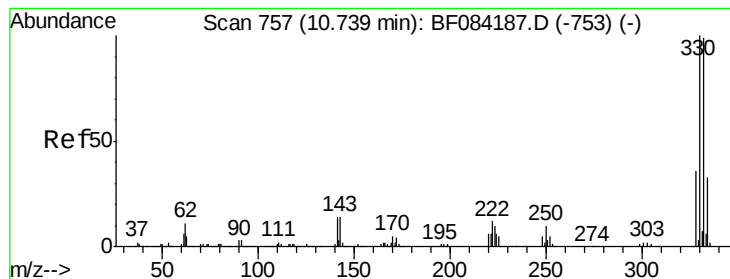


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E





#41

2,4,6-Tribromophenol

Concen: 104.44 ng

RT: 10.73 min Scan# 756

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

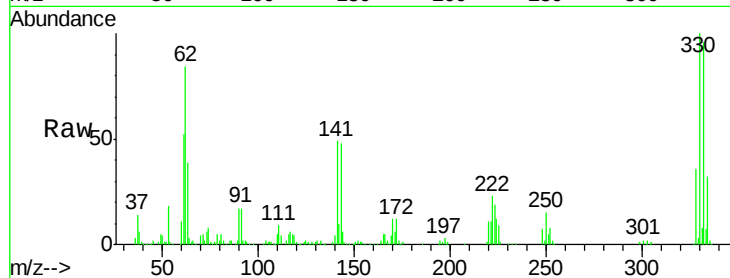
Tgt Ion:330 Resp: 587432

Ion Ratio Lower Upper

330 100

332 96.3 76.6 114.8

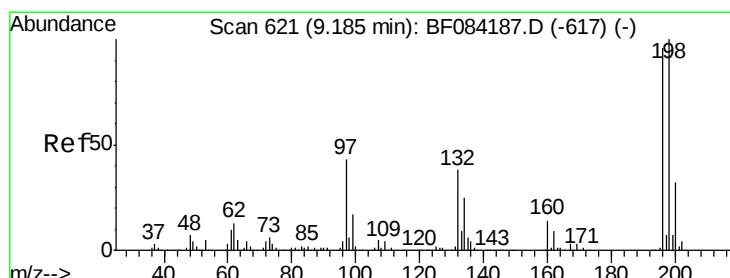
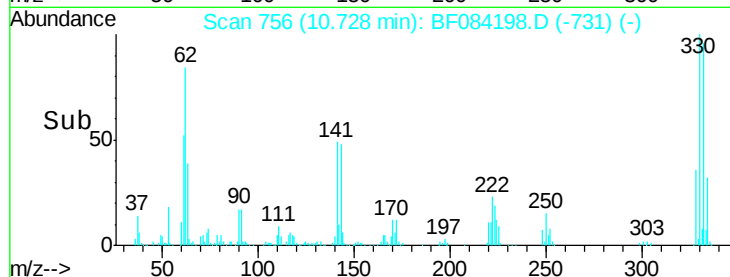
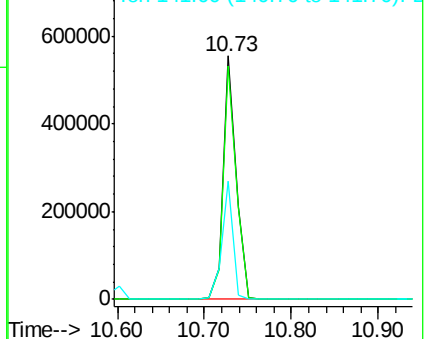
141 41.8 27.8 41.6#



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: 15.30 ng

RT: 9.17 min Scan# 620

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

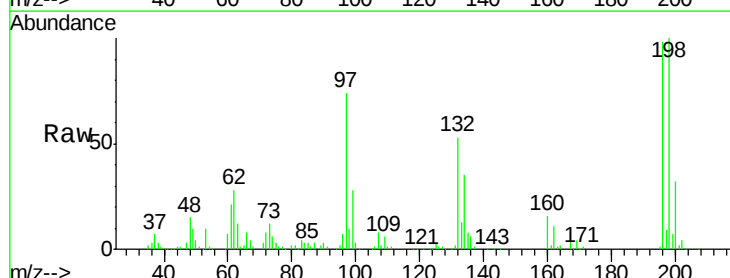
Tgt Ion:196 Resp: 183365

Ion Ratio Lower Upper

196 100

198 101.9 77.7 116.5

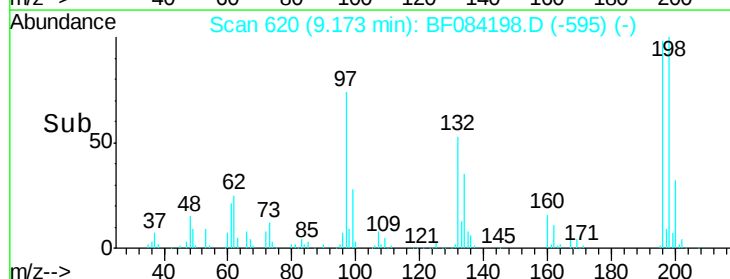
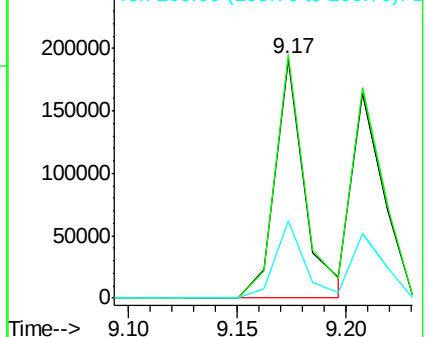
200 32.5 24.6 37.0



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

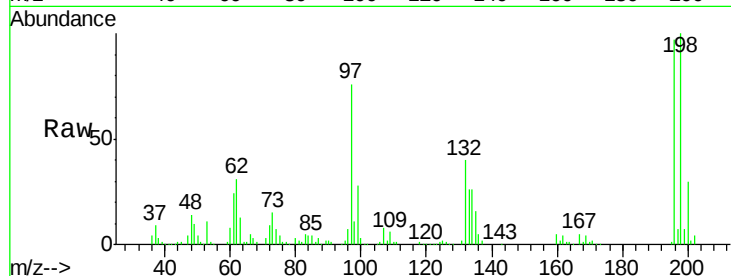




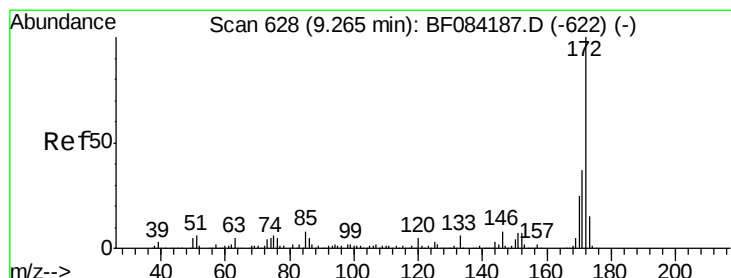
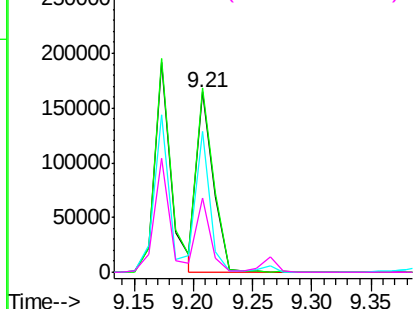
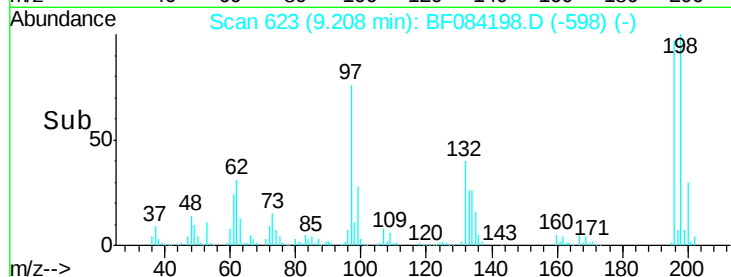
#43
 2,4,5-Trichlorophenol
 Concen: 14.36 ng
 RT: 9.21 min Scan# 623
 Delta R.T. -0.01 min
 Lab File: BF084198.D
 Acq: 31 Dec 2015 16:48

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016-02

Tgt Ion:196 Resp: 164970
 Ion Ratio Lower Upper
 196 100
 198 102.6 79.0 118.6
 97 78.3 33.0 49.6#
 132 41.0 21.1 31.7#

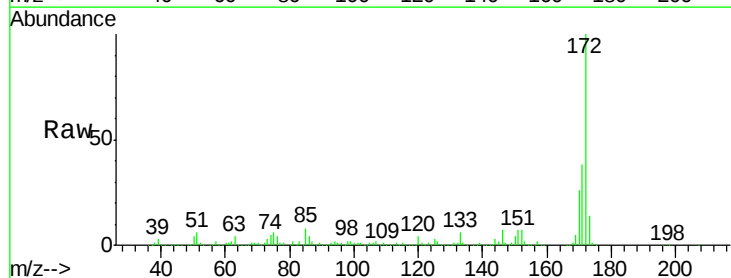


Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 97.00 (96.70 to 97.70): BF0
 Ion 132.00 (131.70 to 132.70): E

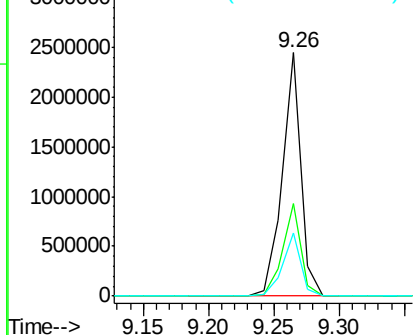
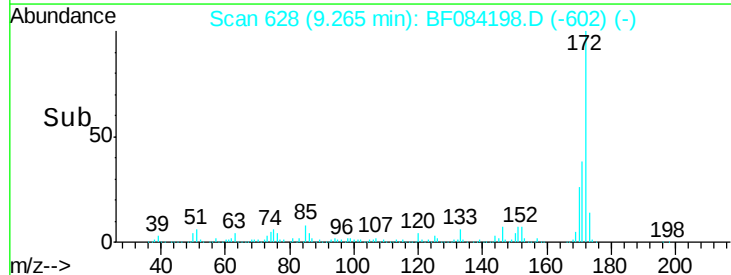


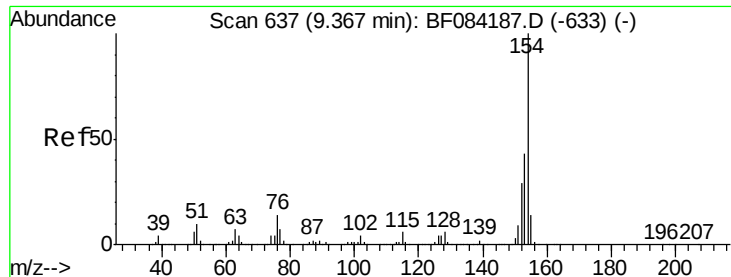
#44
 2-Fluorobiphenyl
 Concen: 76.71 ng
 RT: 9.26 min Scan# 628
 Delta R.T. 0.00 min
 Lab File: BF084198.D
 Acq: 31 Dec 2015 16:48

Tgt Ion:172 Resp: 2448838
 Ion Ratio Lower Upper
 172 100
 171 38.1 28.9 43.3
 170 26.0 18.6 27.8



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





#45

1,1'-Biphenyl

Concen: 16.86 ng

RT: 9.37 min Scan# 637

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

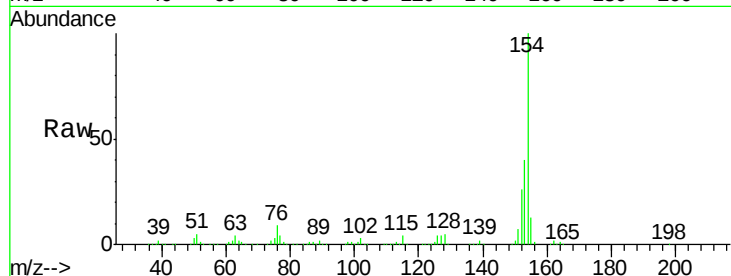
Tgt Ion:154 Resp: 746455

Ion Ratio Lower Upper

154 100

153 39.6 21.6 61.6

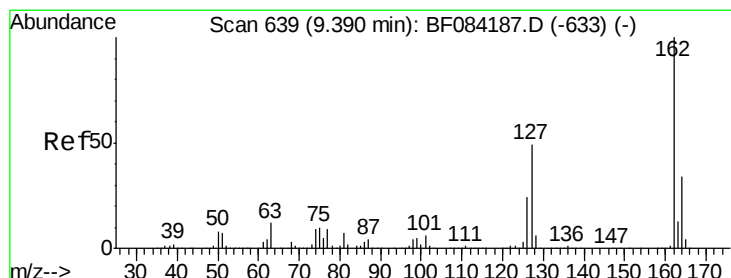
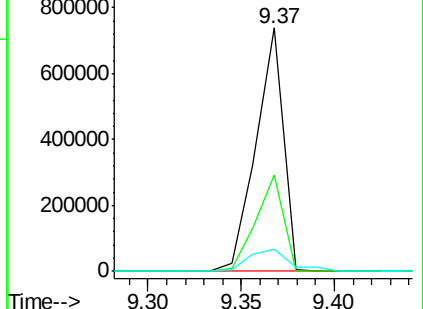
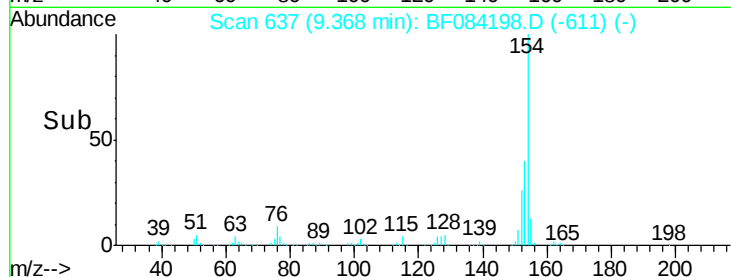
76 9.1 0.0 32.7



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: 16.45 ng

RT: 9.39 min Scan# 639

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

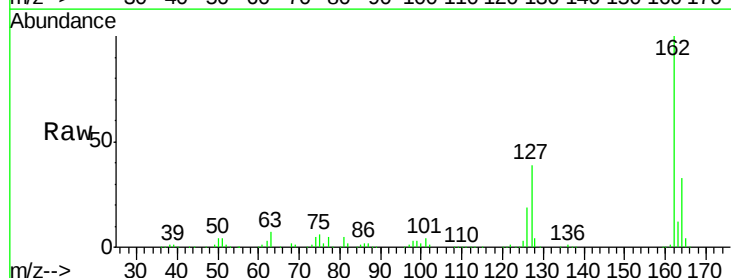
Tgt Ion:162 Resp: 572266

Ion Ratio Lower Upper

162 100

127 38.8 40.2 60.4#

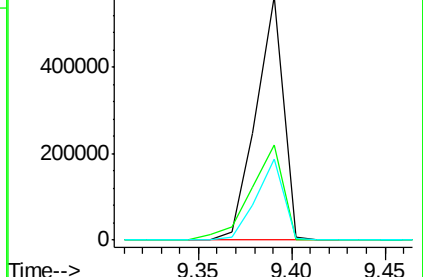
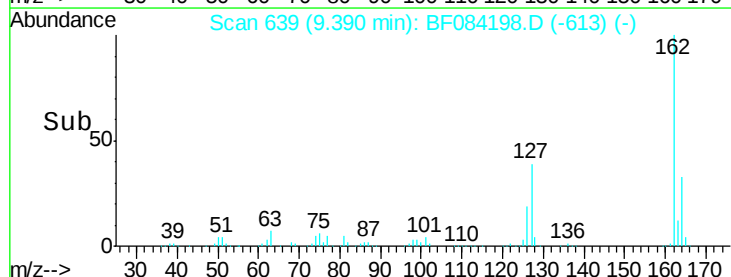
164 33.4 25.7 38.5

