

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072415\
 Data File : BF080662.D
 Acq On : 25 Jul 2015 10:49
 Operator : TP/UM
 Sample : G3070-01
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-2

Manual Integrations
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Quant Time: Jul 27 02:25:15 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 25 04:28:42 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.93	152	49724	20.00	ng	0.00
21) Naphthalene-d8	8.21	136	173145	20.00	ng	0.00
38) Acenaphthene-d10	9.97	164	92193	20.00	ng	0.00
63) Phenanthrene-d10	11.46	188	158515	20.00	ng	0.00
75) Chrysene-d12	14.27	240	136359	20.00	ng	0.11
86) Perylene-d12	15.95	264	188493	20.00	ng	0.22
System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	401667	136.02	ng	0.01
7) Phenol-d6	6.54	99	539979	153.09	ng	0.00
23) Nitrobenzene-d5	7.49	82	336486	97.60	ng	0.00
41) 2,4,6-Tribromophenol	10.76	330	112649	136.00	ng	0.00
44) 2-Fluorobiphenyl	9.29	172	541552	90.63	ng	-0.01
78) Terphenyl-d14	13.08	244	501388	79.17	ng	0.02
Target Compounds						Qvalue
30) 1,2,4-Trichlorobenzene	8.16	180	10742	3.78	ng	96
31) Naphthalene	8.24	128	21492	2.48	ng	98
48) Acenaphthylene	9.84	152	19382	2.13	ng	98
49) Dimethylphthalate	9.69	163	133625	20.26	ng	# 98
51) Acenaphthene	10.01	154	28354	5.12	ng	98
54) Dibenzofuran	10.18	168	27494	3.48	ng	# 95
57) Fluorene	10.52	166	38515	6.19	ng	95
70) Phenanthrene	11.48	178	622577	71.15	ng	99
71) Anthracene	11.53	178	112350	13.31	ng	97
72) Carbazole	11.69	167	35714	4.67	ng	97
74) Fluoranthene	12.69	202	563920	66.68	ng	93
77) Pyrene	12.93	202	559737	65.54	ng	99
80) Benzo(a)anthracene	14.25	228	243919	30.49	ng	96
81) 3,3'-Dichlorobenzidine	14.21	252	31867	12.25	ng	97
82) Chrysene	14.29	228	222814	29.73	ng	98
85) Indeno(1,2,3-cd)pyrene	17.45	276	196437m	26.14	ng	
87) Benzo(b)fluoranthene	15.51	252	308077m	26.96	ng	
88) Benzo(k)fluoranthene	15.54	252	80983m	7.92	ng	
89) Benzo(a)pyrene	15.89	252	255221m	24.83	ng	
90) Dibenzo(a,h)anthracene	17.47	278	46611m	4.31	ng	
91) Benzo(g,h,i)perylene	17.91	276	190068	17.29	ng	99

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

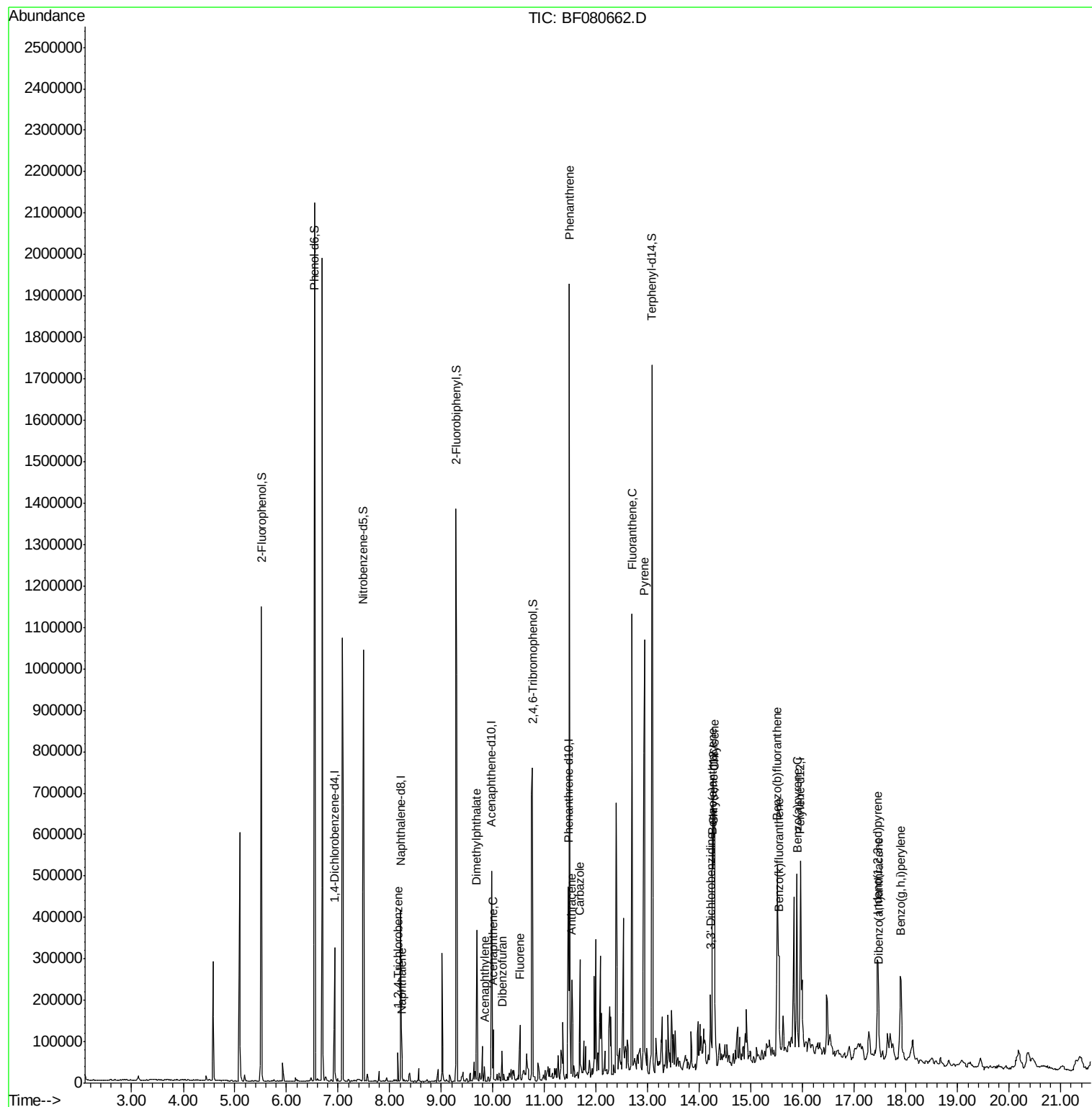
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072415\
Data File : BF080662.D
Acq On : 25 Jul 2015 10:49
Operator : TP/UM
Sample : G3070-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

