

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092316\
 Data File : BF090205.D
 Acq On : 23 Sep 2016 18:44
 Operator : UM/SJ
 Sample : H4870-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOILWASTE -CHARACTERIZATION

Manual Integrations
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Quant Time: Sep 26 04:36:08 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 20 17:58:29 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.49	152	137773	20.00	ng	-0.03
21) Naphthalene-d8	7.78	136	467025	20.00	ng	-0.03
38) Acenaphthene-d10	9.52	164	230099	20.00	ng	-0.03
63) Phenanthrene-d10	10.99	188	317783	20.00	ng	-0.03
75) Chrysene-d12	13.60	240	241982	20.00	ng	-0.03
86) Perylene-d12	14.93	264	229614	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.06	112	858095	101.52	ng	-0.01
7) Phenol-d6	6.16	99	1196752	114.65	ng	-0.01
23) Nitrobenzene-d5	7.06	82	559482	69.44	ng	-0.03
41) 2,4,6-Tribromophenol	10.31	330	184374	93.40	ng	-0.03
44) 2-Fluorobiphenyl	8.87	172	884248	75.44	ng	-0.02
78) Terphenyl-d14	12.57	244	518658	54.42	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	7.80	128	104626	4.70	ng	# 96
37) 2-Methylnaphthalene	8.49	142	34109m	2.47	ng	
48) Acenaphthylene	9.38	152	45260	2.29	ng	# 74
49) Dimethylphthalate	9.27	163	336413	22.95	ng	99
51) Acenaphthene	9.55	154	75465	6.45	ng	99
54) Dibenzofuran	9.72	168	67817	4.40	ng	# 77
57) Fluorene	10.07	166	77992	6.72	ng	# 93
70) Phenanthrene	11.02	178	753710	50.71	ng	100
71) Anthracene	11.06	178	201862	12.95	ng	96
72) Carbazole	11.22	167	63687	3.86	ng	# 91
74) Fluoranthene	12.19	202	796694	49.94	ng	99
77) Pvrene	12.41	202	830959	50.18	ng	# 94
80) Benzo(a)anthracene	13.60	228	390779	30.02	ng	98
82) Chrysene	13.63	228	315398m	24.87	ng	
83) Bis(2-ethylhexyl)phthalate	13.62	149	114189	11.02	ng	98
85) Indeno(1,2,3-cd)pyrene	16.08	276	170642	16.64	ng	# 91
87) Benzo(b)fluoranthene	14.59	252	476470m	37.47	ng	
88) Benzo(k)fluoranthene	14.61	252	78345m	6.57	ng	
89) Benzo(a)pvrene	14.88	252	305288	25.53	ng	# 94
90) Dibenzo(a,h)anthracene	16.09	278	35029m	3.75	ng	
91) Benzo(g,h,i)perylene	16.42	276	163416	17.89	ng	98

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

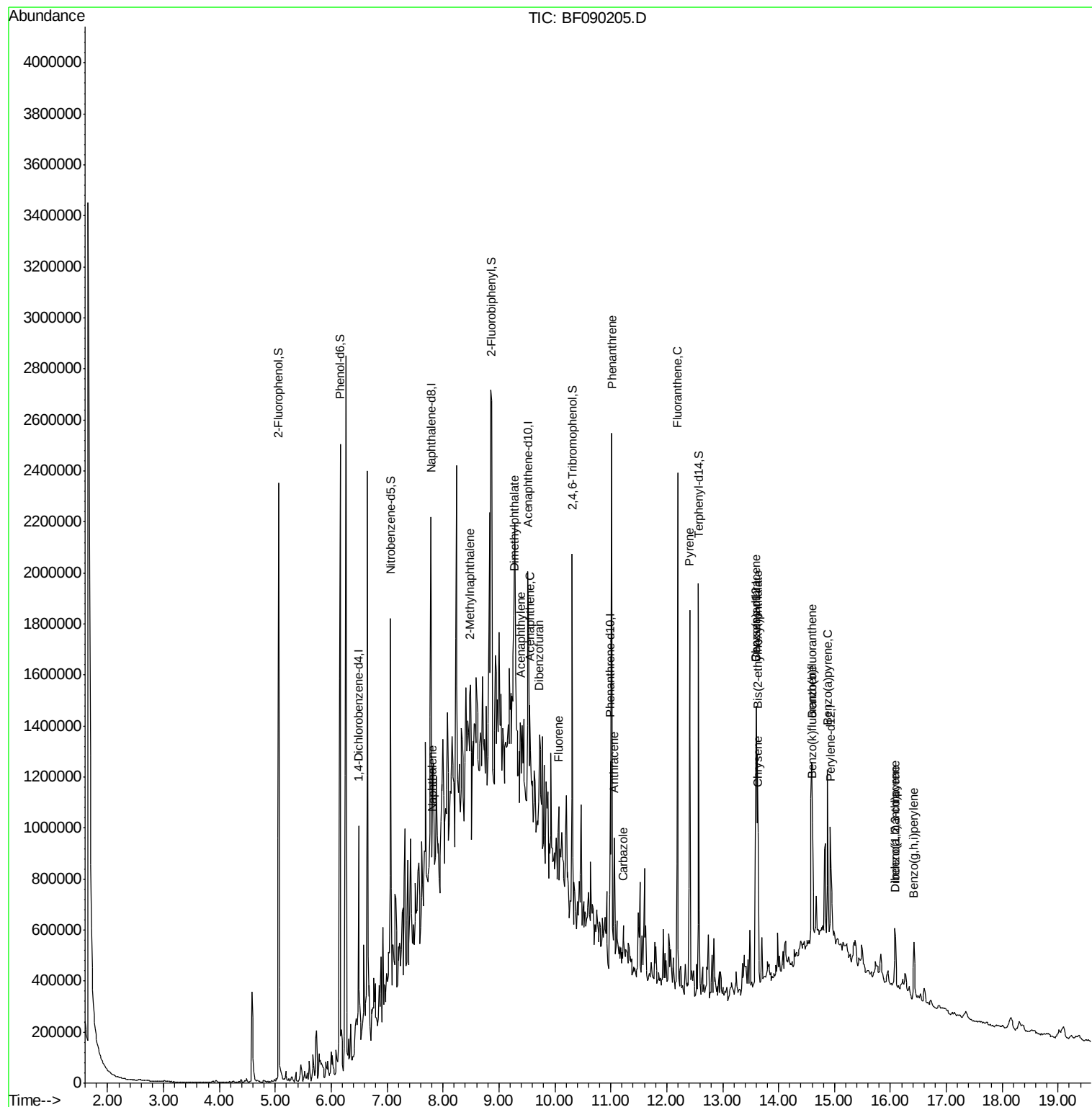
Data Path : Z:\HPCHEM1\BNA F\DATA\BF092316\
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Sample : H4870-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

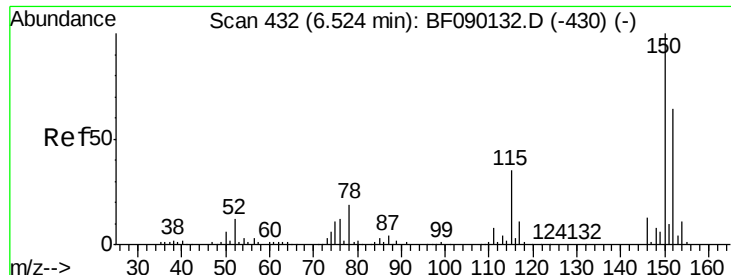
Instrument :
BNA_F
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SOILWASTE -CHARACTERIZATION

Quant Time: Sep 26 04:36:08 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M
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#1

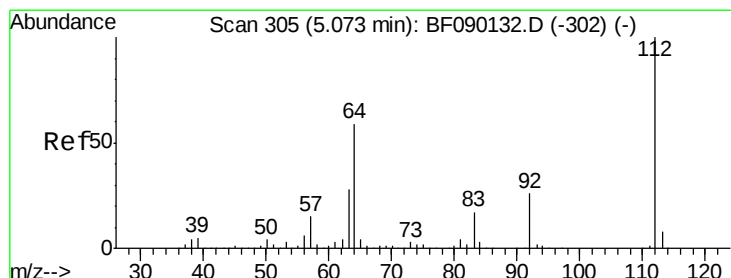
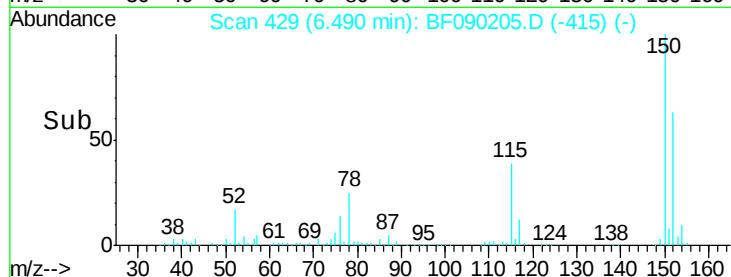
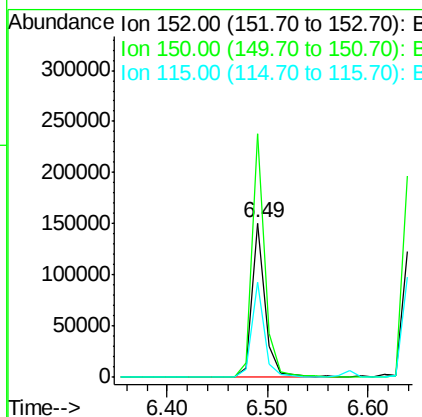
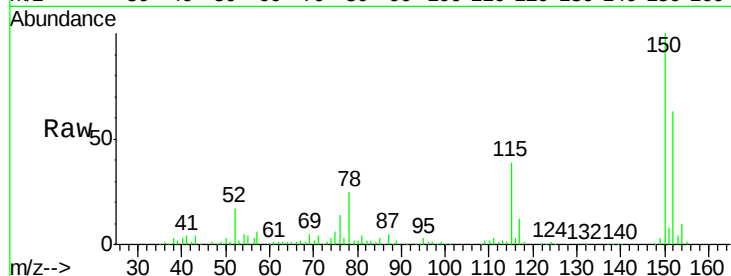
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.49 min Scan# 429
Delta R.T. -0.03 min
Lab File: BF090205.D
Acq: 23 Sep 2016 18:44

Instrument :
BNA_F
ClientSampleId :
SOILWASTE -CHARACTERIZATION

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.7	128.9	193.3
115	61.7	55.5	83.3

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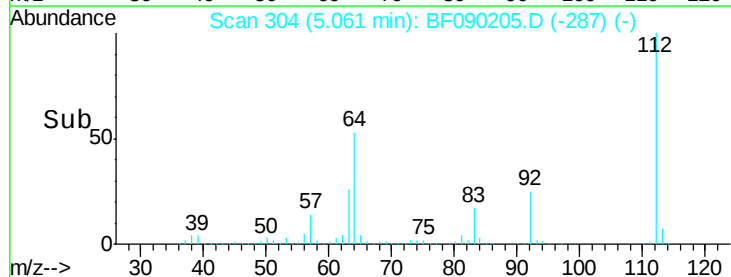
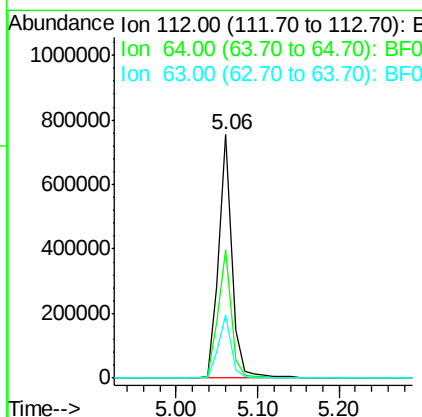
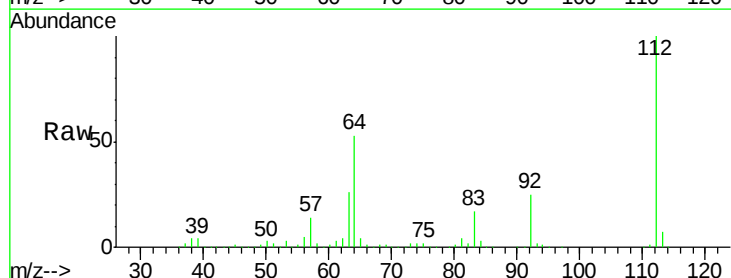
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#5

2-Fluorophenol
Concen: 101.52 ng
RT: 5.06 min Scan# 304
Delta R.T. -0.01 min
Lab File: BF090205.D
Acq: 23 Sep 2016 18:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.9	39.8	59.6
63	25.8	18.9	28.3





#7

Phenol-d6

Concen: 114.65 ng

RT: 6.16 min Scan# 400

Delta R.T. -0.01 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Instrument :