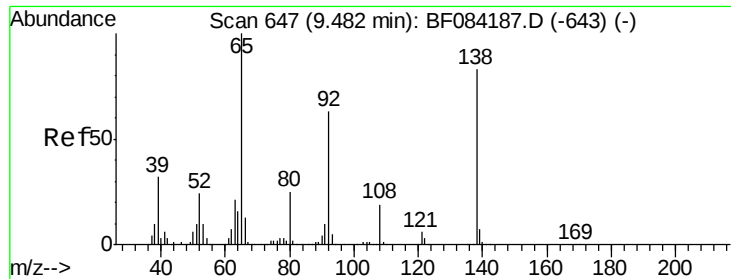


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E

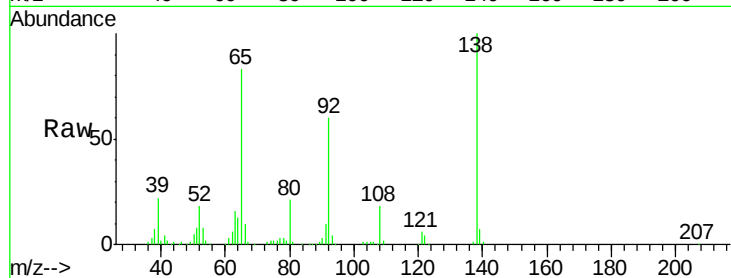




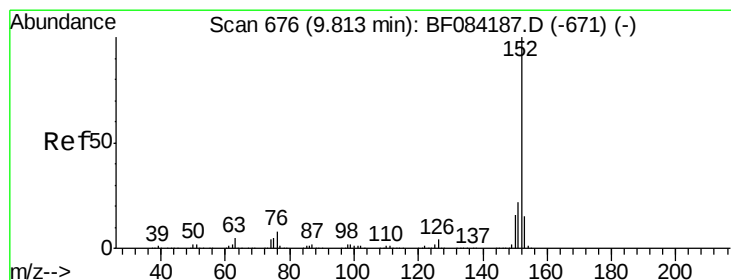
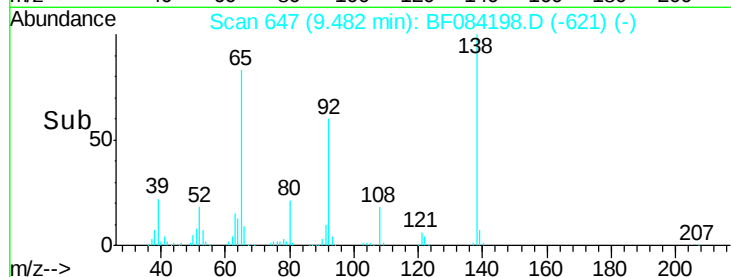
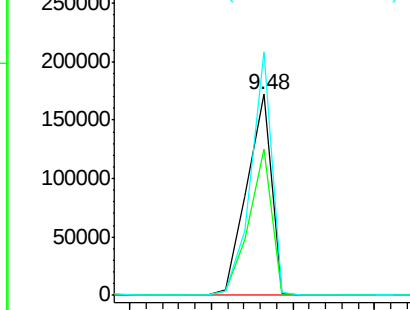
#47
2-Nitroaniline
Concen: 15.74 ng
RT: 9.48 min Scan# 647
Delta R.T. 0.00 min
Lab File: BF084198.D
Acq: 31 Dec 2015 16:48

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Tgt Ion: 65 Resp: 180679
Ion Ratio Lower Upper
65 100
92 72.8 53.4 80.2
138 121.0 71.1 106.7#

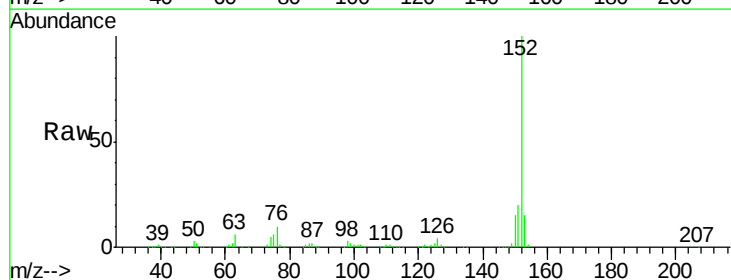


Abundance Ion 65.00 (64.70 to 65.70): BF0
Ion 92.00 (91.70 to 92.70): BF0
Ion 138.00 (137.70 to 138.70): E

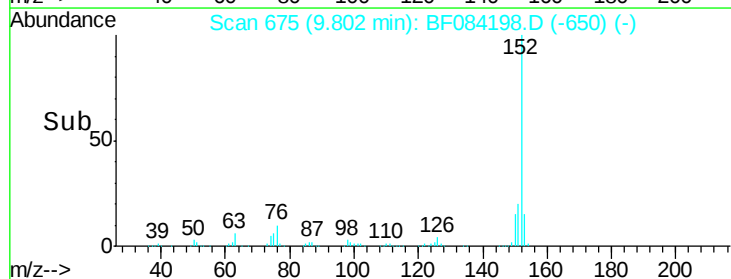
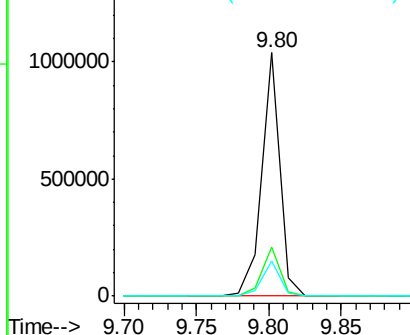


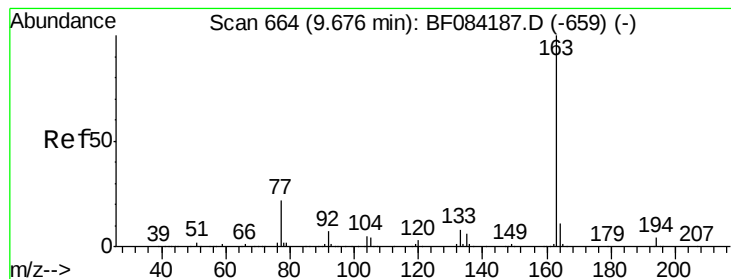
#48
Acenaphthylene
Concen: 17.46 ng
RT: 9.80 min Scan# 675
Delta R.T. -0.01 min
Lab File: BF084198.D
Acq: 31 Dec 2015 16:48

Tgt Ion: 152 Resp: 896964
Ion Ratio Lower Upper
152 100
151 20.3 16.3 24.5
153 14.6 10.4 15.6



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





#49

Dimethylphthalate

Concen: 17.62 ng

RT: 9.66 min Scan# 663

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

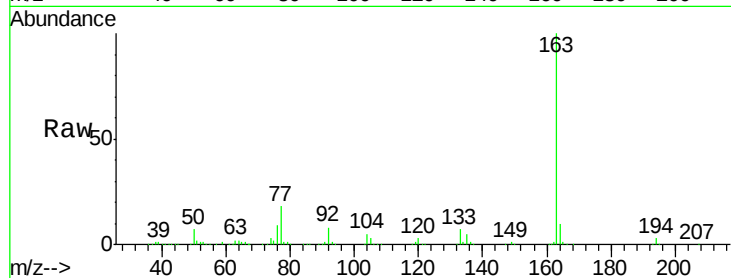
Tgt Ion:163 Resp: 701859

Ion Ratio Lower Upper

163 100

194 3.4 8.0 12.0#

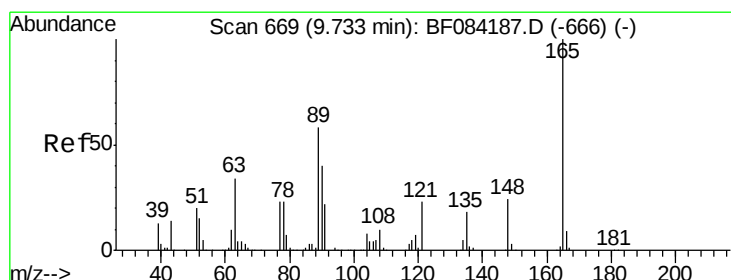
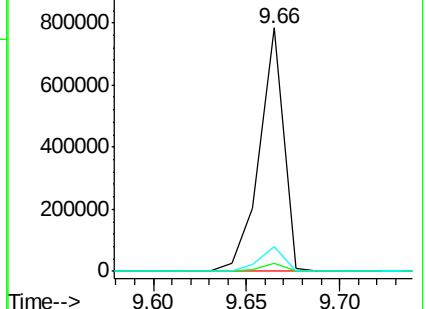
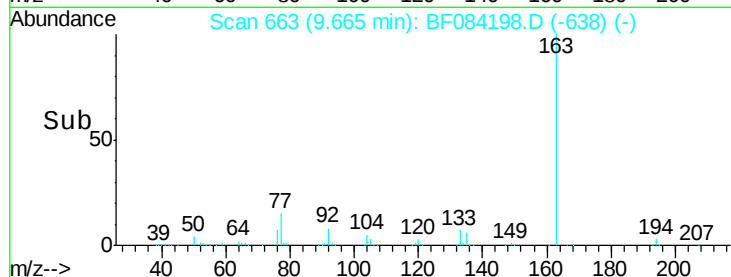
164 10.1 8.0 12.0



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: 16.96 ng

RT: 9.72 min Scan# 668

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

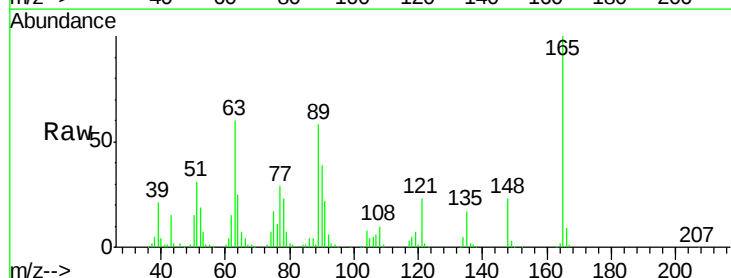
Tgt Ion:165 Resp: 148133

Ion Ratio Lower Upper

165 100

63 59.8 28.8 43.2#

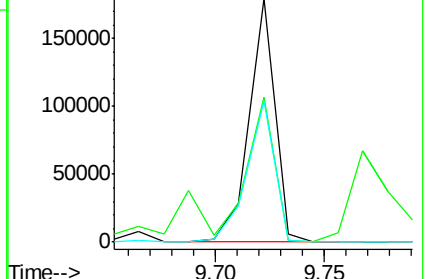
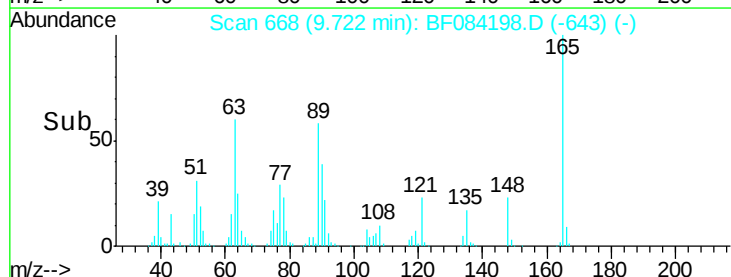
89 58.0 35.1 52.7#

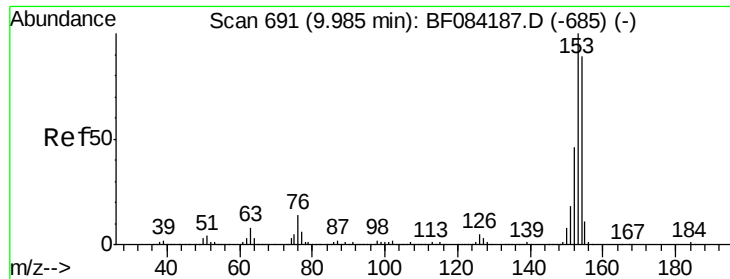


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 16.46 ng

RT: 9.97 min Scan# 690

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

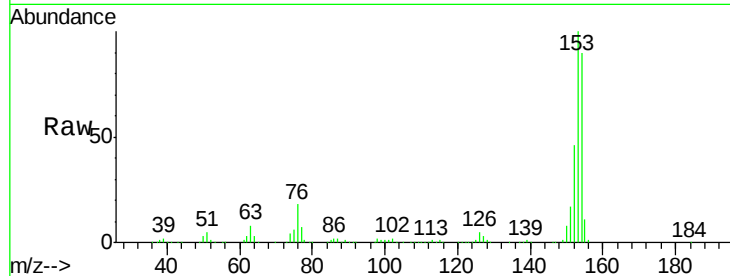
Tgt Ion:154 Resp: 567268

Ion Ratio Lower Upper

154 100

153 111.0 91.5 137.3

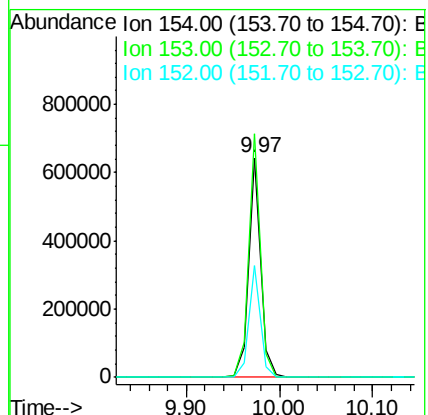
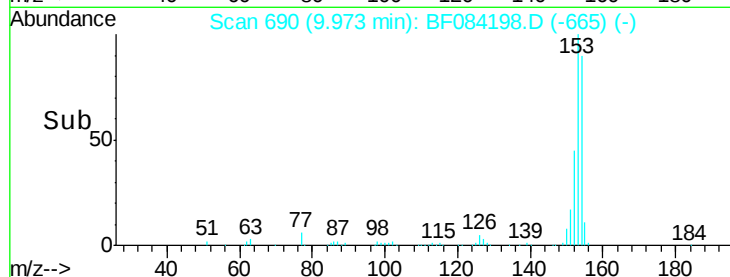
152 50.9 43.0 64.6



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: 10.58 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.02 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

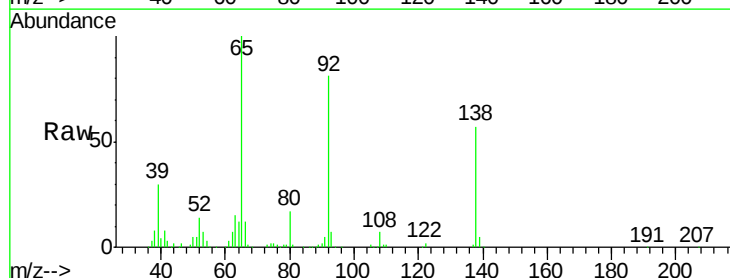
Tgt Ion:138 Resp: 114542

Ion Ratio Lower Upper

138 100

108 12.3 10.5 15.7

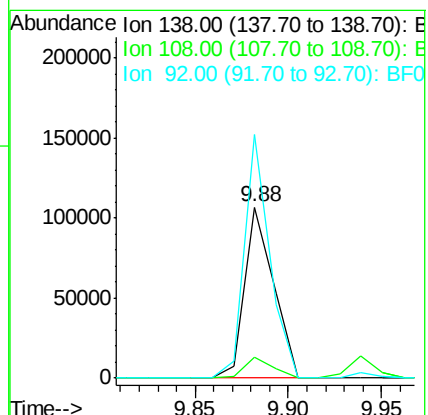
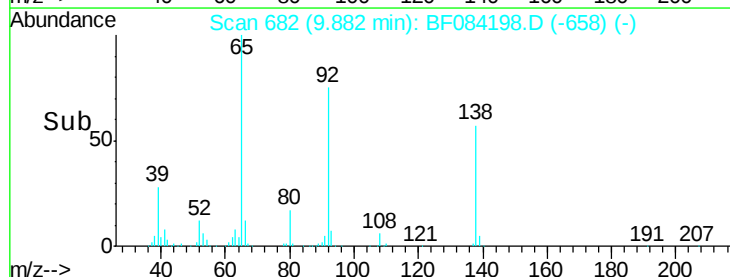
92 142.7 103.9 155.9

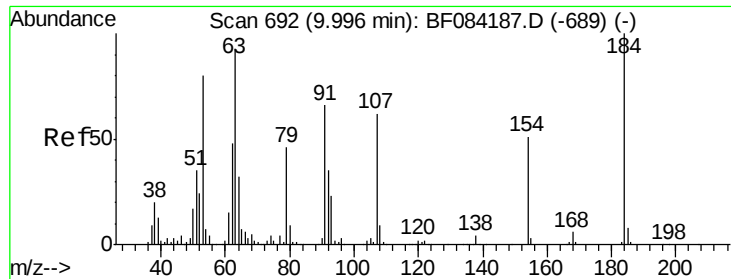


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0

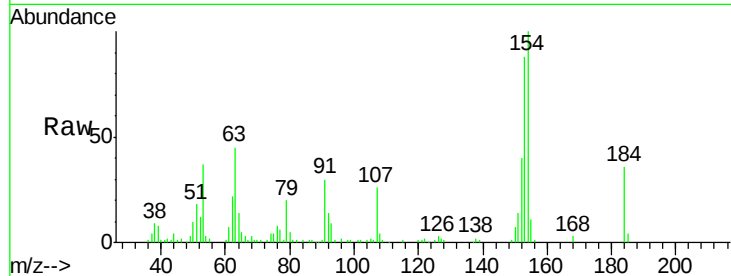




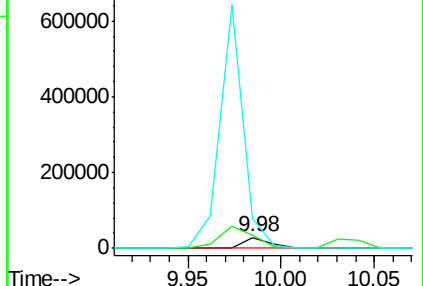
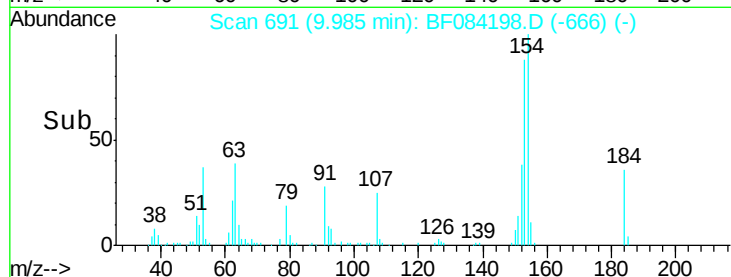
#53
2,4-Dinitrophenol
Concen: 11.01 ng
RT: 9.98 min Scan# 691
Delta R.T. -0.01 min
Lab File: BF084198.D
Acq: 31 Dec 2015 16:48