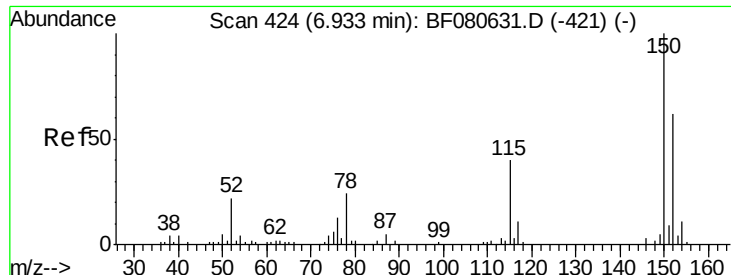
Instrument :
BNA_F
ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

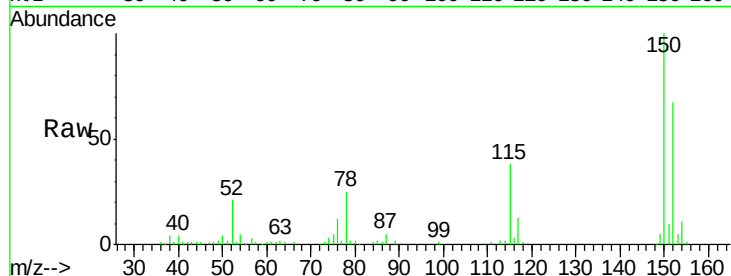
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.93 min Scan# 424
Delta R.T. -0.00 min
Lab File: BF080662.D
Acq: 25 Jul 2015 10:49

Instrument :
BNA_F
ClientSampleId :
SOIL-2

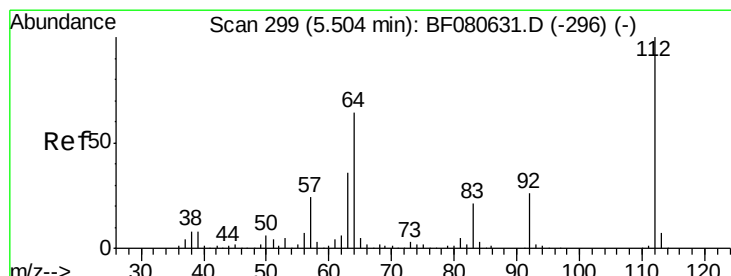
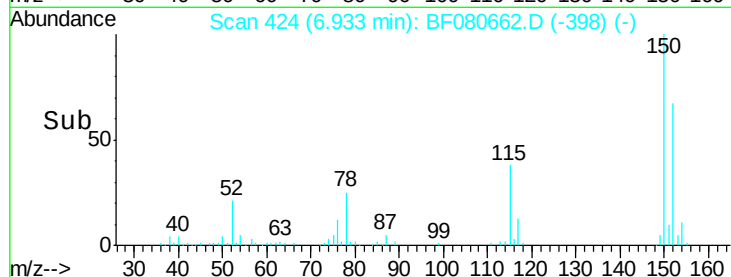
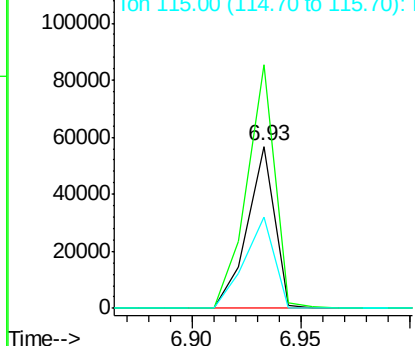
Tgt Ion	Ratio	Lower	Upper
152	100		
150	150.4	128.9	193.3
115	56.7	51.0	76.6

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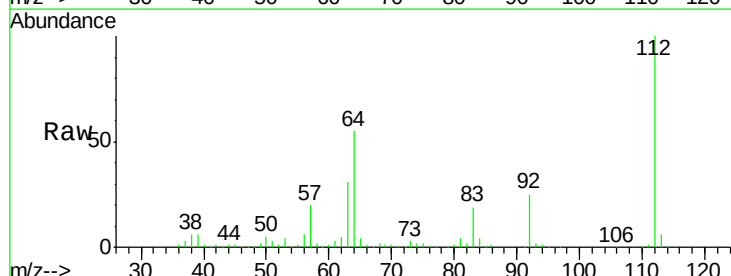
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



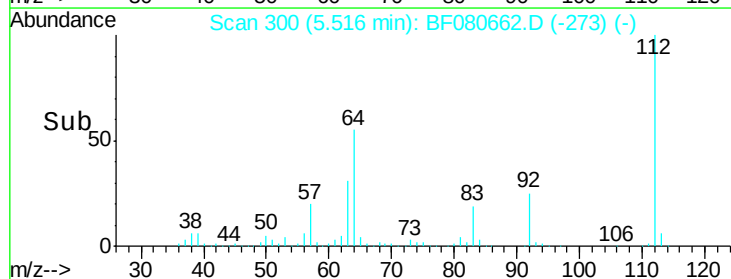
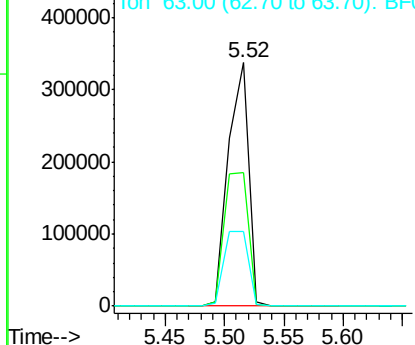
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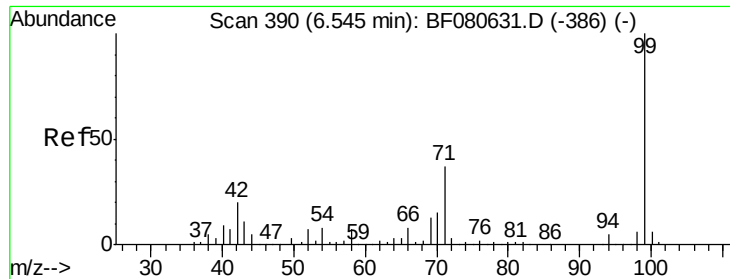
2-Fluorophenol
Concen: 136.02 ng
RT: 5.52 min Scan# 300
Delta R.T. 0.01 min
Lab File: BF080662.D
Acq: 25 Jul 2015 10:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.7	51.2	76.8
63	30.5	29.0	43.6