BNA_F

ClientSampleId :

SOILWASTE -CHARACTERIZATION

Tot Ion: 99 Resp: 1196752

Ion Ratio Lower Upper

99 100

42 12.0 10.6 15.8

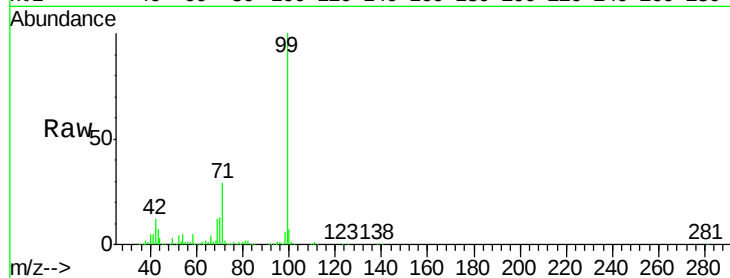
71 29.3 23.0 34.6

Manual Integrations

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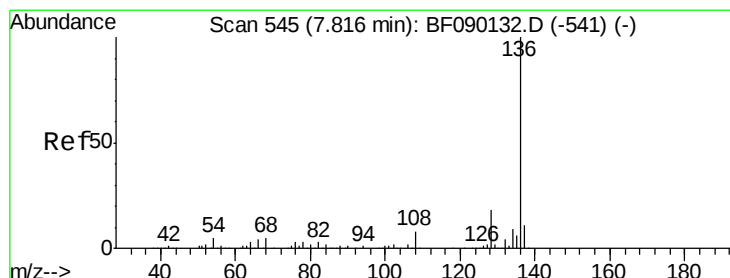
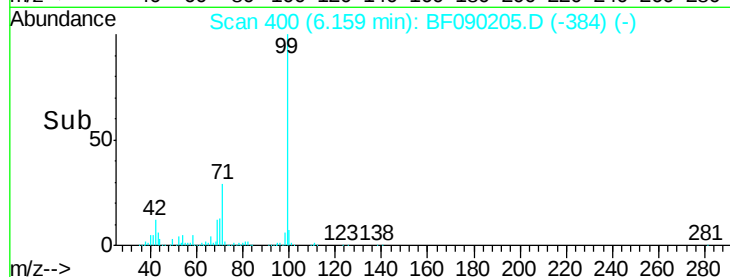
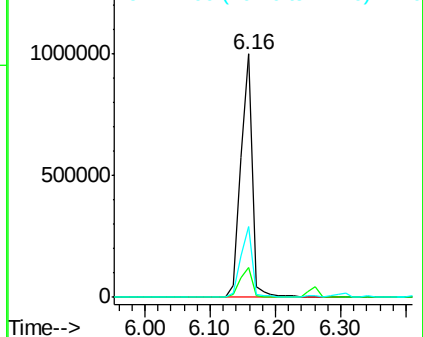
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.78 min Scan# 542

Delta R.T. -0.03 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Tgt Ion: 136 Resp: 467025

Ion Ratio Lower Upper

136 100

137 12.1 9.0 13.4

54 7.9 6.4 9.6

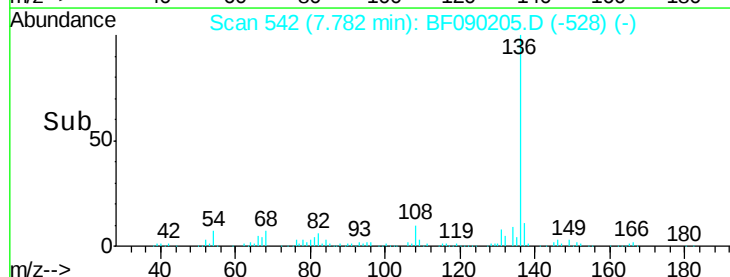
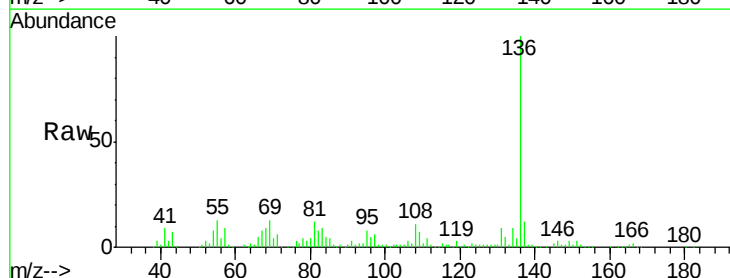
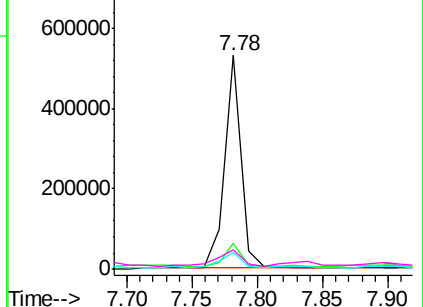
68 8.7 6.3 9.5

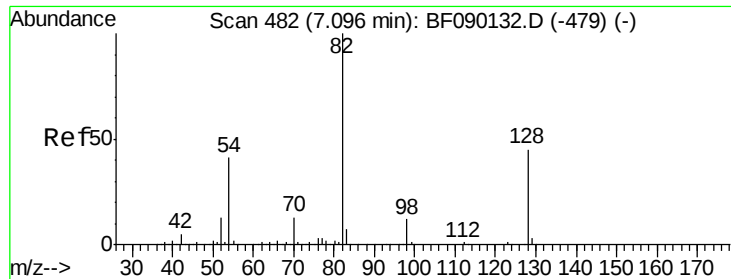
Abundance Ion 136.00 (135.70 to 136.70): E

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





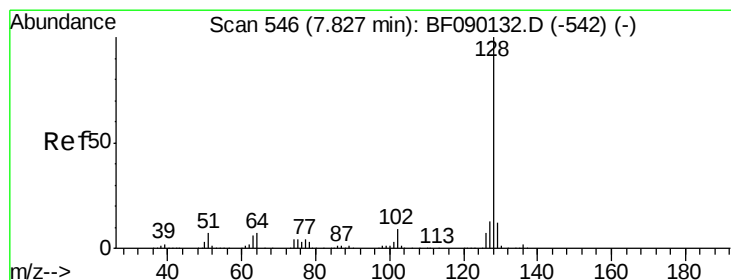
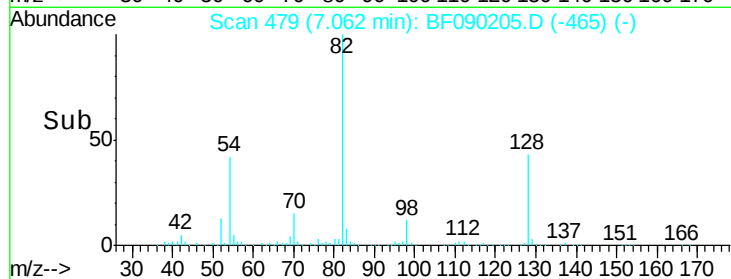
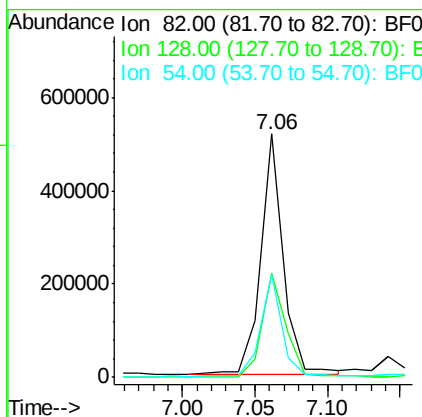
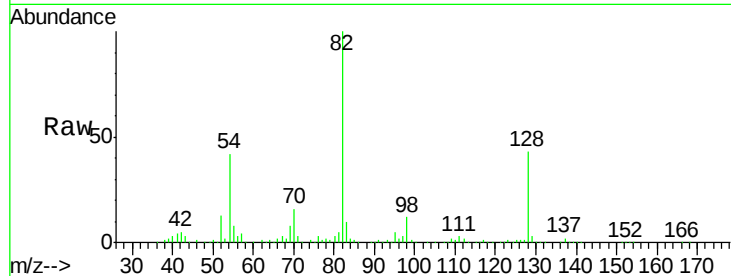
#23
 Nitrobenzene-d5
 Concen: 69.44 ng
 RT: 7.06 min Scan# 479
 Delta R.T. -0.03 min
 Lab File: BF090205.D
 Acq: 23 Sep 2016 18:44

Instrument :
 BNA_F
 ClientSampleId :
 SOILWASTE -CHARACTERIZATION

Tot Ion:	82	Resp:	559482
Ion Ratio	Lower	Upper	
82	100		
128	42.9	37.5	56.3
54	42.2	31.9	47.9

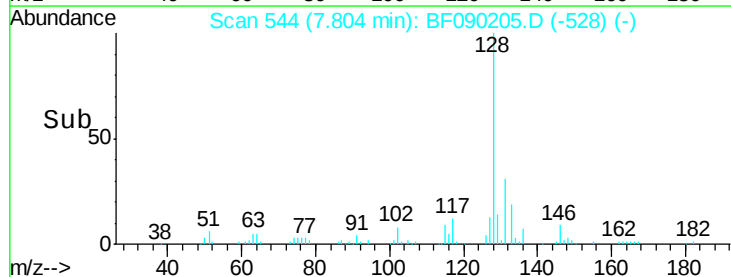
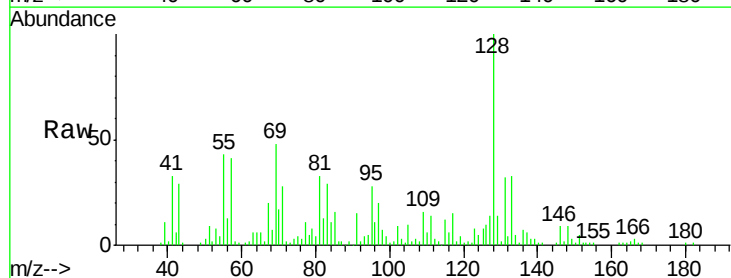
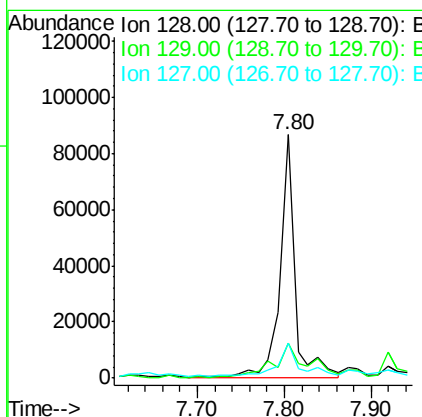
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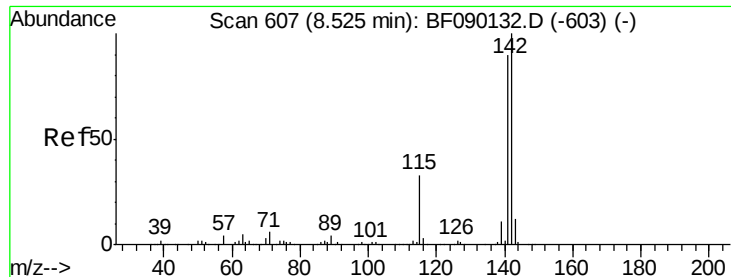
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#31
 Naphthalene
 Concen: 4.70 ng
 RT: 7.80 min Scan# 544
 Delta R.T. -0.02 min
 Lab File: BF090205.D
 Acq: 23 Sep 2016 18:44

Tgt Ion:	128	Resp:	104626
Ion Ratio	Lower	Upper	
128	100		
129	14.5	9.3	13.9#
127	14.2	10.8	16.2





#37

2-Methylnaphthalene

Concen: 2.47 ng/mL

RT: 8.49 min Scan# 604

Delta R.T. -0.03 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Instrument :

