

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120817\
 Data File : BF101249.D
 Acq On : 8 Dec 2017 21:19
 Operator : SJ/JU
 Sample : I6790-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOILWASTE-CHARACTERIZATION

Quant Time: Dec 11 04:52:53 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 08 18:17:31 2017
 Response via : Initial Calibration

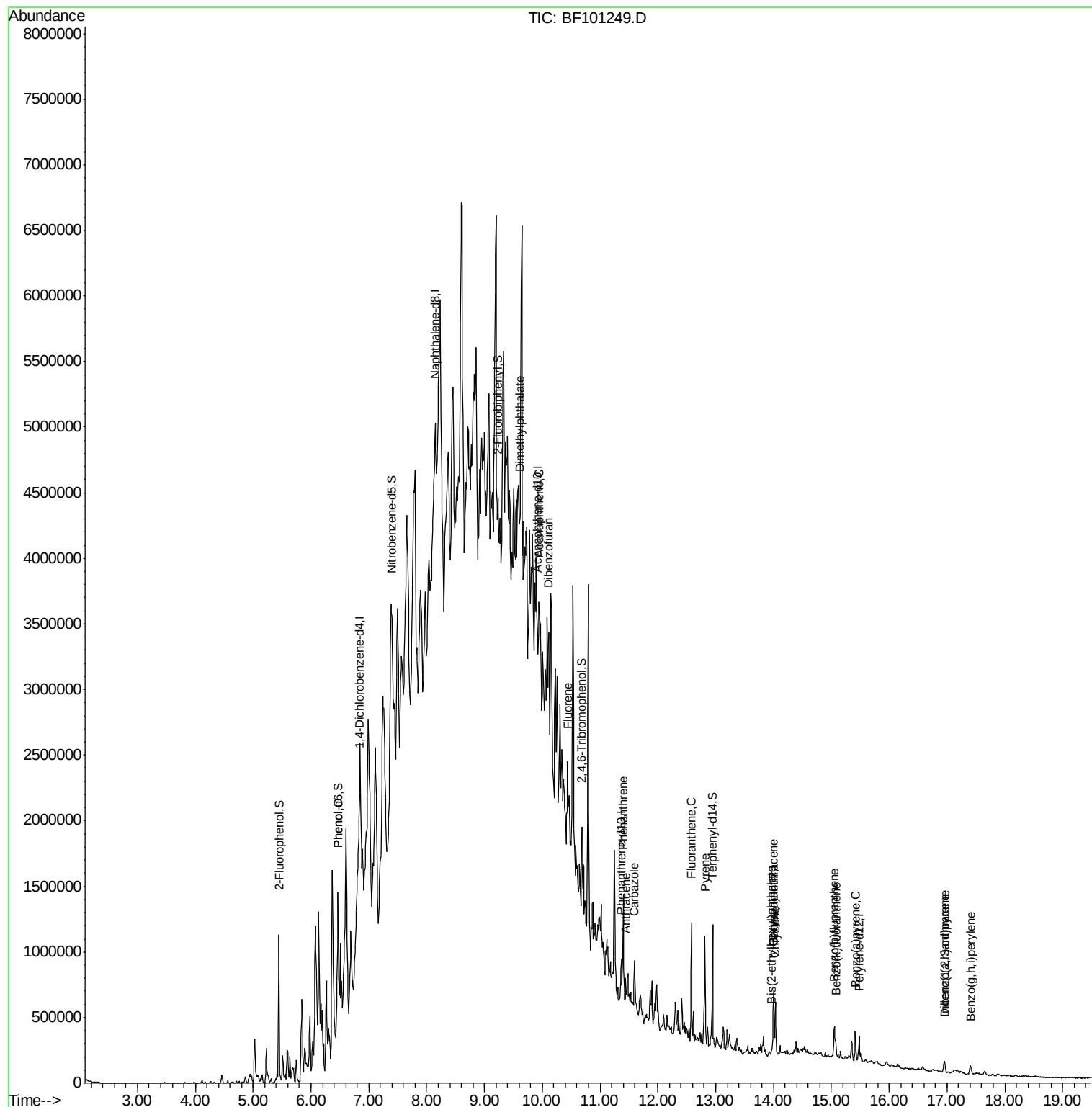
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	36941	20.00	ng	0.01
21) Naphthalene-d8	8.15	136	97775	20.00	ng	0.04
38) Acenaphthene-d10	9.92	164	47607	20.00	ng	0.05
63) Phenanthrene-d10	11.37	188	101701	20.00	ng	0.01
75) Chrysene-d12	14.01	240	104136	20.00	ng	0.00
86) Perylene-d12	15.48	264	91471	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	312641	139.85	ng	0.00
7) Phenol-d6	6.47	99	379290	139.74	ng	0.00
23) Nitrobenzene-d5	7.40	82	244653	149.26	ng	0.00
41) 2,4,6-Tribromophenol	10.69	330	71252	124.59	ng	0.02
44) 2-Fluorobiphenyl	9.23	172	257963	74.14	ng	0.05
78) Terphenyl-d14	12.94	244	314008	65.95	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.47	94	14896	4.936	ng	# 54
49) Dimethylphthalate	9.61	163	37982	9.893	ng	# 63
51) Acenaphthene	9.95	154	38223	12.539	ng	# 73
54) Dibenzofuran	10.12	168	40957m	9.324	ng	
57) Fluorene	10.45	166	72158	20.207	ng	# 79
70) Phenanthrene	11.40	178	331947	59.270	ng	98
71) Anthracene	11.44	178	89274m	15.750	ng	
72) Carbazole	11.60	167	16770	3.238	ng	# 64
74) Fluoranthene	12.58	202	374182	60.272	ng	97
77) Pyrene	12.82	202	381015	53.024	ng	98
80) Benzo(a)anthracene	14.00	228	163382m	24.849	ng	
82) Chrysene	14.03	228	150079m	24.578	ng	
83) Bis(2-ethylhexyl)phthalate	13.97	149	9523	2.108	ng	# 97
85) Indeno(1,2,3-cd)pyrene	16.96	276	51983	9.575	ng	# 89
87) Benzo(b)fluoranthene	15.05	252	150536m	27.476	ng	
88) Benzo(k)fluoranthene	15.07	252	40662m	7.533	ng	
89) Benzo(a)pyrene	15.42	252	107117	21.505	ng	97
90) Dibenzo(a,h)anthracene	16.96	278	15438m	3.516	ng	
91) Benzo(a,h,i)perylene	17.40	276	52378	12.657	ng	95

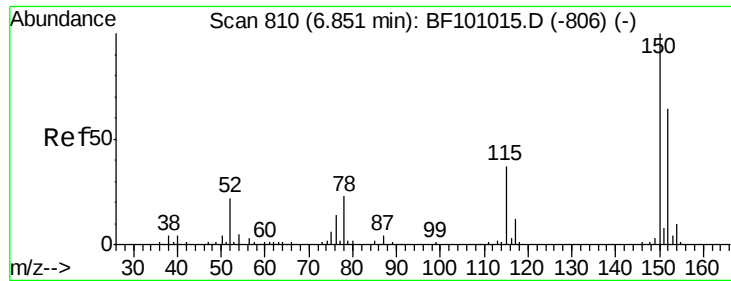
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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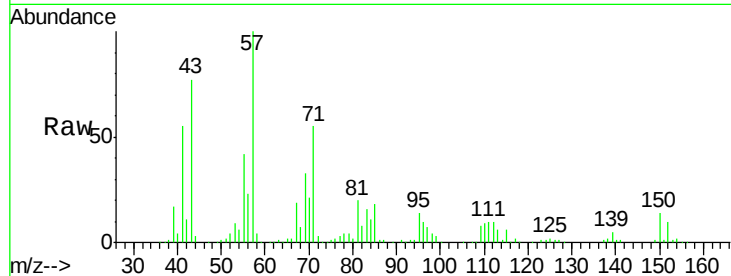




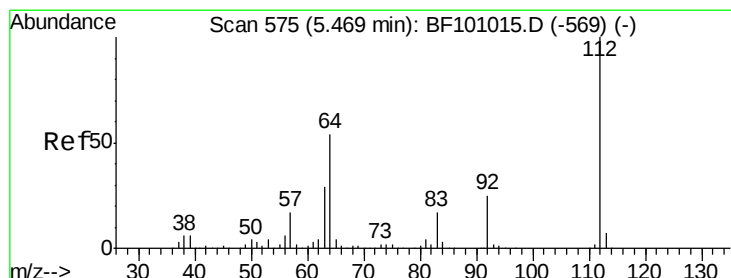
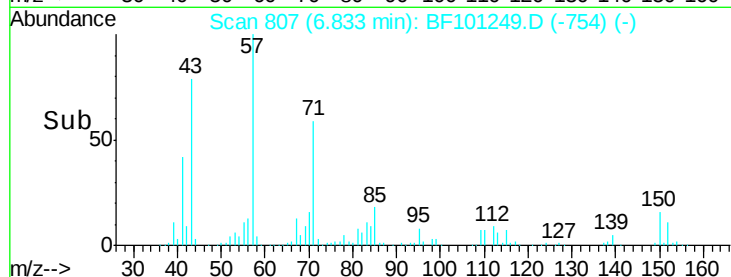
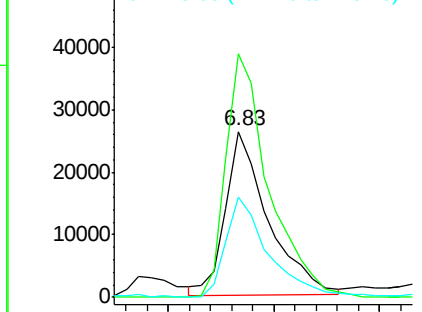
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.83 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: BF101249.D
 Acq: 8 Dec 2017 21:19

Instrument :
 BNA_F
 ClientSampleId :
 SOILWASTE-CHARACTERIZATION

Tot Ion:152 Resp: 36941
 Ion Ratio Lower Upper
 152 100
 150 147.0 124.6 186.8
 115 60.4 50.1 75.1

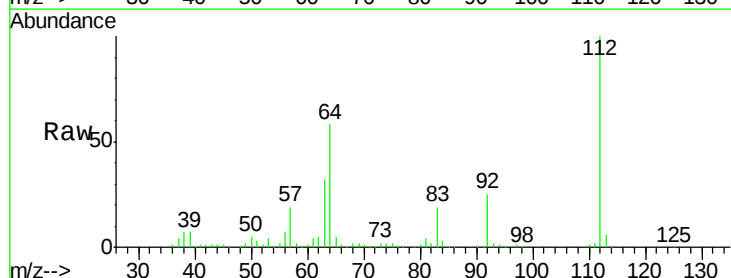


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

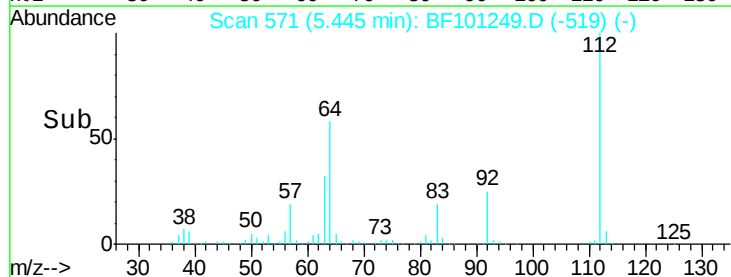
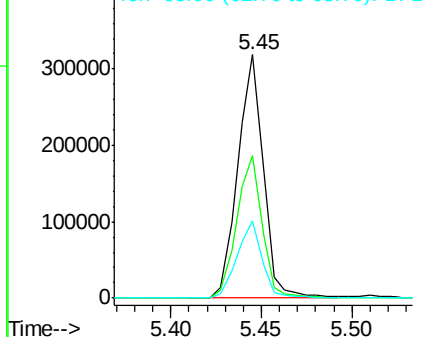