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Tgt Ion:184 Resp: 29034
Ion Ratio Lower Upper
184 100
63 126.6 43.1 64.7#
154 280.8 60.5 90.7#

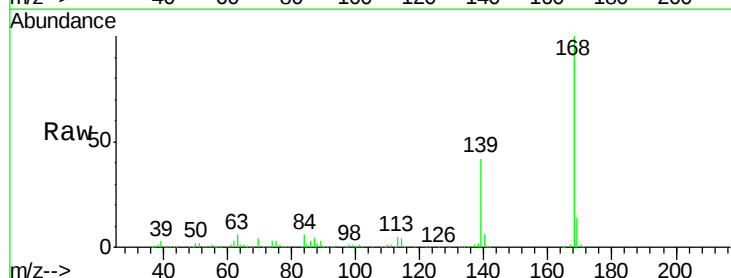


Abundance Ion 184.00 (183.70 to 184.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 154.00 (153.70 to 154.70): E

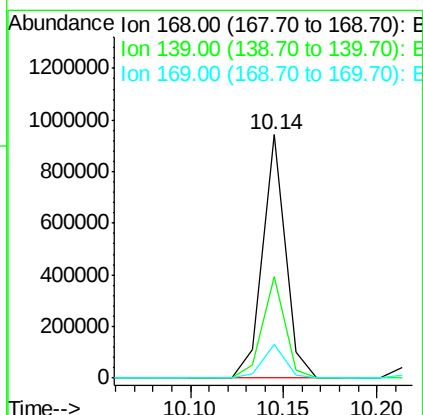
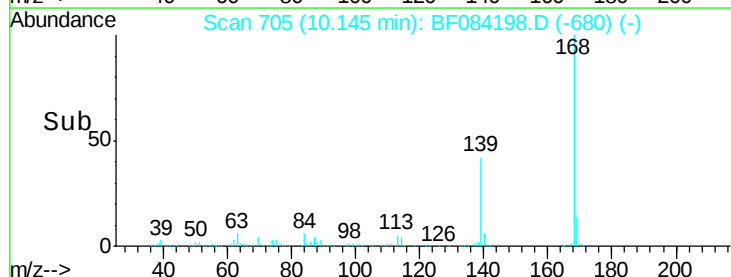


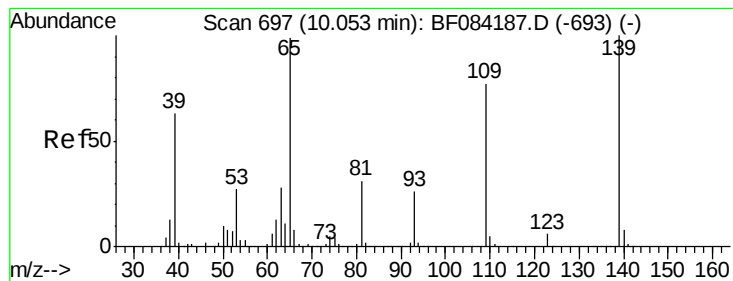
#54
Dibenzofuran
Concen: 15.92 ng
RT: 10.14 min Scan# 705
Delta R.T. -0.01 min
Lab File: BF084198.D
Acq: 31 Dec 2015 16:48

Tgt Ion:168 Resp: 796478
Ion Ratio Lower Upper
168 100
139 41.5 30.5 45.7
169 13.9 10.4 15.6



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: 14.46 ng

RT: 10.04 min Scan# 696

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

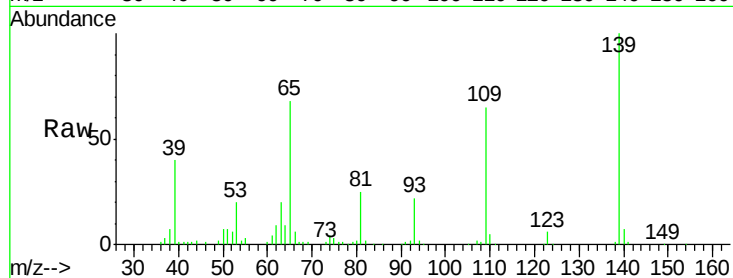
Tgt Ion:139 Resp: 113597

Ion Ratio Lower Upper

139 100

109 65.1 58.5 98.5

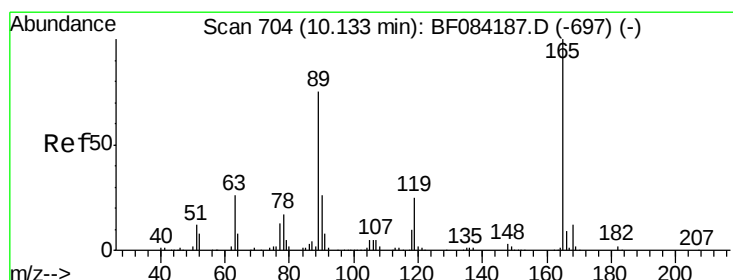
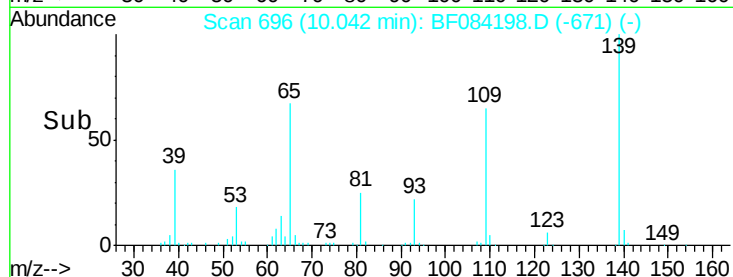
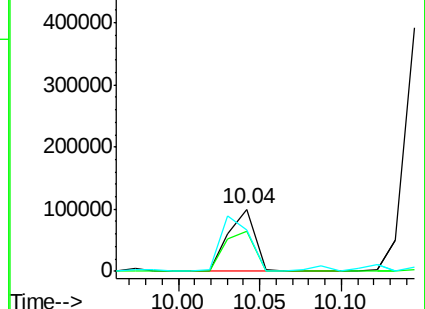
65 67.7 57.6 97.6



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#56

2,4-Dinitrotoluene

Concen: 17.82 ng

RT: 10.12 min Scan# 703

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Tgt Ion:165 Resp: 197056

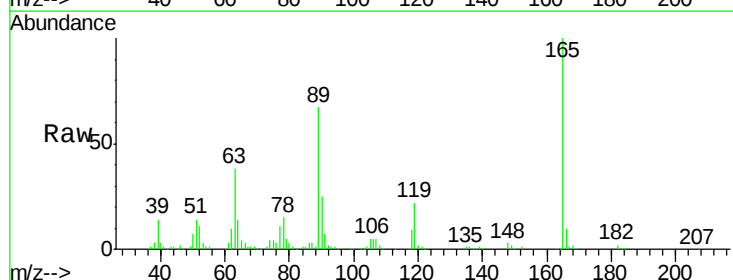
Ion Ratio Lower Upper

165 100

63 38.1 36.7 55.1

89 67.3 61.9 92.9

182 2.1 2.0 3.0

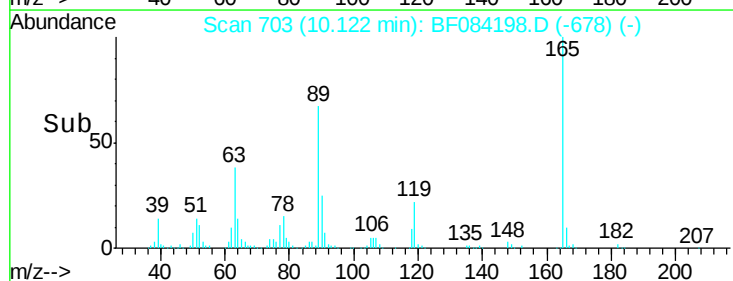
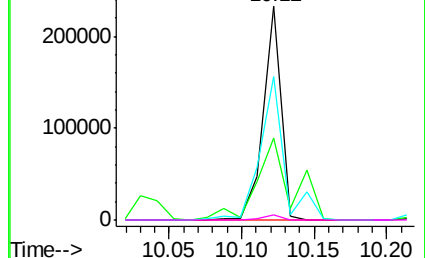


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E





#57

Fluorene

Concen: 15.97 ng

RT: 10.49 min Scan# 735

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

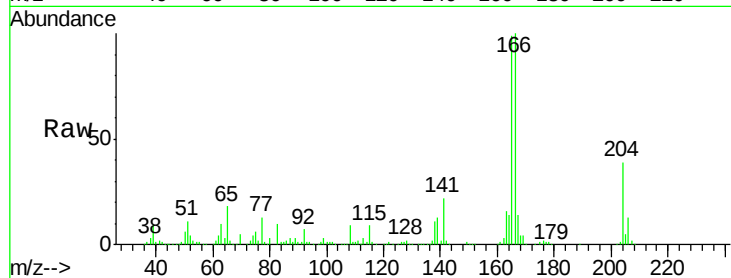
Tgt Ion:166 Resp: 604127

Ion Ratio Lower Upper

166 100

165 99.0 79.1 118.7

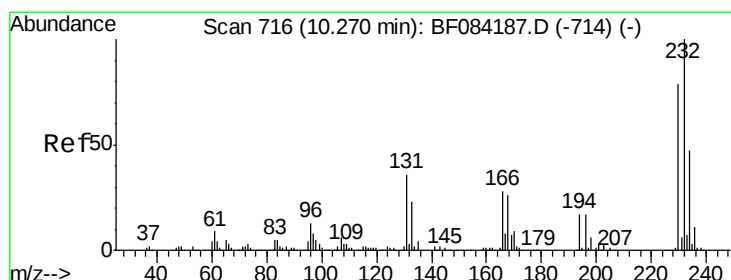
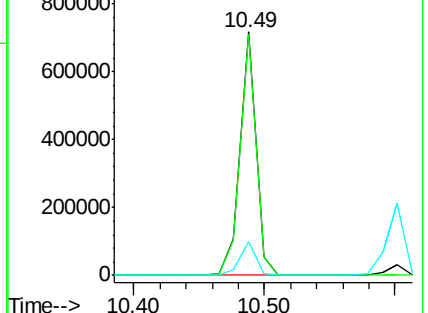
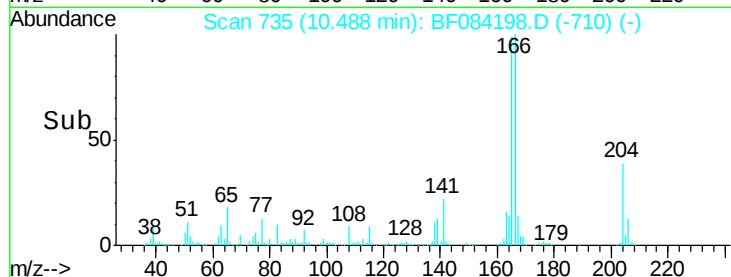
167 13.7 10.4 15.6



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#58

2,3,4,6-Tetrachlorophenol

Concen: 15.49 ng

RT: 10.26 min Scan# 715

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Tgt Ion:232 Resp: 151959

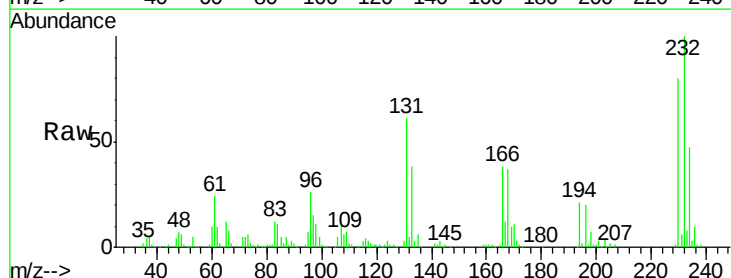
Ion Ratio Lower Upper

232 100

131 58.0 47.0 70.6

130 2.9 2.0 3.0

166 35.1 30.5 45.7

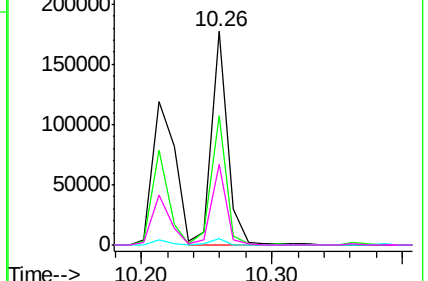
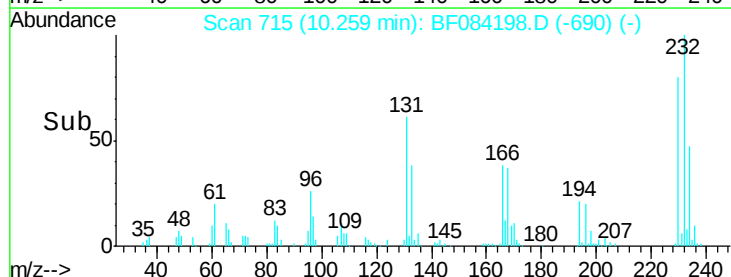


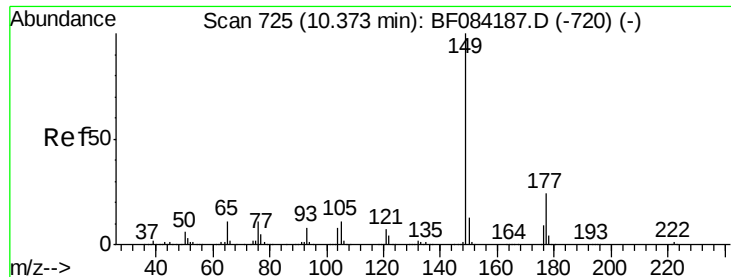
Abundance Ion 232.00 (231.70 to 232.70): E

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

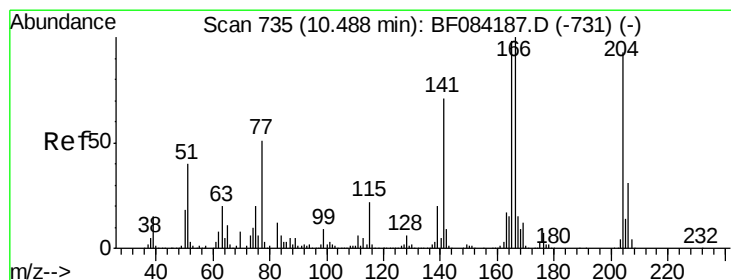
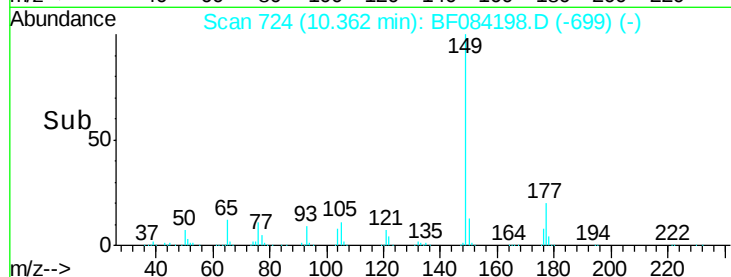
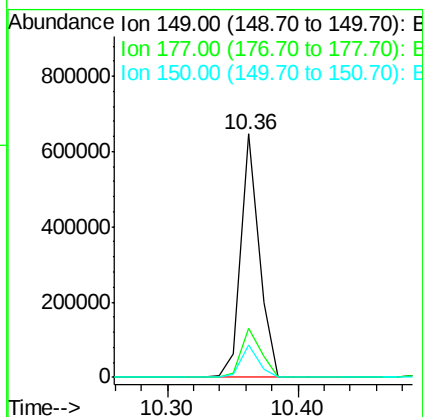
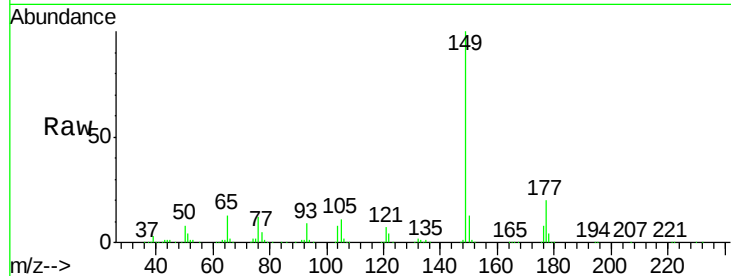




#59
Diethylphthalate
Concen: 15.95 ng
RT: 10.36 min Scan# 724
Delta R.T. -0.01 min
Lab File: BF084198.D
Acq: 31 Dec 2015 16:48