BNA_F

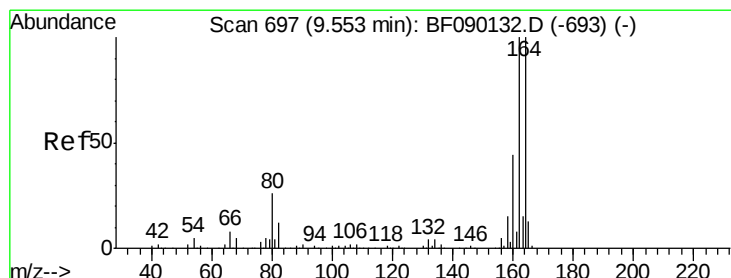
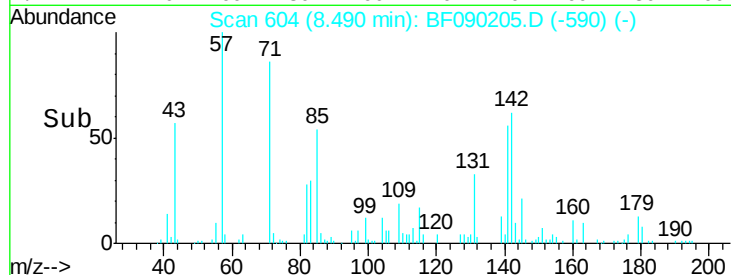
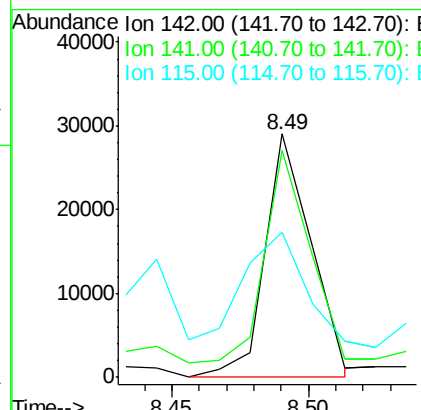
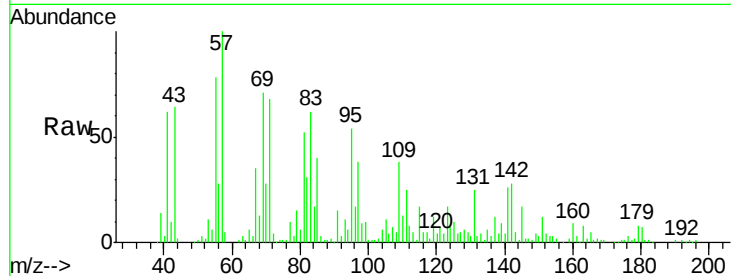
ClientSampleId :

SOILWASTE-CHARACTERIZATION

Tot Ion:	142	Resp:	34109
Ion Ratio	Lower	Upper	
142	100		
141	93.1	71.4	107.2
115	59.6	28.3	42.5#

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#38

Acenaphthene-d10

Concen: 20.00 ng/mL

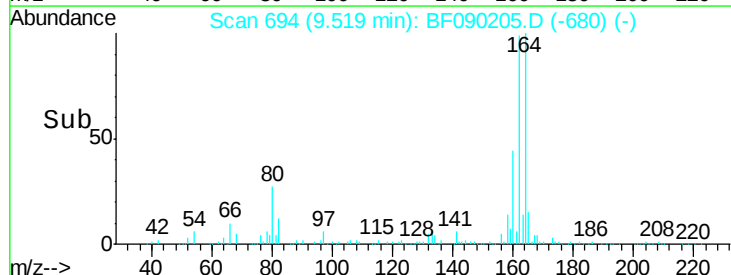
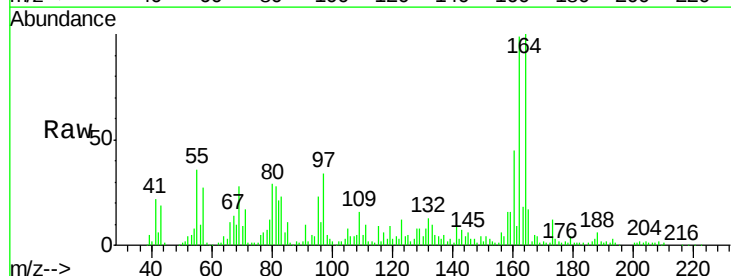
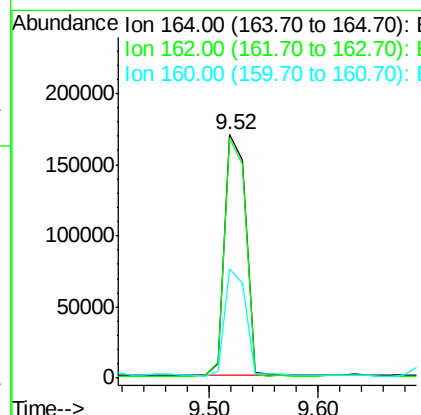
RT: 9.52 min Scan# 694

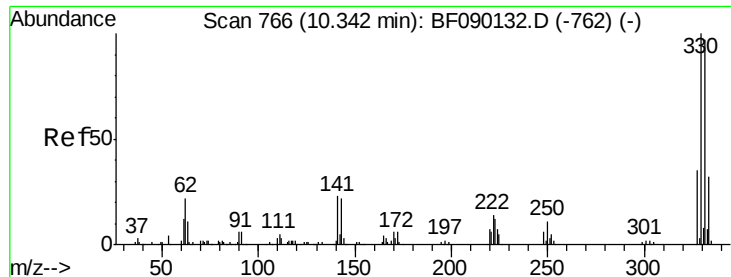
Delta R.T. -0.03 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Tgt Ion:	164	Resp:	230099
Ion Ratio	Lower	Upper	
164	100		
162	98.6	81.4	122.2
160	44.9	36.6	54.8





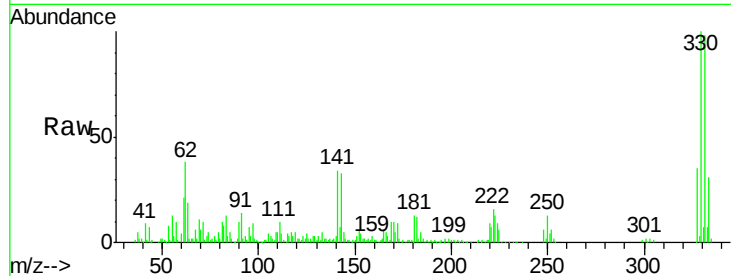
#41
 2,4,6-Tribromophenol
 Concen: 93.40 ng
 RT: 10.31 min Scan# 763
 Delta R.T. -0.03 min
 Lab File: BF090205.D
 Acq: 23 Sep 2016 18:44

Instrument :
 BNA_F
 ClientSampleId :
 SOILWASTE -CHARACTERIZATION

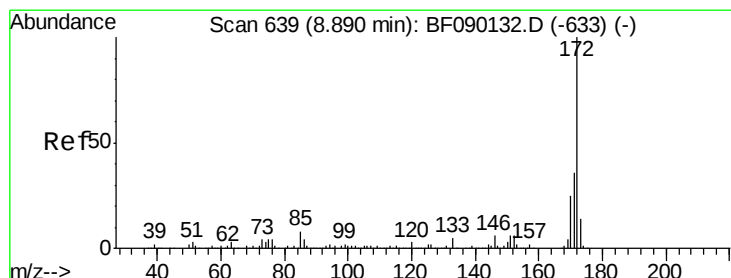
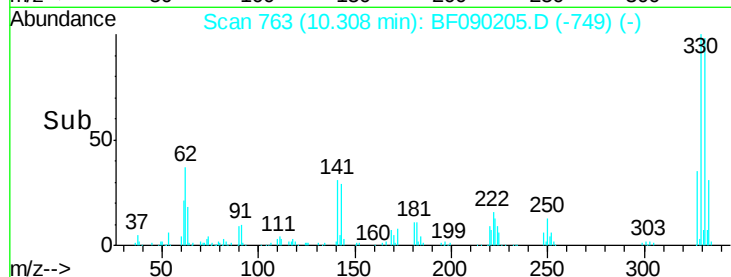
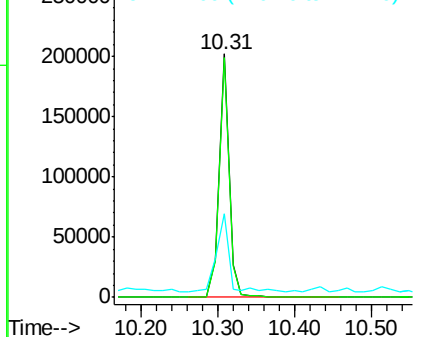
Tot Ion	Ratio	Resp	Lower	Upper
330	100	184374		
332	97.9	78.1	117.1	
141	36.5	23.9	35.9	

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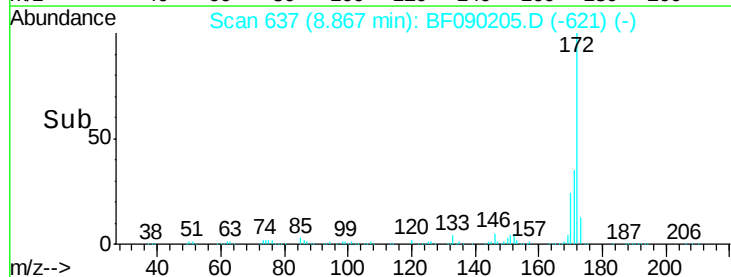
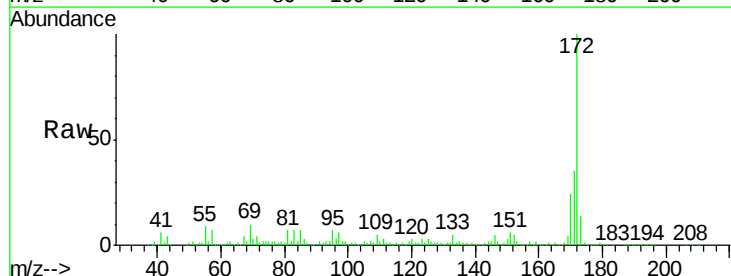
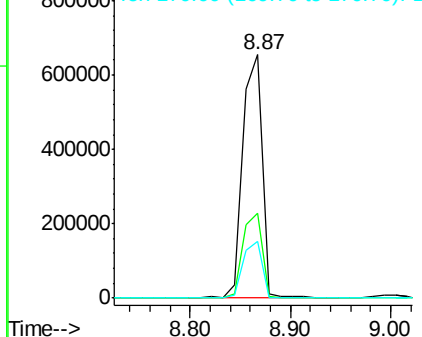
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

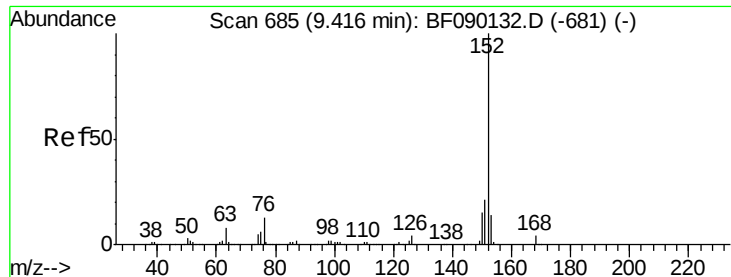


#44
 2-Fluorobiphenyl
 Concen: 75.44 ng
 RT: 8.87 min Scan# 637
 Delta R.T. -0.02 min
 Lab File: BF090205.D
 Acq: 23 Sep 2016 18:44

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	884248		
171	35.1	29.2	43.8	
170	23.5	19.8	29.8	

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





#48

Acenaphthylene

Concen: 2.29 ng

RT: 9.38 min Scan# 682

Delta R.T. -0.03 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Instrument :

BNA_F

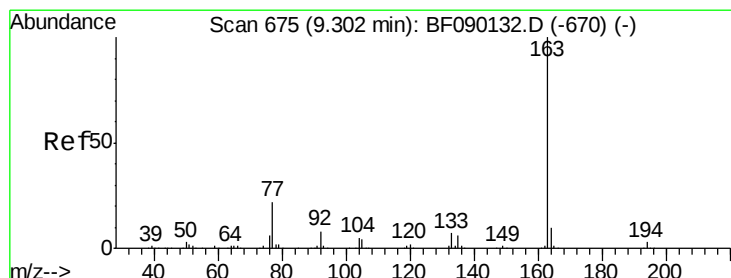
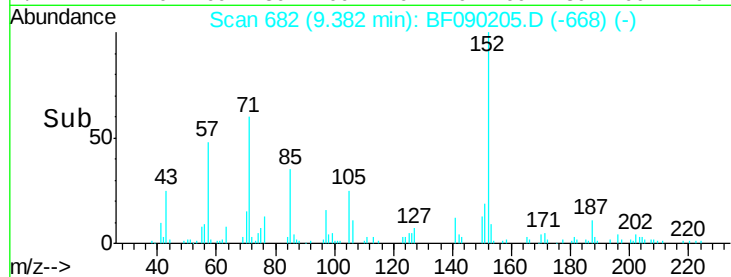
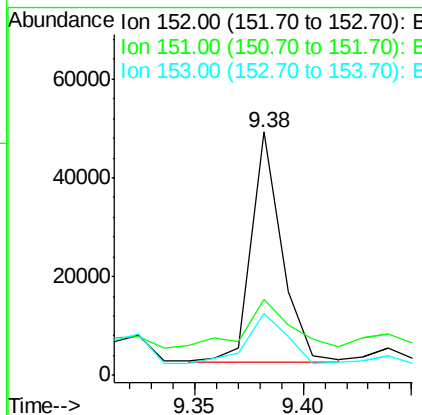
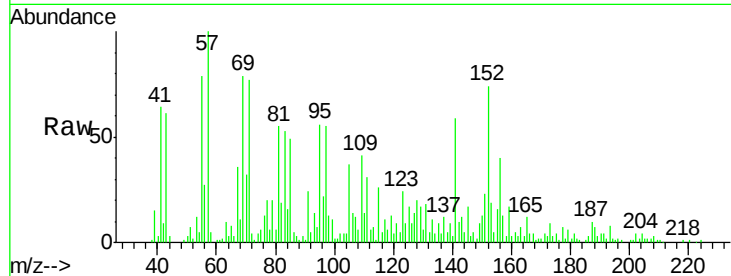
ClientSampleId :