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 153.09 ng

RT: 6.54 min Scan# 390

Delta R.T. -0.00 min

Lab File: BF080662.D

Acq: 25 Jul 2015 10:49

Instrument :

BNA_F

ClientSampled :

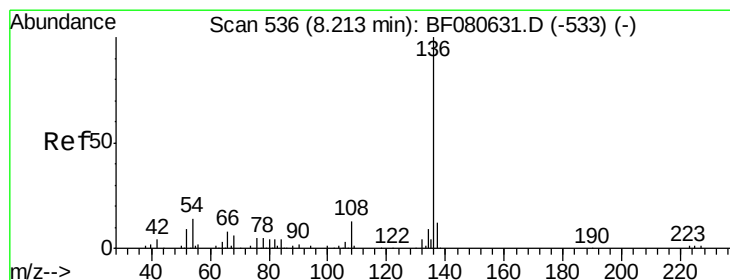
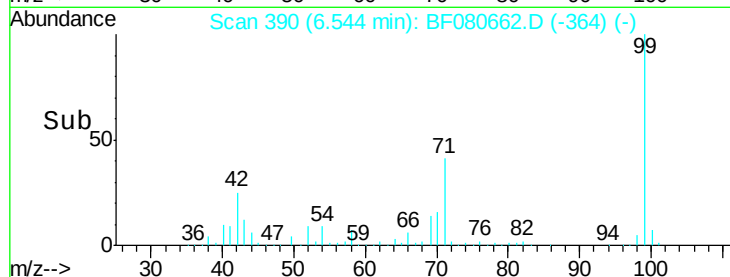
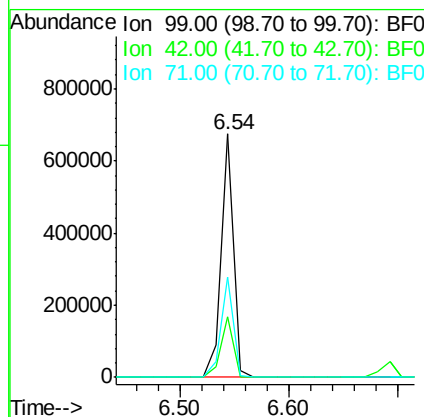
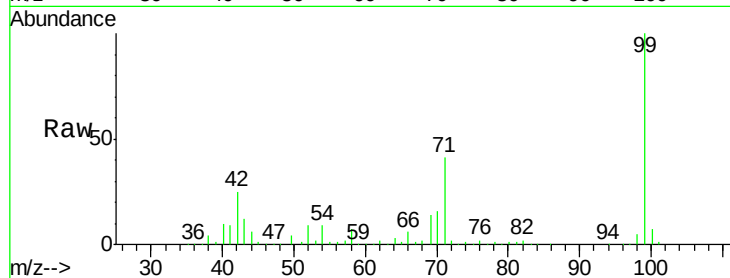
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Tgt Ion: 99 Resp: 539979

Ion	Ratio	Lower	Upper
99	100		
42	25.0	16.3	24.5#
71	41.3	29.7	44.5

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.21 min Scan# 536

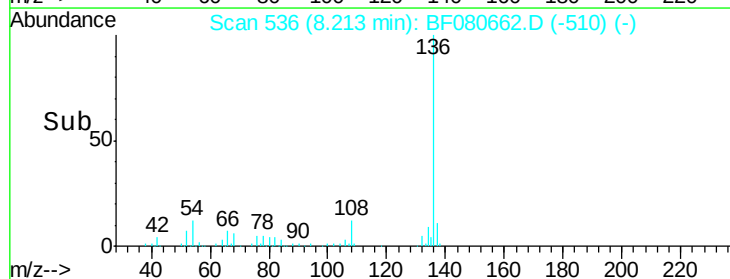
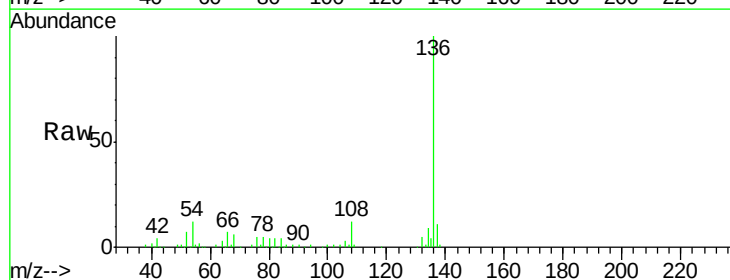
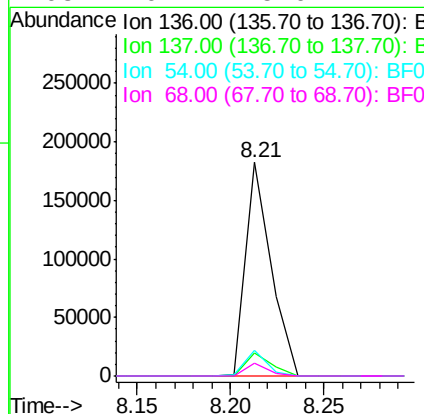
Delta R.T. -0.00 min

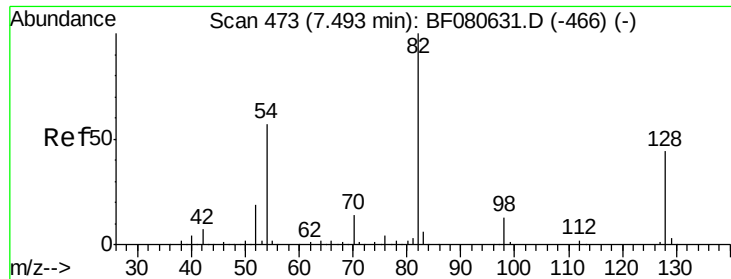
Lab File: BF080662.D

Acq: 25 Jul 2015 10:49

Tgt Ion: 136 Resp: 173145

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.3	13.9
54	12.1	11.6	17.4
68	6.2	5.0	7.4