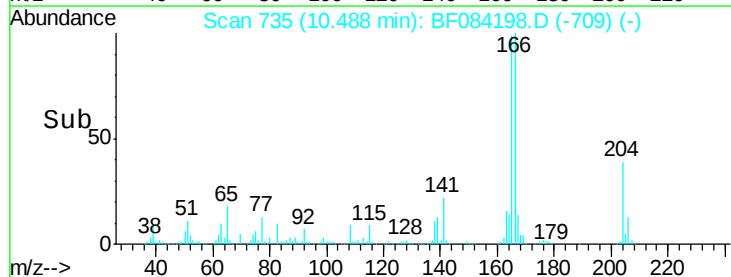
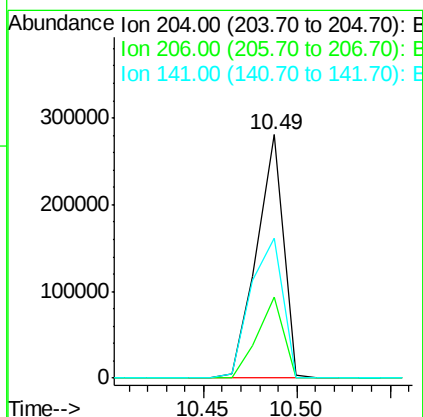
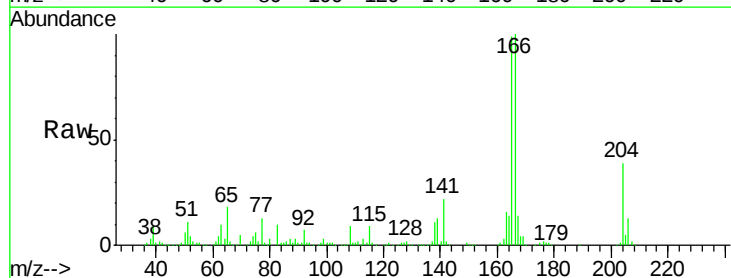
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

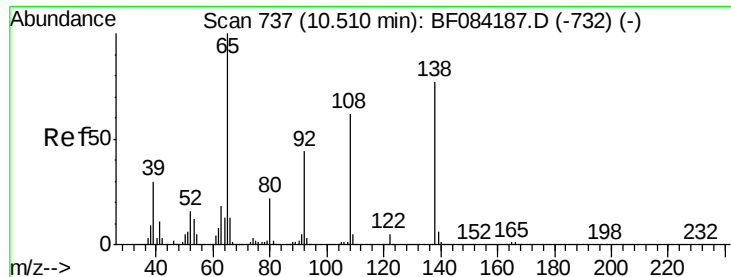
Tgt Ion:149 Resp: 626364
Ion Ratio Lower Upper
149 100
177 20.3 17.3 25.9
150 13.2 9.8 14.8



#60
4-Chlorophenyl-phenylether
Concen: 13.65 ng
RT: 10.49 min Scan# 735
Delta R.T. 0.00 min
Lab File: BF084198.D
Acq: 31 Dec 2015 16:48

Tgt Ion:204 Resp: 279100
Ion Ratio Lower Upper
204 100
206 33.2 25.7 38.5
141 57.5 55.1 82.7

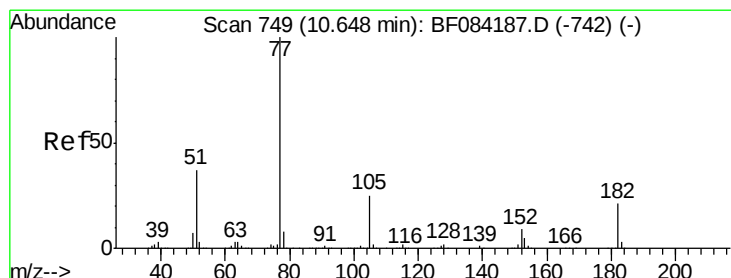
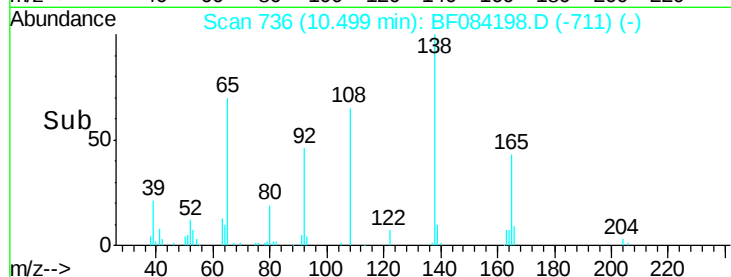
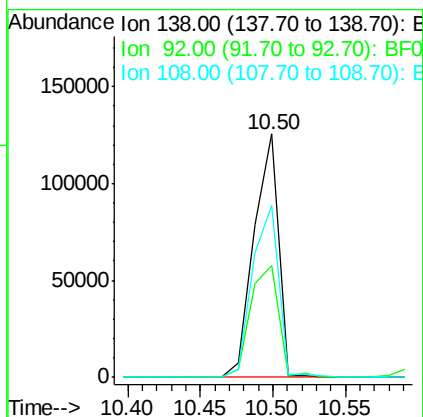
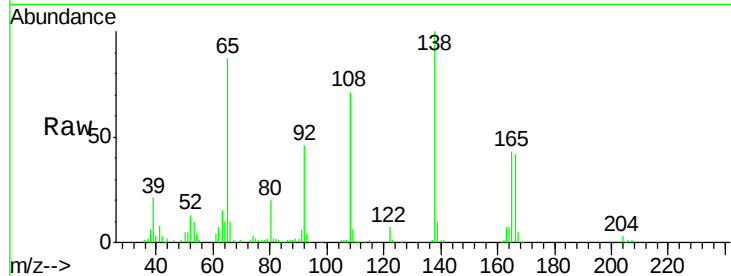




#61
4-Nitroaniline
Concen: 15.20 ng
RT: 10.50 min Scan# 736
Delta R.T. -0.01 min
Lab File: BF084198.D
Acq: 31 Dec 2015 16:48

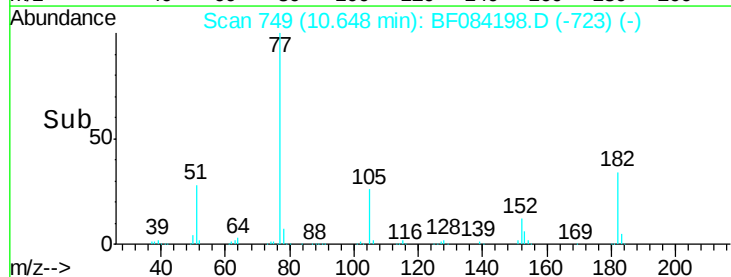
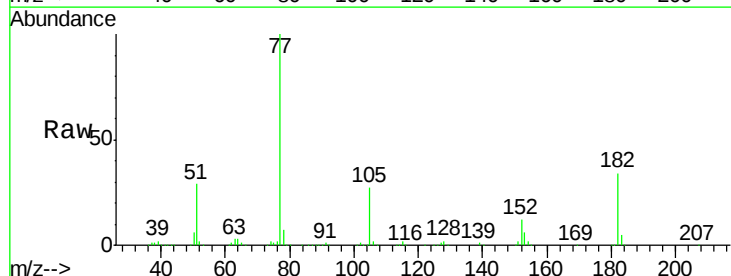
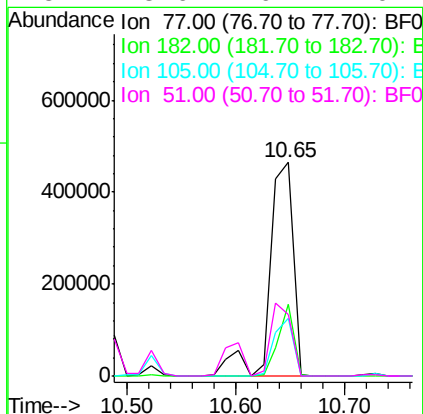
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

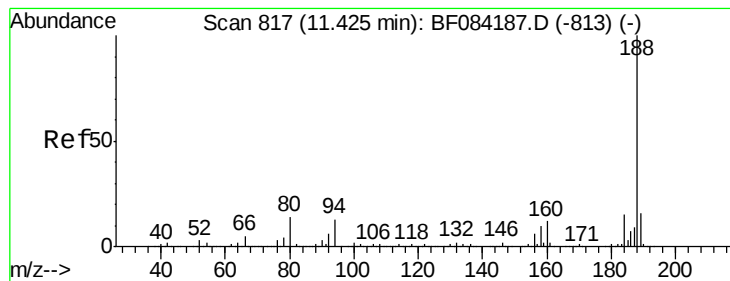
Tgt Ion:138 Resp: 146671
Ion Ratio Lower Upper
138 100
92 45.9 32.6 72.6
108 70.5 68.6 108.6



#62
Azobenzene
Concen: 16.26 ng
RT: 10.65 min Scan# 749
Delta R.T. 0.00 min
Lab File: BF084198.D
Acq: 31 Dec 2015 16:48

Tgt Ion: 77 Resp: 700159
Ion Ratio Lower Upper
77 100
182 33.9 8.3 48.3
105 27.2 4.6 44.6
51 28.6 6.2 46.2





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.42 min Scan# 817

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

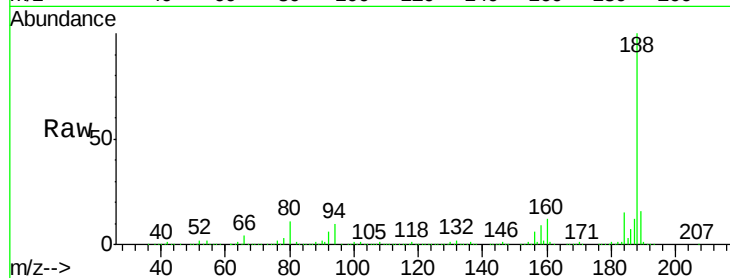
Tgt Ion:188 Resp: 1071496

Ion Ratio Lower Upper

188 100

94 10.1 9.0 13.4

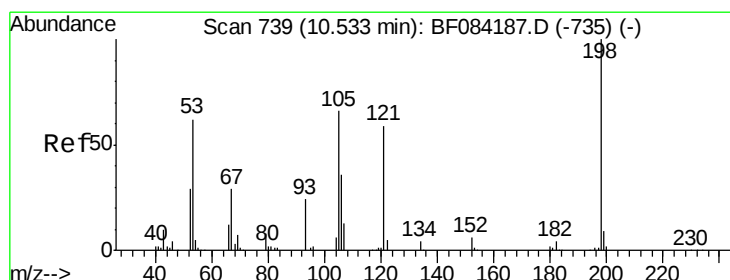
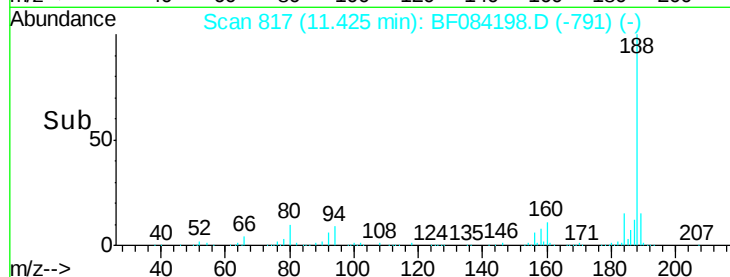
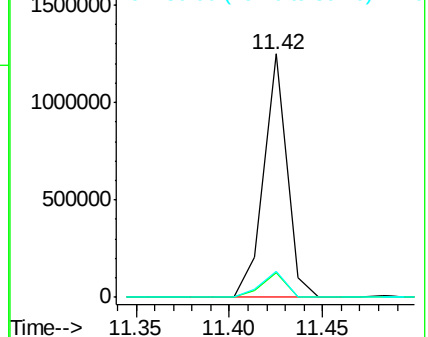
80 10.5 9.6 14.4



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#64

4,6-Dinitro-2-methylphenol

Concen: 13.38 ng

RT: 10.52 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

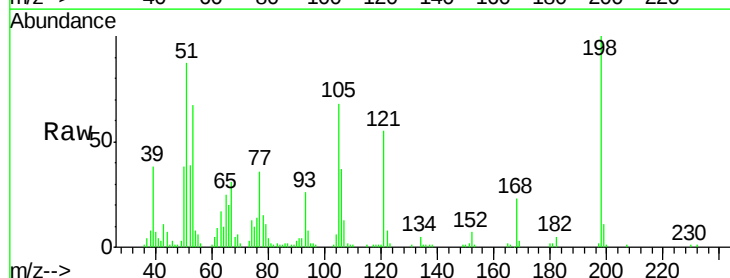
Tgt Ion:198 Resp: 61271

Ion Ratio Lower Upper

198 100

51 87.4 18.9 58.9#

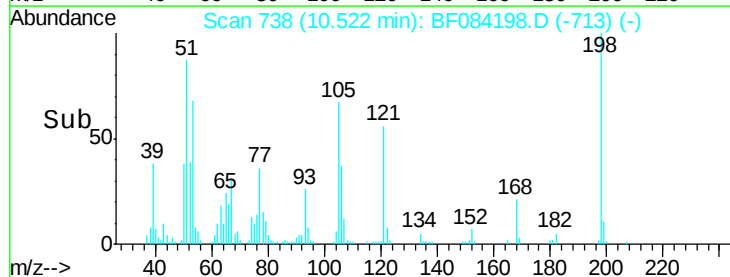
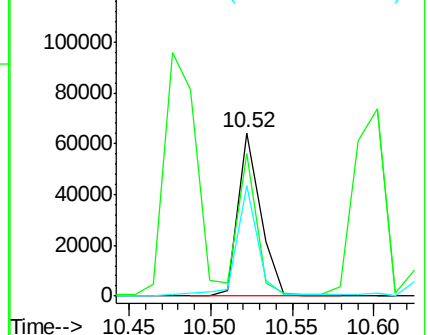
105 67.8 26.4 66.4#

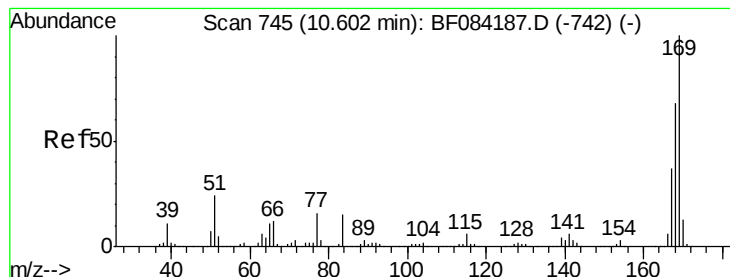


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E





#65

n-Nitrosodiphenylamine

Concen: 16.08 ng

RT: 10.60 min Scan# 745

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

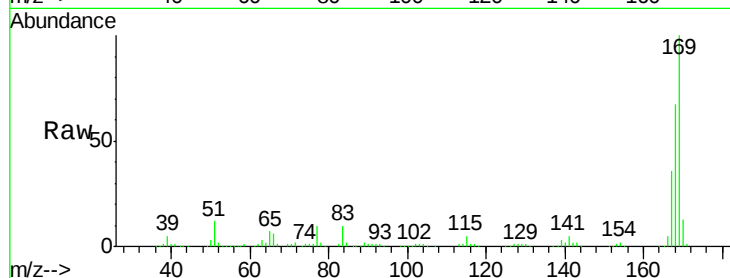
Tgt Ion:169 Resp: 550987

Ion Ratio Lower Upper

169 100

168 67.1 55.1 82.7

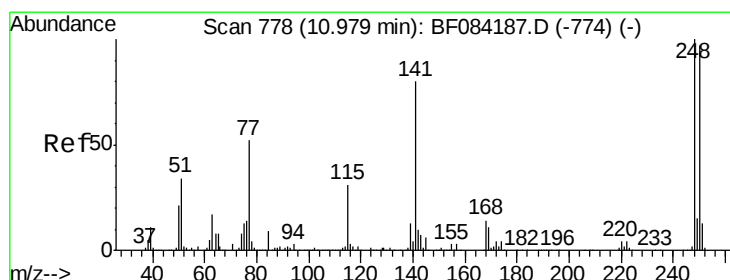
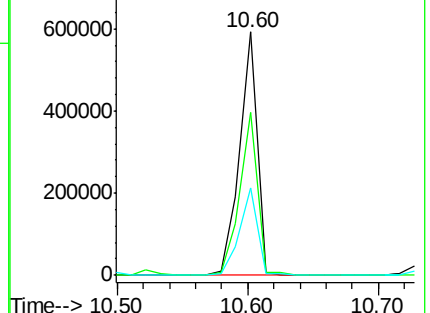
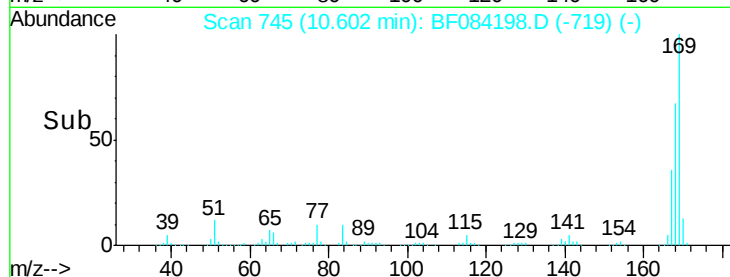
167 36.1 30.0 45.0