SOILWASTE -CHARACTERIZATION

Tot Ion:	152	Resp:	45260
Ion Ratio	Lower	Upper	
152	100		
151	31.1	16.5	24.7#
153	25.3	10.6	15.8#

Manual Integrations
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#49

Dimethylphthalate

Concen: 22.95 ng

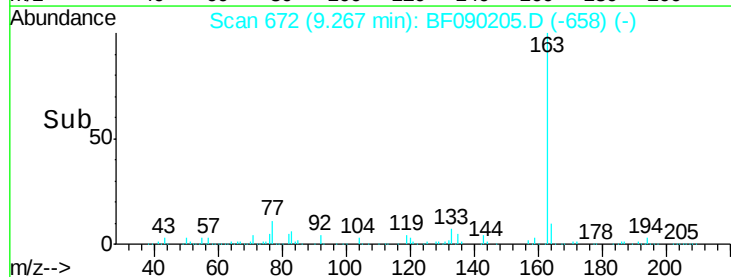
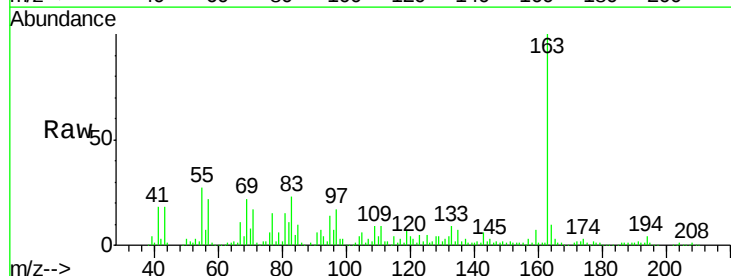
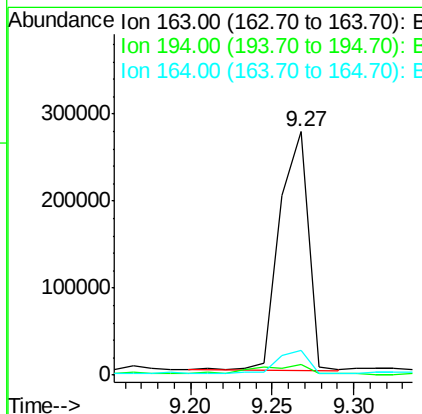
RT: 9.27 min Scan# 672

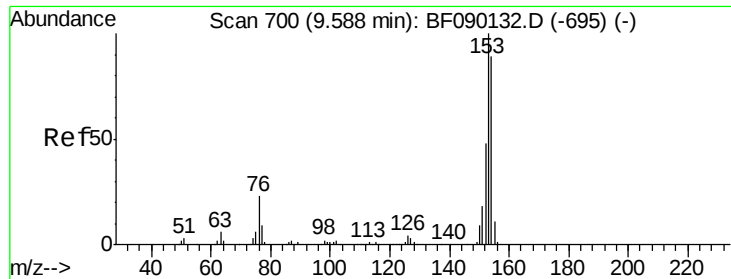
Delta R.T. -0.03 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Tgt Ion:	163	Resp:	336413
Ion Ratio	Lower	Upper	
163	100		
194	4.2	2.8	4.2
164	10.2	8.1	12.1





#51

Acenaphthene

Concen: 6.45 ng

RT: 9.55 min Scan# 697

Delta R.T. -0.03 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Instrument :

BNA_F

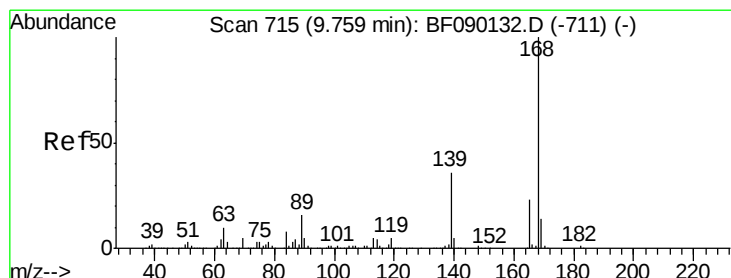
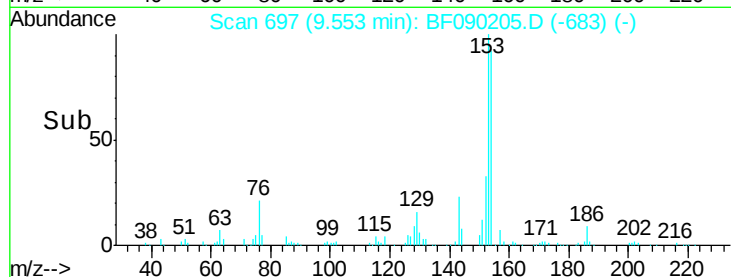
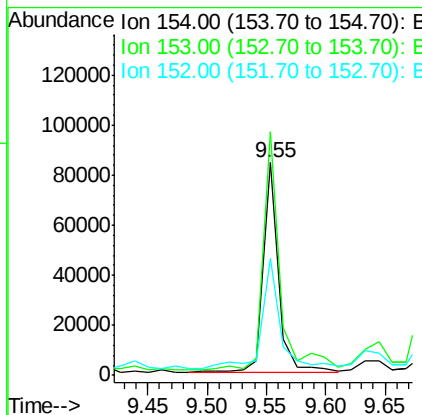
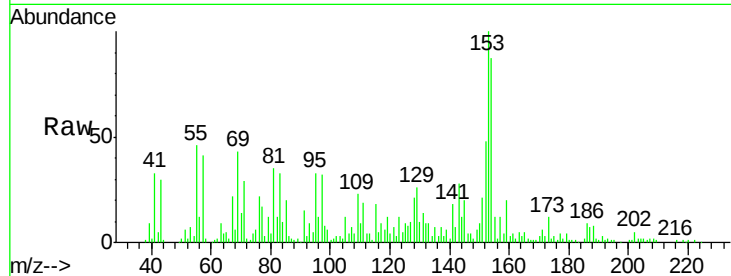
ClientSampleId :

SOILWASTE -CHARACTERIZATION

Tot Ion:	154	Resp:	75465
Ion Ratio	Lower	Upper	
154	100		
153	114.6	90.8	136.2
152	54.7	44.2	66.4

Manual Integrations
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#54

Dibenzofuran

Concen: 4.40 ng

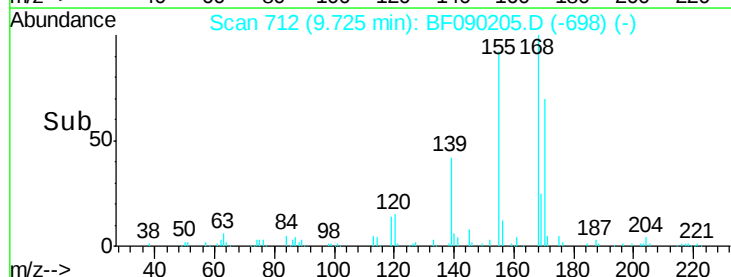
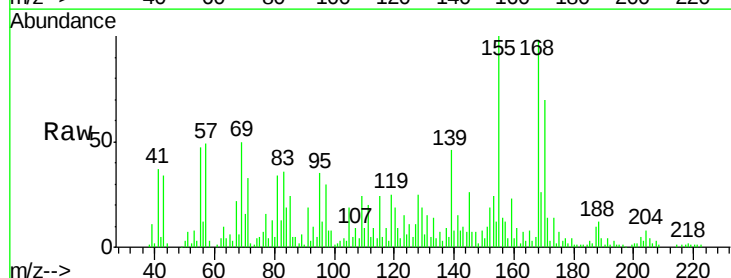
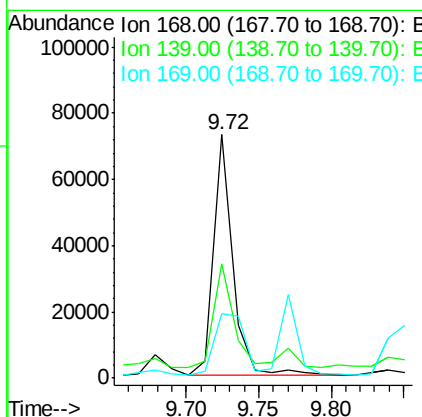
RT: 9.72 min Scan# 712

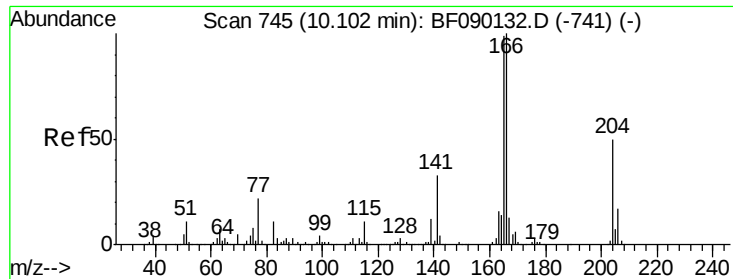
Delta R.T. -0.03 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Tgt Ion:	168	Resp:	67817
Ion Ratio	Lower	Upper	
168	100		
139	47.2	28.8	43.2#
169	26.3	10.7	16.1#





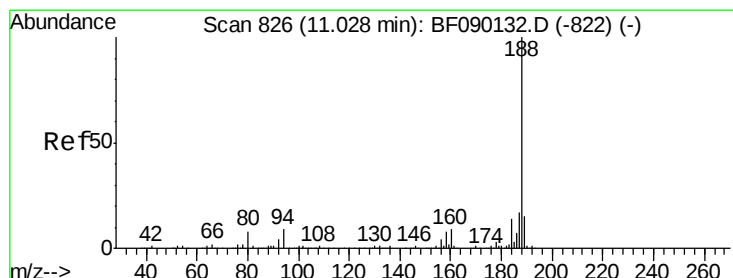
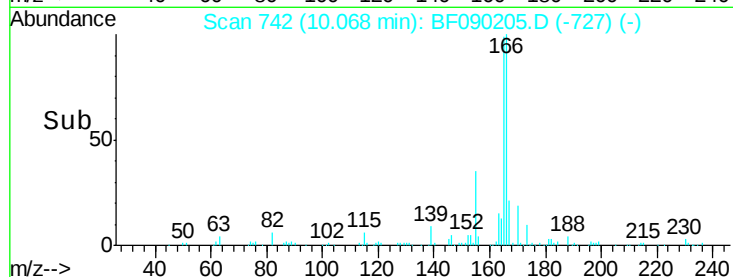
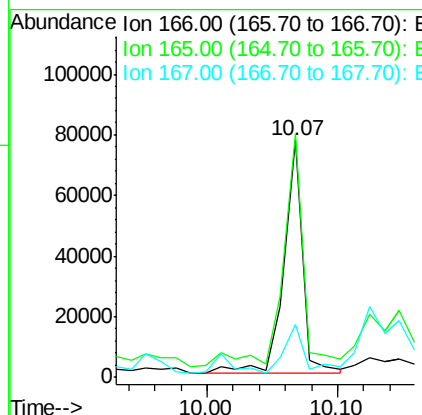
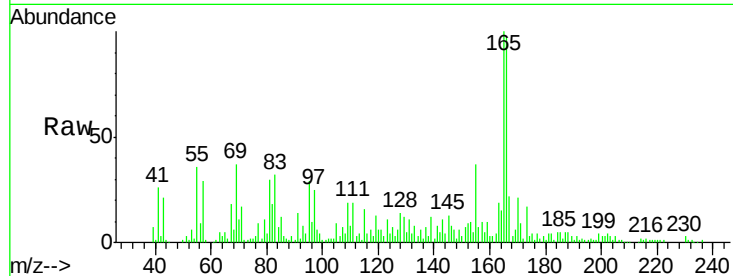
#57
Fluorene
 Concen: 6.72 ng
 RT: 10.07 min Scan# 742
 Delta R.T. -0.03 min
 Lab File: BF090205.D
 Acq: 23 Sep 2016 18:44