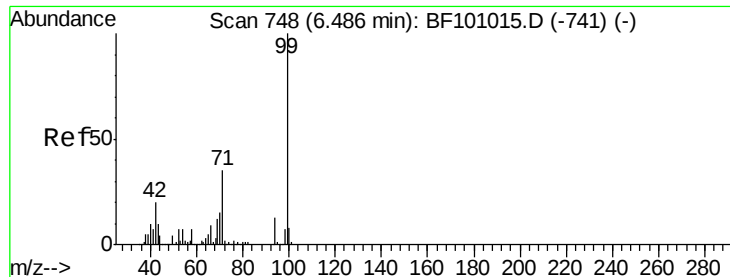
#5
 2-Fluorophenol
 Concen: 139.851 ng
 RT: 5.45 min Scan# 571
 Delta R.T. 0.01 min
 Lab File: BF101249.D
 Acq: 8 Dec 2017 21:19

Tgt Ion:112 Resp: 312641
 Ion Ratio Lower Upper
 112 100
 64 58.4 47.9 71.9
 63 31.5 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF1
 Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 139.745 ng

RT: 6.47 min Scan# 745

Delta R.T. 0.01 min

Lab File: BF101249.D

Acq: 8 Dec 2017 21:19

Instrument :

BNA_F

ClientSampleId :

SOILWASTE-CHARACTERIZATION

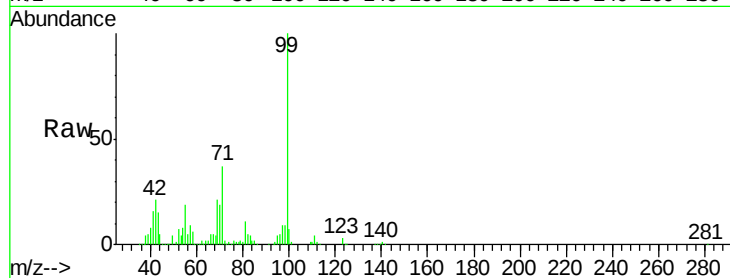
Tot Ion: 99 Resp: 379290

Ion Ratio Lower Upper

99 100

42 20.8 14.5 21.7

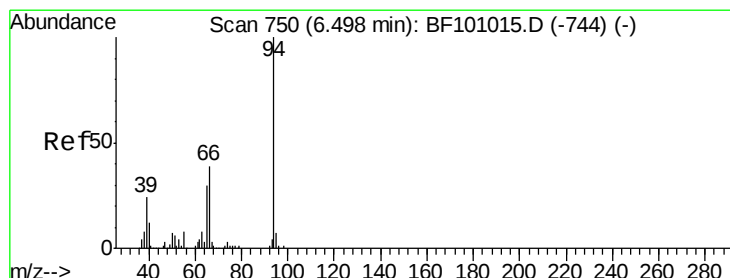
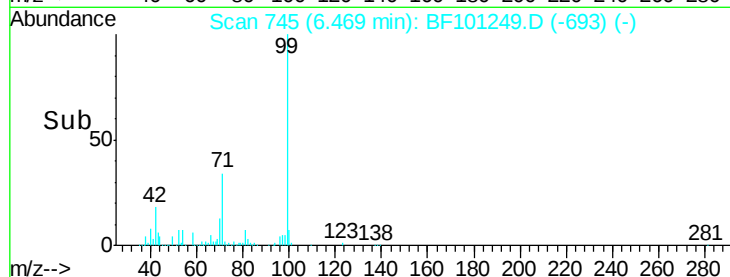
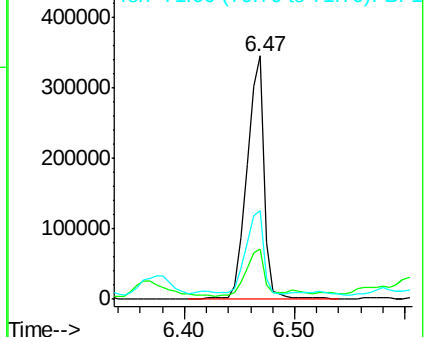
71 36.5 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 4.936 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.00 min

Lab File: BF101249.D

Acq: 8 Dec 2017 21:19

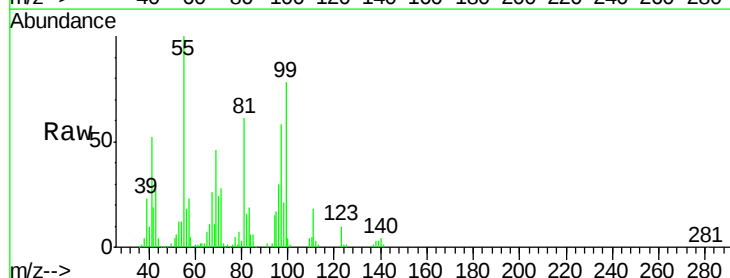
Tgt Ion: 94 Resp: 14896

Ion Ratio Lower Upper

94 100

65 44.6 7.9 47.9

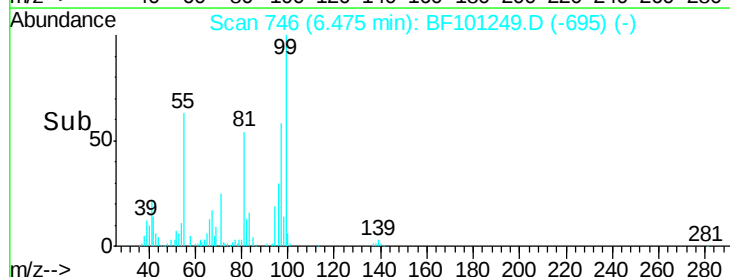
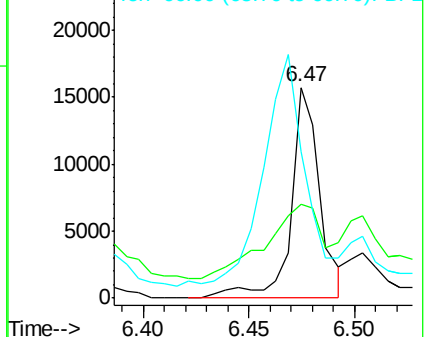
66 69.8 16.2 56.2#

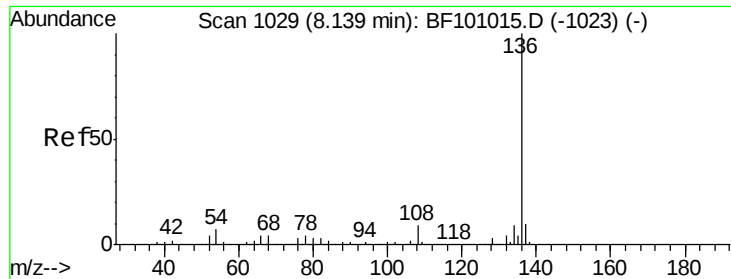


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1030

Delta R.T. 0.04 min

Lab File: BF101249.D

Acq: 8 Dec 2017 21:19

Instrument :

BNA_F

ClientSampleId :

SOILWASTE-CHARACTERIZATION

Tot Ion:136 Resp: 97775

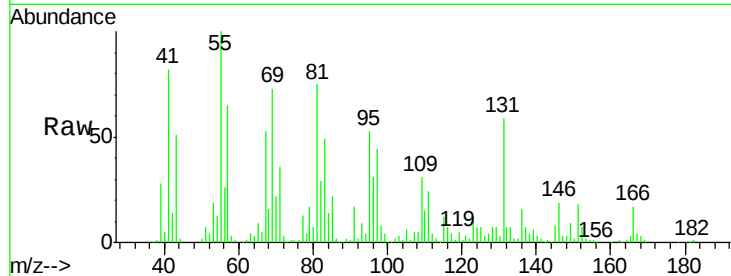
Ion Ratio Lower Upper

136 100

137 45.4 8.9 13.3#

54 80.9 6.6 9.8#

68 98.4 5.0 7.4#

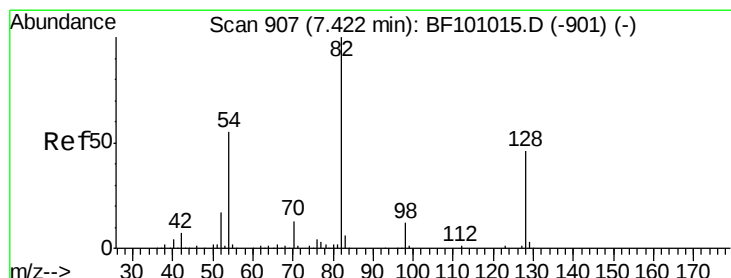
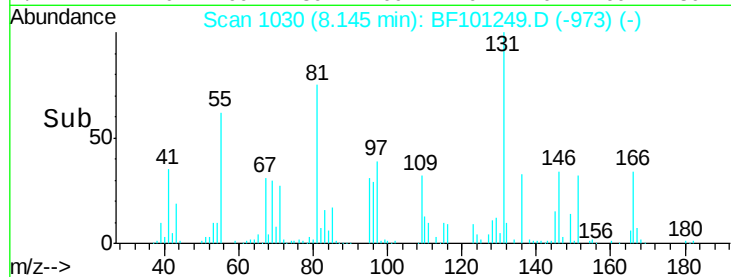
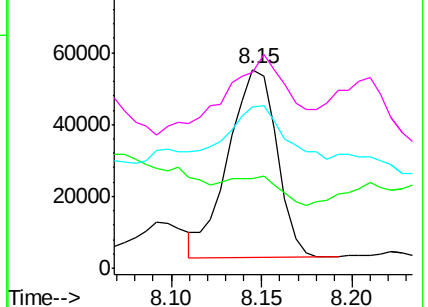


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 149.264 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.01 min

Lab File: BF101249.D

Acq: 8 Dec 2017 21:19

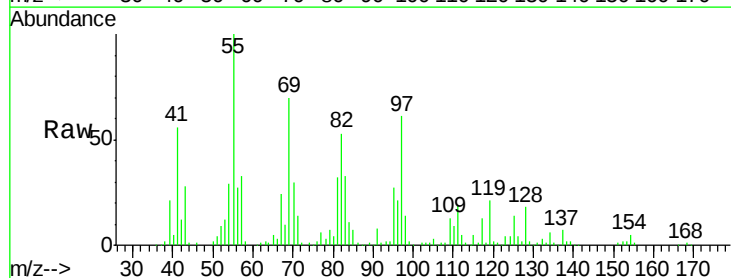
Tgt Ion: 82 Resp: 244653

Ion Ratio Lower Upper

82 100

128 34.1 36.1 54.1#

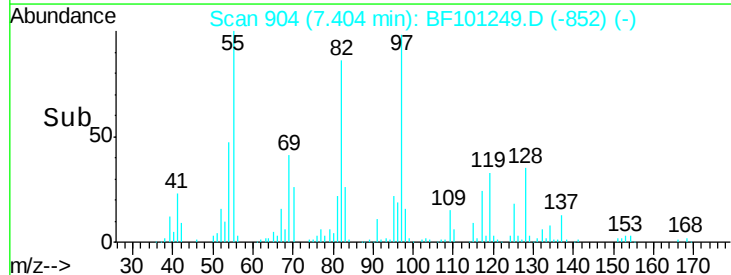
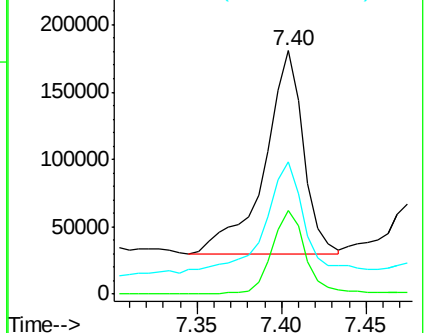
54 54.3 41.4 62.2