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: 15.01 ng

RT: 10.97 min Scan# 777

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

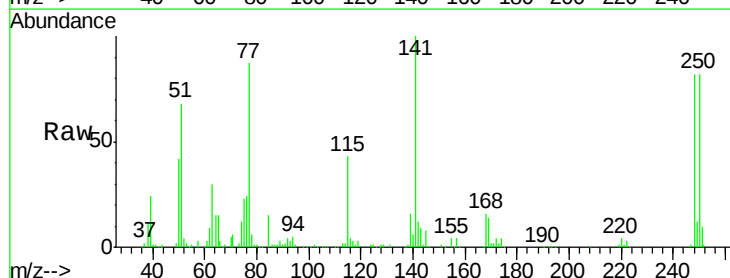
Tgt Ion:248 Resp: 173133

Ion Ratio Lower Upper

248 100

250 99.7 78.4 117.6

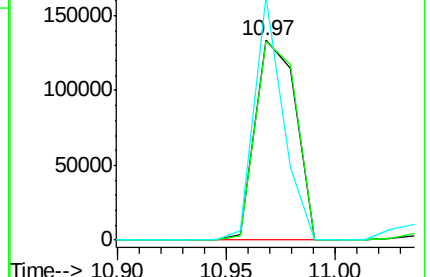
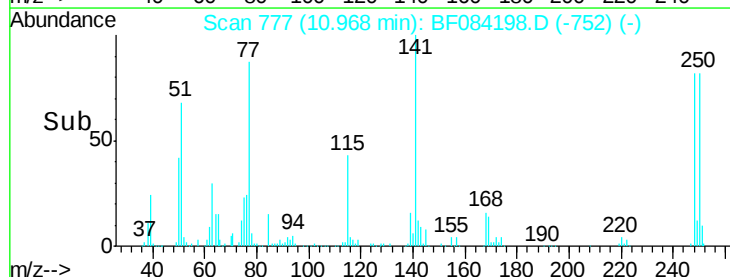
141 121.9 44.0 66.0#

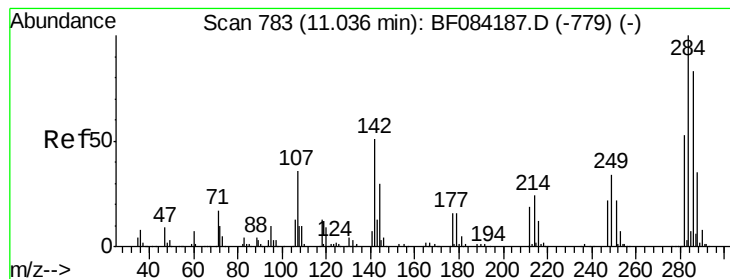


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#67

Hexachlorobenzene

Concen: 15.82 ng

RT: 11.04 min Scan# 783

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

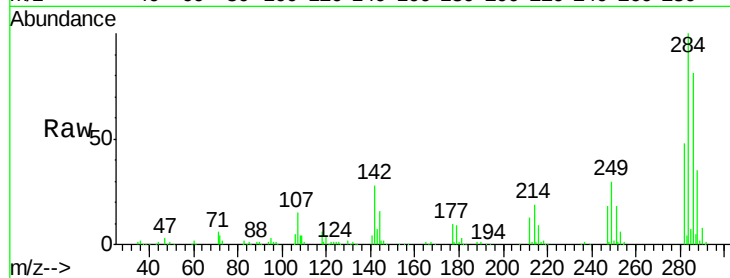
Tgt Ion:284 Resp: 205384

Ion Ratio Lower Upper

284 100

142 28.2 22.2 33.4

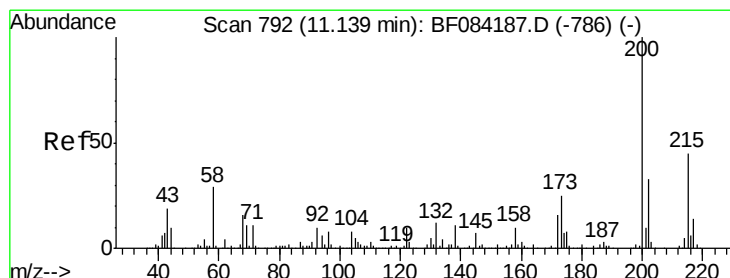
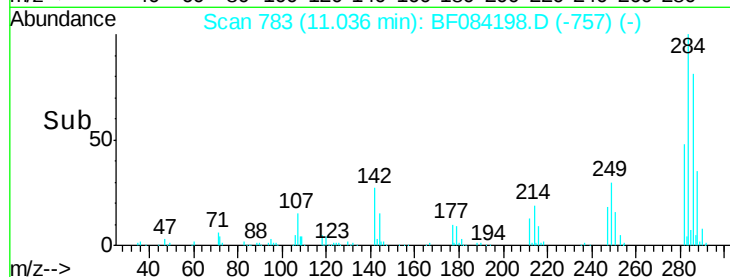
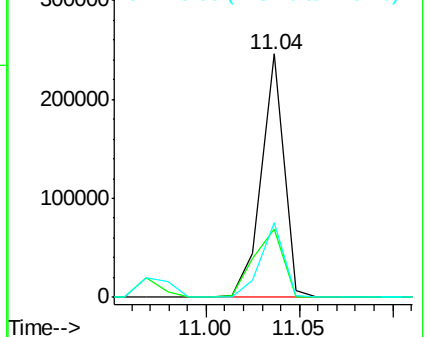
249 30.4 24.6 37.0



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: 18.05 ng

RT: 11.13 min Scan# 791

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

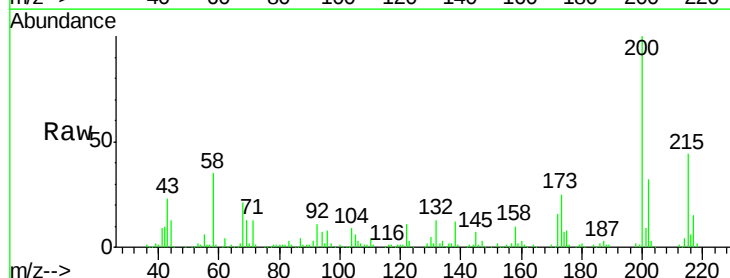
Tgt Ion:200 Resp: 202413

Ion Ratio Lower Upper

200 100

173 25.4 9.5 49.5

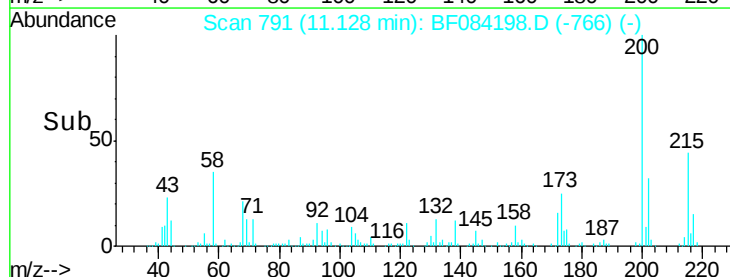
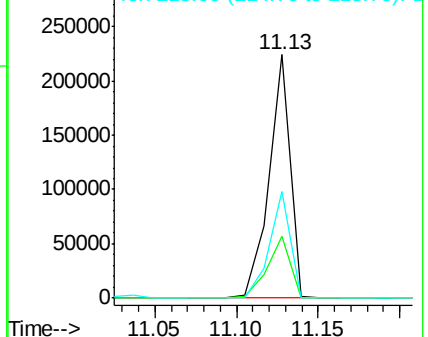
215 43.6 23.8 63.8



Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E

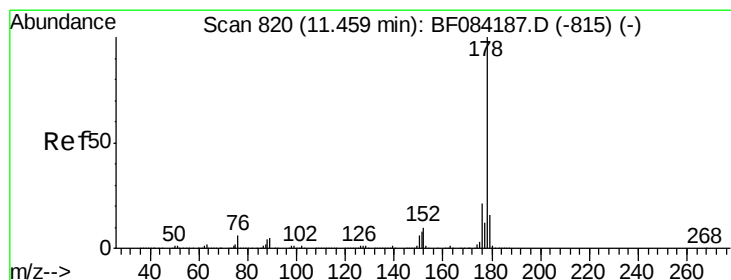
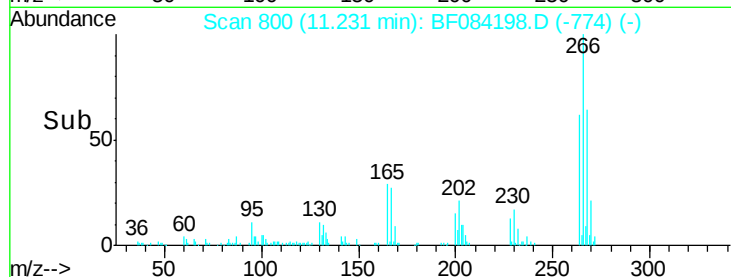
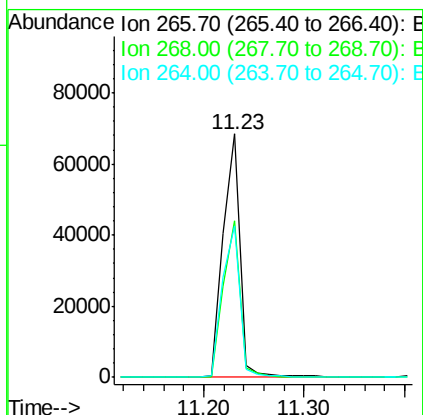
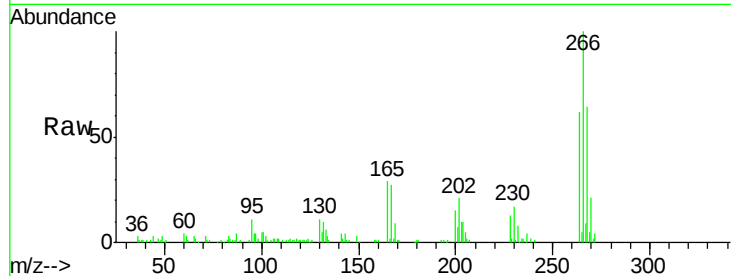




#69
 Pentachlorophenol
 Concen: 11.93 ng
 RT: 11.23 min Scan# 800
 Delta R.T. 0.00 min
 Lab File: BF084198.D
 Acq: 31 Dec 2015 16:48

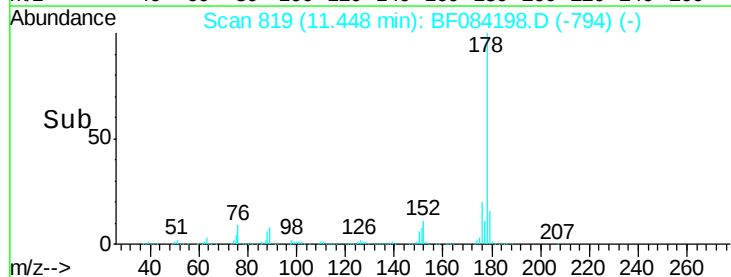
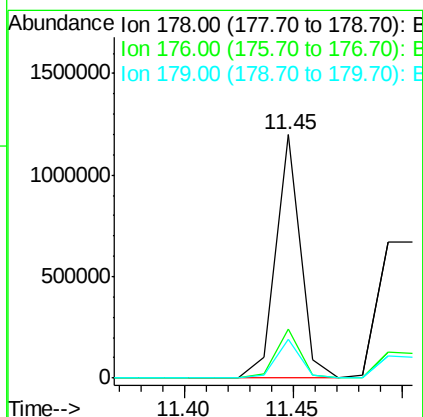
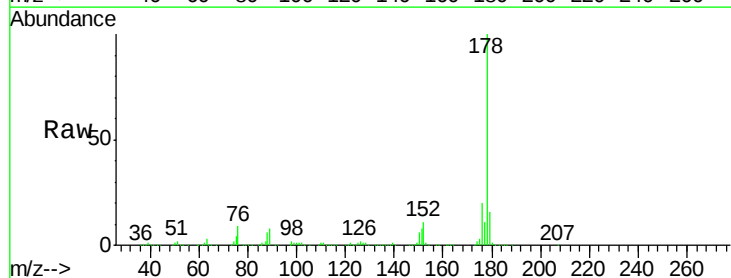
Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016-02

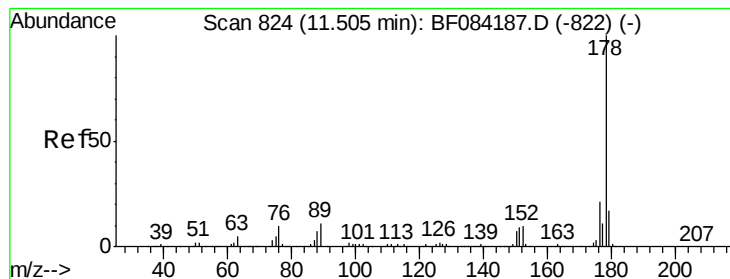
Tgt Ion:266 Resp: 80310
 Ion Ratio Lower Upper
 266 100
 268 64.2 52.4 78.6
 264 62.2 50.2 75.2



#70
 Phenanthrene
 Concen: 17.07 ng
 RT: 11.45 min Scan# 819
 Delta R.T. -0.01 min
 Lab File: BF084198.D
 Acq: 31 Dec 2015 16:48

Tgt Ion:178 Resp: 956817
 Ion Ratio Lower Upper
 178 100
 176 20.0 15.3 22.9
 179 15.7 12.0 18.0





#71

Anthracene

Concen: 17.02 ng

RT: 11.50 min Scan# 824

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

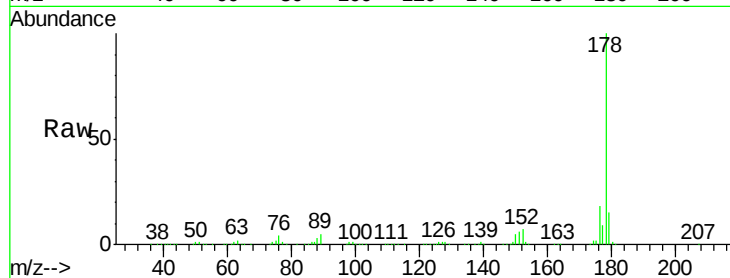
Tgt Ion:178 Resp: 935121

Ion Ratio Lower Upper

178 100

176 18.4 15.4 23.0

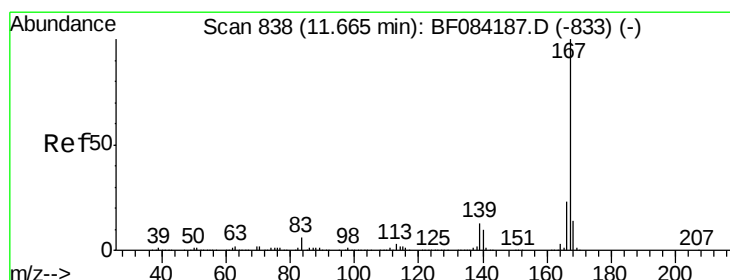
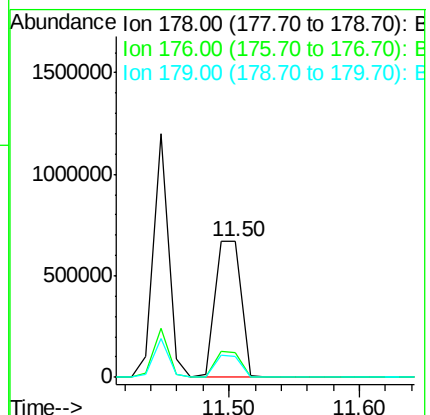
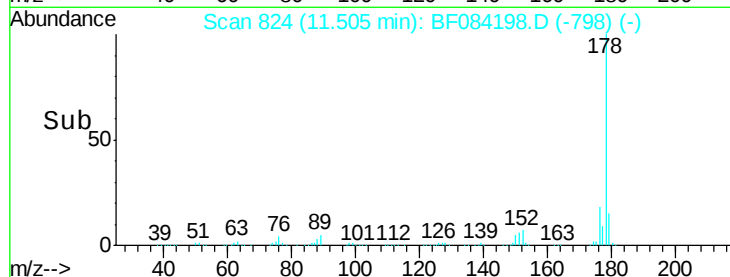
179 15.1 12.5 18.7



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: 16.43 ng

RT: 11.65 min Scan# 837

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

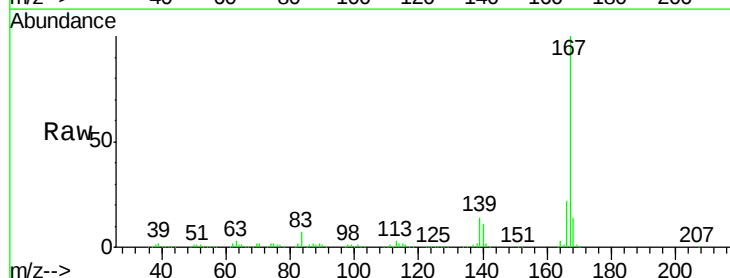
Tgt Ion:167 Resp: 882622

Ion Ratio Lower Upper

167 100

166 22.0 17.6 26.4

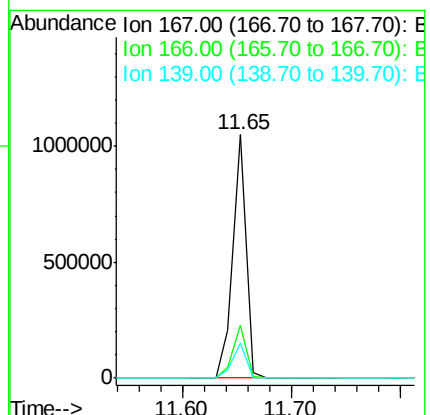
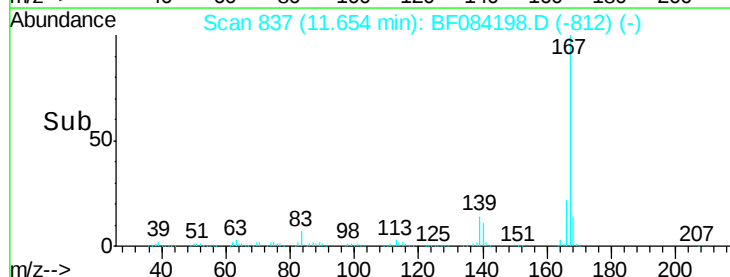
139 14.3 11.8 17.8