Instrument :
 BNA_F
 ClientSampleId :
 SOILWASTE -CHARACTERIZATION

Tot Ion	Ratio	Lower	Upper
166	100		
165	102.7	78.5	117.7
167	22.1	11.2	16.8#

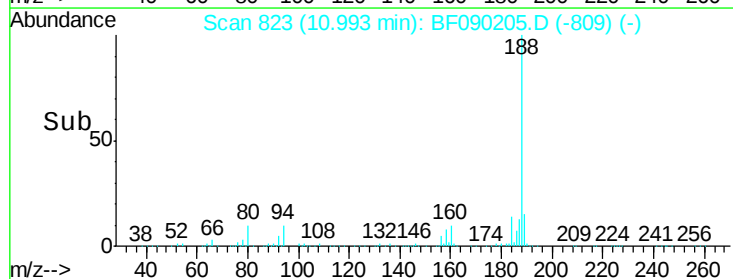
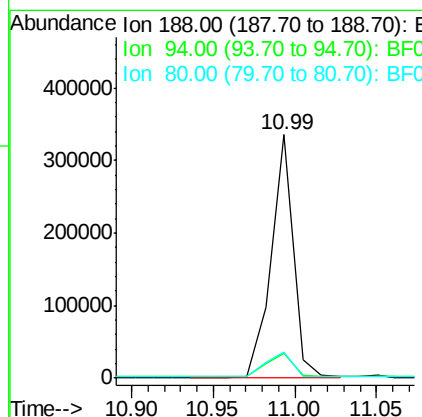
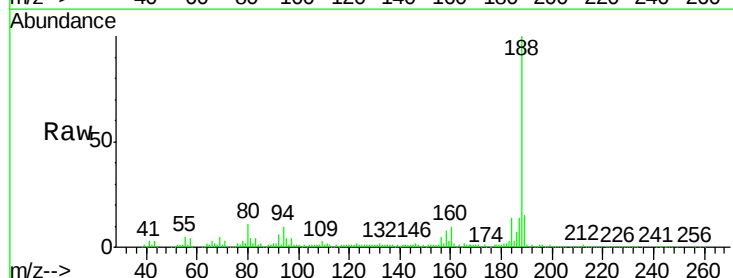
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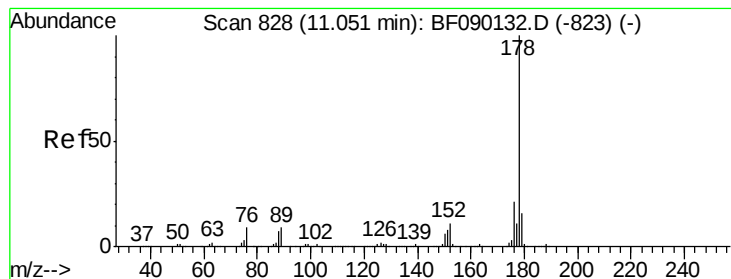
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 10.99 min Scan# 823
 Delta R.T. -0.03 min
 Lab File: BF090205.D
 Acq: 23 Sep 2016 18:44

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.1	10.5	15.7#
80	10.7	11.2	16.8#





#70

Phenanthrene

Concen: 50.71 ng

RT: 11.02 min Scan# 825

Delta R.T. -0.03 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Instrument :

BNA_F

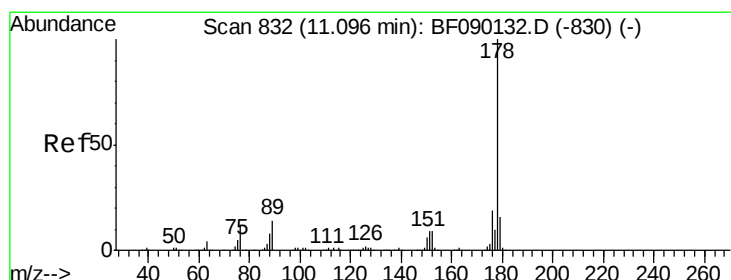
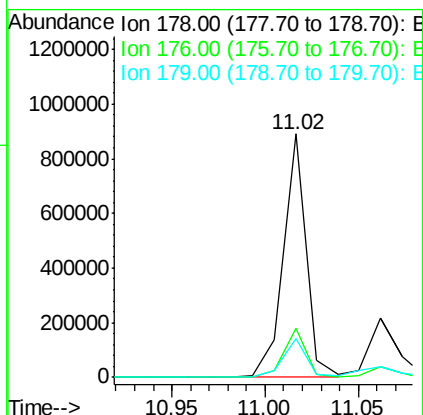
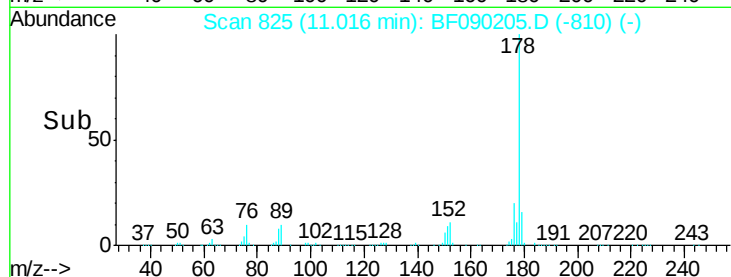
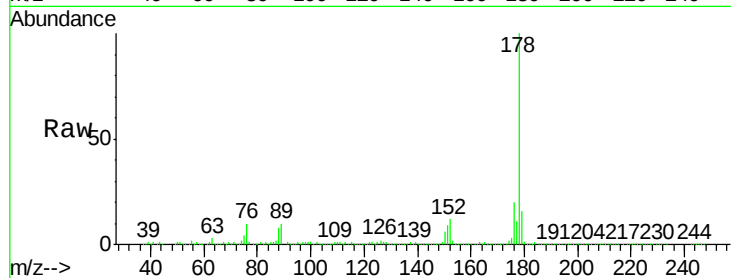
ClientSampleId :

SOILWASTE -CHARACTERIZATION

Tot Ion:	178	Resp:	753710
Ion Ratio	Lower	Upper	
178	100		
176	20.1	15.9	23.9
179	16.0	12.9	19.3

Manual Integrations
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#71

Anthracene

Concen: 12.95 ng

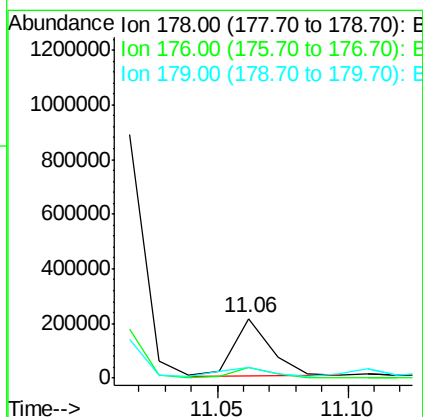
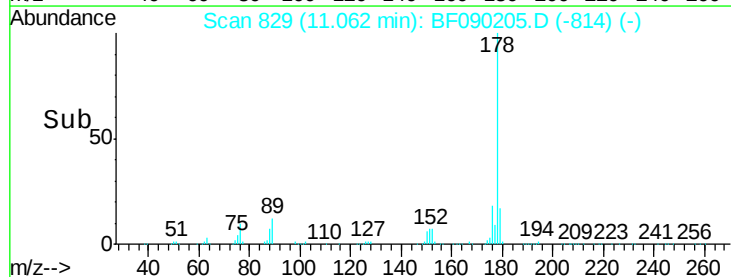
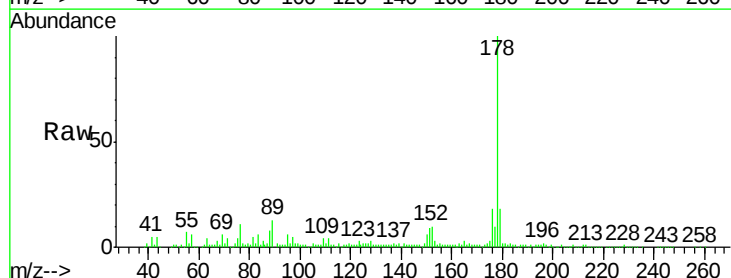
RT: 11.06 min Scan# 829

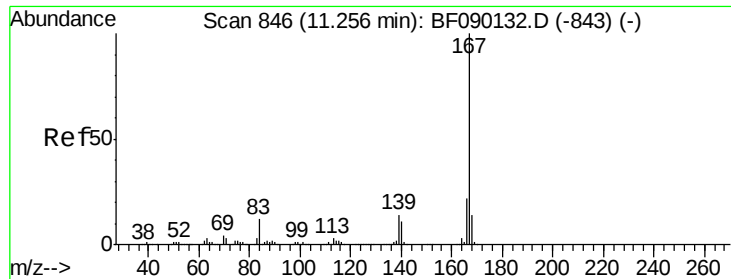
Delta R.T. -0.03 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Tgt Ion:	178	Resp:	201862
Ion Ratio	Lower	Upper	
178	100		
176	18.4	15.8	23.6
179	18.3	12.6	19.0





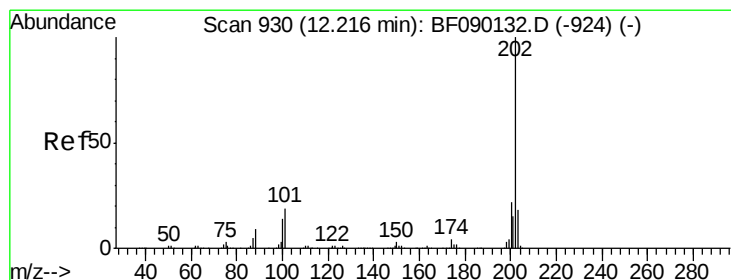
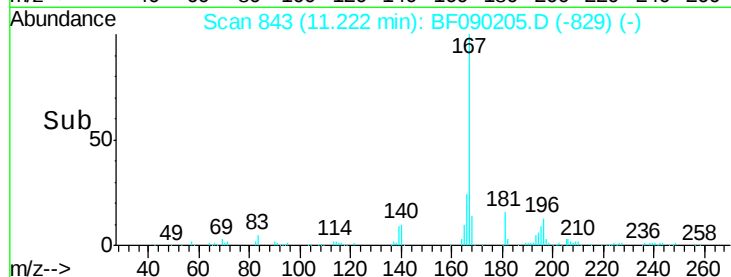
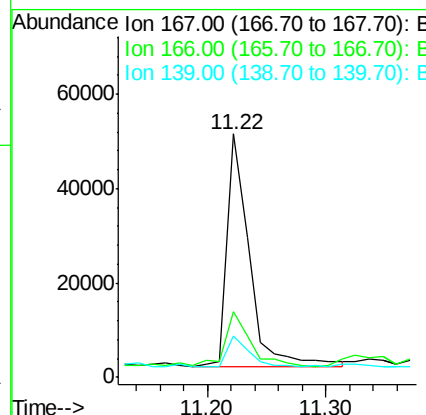
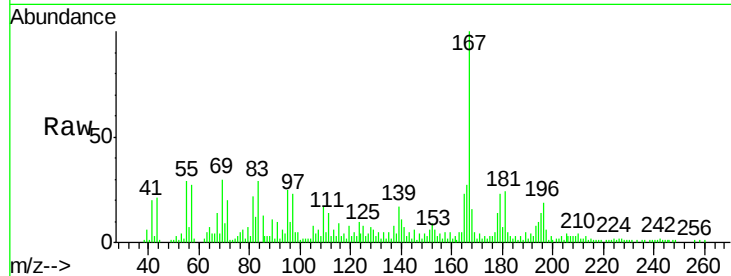
#72
 Carbazole
 Concen: 3.86 ng
 RT: 11.22 min Scan# 843
 Delta R.T. -0.03 min
 Lab File: BF090205.D
 Acq: 23 Sep 2016 18:44