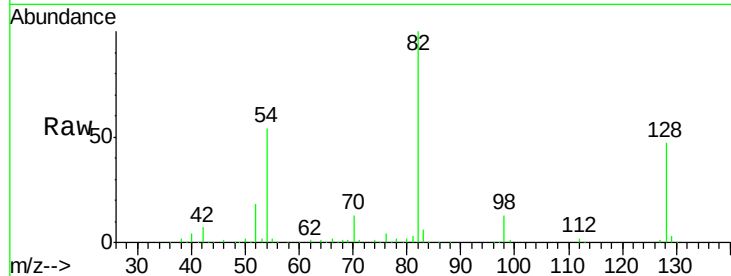
#23
 Nitrobenzene-d5
 Concen: 97.60 ng
 RT: 7.49 min Scan# 473
 Delta R.T. -0.00 min
 Lab File: BF080662.D
 Acq: 25 Jul 2015 10:49

Instrument :
 BNA_F
 ClientSampled :
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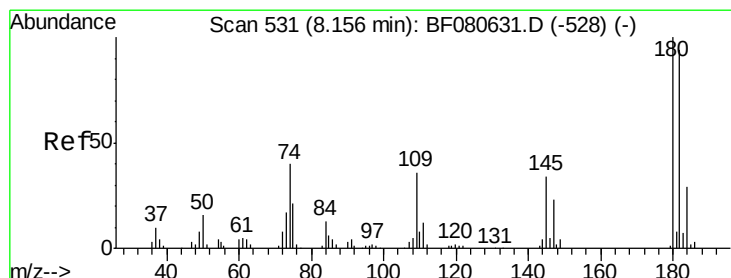
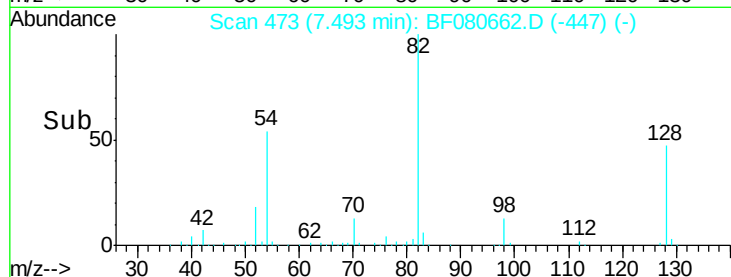
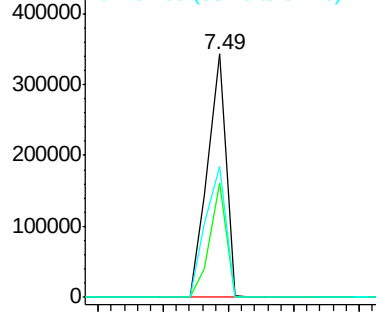
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	336486		
128	47.2	34.8	52.2	
54	53.5	45.4	68.0	

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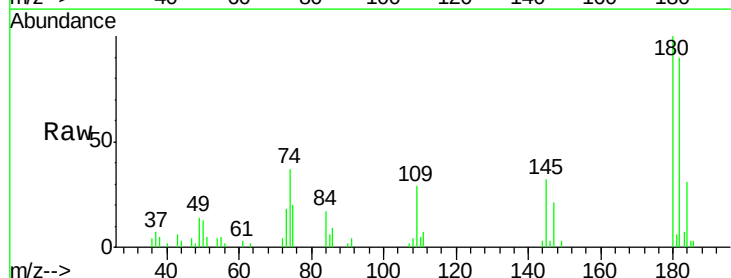


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

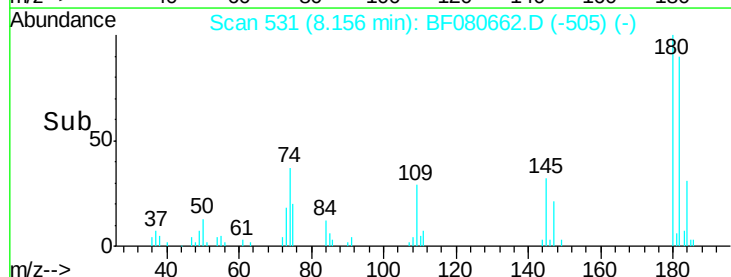
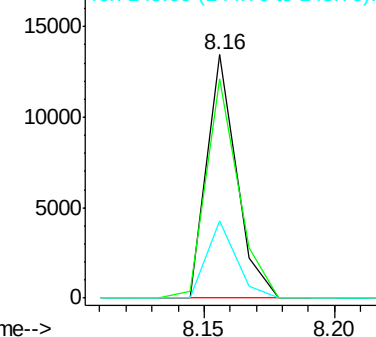


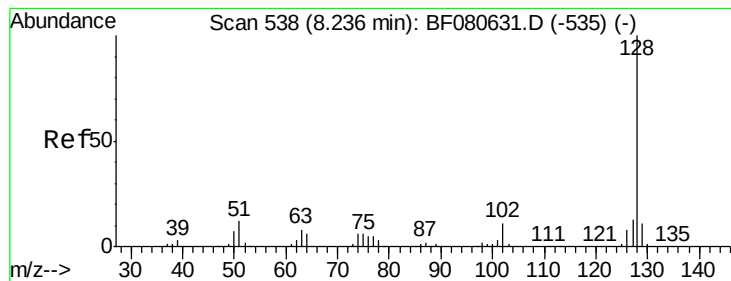
#30
 1,2,4-Trichlorobenzene
 Concen: 3.78 ng
 RT: 8.16 min Scan# 531
 Delta R.T. -0.00 min
 Lab File: BF080662.D
 Acq: 25 Jul 2015 10:49

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	10742		
182	90.3	75.5	113.3	
145	31.9	27.1	40.7	



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





#31

Naphthalene

Concen: 2.48 ng

RT: 8.24 min Scan# 538

Delta R.T. -0.00 min

Lab File: BF080662.D

Acq: 25 Jul 2015 10:49

Instrument :