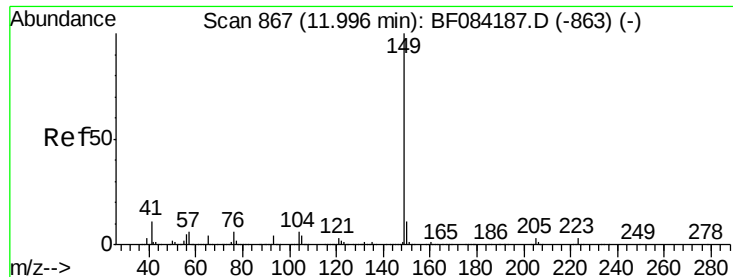


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#73

Di-n-butylphthalate

Concen: 13.81 ng

RT: 12.00 min Scan# 867

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

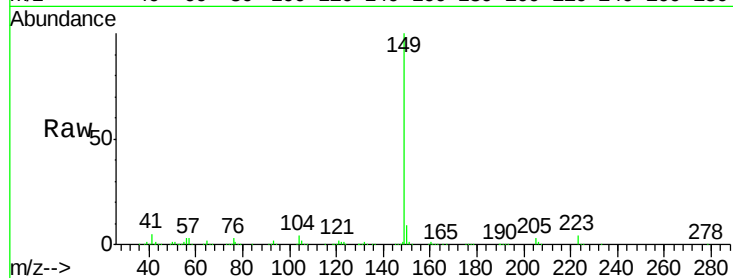
Tgt Ion:149 Resp: 1030307

Ion Ratio Lower Upper

149 100

150 8.9 7.1 10.7

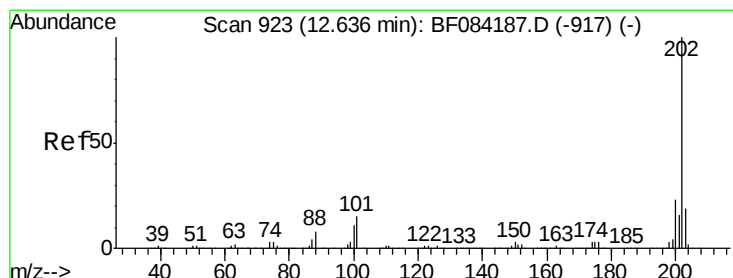
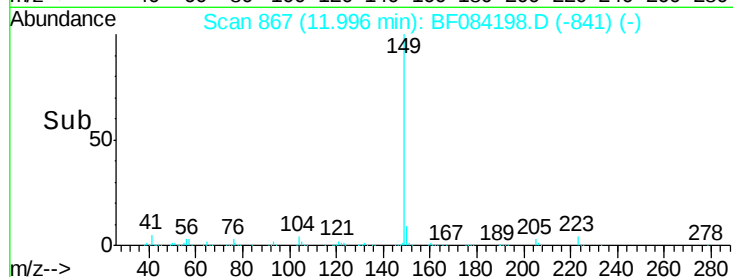
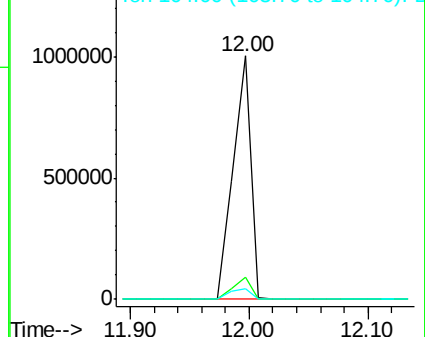
104 4.3 3.2 4.8



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: 16.87 ng

RT: 12.64 min Scan# 923

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

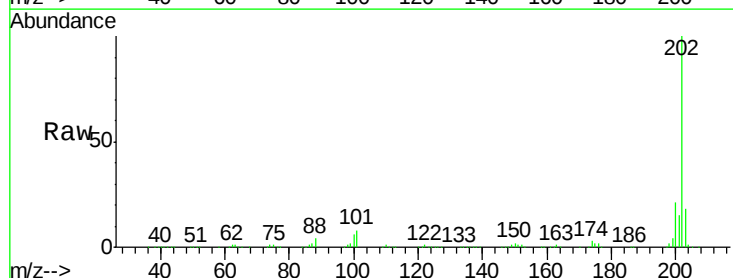
Tgt Ion:202 Resp: 987657

Ion Ratio Lower Upper

202 100

101 8.2 0.0 32.8

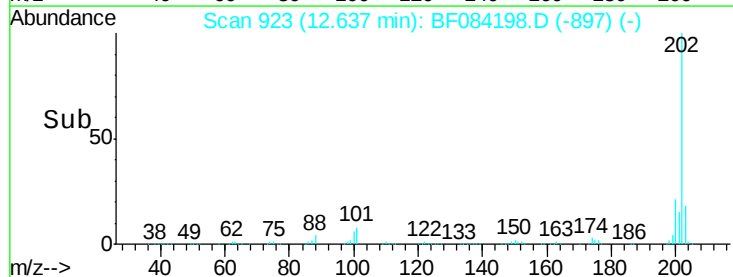
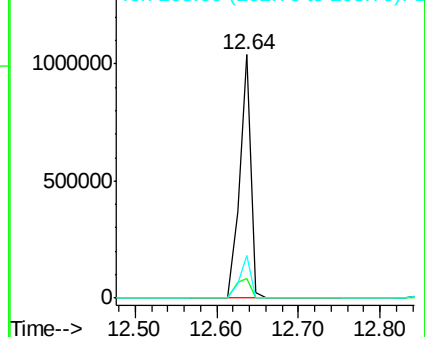
203 17.6 0.0 37.9

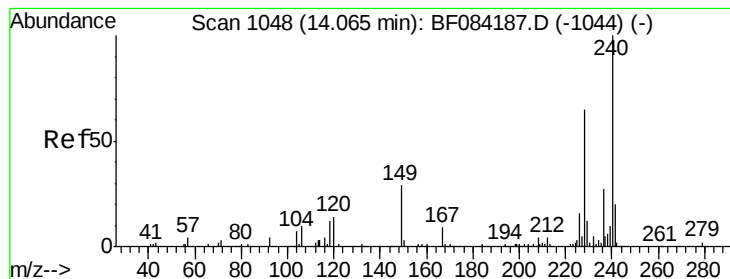


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.07 min Scan# 1048

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

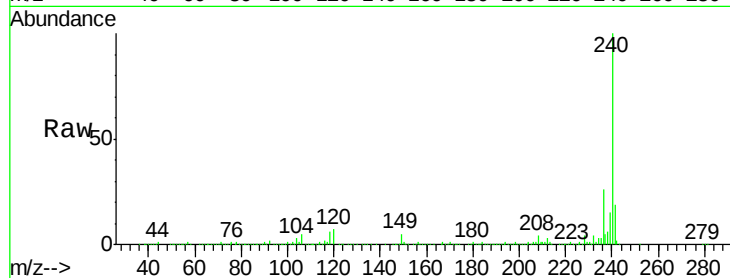
Tgt Ion:240 Resp: 877246

Ion Ratio Lower Upper

240 100

120 6.9 9.5 14.3#

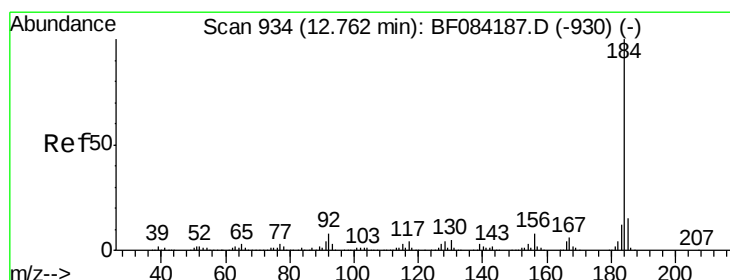
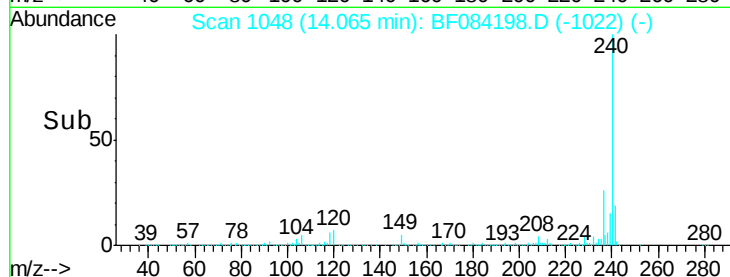
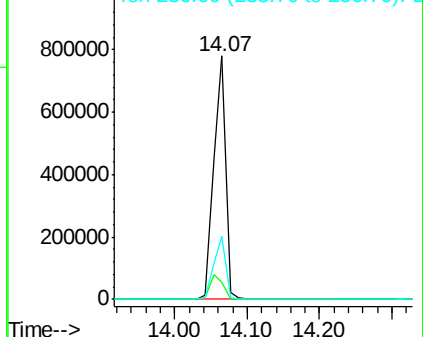
236 25.7 20.6 31.0



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#76

Benzidine

Concen: 8.11 ng

RT: 12.75 min Scan# 933

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

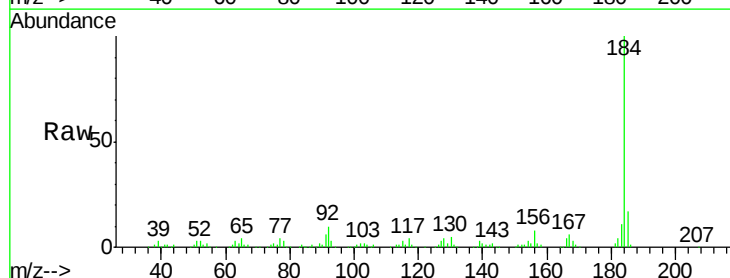
Tgt Ion:184 Resp: 255066

Ion Ratio Lower Upper

184 100

185 16.9 12.2 18.2

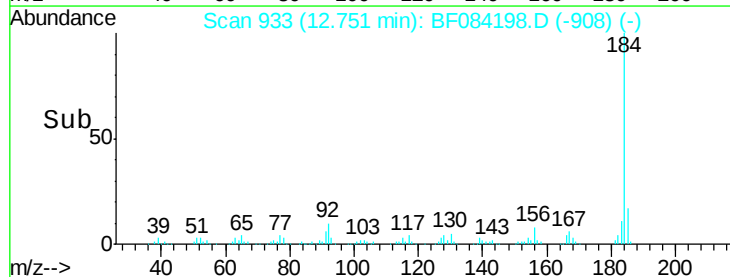
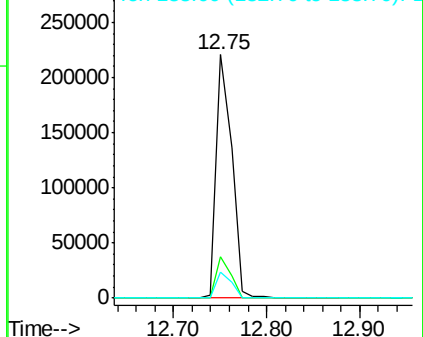
183 10.8 9.8 14.8

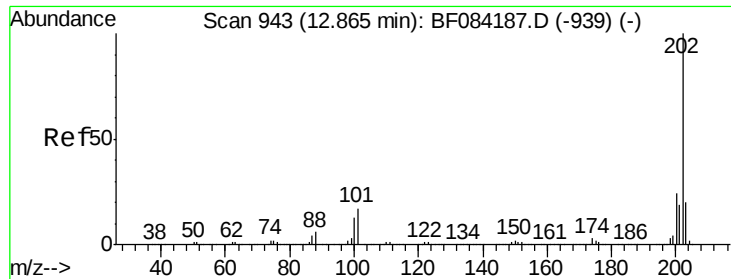


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

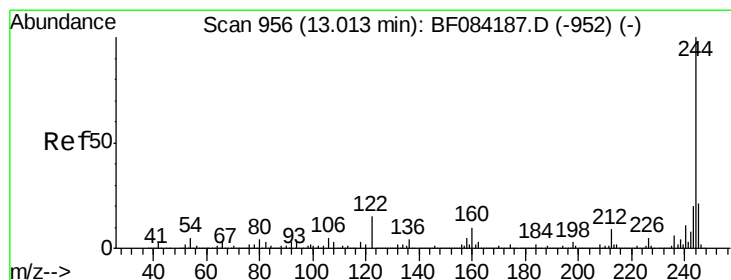
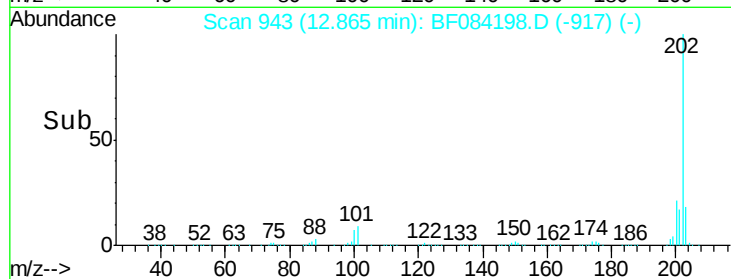
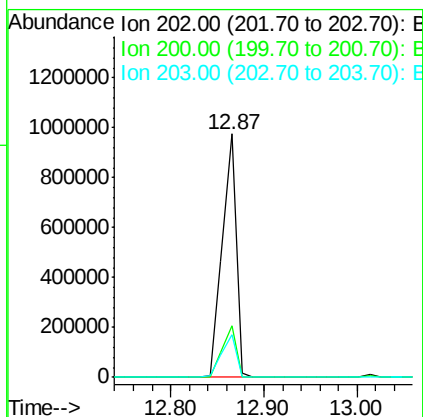
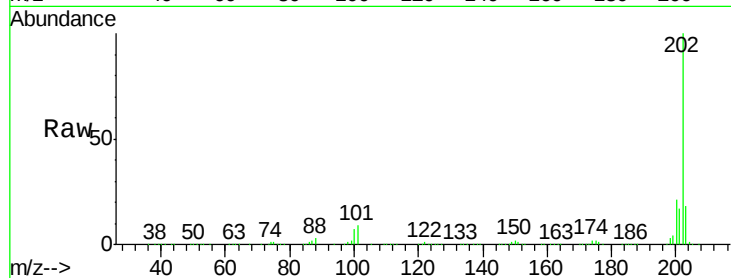




#77
 Pyrene
 Concen: 14.66 ng
 RT: 12.87 min Scan# 943
 Delta R.T. 0.00 min
 Lab File: BF084198.D
 Acq: 31 Dec 2015 16:48

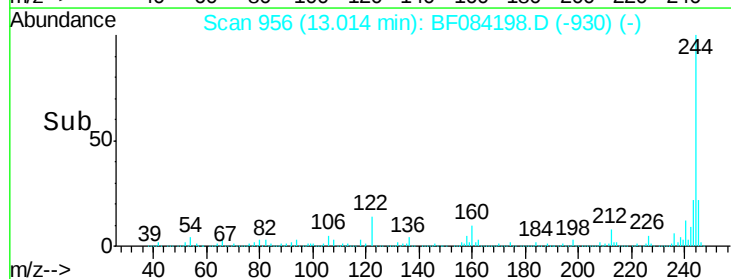
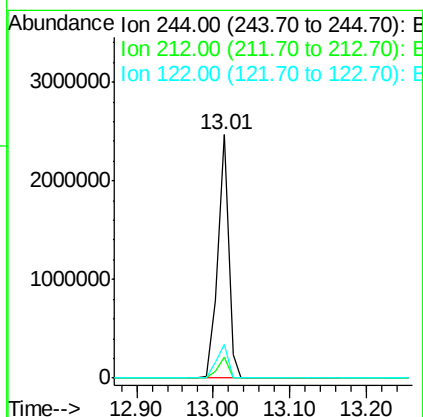
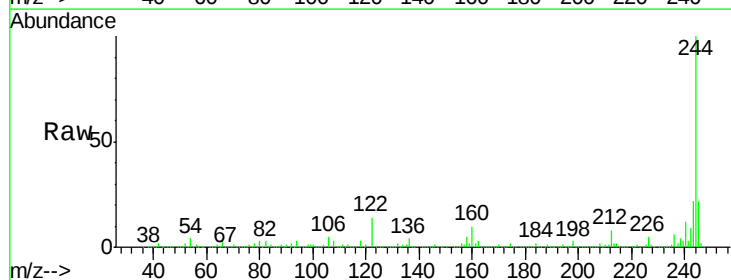
Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016-02

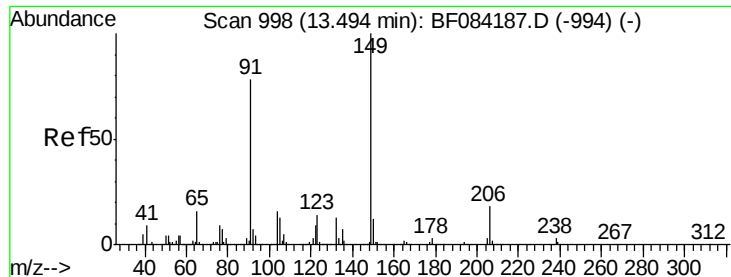
Tgt Ion:202 Resp: 1008997
 Ion Ratio Lower Upper
 202 100
 200 21.2 17.2 25.8
 203 17.6 14.3 21.5