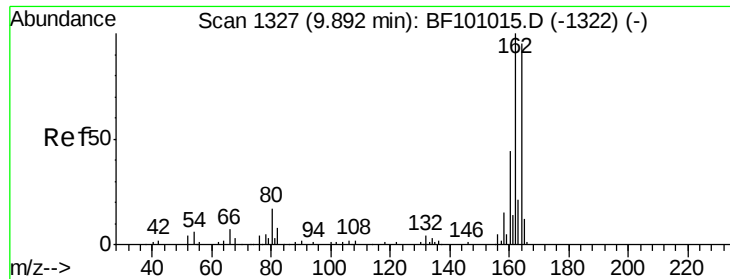


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

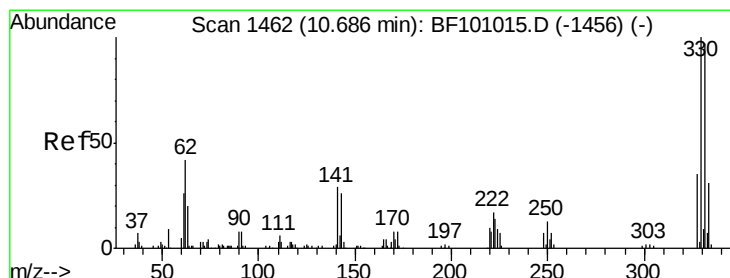
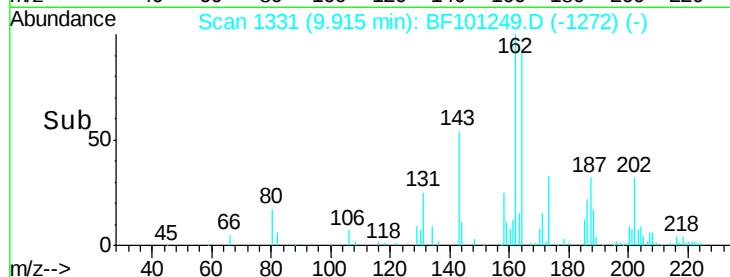
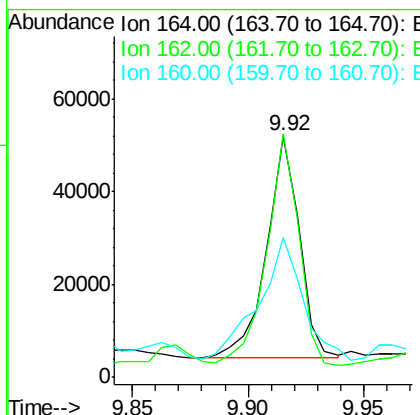
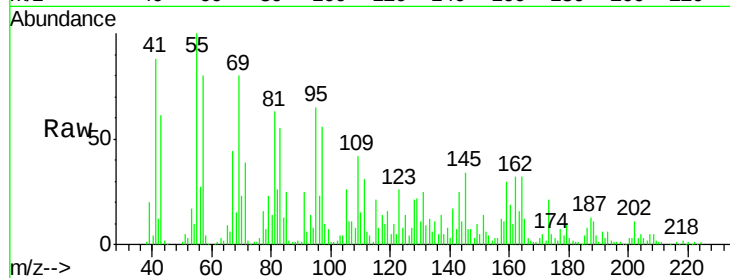




#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.92 min Scan# 1331
 Delta R.T. 0.05 min
 Lab File: BF101249.D
 Acq: 8 Dec 2017 21:19

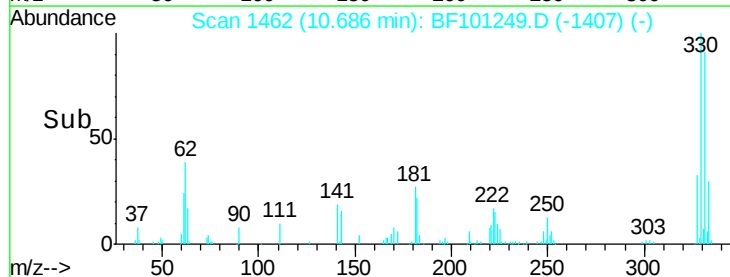
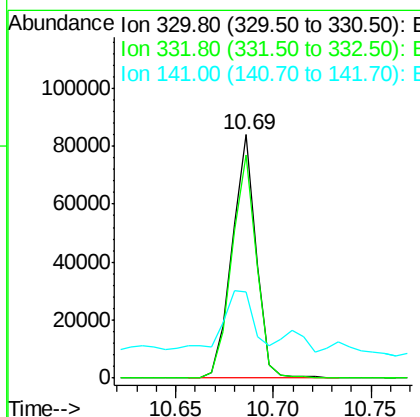
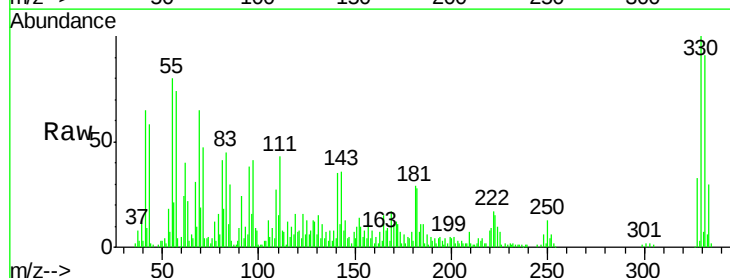
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 SOILWASTE-CHARACTERIZATION

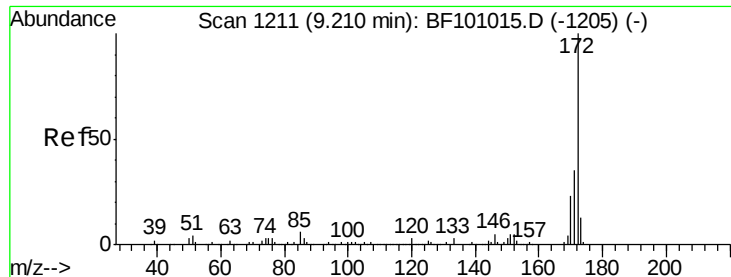
Tot Ion:164 Resp: 47607
 Ion Ratio Lower Upper
 164 100
 162 100.8 86.1 129.1
 160 58.0 38.3 57.5#



#41
 2,4,6-Tribromophenol
 Concen: 124.589 ng
 RT: 10.69 min Scan# 1462
 Delta R.T. 0.02 min
 Lab File: BF101249.D
 Acq: 8 Dec 2017 21:19

Tgt Ion:330 Resp: 71252
 Ion Ratio Lower Upper
 330 100
 332 94.2 77.0 115.6
 141 27.8 29.9 44.9#





#44

2-Fluorobiphenyl

Concen: 74.137 ng

RT: 9.23 min Scan# 1215

Delta R.T. 0.05 min

Lab File: BF101249.D

Acq: 8 Dec 2017 21:19

Instrument :

BNA_F

ClientSampleId :

SOILWASTE-CHARACTERIZATION

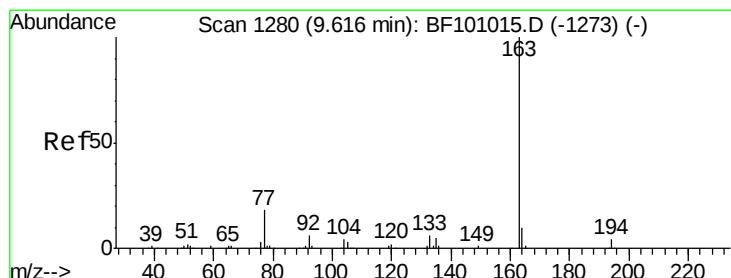
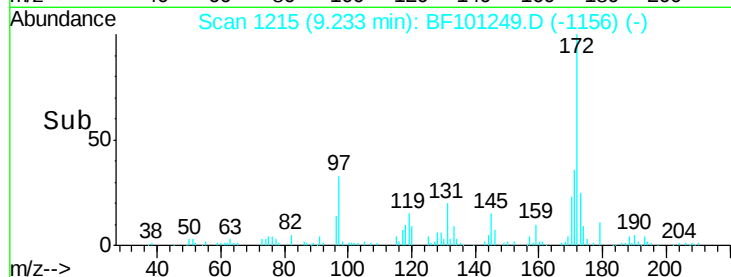
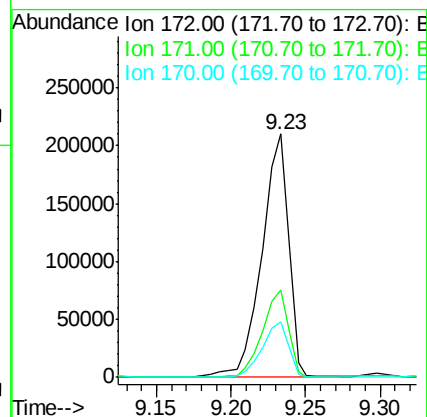
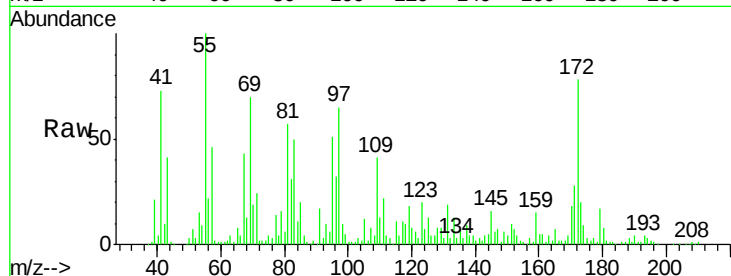
Tot Ion:172 Resp: 257963

Ion Ratio Lower Upper

172 100

171 36.1 29.7 44.5

170 22.7 19.6 29.4



#49

Dimethylphthalate

Concen: 9.893 ng

RT: 9.61 min Scan# 1279

Delta R.T. 0.02 min

Lab File: BF101249.D

Acq: 8 Dec 2017 21:19

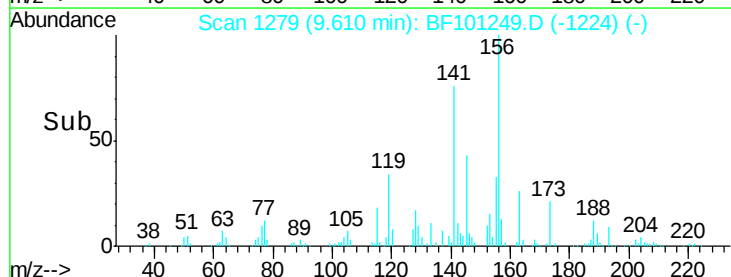
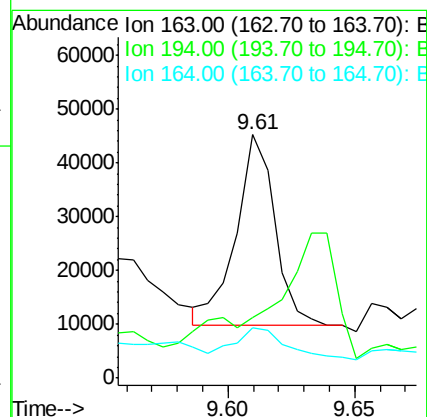
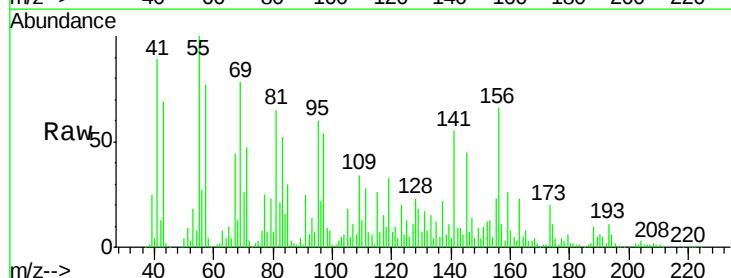
Tgt Ion:163 Resp: 37982