BNA_F

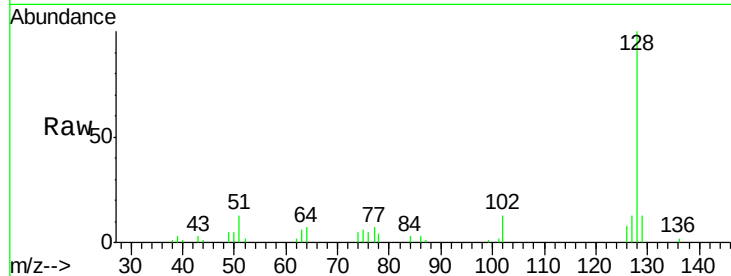
ClientSampleId :

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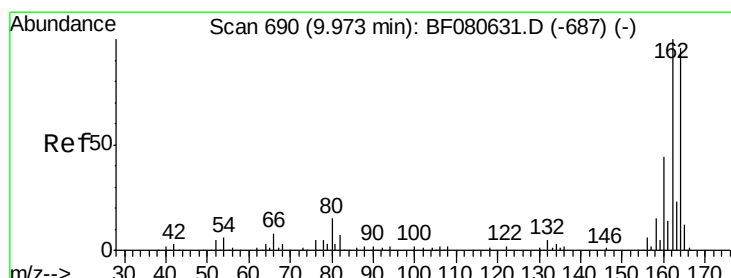
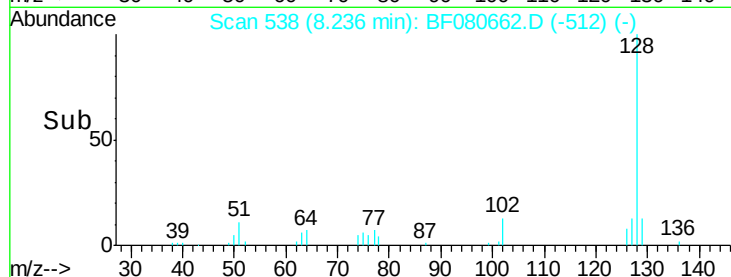
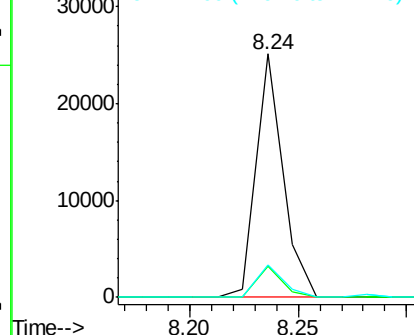
Tgt Ion:	128	Resp:	21492
Ion Ratio	Lower	Upper	
128	100		
129	12.9	9.0	13.6
127	13.2	10.6	15.8

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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



#38

Acenaphthene-d10

Concen: 20.00 ng

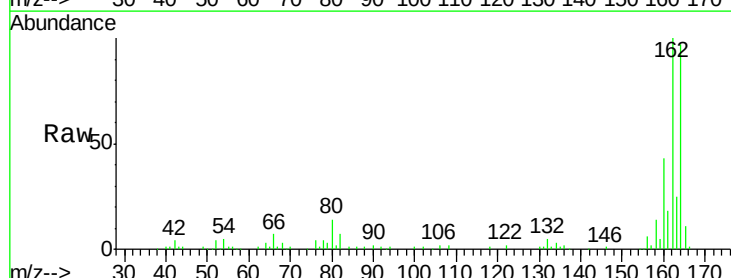
RT: 9.97 min Scan# 690

Delta R.T. -0.00 min

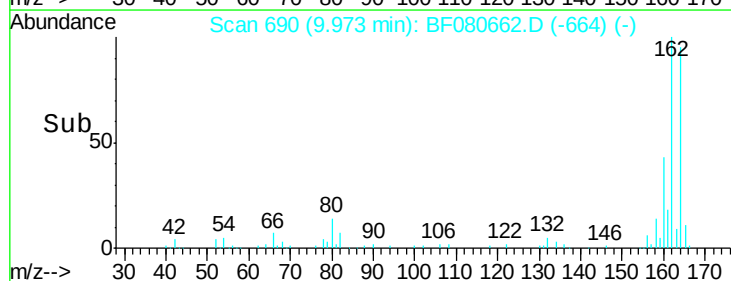
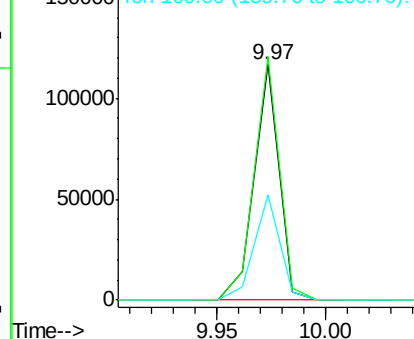
Lab File: BF080662.D

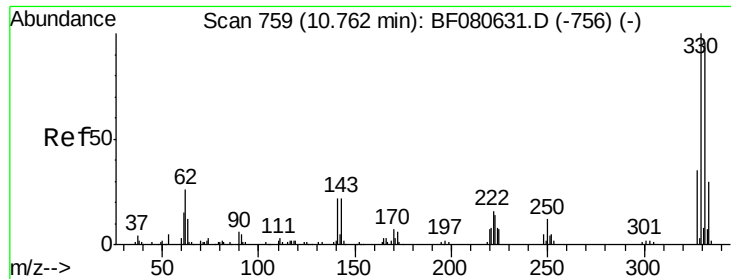
Acq: 25 Jul 2015 10:49

Tgt Ion:	164	Resp:	92193
Ion Ratio	Lower	Upper	
164	100		
162	103.4	83.3	124.9
160	44.7	36.9	55.3



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





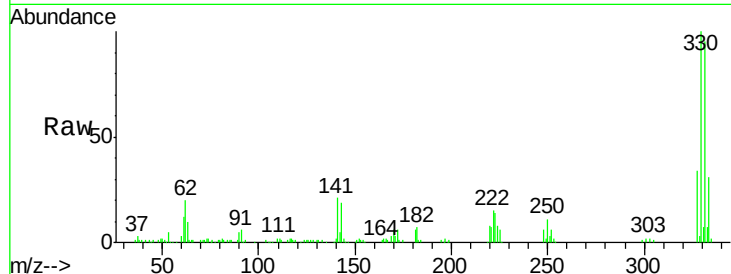
#41
 2,4,6-Tribromophenol
 Concen: 136.00 ng
 RT: 10.76 min Scan# 759
 Delta R.T. -0.00 min
 Lab File: BF080662.D
 Acq: 25 Jul 2015 10:49