#78
 Terphenyl-d14
 Concen: 61.25 ng
 RT: 13.01 min Scan# 956
 Delta R.T. 0.00 min
 Lab File: BF084198.D
 Acq: 31 Dec 2015 16:48

Tgt Ion:244 Resp: 2407180
 Ion Ratio Lower Upper
 244 100
 212 8.4 5.7 8.5
 122 14.0 7.4 11.0#

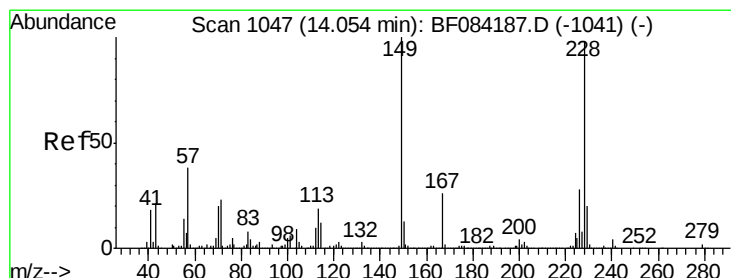
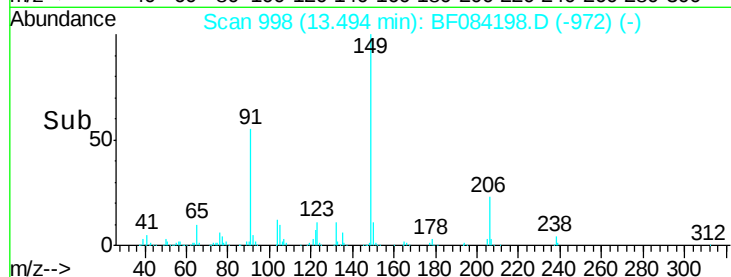
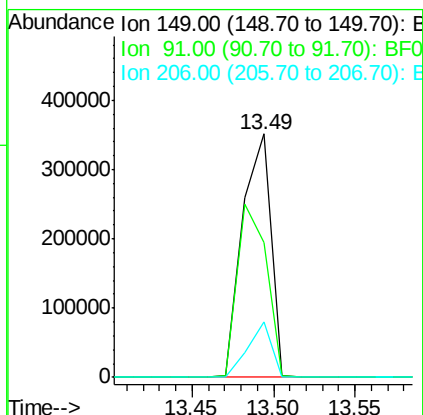
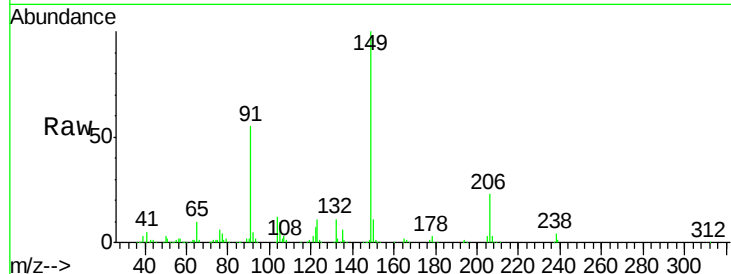




#79
Butylbenzylphthalate
Concen: 14.23 ng
RT: 13.49 min Scan# 998
Delta R.T. 0.00 min
Lab File: BF084198.D
Acq: 31 Dec 2015 16:48

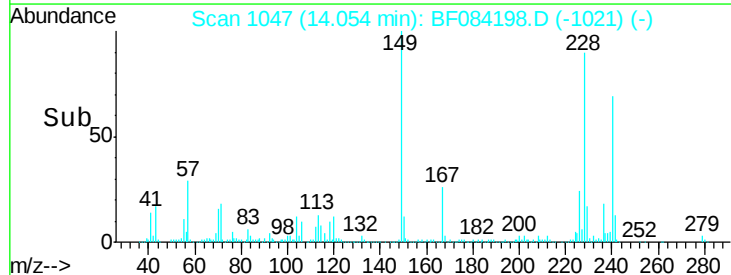
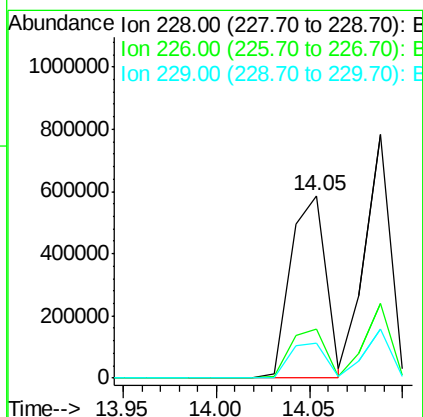
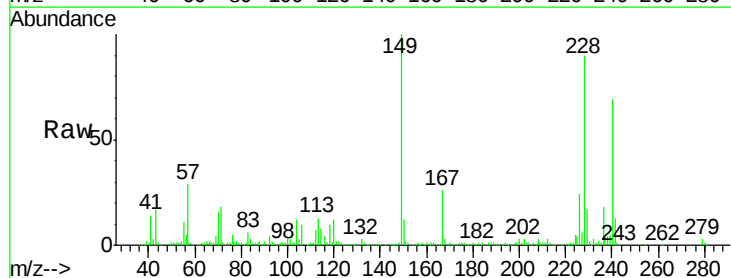
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Tgt Ion:149 Resp: 423760
Ion Ratio Lower Upper
149 100
91 55.2 57.6 86.4#
206 22.9 13.2 19.8#



#80
Benzo(a)anthracene
Concen: 14.97 ng
RT: 14.05 min Scan# 1047
Delta R.T. 0.00 min
Lab File: BF084198.D
Acq: 31 Dec 2015 16:48

Tgt Ion:228 Resp: 771020
Ion Ratio Lower Upper
228 100
226 26.8 21.8 32.6
229 19.0 15.8 23.8

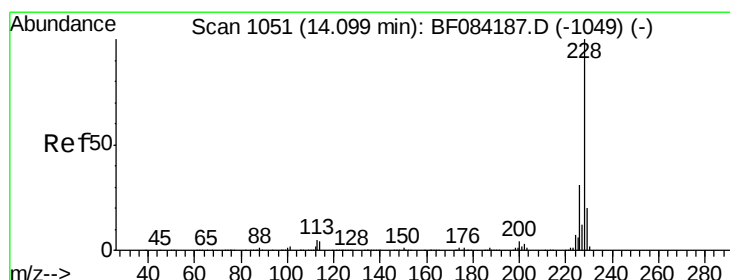
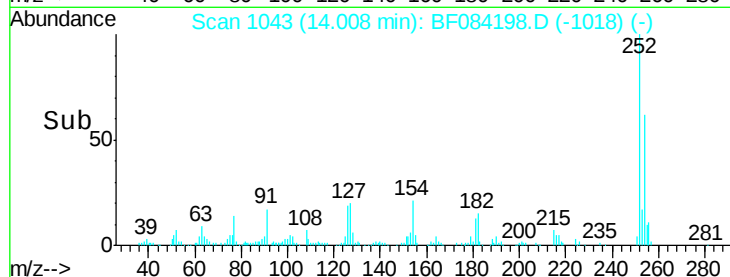
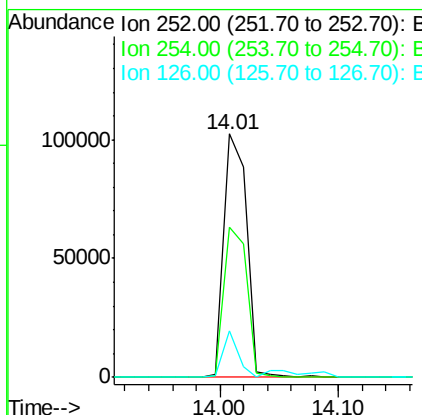
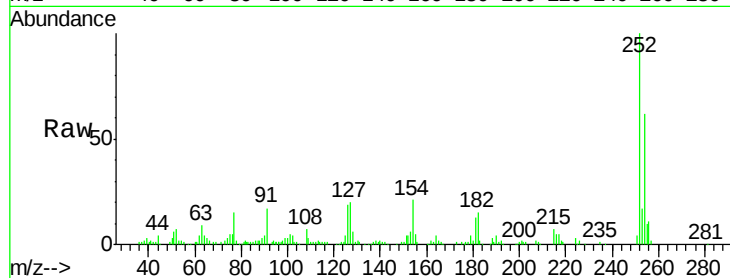




#81
 3,3'-Dichlorobenzidine
 Concen: 7.51 ng
 RT: 14.01 min Scan# 1043
 Delta R.T. -0.01 min
 Lab File: BF084198.D
 Acq: 31 Dec 2015 16:48

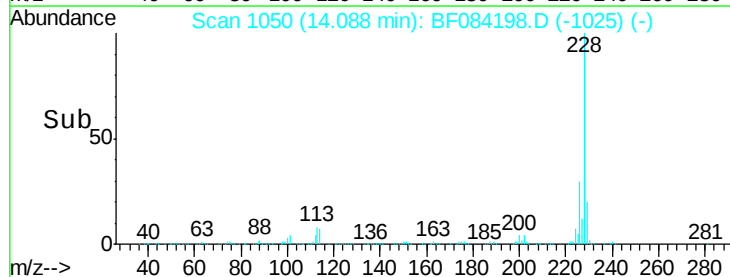
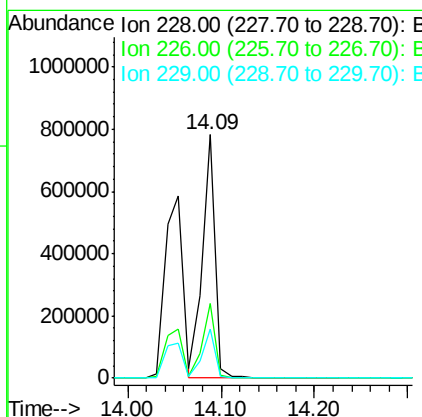
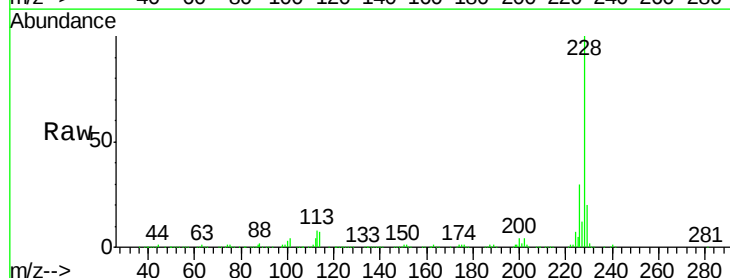
Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016-02

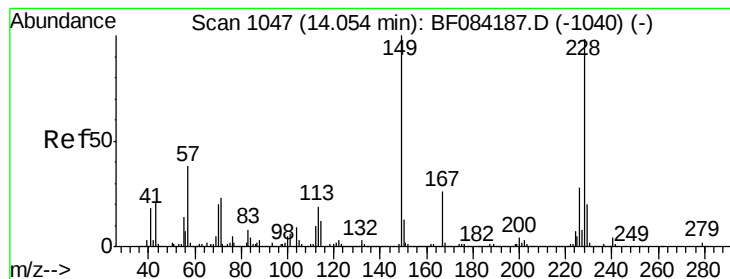
Tgt Ion: 252 Resp: 135071
 Ion Ratio Lower Upper
 252 100
 254 61.6 53.5 80.3
 126 19.1 4.9 7.3#



#82
 Chrysene
 Concen: 15.11 ng
 RT: 14.09 min Scan# 1050
 Delta R.T. -0.01 min
 Lab File: BF084198.D
 Acq: 31 Dec 2015 16:48

Tgt Ion: 228 Resp: 748100
 Ion Ratio Lower Upper
 228 100
 226 30.5 24.3 36.5
 229 20.3 16.1 24.1





#83

Bis(2-ethylhexyl)phthalate

Concen: 15.36 ng

RT: 14.05 min Scan# 1047

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

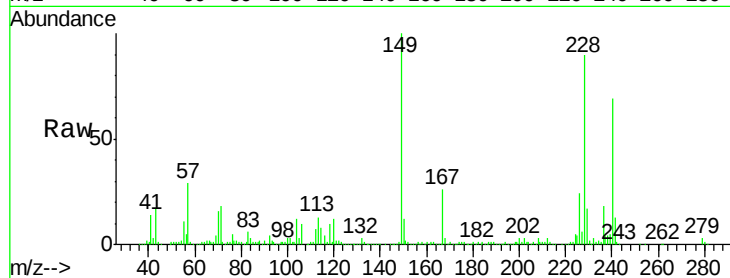
Tgt Ion:149 Resp: 577992

Ion Ratio Lower Upper

149 100

167 26.1 19.7 29.5

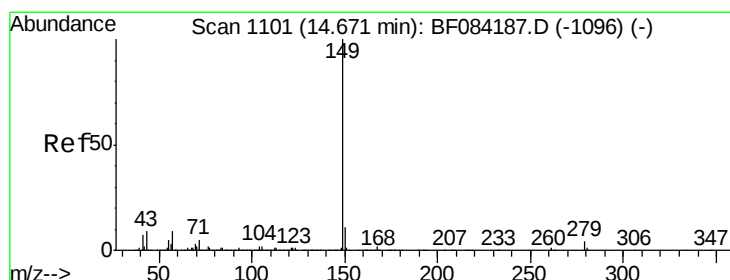
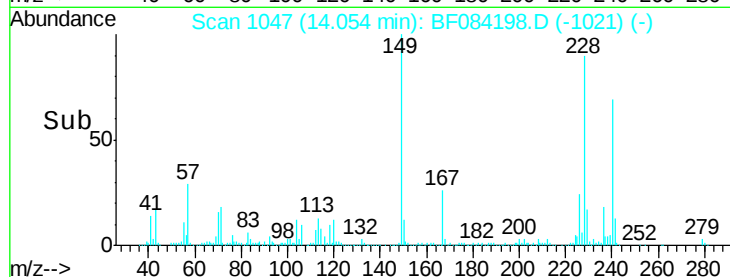
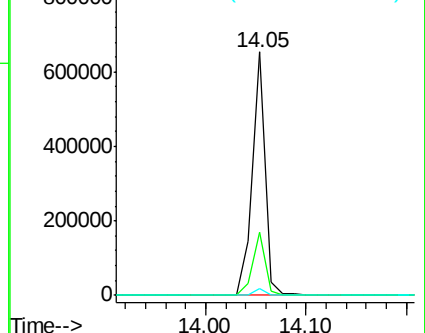
279 3.0 1.8 2.6#



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: 14.63 ng

RT: 14.66 min Scan# 1100

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

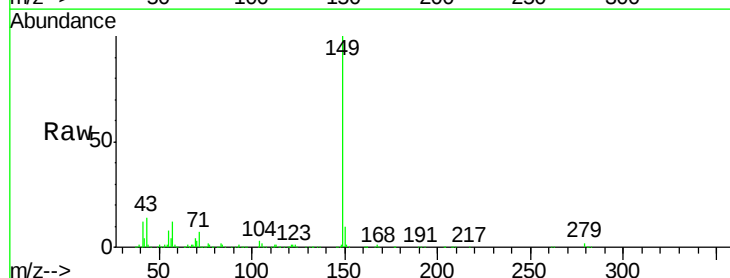
Tgt Ion:149 Resp: 929528

Ion Ratio Lower Upper

149 100

167 1.5 1.2 1.8

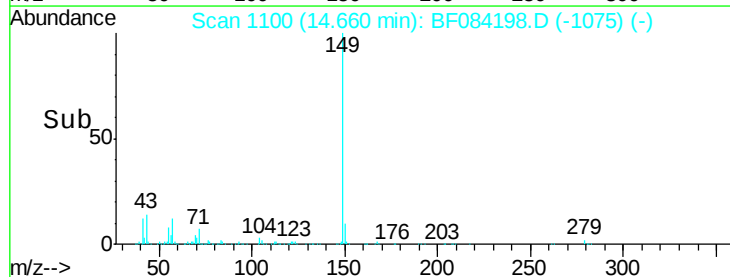
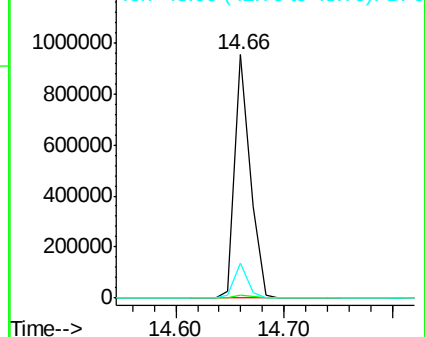
43 12.8 5.6 8.4#