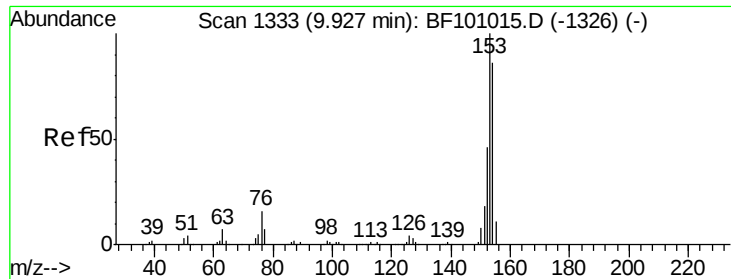
Ion Ratio Lower Upper

163 100

194 24.9 2.7 4.1#

164 20.5 8.2 12.2#





#51

Acenaphthene

Concen: 12.539 ng

RT: 9.95 min Scan# 1337

Delta R.T. 0.05 min

Lab File: BF101249.D

Acq: 8 Dec 2017 21:19

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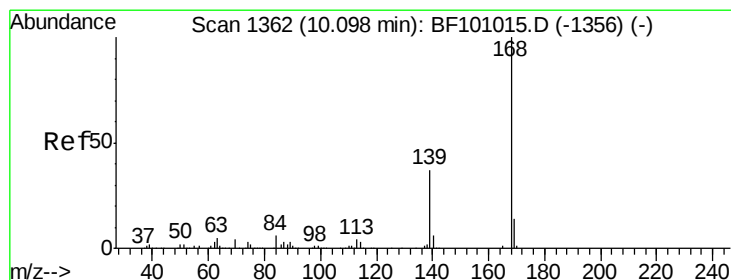
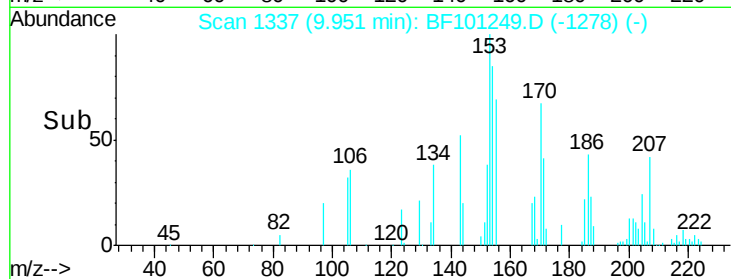
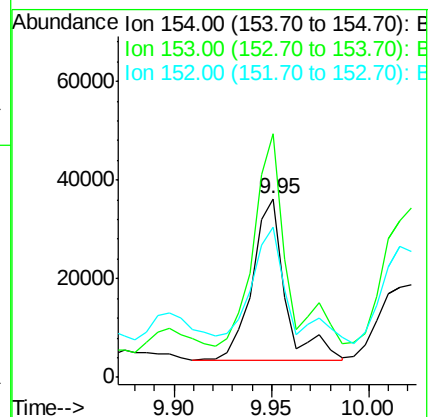
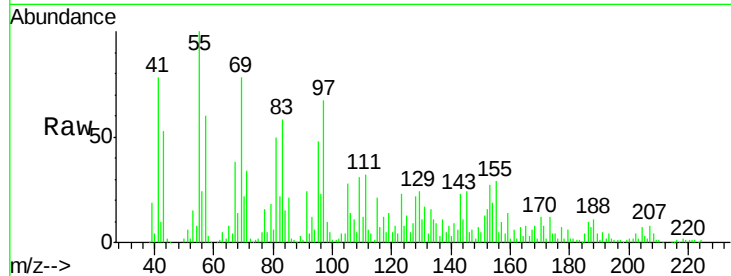
Tot Ion:154 Resp: 38223

Ion Ratio Lower Upper

154 100

153 136.1 91.2 136.8

152 84.2 43.8 65.8#



#54

Dibenzofuran

Concen: 9.324 ng m

RT: 10.12 min Scan# 1365

Delta R.T. 0.04 min

Lab File: BF101249.D

Acq: 8 Dec 2017 21:19

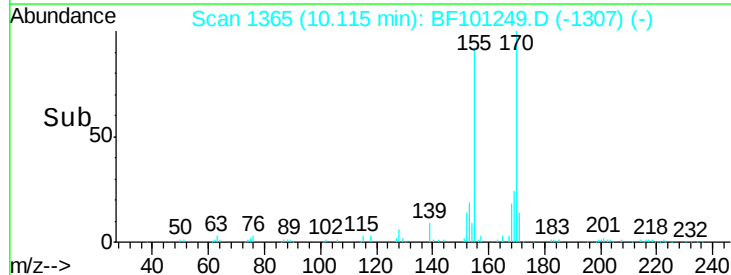
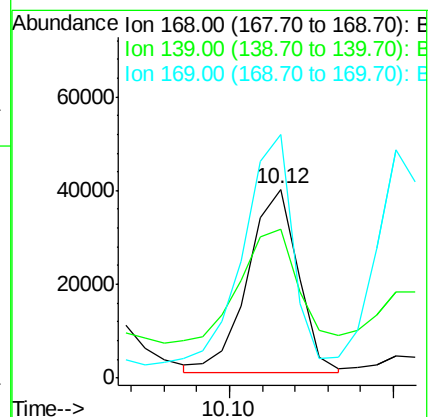
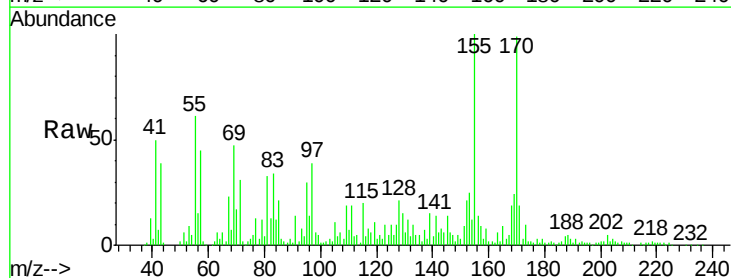
Tgt Ion:168 Resp: 40957

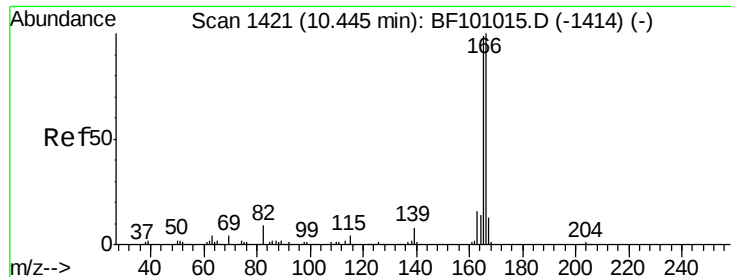
Ion Ratio Lower Upper

168 100

139 78.6 30.1 45.1#

169 128.8 10.9 16.3#

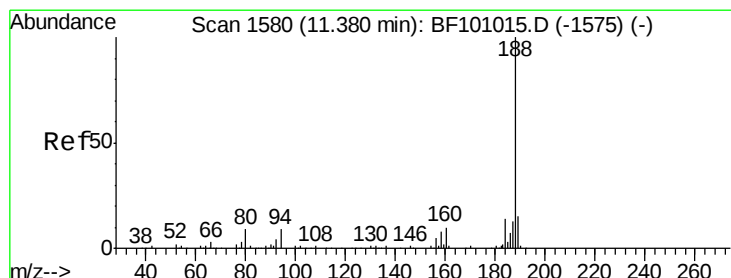
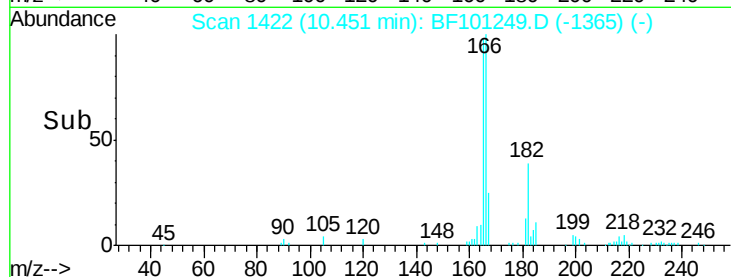
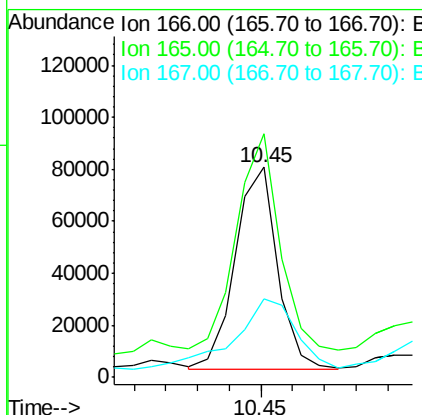
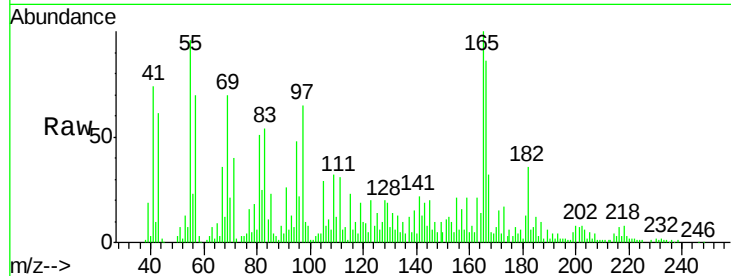




#57
Fluorene
 Concen: 20.207 ng
 RT: 10.45 min Scan# 1422
 Delta R.T. 0.04 min
 Lab File: BF101249.D
 Acq: 8 Dec 2017 21:19

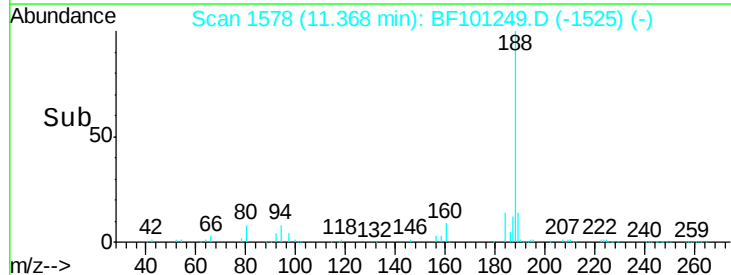
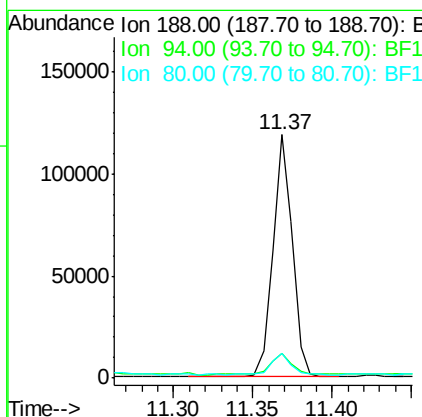
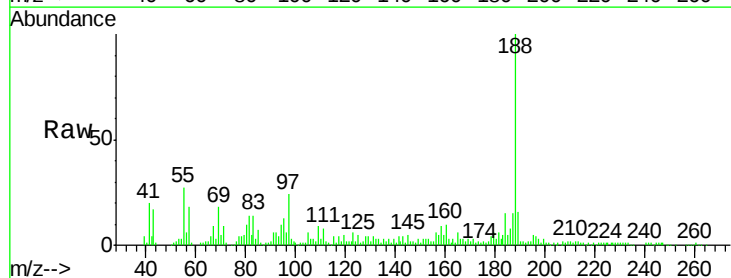
Instrument :
 BNA_F
 ClientSampleId :
 SOILWASTE-CHARACTERIZATION

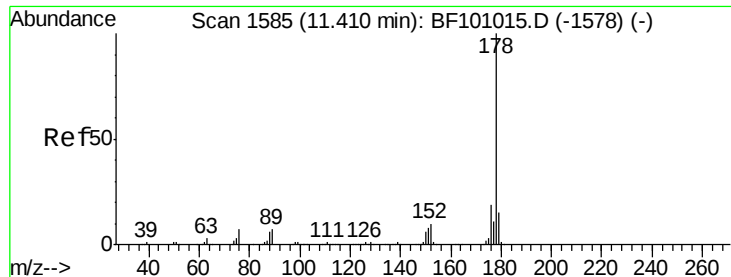
Tot Ion:166 Resp: 72158
 Ion Ratio Lower Upper
 166 100
 165 115.9 79.8 119.8
 167 37.4 10.6 16.0#



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.37 min Scan# 1578
 Delta R.T. 0.01 min
 Lab File: BF101249.D
 Acq: 8 Dec 2017 21:19