Instrument :
 BNA_F
 ClientSampleId :
 SOILWASTE -CHARACTERIZATION

Tot Ion	Ratio	Lower	Upper
167	100		
166	26.9	18.0	27.0
139	17.0	10.4	15.6

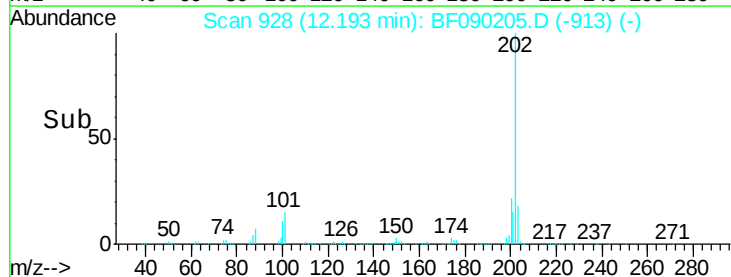
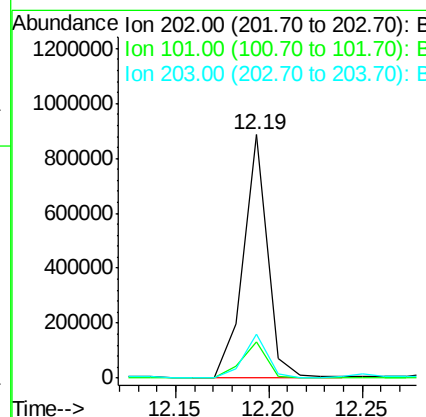
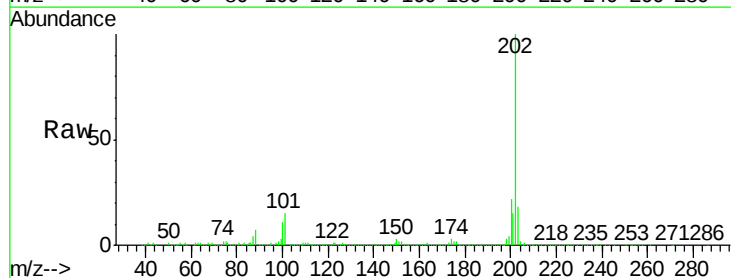
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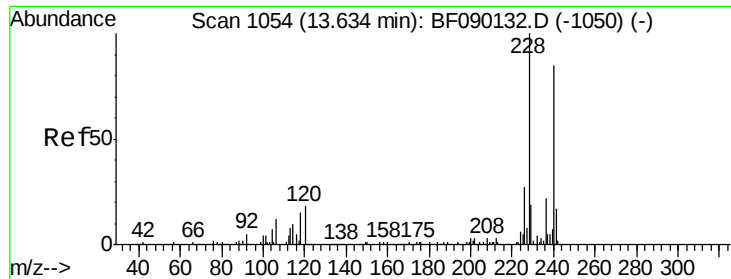
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#74
 Fluoranthene
 Concen: 49.94 ng
 RT: 12.19 min Scan# 928
 Delta R.T. -0.02 min
 Lab File: BF090205.D
 Acq: 23 Sep 2016 18:44

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.8	0.0	36.1
203	18.2	0.0	38.2





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.60 min Scan# 1051

Delta R.T. -0.03 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Instrument :

BNA_F

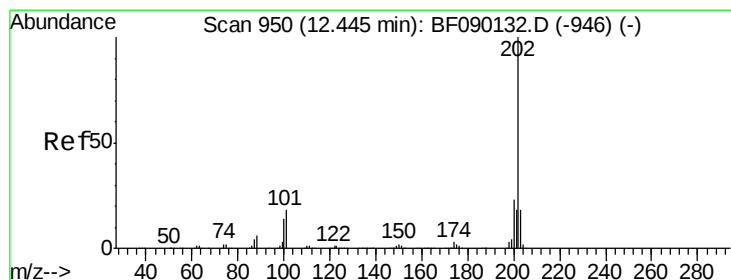
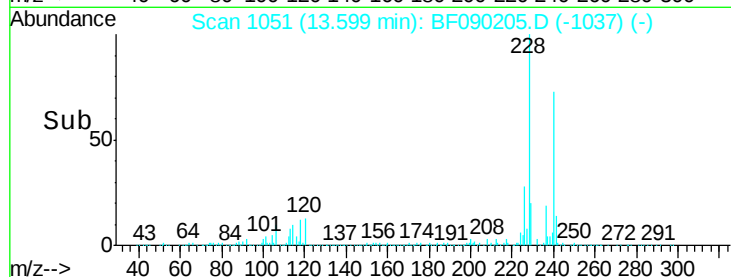
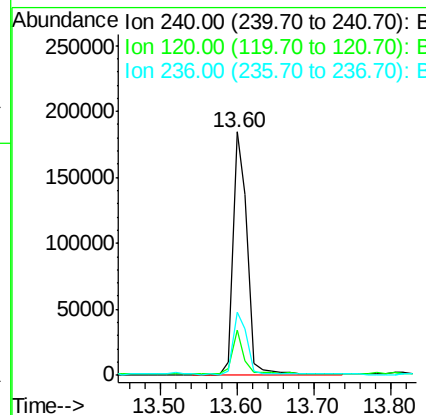
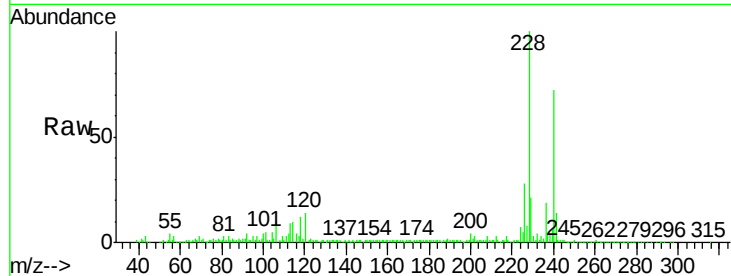
ClientSampleId :

SOILWASTE -CHARACTERIZATION

Tot Ion	Ratio	Resp	Lower	Upper
240	100	241982		
120	18.8	10.6	16.0#	
236	25.9	21.6	32.4	

Manual Integrations
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#77

Pyrene

Concen: 50.18 ng

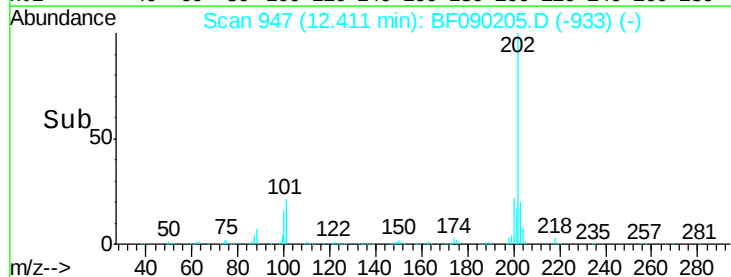
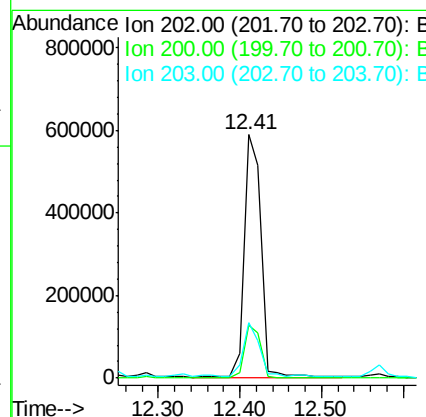
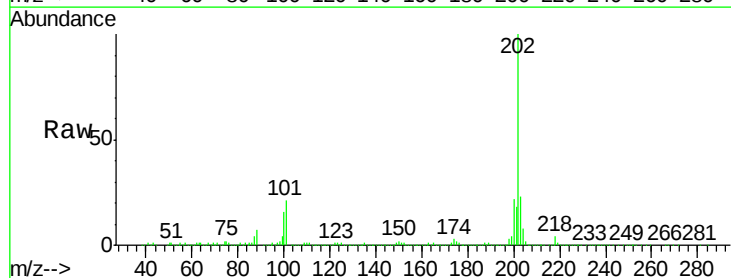
RT: 12.41 min Scan# 947

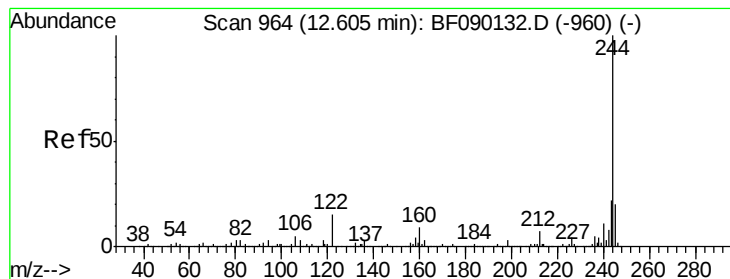
Delta R.T. -0.03 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	830959		
200	21.8	17.9	26.9	
203	22.6	14.2	21.4#	





#78

Terphenyl-d14

Concen: 54.42 ng

RT: 12.57 min Scan# 961

Delta R.T. -0.03 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Instrument :

BNA_F

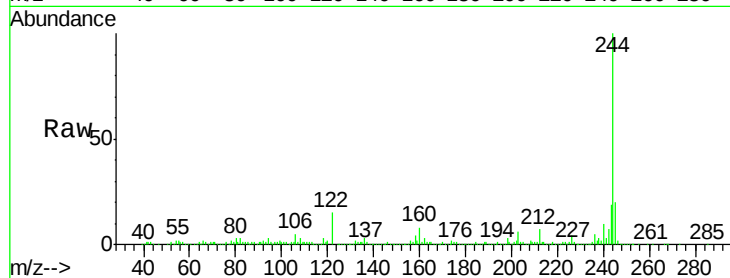
ClientSampleId :

SOILWASTE -CHARACTERIZATION

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.8
122	15.4	9.4	14.0

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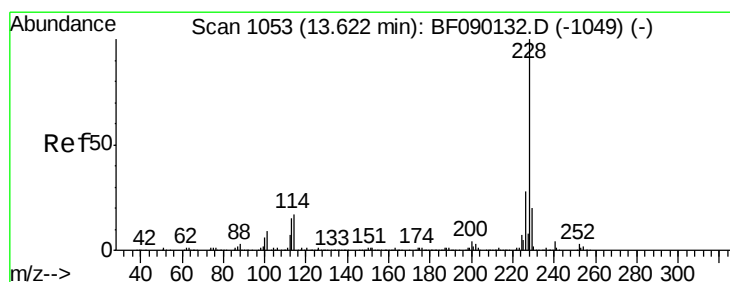
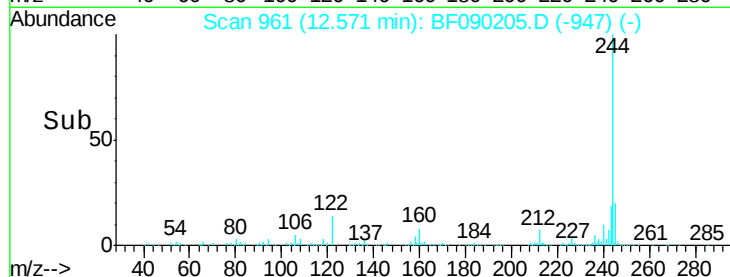
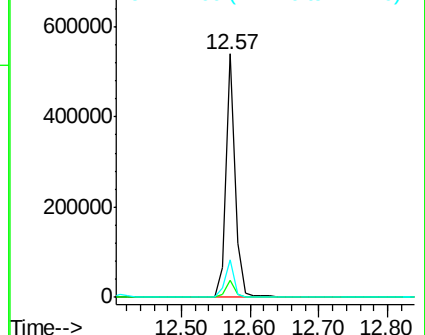
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 30.02 ng

RT: 13.60 min Scan# 1051

Delta R.T. -0.02 min

Lab File: BF090205.D

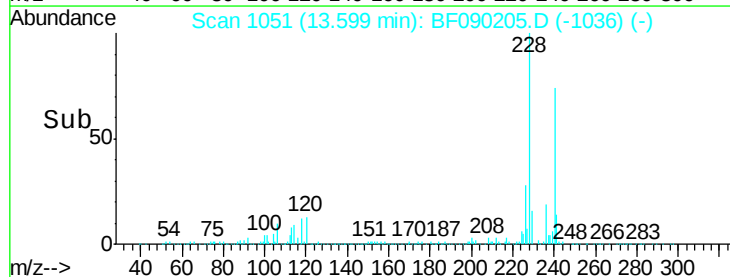
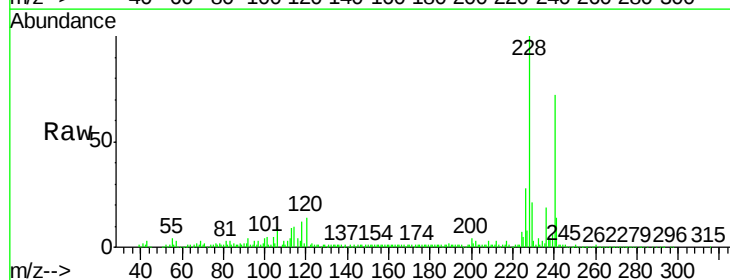
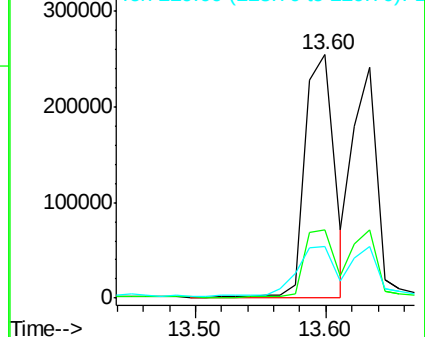
Acq: 23 Sep 2016 18:44