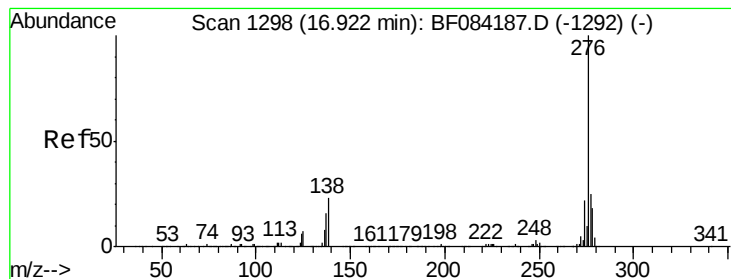


Abundance Ion 149.00 (148.70 to 149.70): E

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: 13.39 ng

RT: 16.91 min Scan# 1297

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

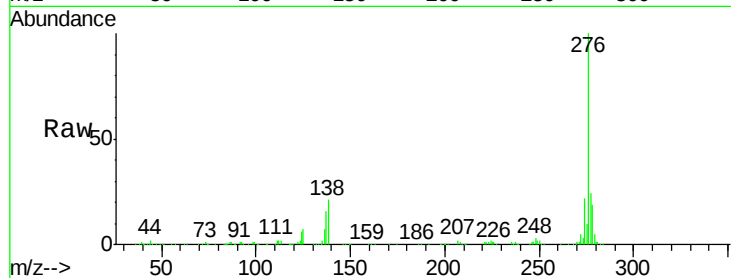
Tgt Ion:276 Resp: 525386

Ion Ratio Lower Upper

276 100

138 26.6 20.6 30.8

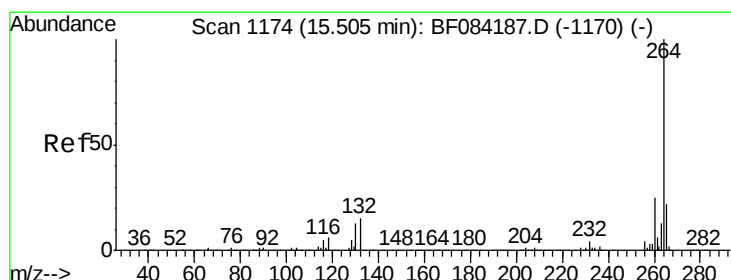
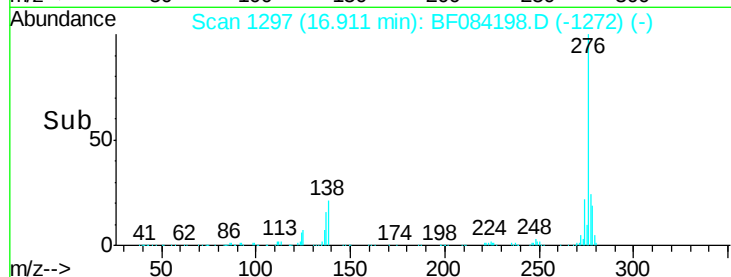
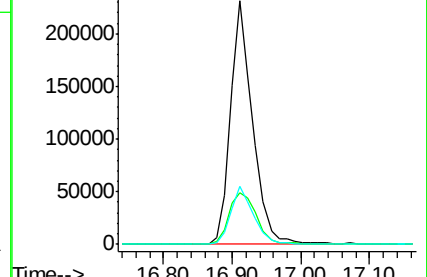
277 24.7 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.51 min Scan# 1174

Delta R.T. 0.00 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

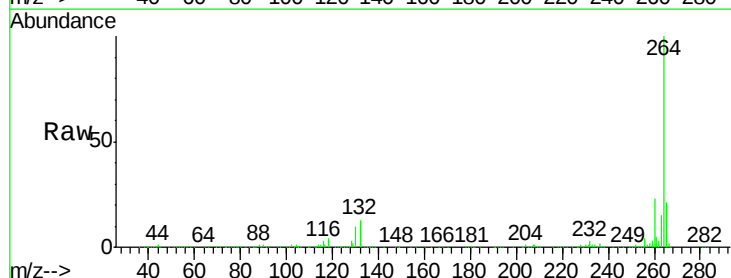
Tgt Ion:264 Resp: 650741

Ion Ratio Lower Upper

264 100

260 23.4 19.4 29.2

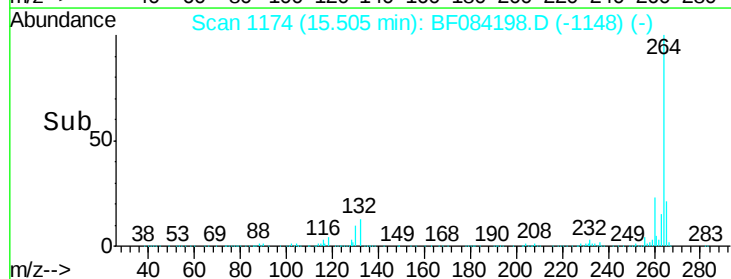
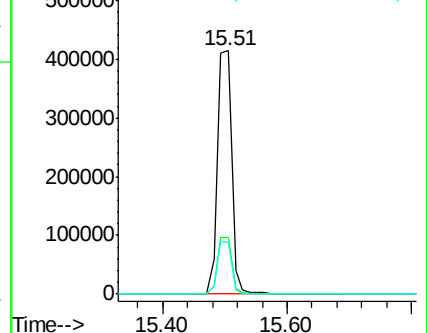
265 21.1 17.8 26.6

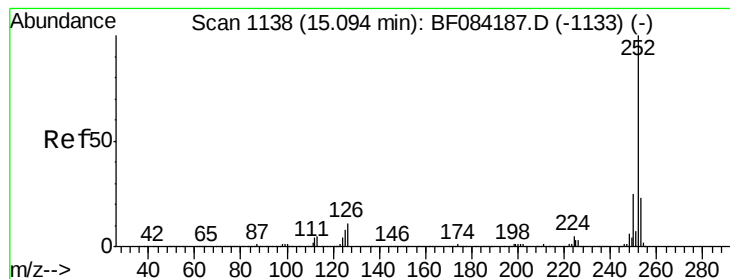


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 28.54 ng

RT: 15.08 min Scan# 1137

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

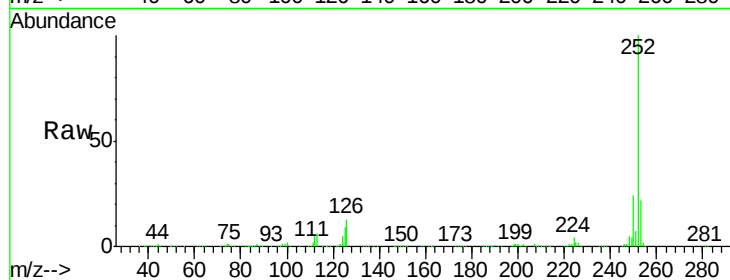
Tgt Ion:252 Resp: 1214767

Ion Ratio Lower Upper

252 100

253 22.1 17.3 25.9

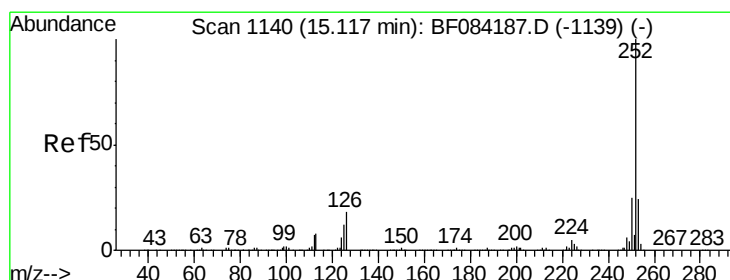
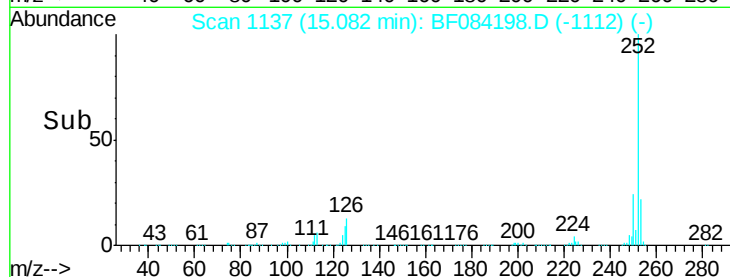
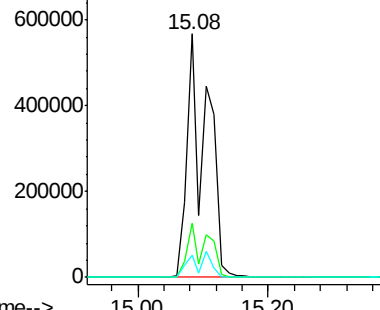
125 9.1 6.5 9.7



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: 34.89 ng

RT: 15.08 min Scan# 1137

Delta R.T. -0.03 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

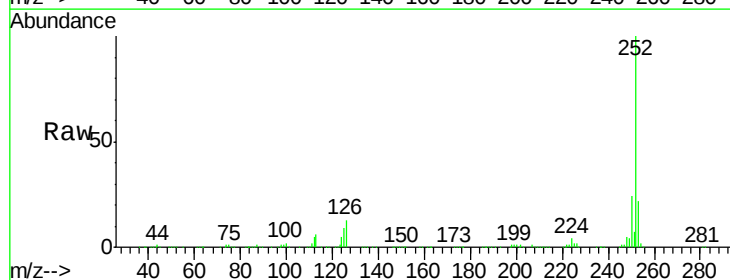
Tgt Ion:252 Resp: 1214767

Ion Ratio Lower Upper

252 100

253 22.1 18.1 27.1

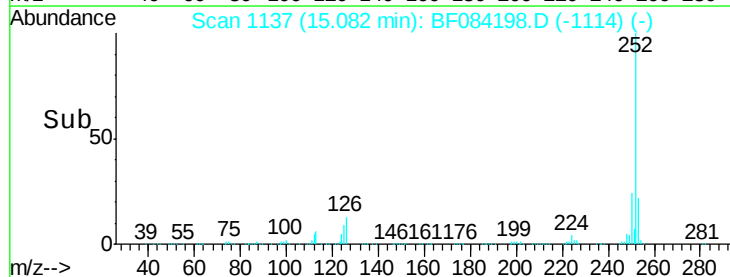
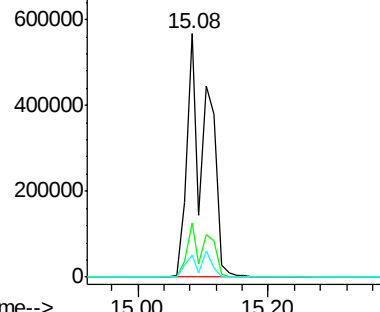
125 9.1 9.0 13.6

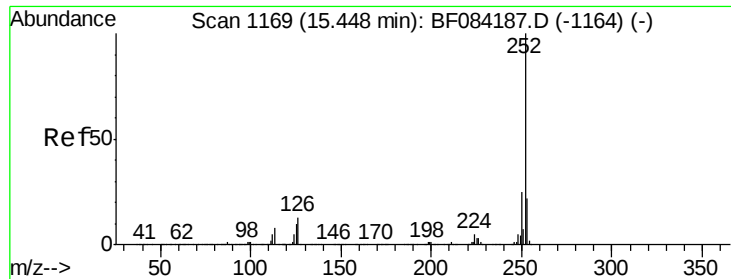


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 15.24 ng

RT: 15.44 min Scan# 1168

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

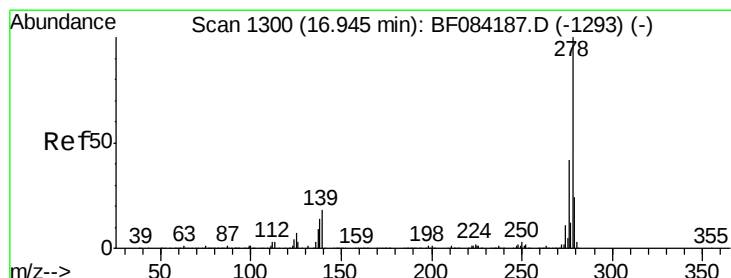
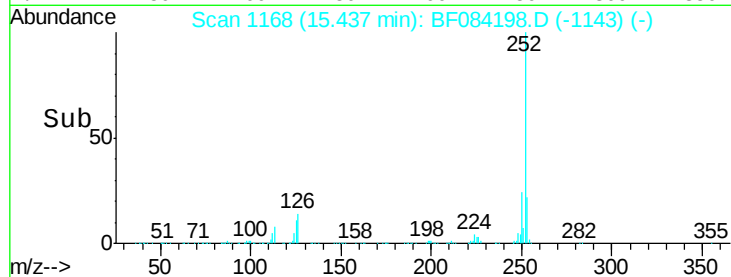
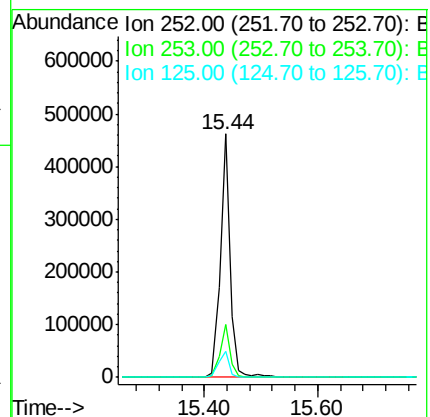
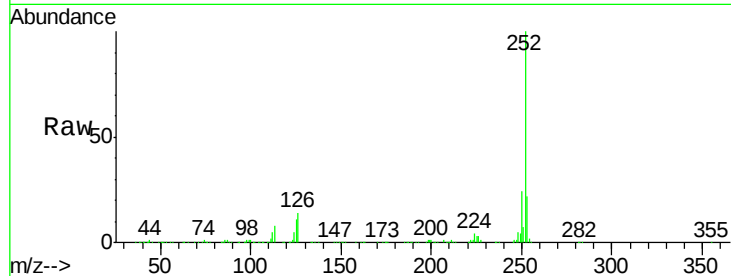
Tgt Ion:252 Resp: 550440

Ion Ratio Lower Upper

252 100

253 21.6 17.3 25.9

125 10.7 7.0 10.4#



#90

Dibenzo(a,h)anthracene

Concen: 14.40 ng

RT: 16.93 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

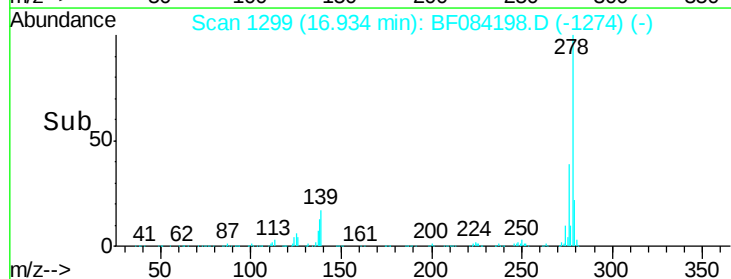
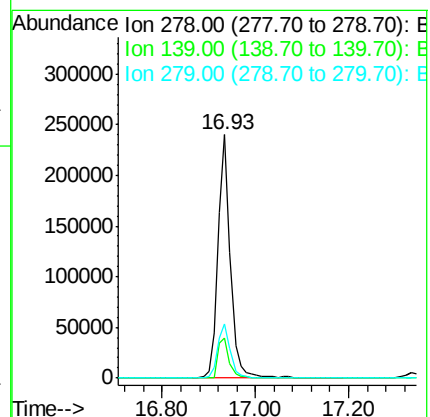
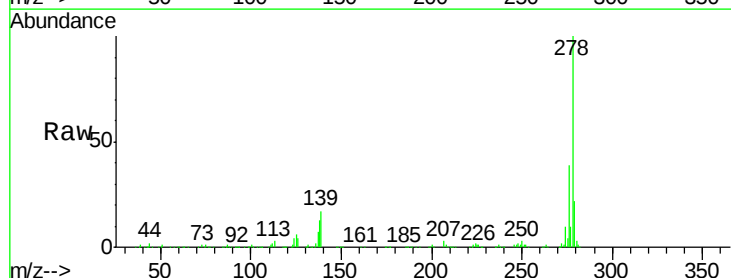
Tgt Ion:278 Resp: 447469

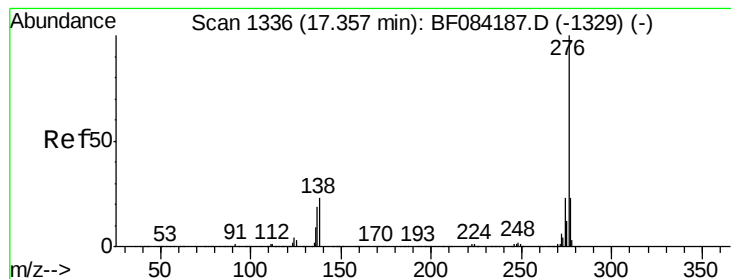
Ion Ratio Lower Upper

278 100

139 16.6 15.0 22.4

279 22.4 18.9 28.3





#91

Benzo(g,h,i)perylene

Concen: 13.82 ng

RT: 17.33 min Scan# 1334

Delta R.T. -0.02 min

Lab File: BF084198.D

Acq: 31 Dec 2015 16:48

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

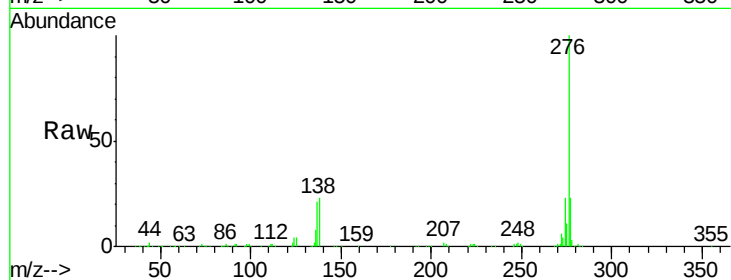
Tgt Ion: 276 Resp: 444527

Ion Ratio Lower Upper

276 100

277 22.6 18.8 28.2

138 22.8 17.8 26.6



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