Instrument :
 BNA_F
 ClientSampleId :
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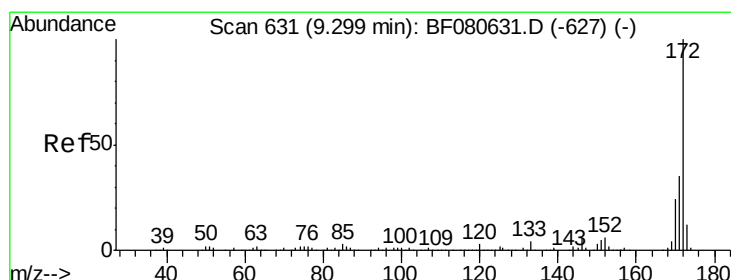
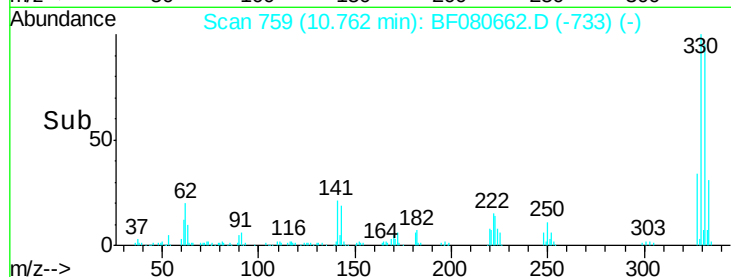
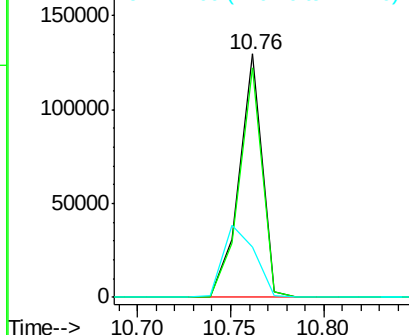
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	112649		
332	94.6	76.7	115.1	
141	41.2	32.7	49.1	

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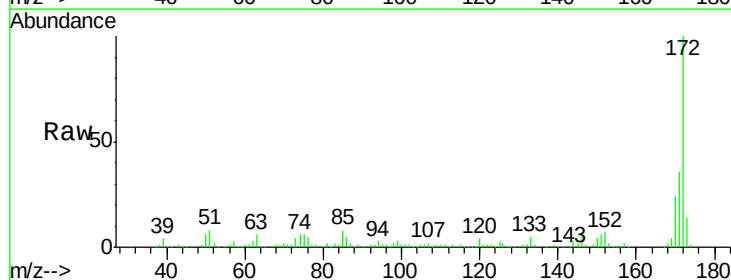


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

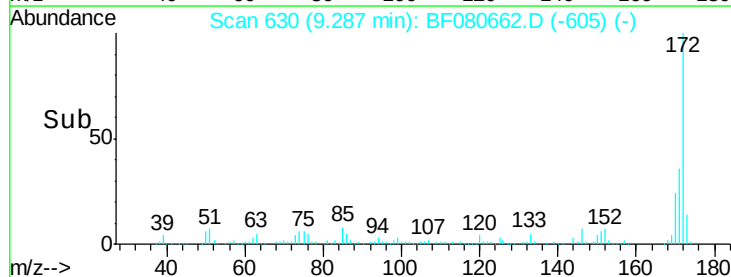
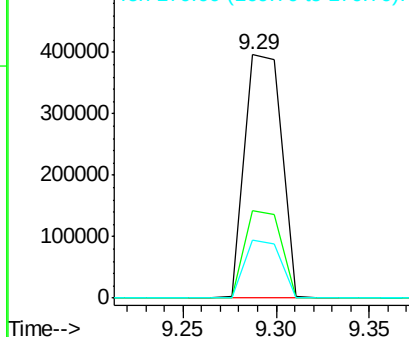


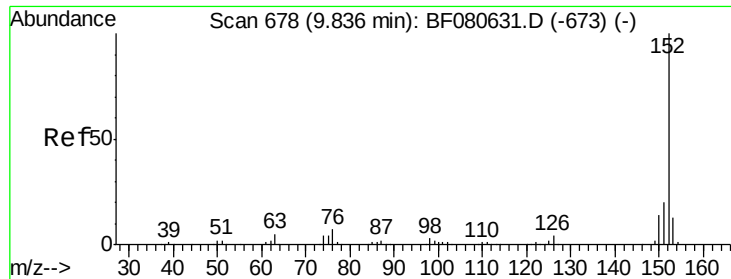
#44
 2-Fluorobiphenyl
 Concen: 90.63 ng
 RT: 9.29 min Scan# 630
 Delta R.T. -0.01 min
 Lab File: BF080662.D
 Acq: 25 Jul 2015 10:49

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	541552		
171	35.9	27.7	41.5	
170	24.0	19.0	28.4	



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





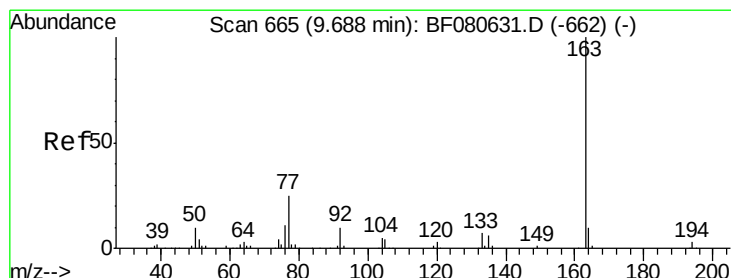
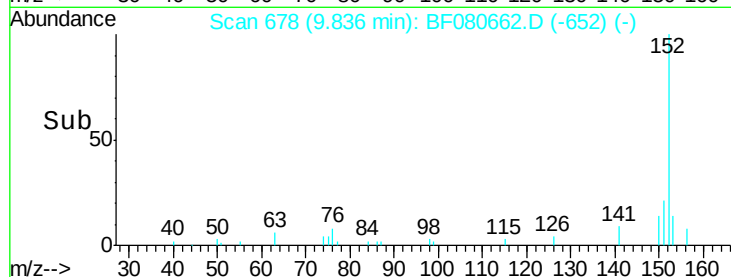
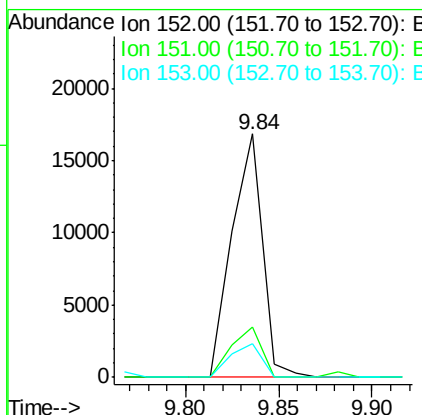
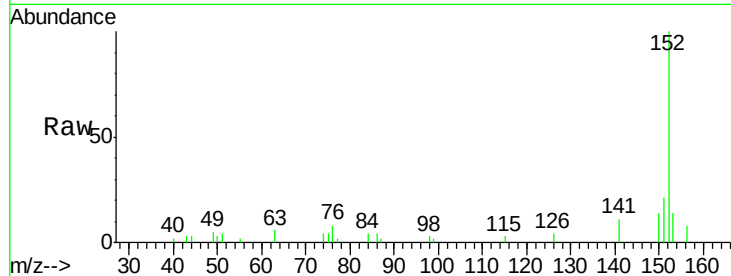
#48
Acenaphthylene
Concen: 2.13 ng
RT: 9.84 min Scan# 678
Delta R.T. -0.00 min
Lab File: BF080662.D
Acq: 25 Jul 2015 10:49