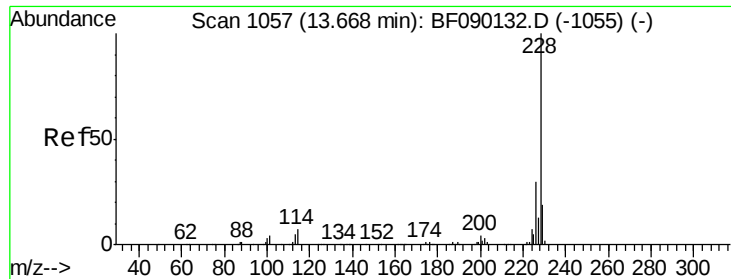
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.0	33.0
229	21.3	16.2	24.2

Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 24.87 ng/mL

RT: 13.63 min Scan# 1054

Delta R.T. -0.03 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Instrument :

BNA_F

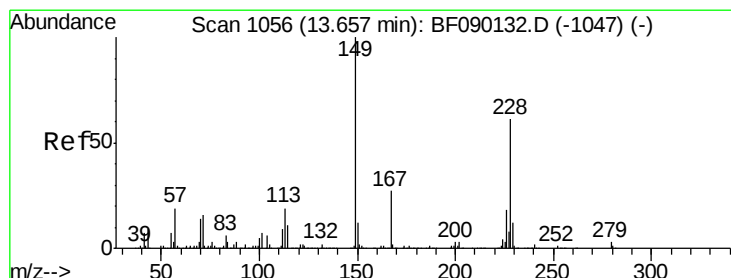
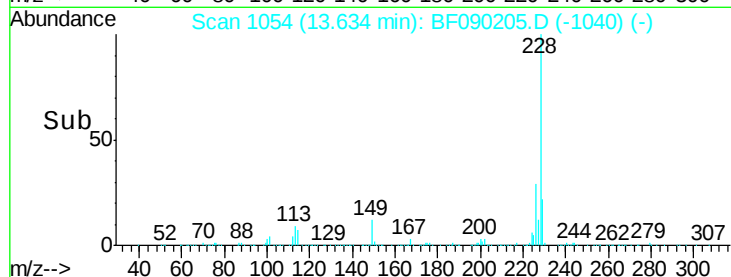
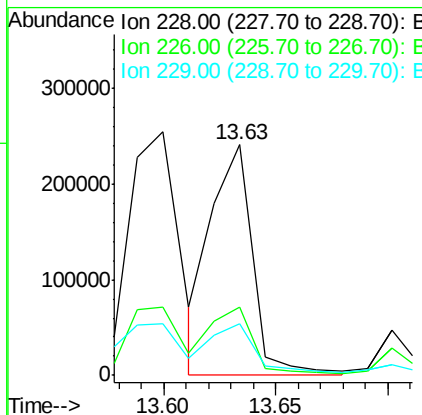
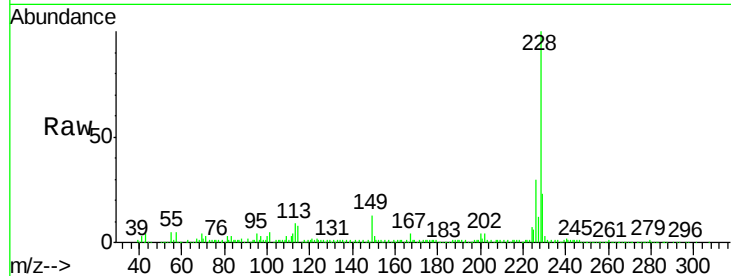
ClientSampleId :

SOILWASTE -CHARACTERIZATION

Tot Ion:	228	Resp:	315398
Ion Ratio	Lower	Upper	
228	100		
226	29.7	24.6	37.0
229	22.7	16.2	24.4

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#83

Bis(2-ethylhexyl)phthalate

Concen: 11.02 ng/mL

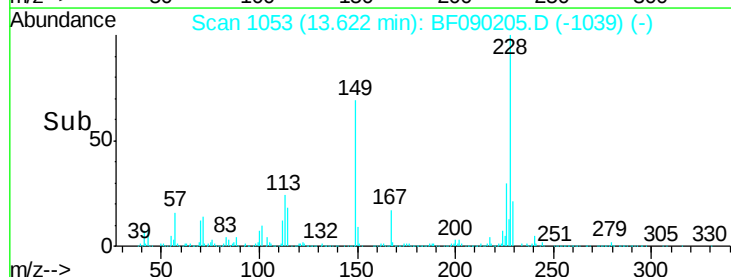
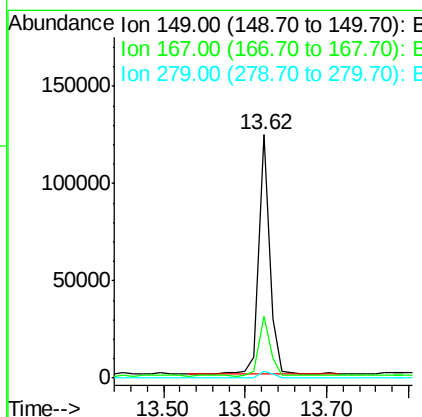
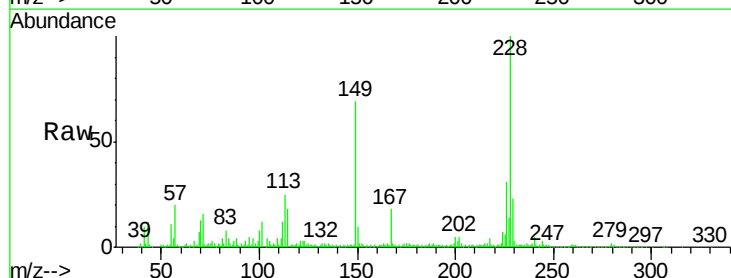
RT: 13.62 min Scan# 1053

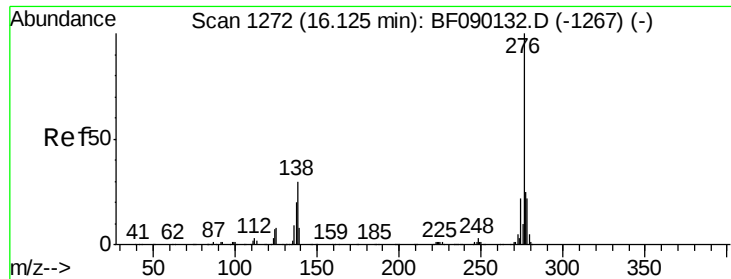
Delta R.T. -0.03 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Tgt Ion:	149	Resp:	114189
Ion Ratio	Lower	Upper	
149	100		
167	25.4	21.2	31.8
279	2.5	2.2	3.2





#85

Indeno(1,2,3-cd)pyrene

Concen: 16.64 ng

RT: 16.08 min Scan# 1268

Delta R.T. -0.05 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Instrument :

BNA_F

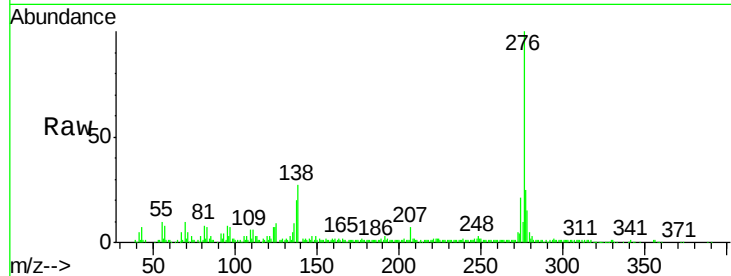
ClientSampleId :

SOILWASTE -CHARACTERIZATION

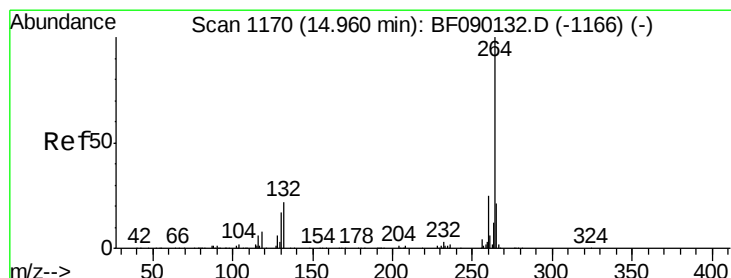
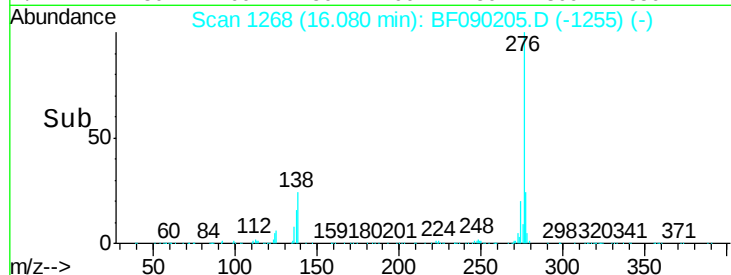
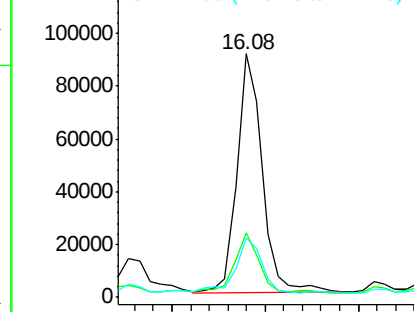
Tot Ion:	276	Resp:	170642
Ion Ratio	Lower	Upper	
276	100		
138	24.3	25.9	38.9#
277	25.7	19.9	29.9

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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

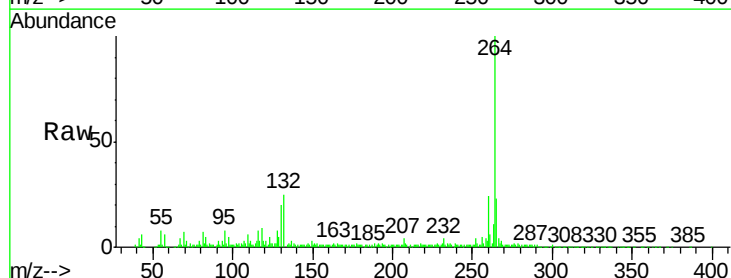
RT: 14.93 min Scan# 1167

Delta R.T. -0.03 min

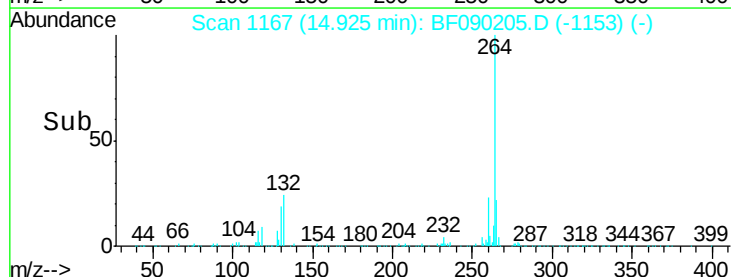
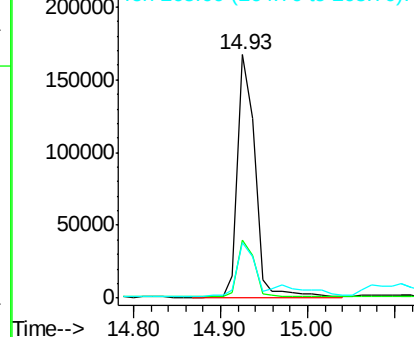
Lab File: BF090205.D

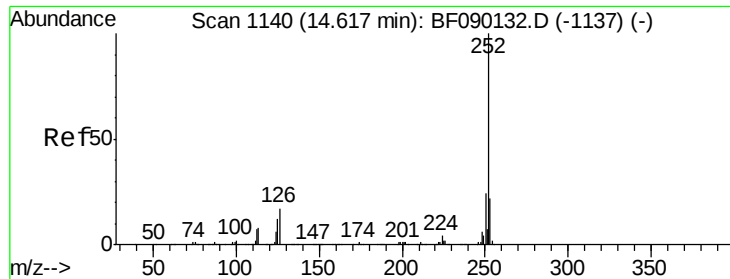
Acq: 23 Sep 2016 18:44

Tgt Ion:	264	Resp:	229614
Ion Ratio	Lower	Upper	
264	100		
260	23.8	19.5	29.3
265	22.7	17.0	25.4



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: 37.47 ng m

RT: 14.59 min Scan# 1138

Delta R.T. -0.02 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Instrument :