Tgt Ion:188 Resp: 101701
 Ion Ratio Lower Upper
 188 100
 94 10.3 8.5 12.7
 80 10.2 9.2 13.8

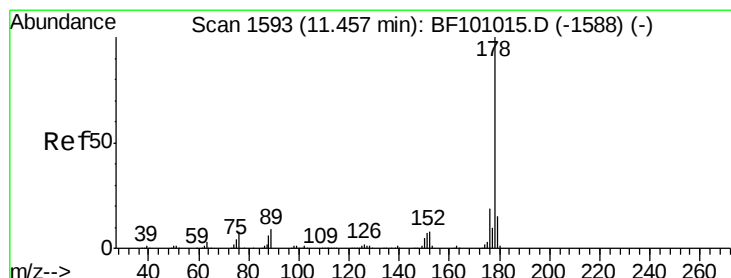
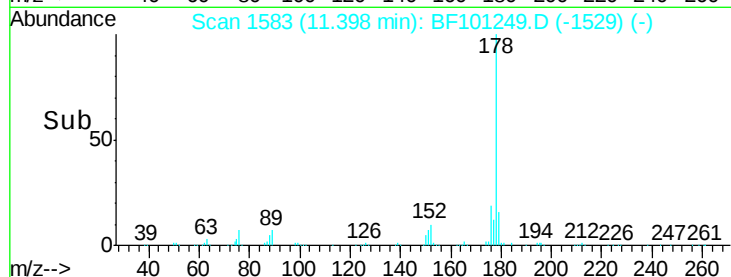
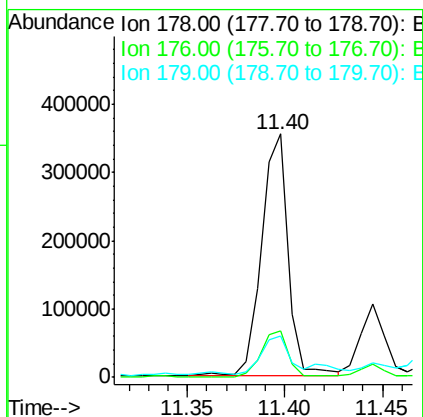
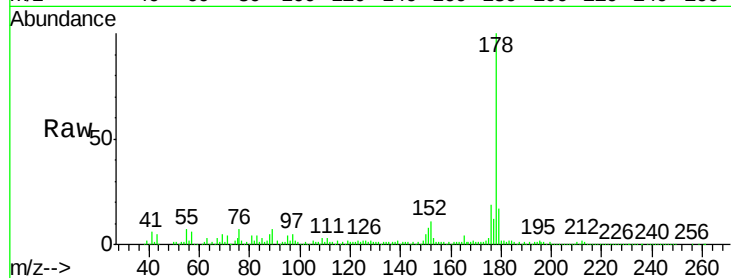




#70
Phenanthrene
Concen: 59.270 ng
RT: 11.40 min Scan# 1583
Delta R.T. 0.02 min
Lab File: BF101249.D
Acq: 8 Dec 2017 21:19

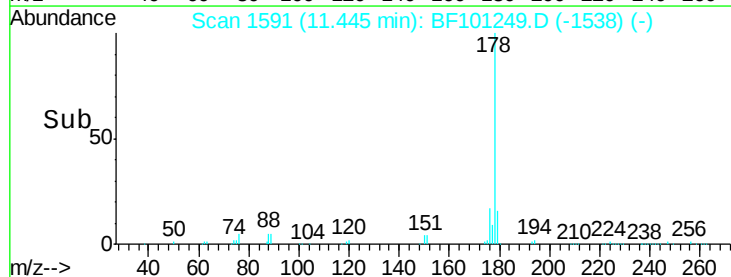
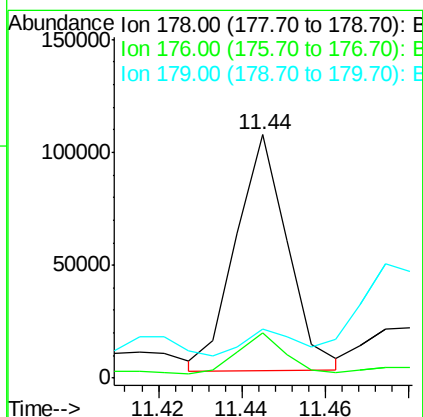
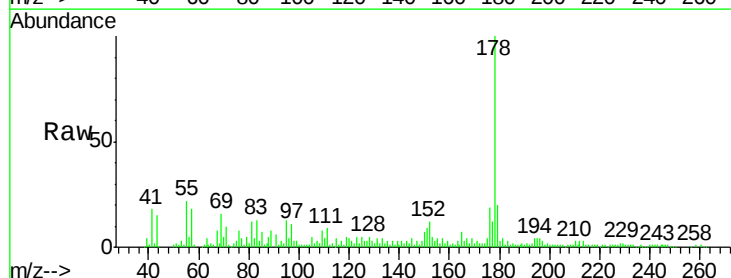
Instrument :
BNA_F
ClientSampleId :
SOILWASTE-CHARACTERIZATION

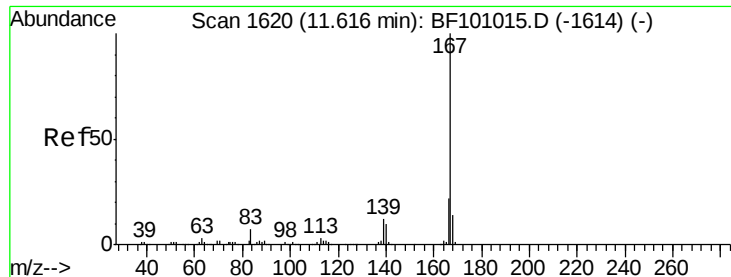
Tot Ion:178 Resp: 331947
Ion Ratio Lower Upper
178 100
176 19.2 15.8 23.8
179 17.1 13.0 19.6



#71
Anthracene
Concen: 15.750 ng m
RT: 11.44 min Scan# 1591
Delta R.T. 0.01 min
Lab File: BF101249.D
Acq: 8 Dec 2017 21:19

Tgt Ion:178 Resp: 89274
Ion Ratio Lower Upper
178 100
176 18.7 15.4 23.2
179 20.2 12.6 19.0#





#72

Carbazole

Concen: 3.238 ng

RT: 11.60 min Scan# 1617

Delta R.T. 0.01 min

Lab File: BF101249.D

Acq: 8 Dec 2017 21:19

Instrument :

BNA_F

ClientSampleId :

SOILWASTE-CHARACTERIZATION

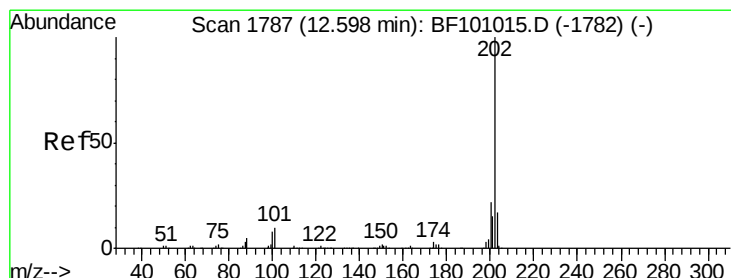
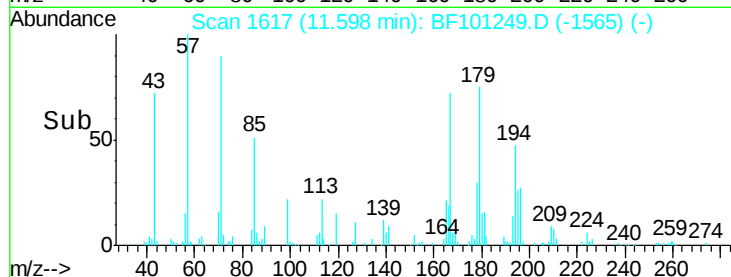
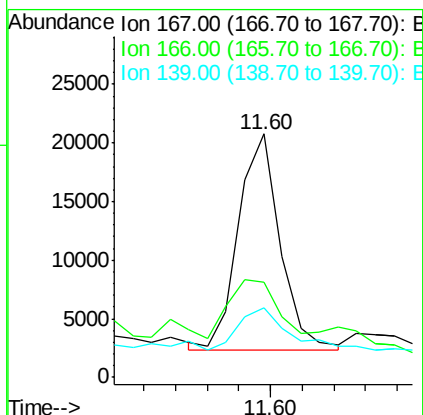
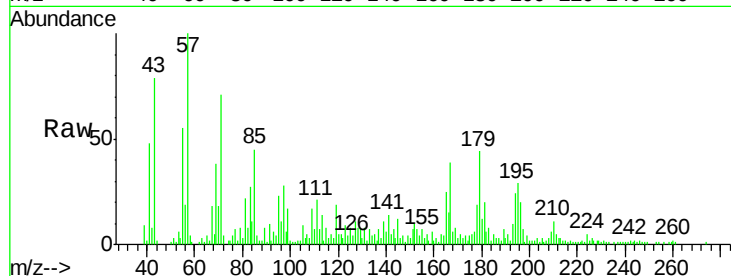
Tot Ion:167 Resp: 16770

Ion Ratio Lower Upper

167 100

166 39.1 17.6 26.4#

139 28.4 10.9 16.3#



#74

Fluoranthene

Concen: 60.272 ng

RT: 12.58 min Scan# 1784

Delta R.T. 0.01 min

Lab File: BF101249.D

Acq: 8 Dec 2017 21:19

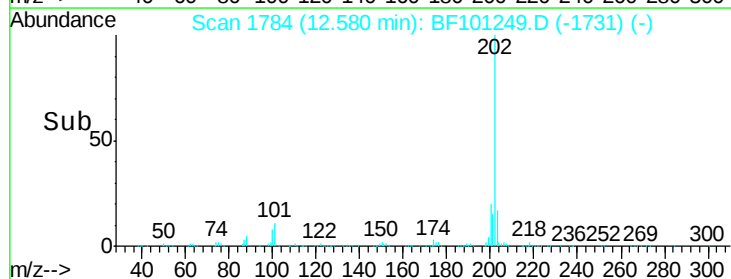
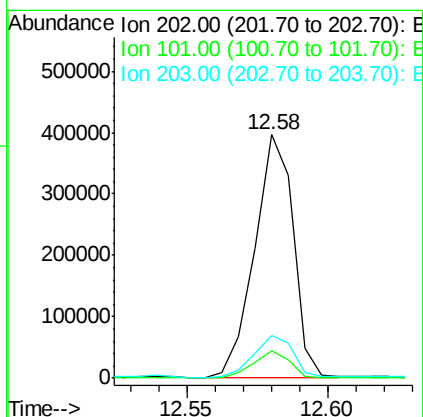
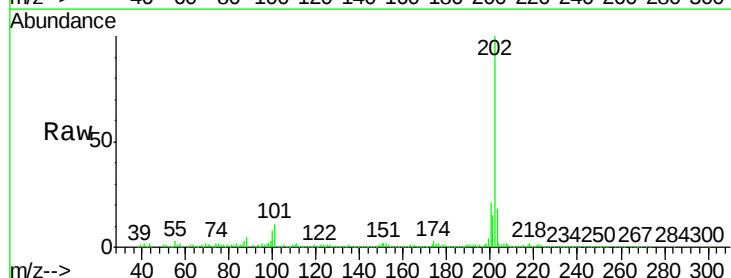
Tgt Ion:202 Resp: 374182

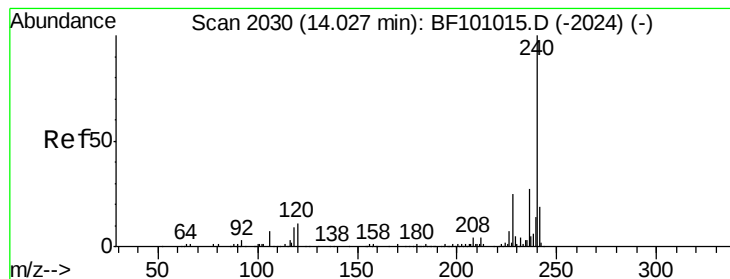
Ion Ratio Lower Upper

202 100

101 11.4 0.0 34.1

203 17.7 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.01 min Scan# 2027

Delta R.T. 0.01 min

Lab File: BF101249.D

Acq: 8 Dec 2017 21:19

Instrument :