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion:	152	Resp:	19382
Ion Ratio	Lower	Upper	
152	100		
151	20.7	16.3	24.5
153	14.0	10.2	15.4

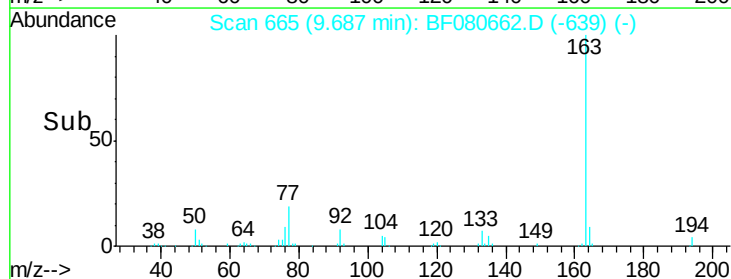
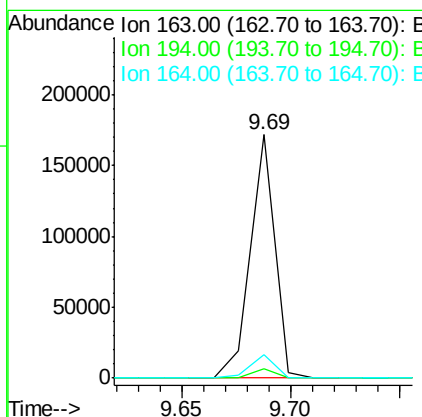
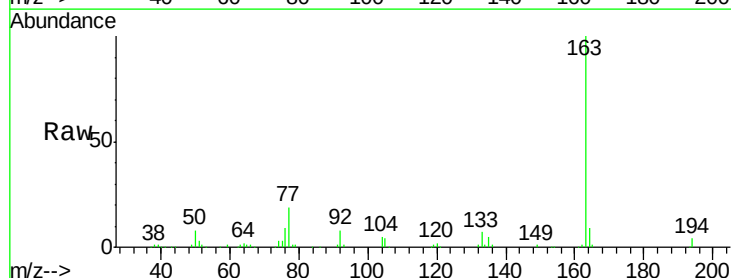
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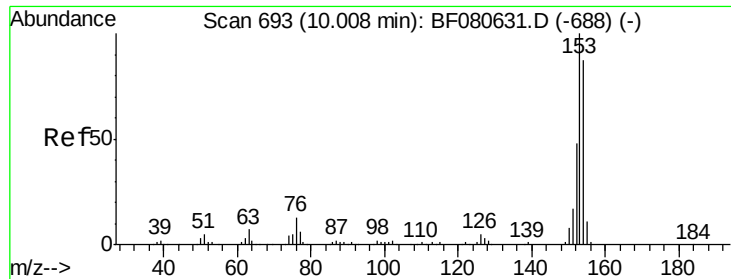
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#49
Dimethylphthalate
Concen: 20.26 ng
RT: 9.69 min Scan# 665
Delta R.T. -0.00 min
Lab File: BF080662.D
Acq: 25 Jul 2015 10:49

Tgt Ion:	163	Resp:	133625
Ion Ratio	Lower	Upper	
163	100		
194	3.9	2.5	3.7#
164	9.5	8.0	12.0





#51

Acenaphthene

Concen: 5.12 ng

RT: 10.01 min Scan# 693

Delta R.T. -0.00 min

Lab File: BF080662.D

Acq: 25 Jul 2015 10:49

Instrument :

BNA_F

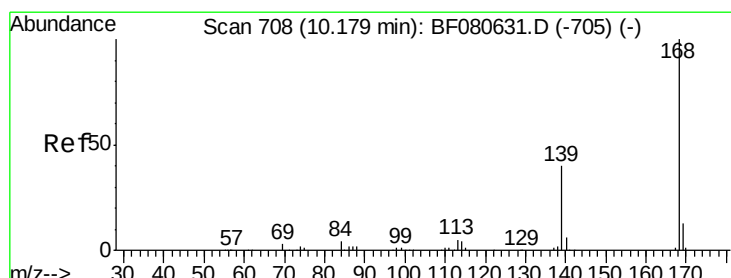
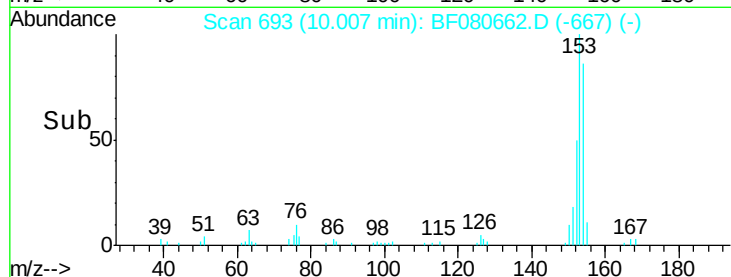
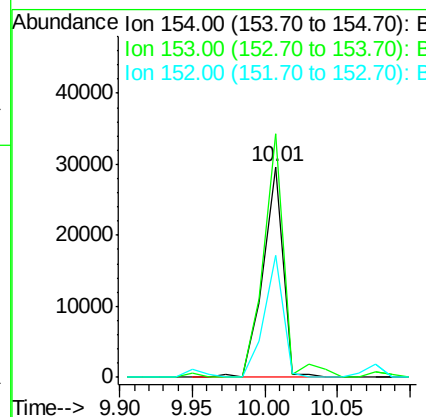
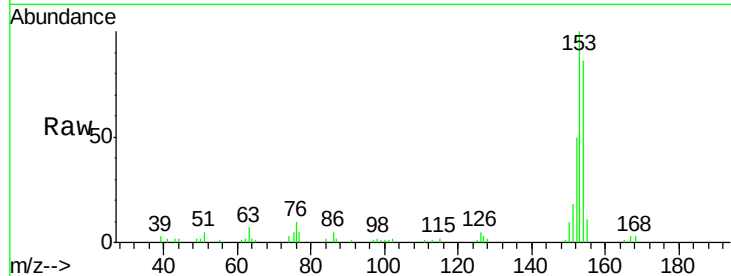
ClientSampleId :