BNA_F

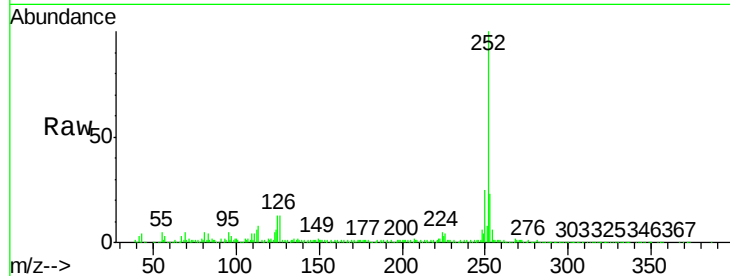
ClientSampleId :

SOILWASTE -CHARACTERIZATION

Tot Ion:	252	Resp:	476470
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.9	26.9
125	13.5	12.7	19.1

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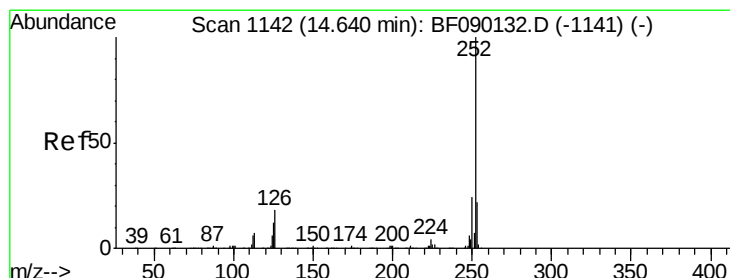
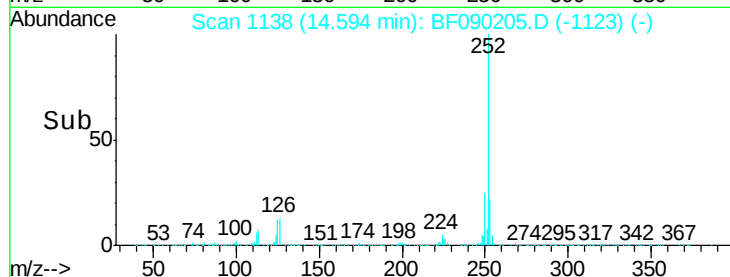
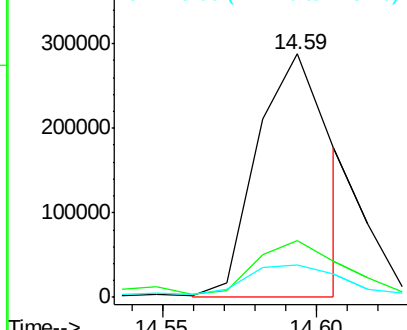


Abundance

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: 6.57 ng m

RT: 14.61 min Scan# 1139

Delta R.T. -0.03 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

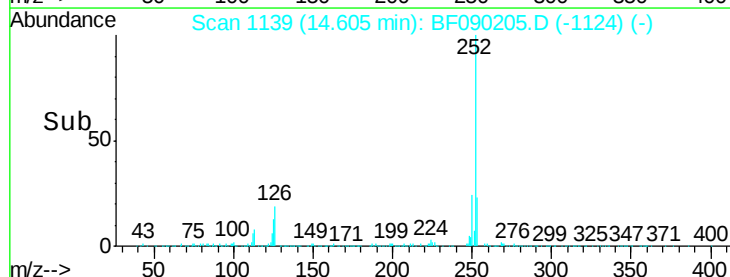
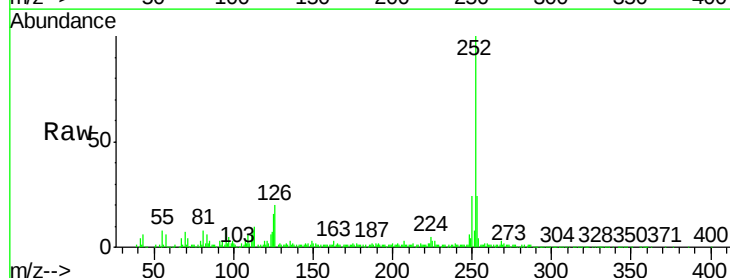
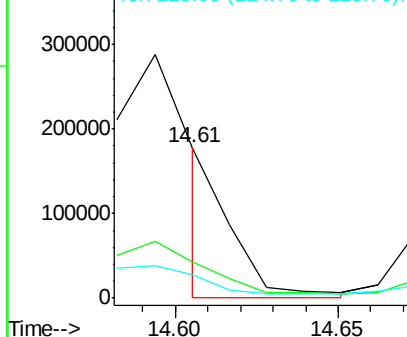
Tgt Ion:	252	Resp:	78345
Ion Ratio	Lower	Upper	
252	100		
253	23.8	17.8	26.8
125	15.6	7.8	11.6#

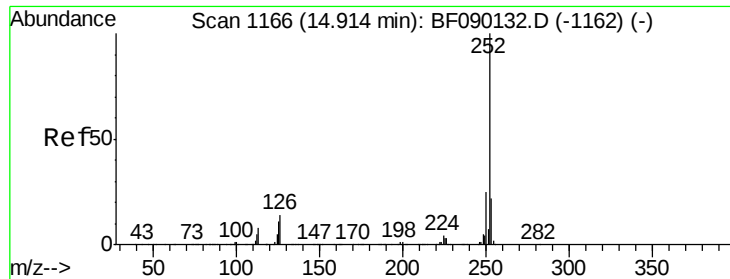
Abundance

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





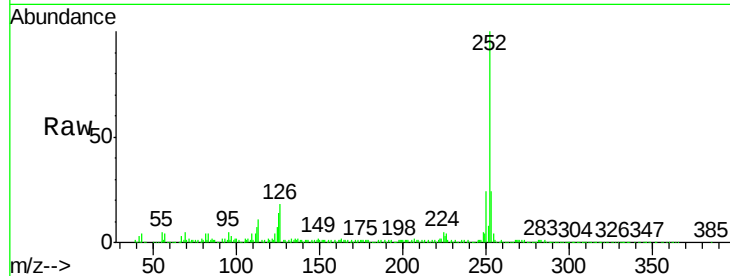
#89
Benzo(a)pyrene
Concen: 25.53 ng
RT: 14.88 min Scan# 1163
Delta R.T. -0.03 min
Lab File: BF090205.D
Acq: 23 Sep 2016 18:44

Instrument :
BNA_F
ClientSampleId :
SOILWASTE -CHARACTERIZATION

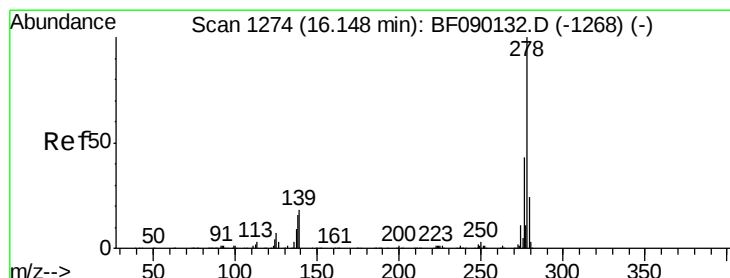
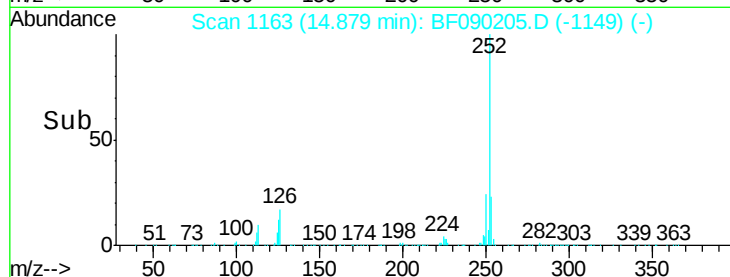
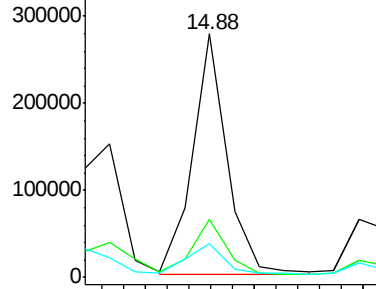
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.4	26.0
125	13.7	7.7	11.5

Manual Integrations
APPROVED

sohil
9/26/2016 5:59:30 PM

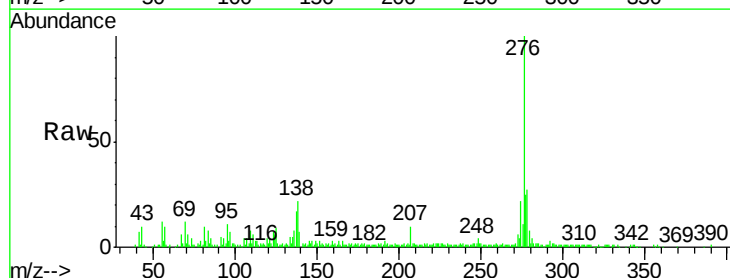


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

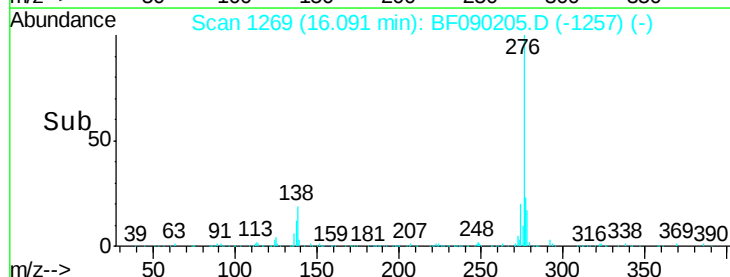
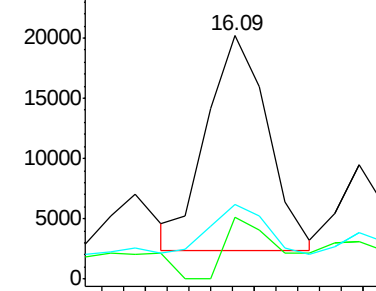


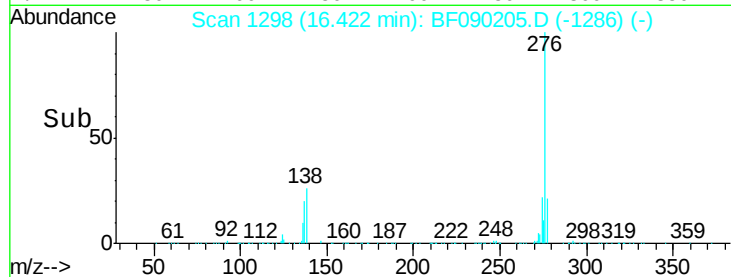
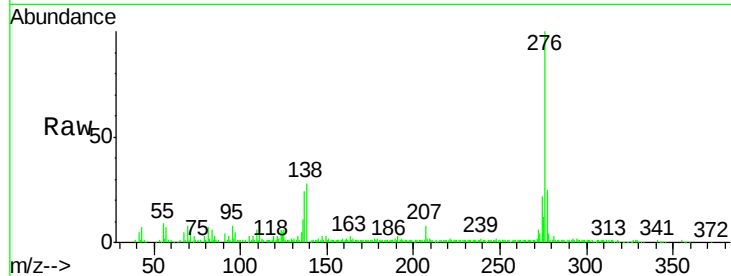
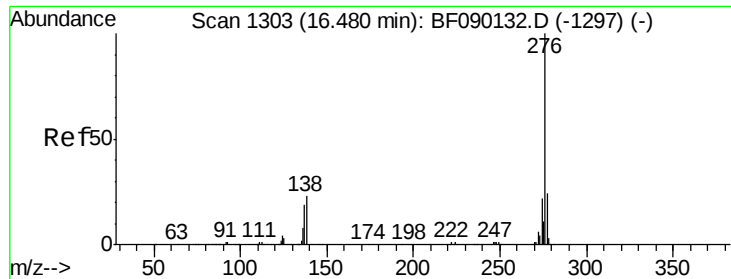
#90
Dibenzo(a,h)anthracene
Concen: 3.75 ng m
RT: 16.09 min Scan# 1269
Delta R.T. -0.06 min
Lab File: BF090205.D
Acq: 23 Sep 2016 18:44

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.6	14.6	21.8
279	30.9	18.8	28.2



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 17.89 ng

RT: 16.42 min Scan# 1298

Delta R.T. -0.06 min

Lab File: BF090205.D

Acq: 23 Sep 2016 18:44

Tot Ion:	276	Resp:	163416
Ion Ratio		Lower	Upper
276	100		
277	24.5	18.9	28.3
138	27.9	23.3	34.9

Instrument :

BNA_F

ClientSampleId :

SOILWASTE -CHARACTERIZATION

Manual Integrations
APPROVED

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9/26/2016 5:59:30 PM