BNA_F

ClientSampleId :

SOILWASTE-CHARACTERIZATION

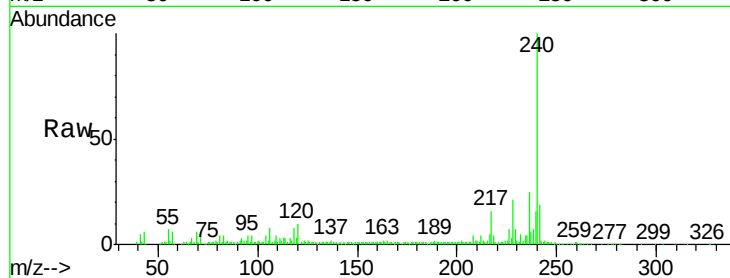
Tot Ion:240 Resp: 104136

Ion Ratio Lower Upper

240 100

120 10.0 9.5 14.3

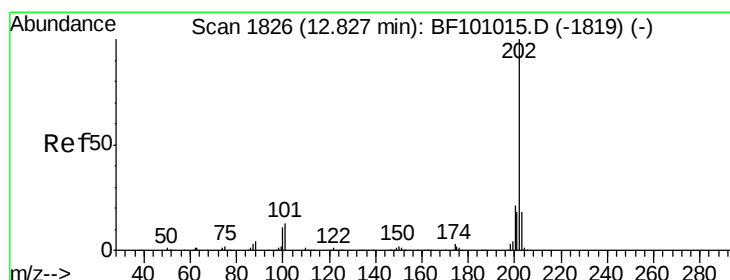
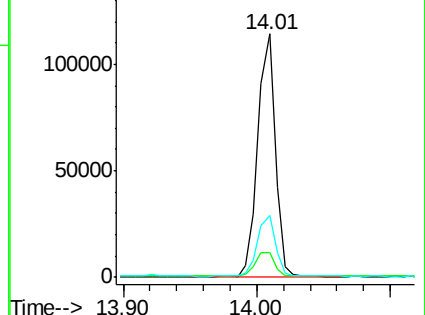
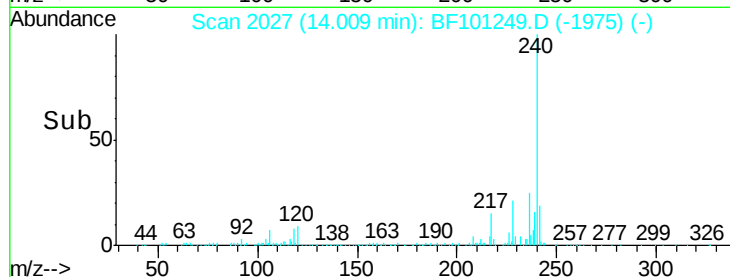
236 25.3 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 53.024 ng

RT: 12.82 min Scan# 1824

Delta R.T. 0.01 min

Lab File: BF101249.D

Acq: 8 Dec 2017 21:19

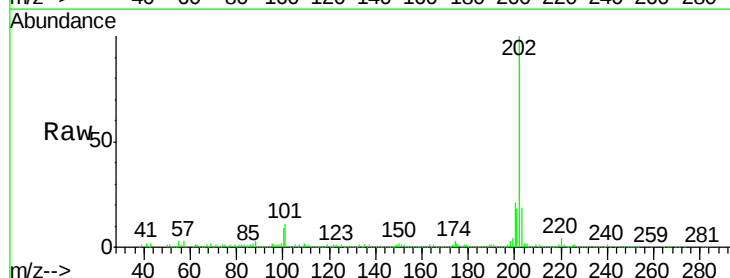
Tgt Ion:202 Resp: 381015

Ion Ratio Lower Upper

202 100

200 21.1 17.4 26.2

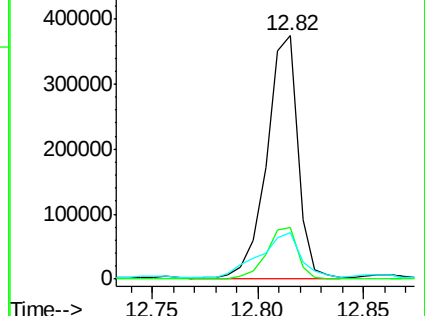
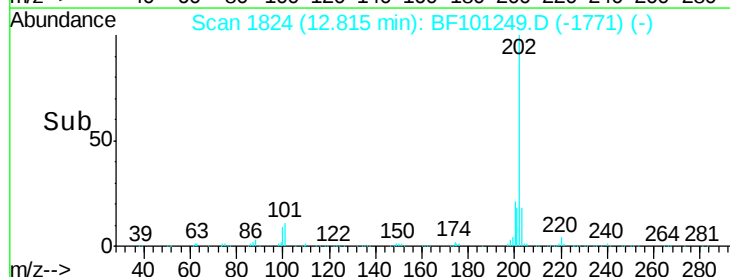
203 18.9 14.3 21.5

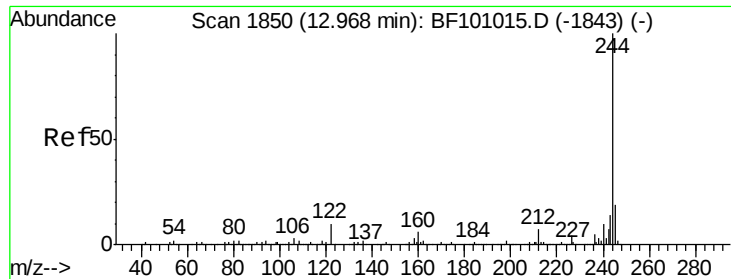


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 65.954 ng

RT: 12.94 min Scan# 1846

Delta R.T. 0.01 min

Lab File: BF101249.D

Acq: 8 Dec 2017 21:19

Instrument :

BNA_F

ClientSampleId :

SOILWASTE-CHARACTERIZATION

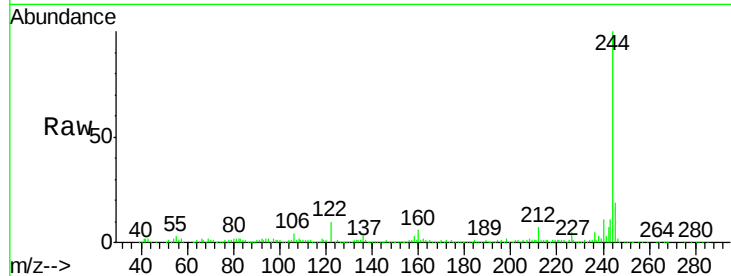
Tot Ion:244 Resp: 314008

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

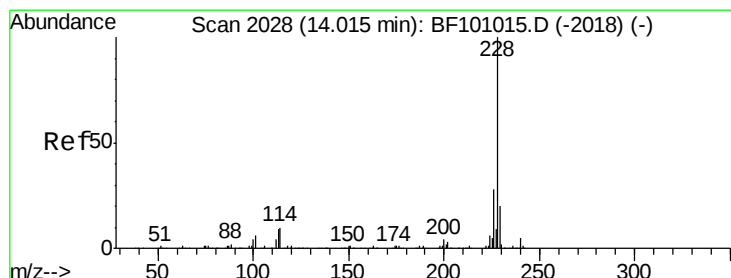
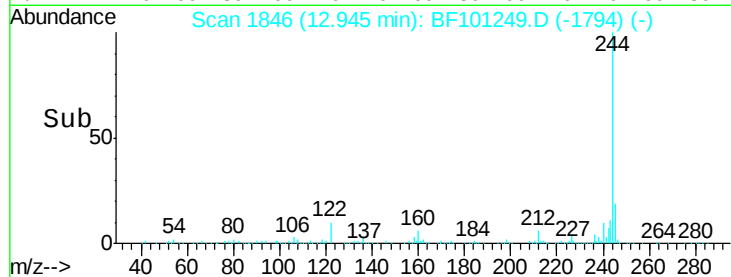
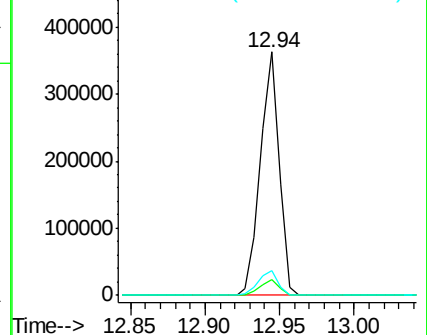
122 9.9 11.0 16.4#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 24.849 ng m

RT: 14.00 min Scan# 2025

Delta R.T. 0.01 min

Lab File: BF101249.D

Acq: 8 Dec 2017 21:19

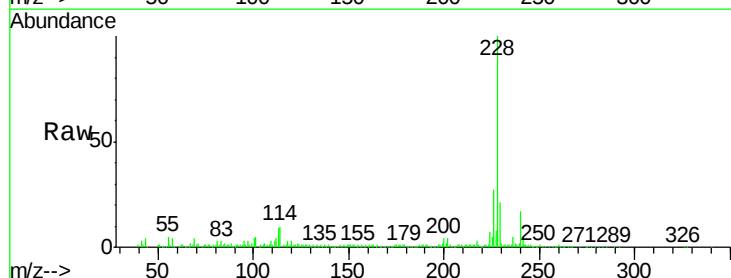
Tgt Ion:228 Resp: 163382

Ion Ratio Lower Upper

228 100

226 27.2 22.6 33.8

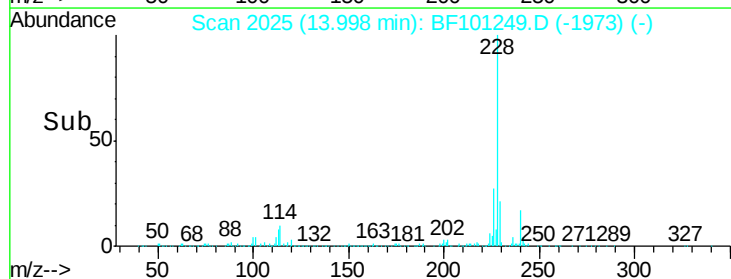
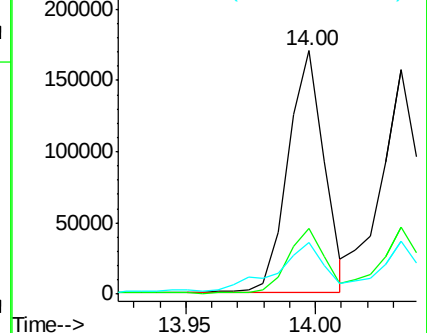
229 21.3 15.8 23.6

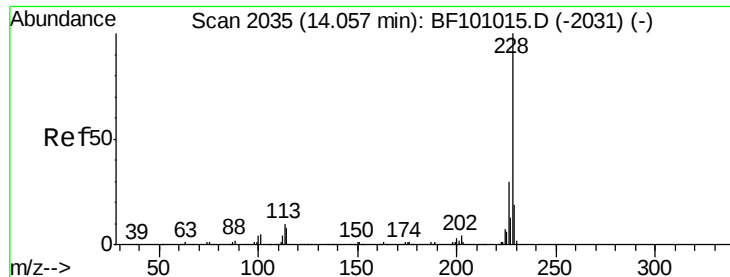


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 24.578 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BF101249.D

Acq: 8 Dec 2017 21:19

Instrument :

BNA_F

ClientSampleId :

SOILWASTE-CHARACTERIZATION

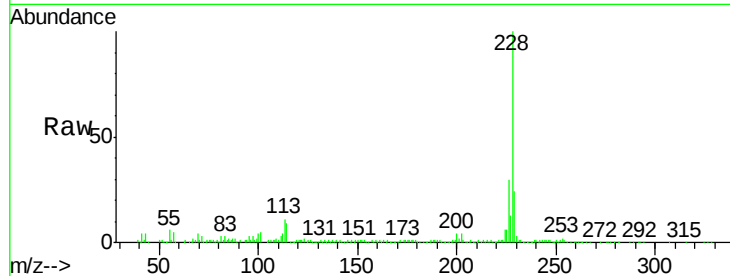
Tot Ion:228 Resp: 150079

Ion Ratio Lower Upper

228 100

226 29.8 25.0 37.6

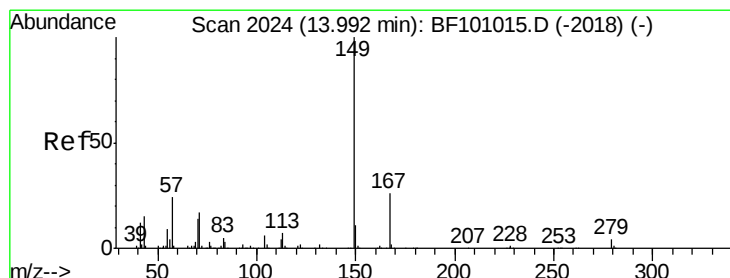
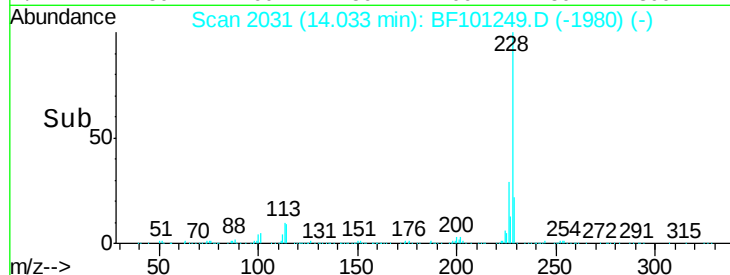
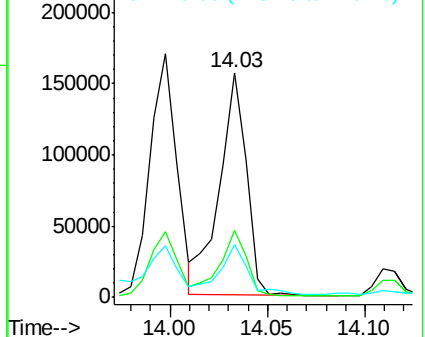
229 23.5 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.108 ng

RT: 13.97 min Scan# 2020

Delta R.T. 0.01 min

Lab File: BF101249.D

Acq: 8 Dec 2017 21:19

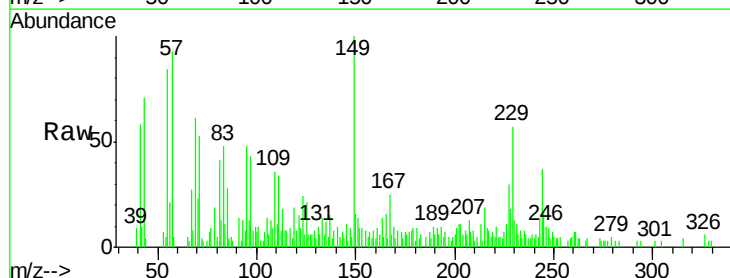
Tgt Ion:149 Resp: 9523

Ion Ratio Lower Upper

149 100

167 25.3 21.3 31.9

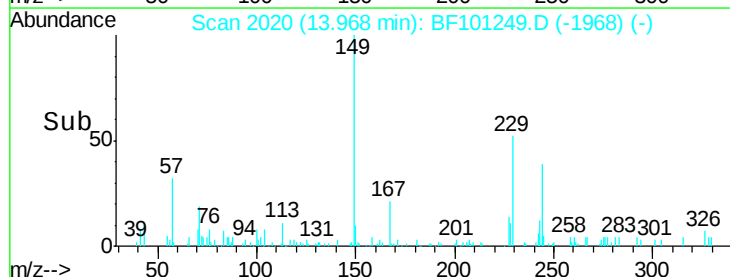
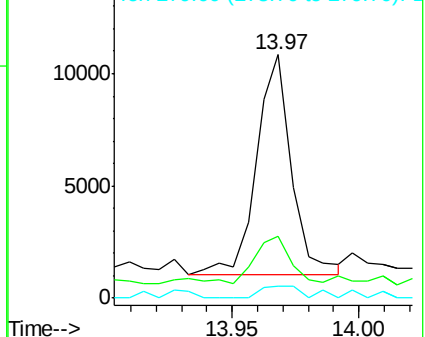
279 5.0 3.0 4.4#

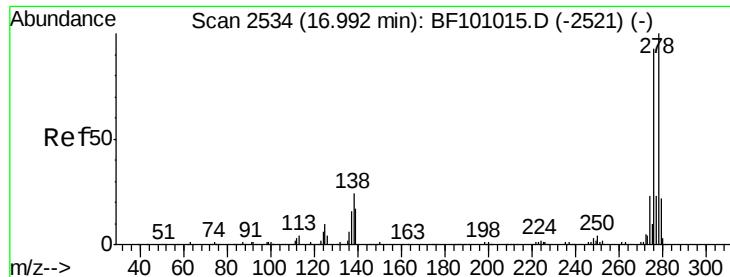


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

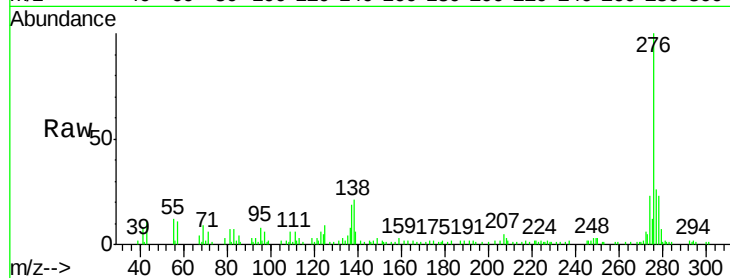




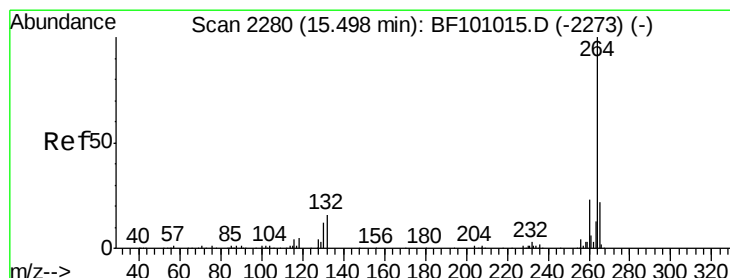
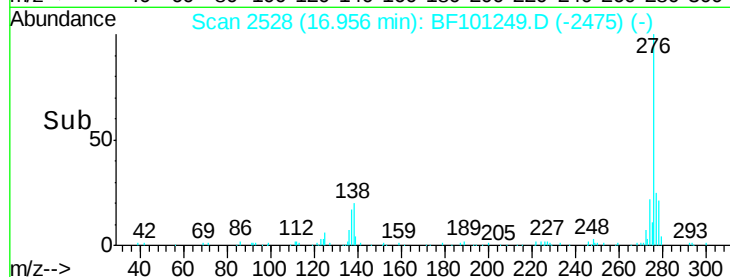
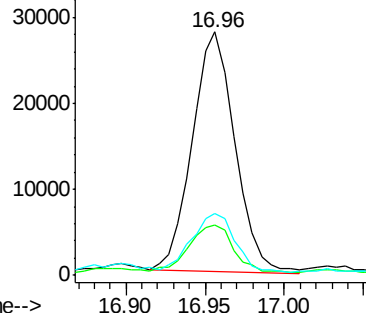
#85
Indeno(1,2,3-cd)pyrene
Concen: 9.575 ng
RT: 16.96 min Scan# 2528
Delta R.T. 0.01 min
Lab File: BF101249.D
Acq: 8 Dec 2017 21:19

Instrument :
BNA_F
ClientSampleId :
SOILWASTE-CHARACTERIZATION

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.8	25.0	37.6#
277	24.9	20.1	30.1

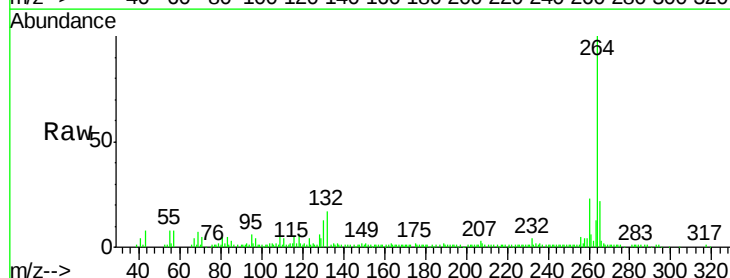


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

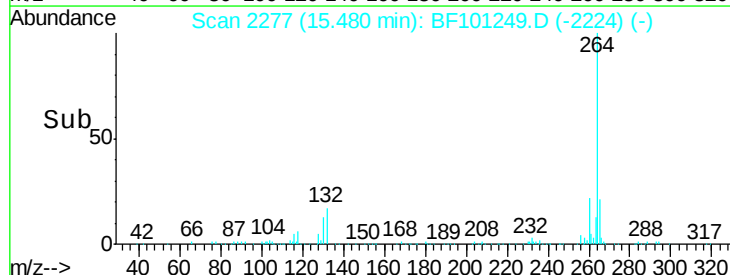
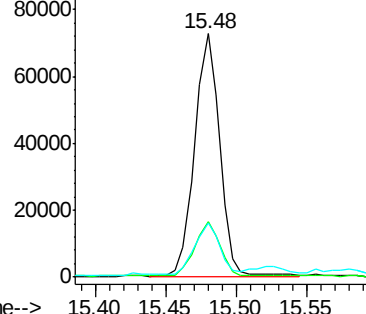


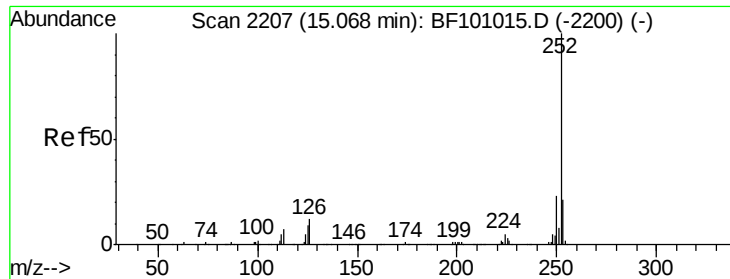
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.48 min Scan# 2277
Delta R.T. 0.01 min
Lab File: BF101249.D
Acq: 8 Dec 2017 21:19

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.8	19.2	28.8
265	22.1	17.5	26.3



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

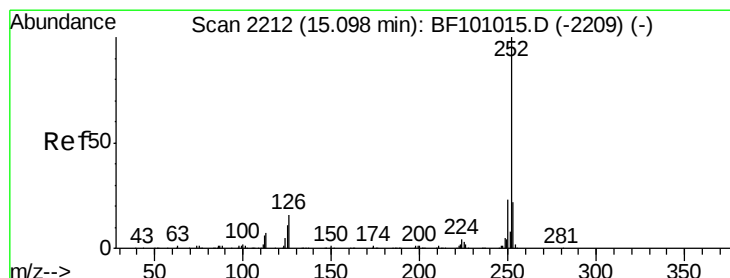
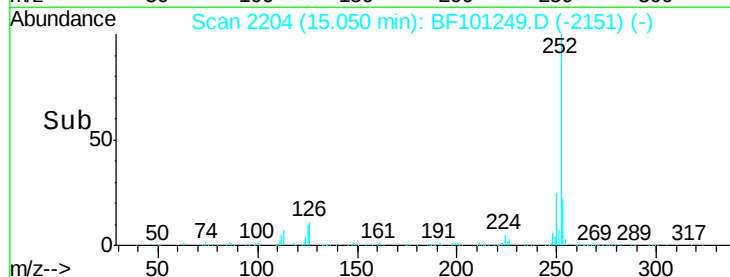
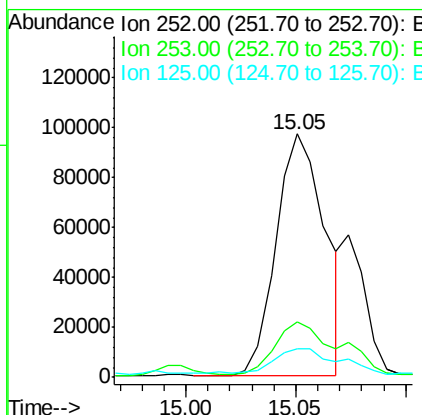
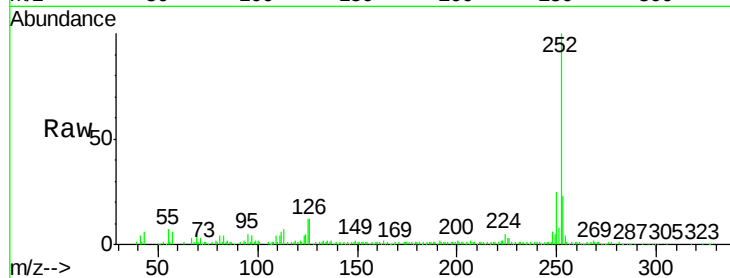




#87
Benzo(b)fluoranthene
Concen: 27.476 ng m
RT: 15.05 min Scan# 2204
Delta R.T. 0.01 min
Lab File: BF101249.D
Acq: 8 Dec 2017 21:19

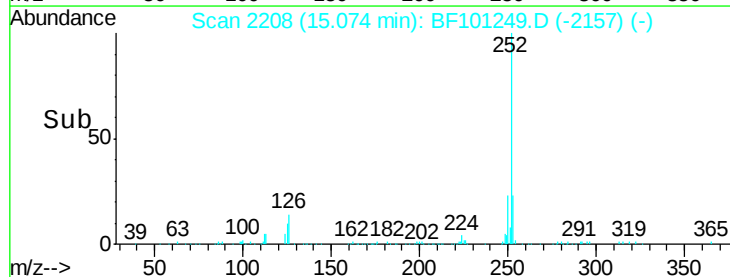
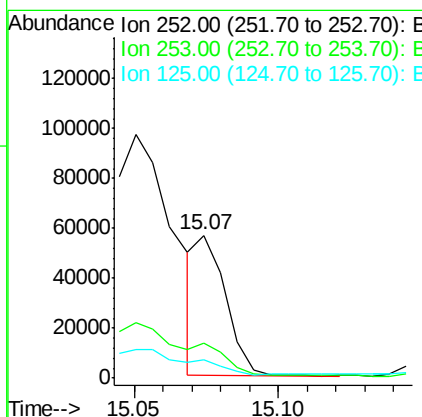
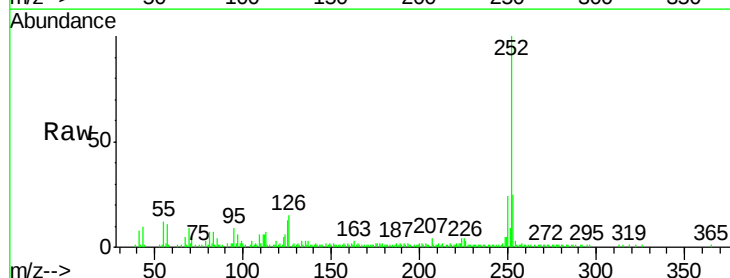
Instrument :
BNA_F
ClientSampleId :
SOILWASTE-CHARACTERIZATION

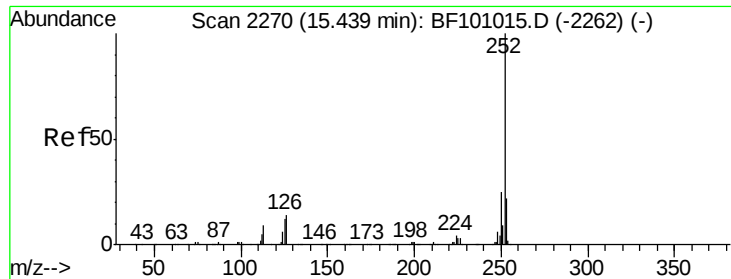
Tot Ion:252 Resp: 150536
Ion Ratio Lower Upper
252 100
253 22.8 17.0 25.6
125 11.8 9.0 13.6



#88
Benzo(k)fluoranthene
Concen: 7.533 ng m
RT: 15.07 min Scan# 2208
Delta R.T. -0.00 min
Lab File: BF101249.D
Acq: 8 Dec 2017 21:19

Tgt Ion:252 Resp: 40662
Ion Ratio Lower Upper
252 100
253 24.6 17.9 26.9
125 12.8 10.2 15.2

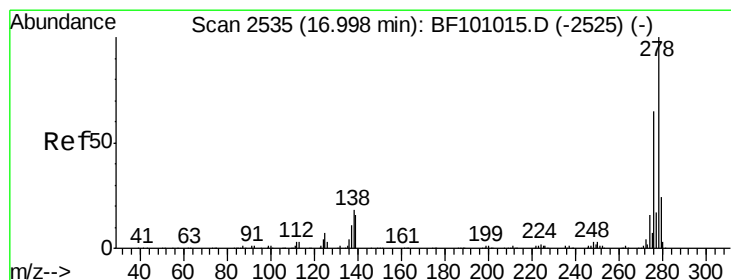
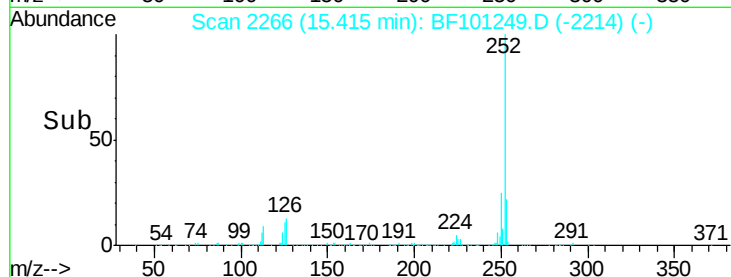
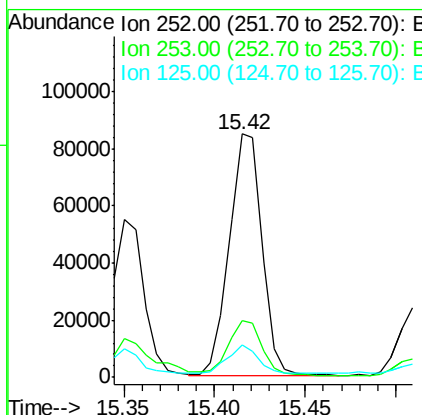
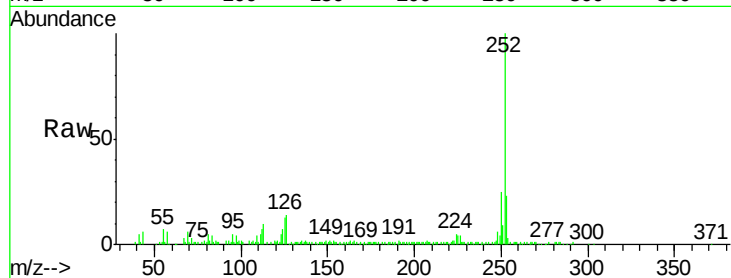




#89
Benzo(a)pyrene
Concen: 21.505 ng
RT: 15.42 min Scan# 2266
Delta R.T. 0.01 min
Lab File: BF101249.D
Acq: 8 Dec 2017 21:19

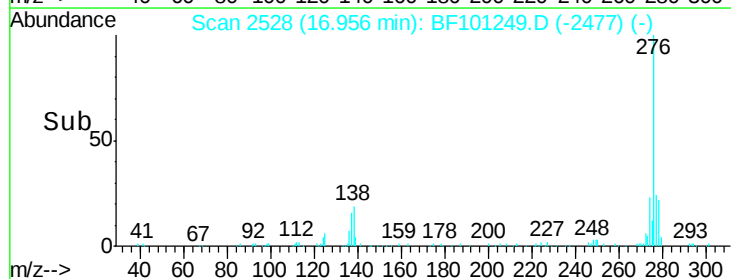
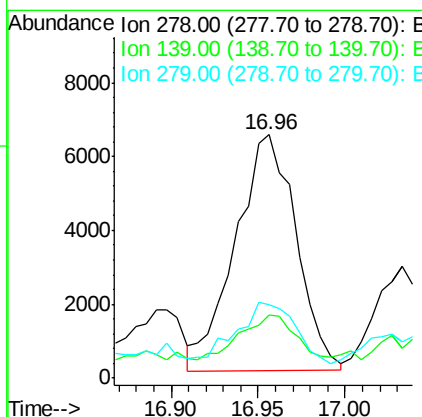
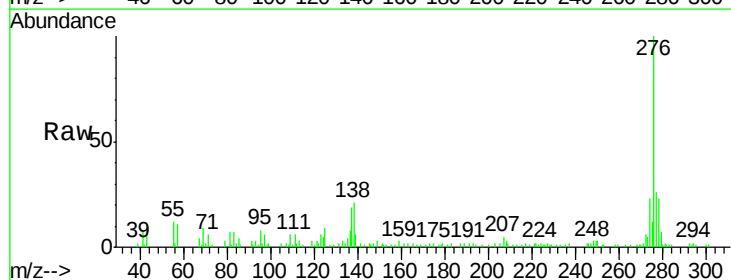
Instrument :
BNA_F
ClientSampleId :
SOILWASTE-CHARACTERIZATION

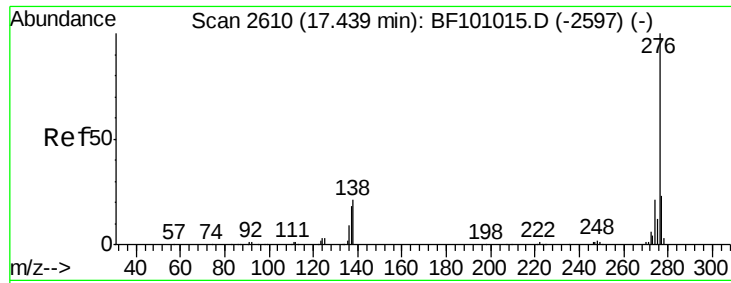
Tot Ion:252 Resp: 107117
Ion Ratio Lower Upper
252 100
253 23.2 17.1 25.7
125 13.2 9.8 14.6



#90
Dibenzo(a,h)anthracene
Concen: 3.516 ng m
RT: 16.96 min Scan# 2528
Delta R.T. -0.00 min
Lab File: BF101249.D
Acq: 8 Dec 2017 21:19

Tgt Ion:278 Resp: 15438
Ion Ratio Lower Upper
278 100
139 26.0 15.9 23.9#
279 30.0 19.0 28.4#

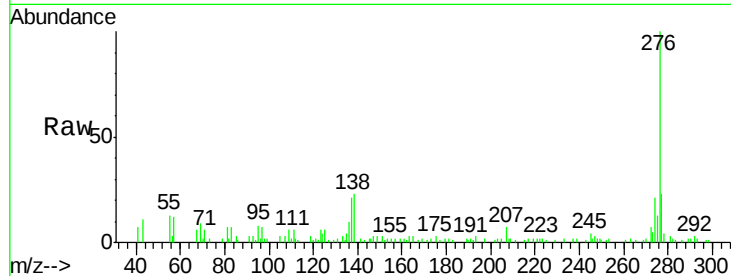




#91
 Benzo(a,h,i)perylene
 Concen: 12.657 ng
 RT: 17.40 min Scan# 2604
 Delta R.T. 0.01 min
 Lab File: BF101249.D
 Acq: 8 Dec 2017 21:19

Instrument :
 BNA_F
 ClientSampleId :
 SOILWASTE-CHARACTERIZATION

Tot Ion:276 Resp: 52378
 Ion Ratio Lower Upper
 276 100
 277 22.9 17.9 26.9
 138 22.7 21.8 32.8



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