SOIL-2

Tgt Ion:	154	Resp:	28354
Ion Ratio	Lower	Upper	
154	100		
153	115.8	91.6	137.4
152	58.1	44.0	66.0

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#54

Dibenzofuran

Concen: 3.48 ng

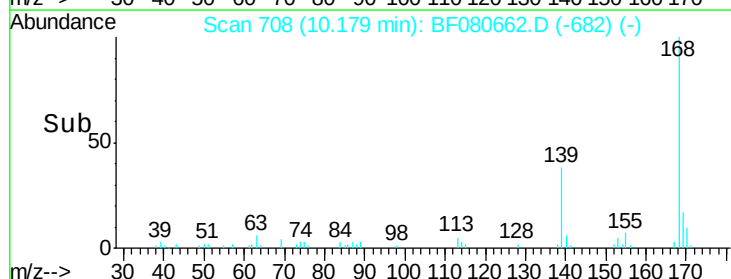
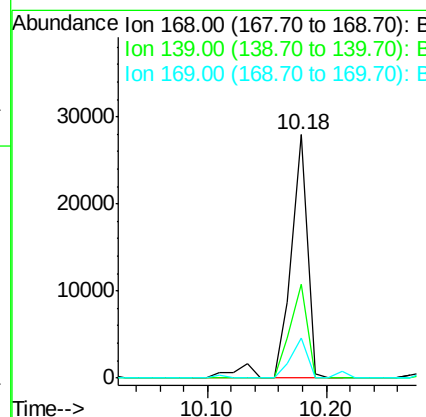
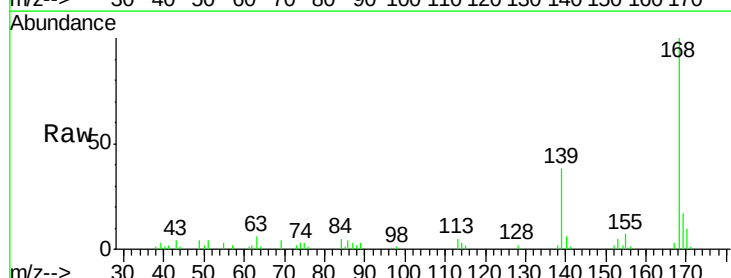
RT: 10.18 min Scan# 708

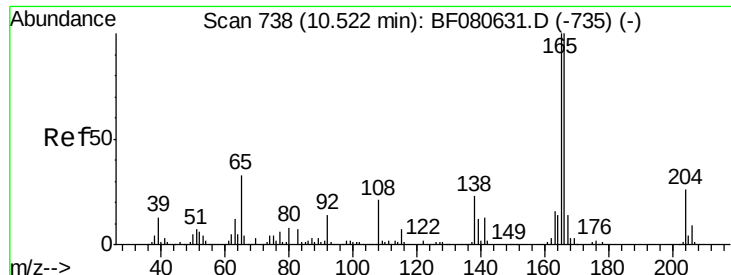
Delta R.T. -0.00 min

Lab File: BF080662.D

Acq: 25 Jul 2015 10:49

Tgt Ion:	168	Resp:	27494
Ion Ratio	Lower	Upper	
168	100		
139	38.5	32.2	48.4
169	16.6	10.2	15.2#





#57

Fluorene

Concen: 6.19 ng

RT: 10.52 min Scan# 738

Delta R.T. -0.00 min

Lab File: BF080662.D

Acq: 25 Jul 2015 10:49

Instrument :

BNA_F

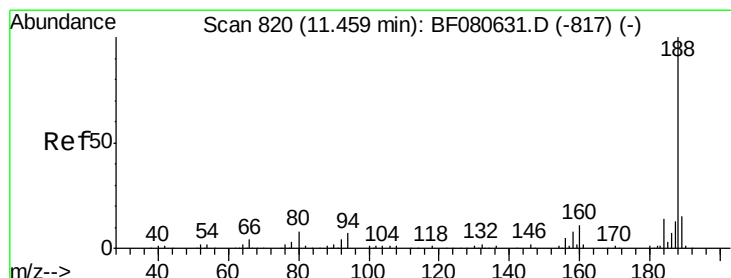
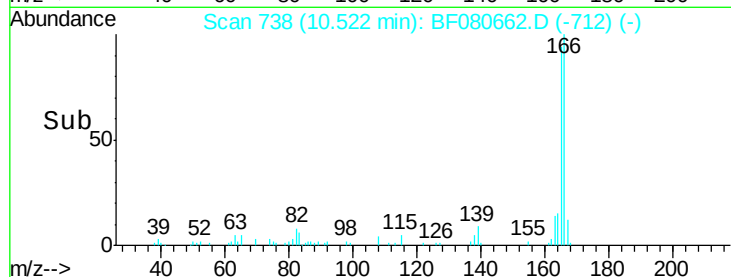
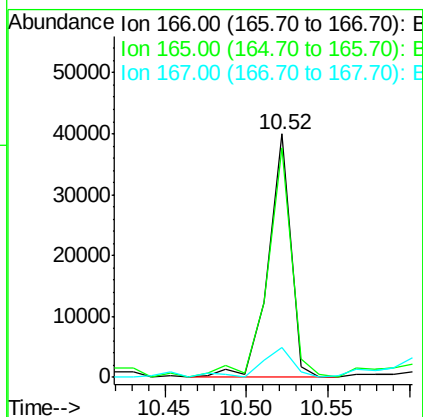
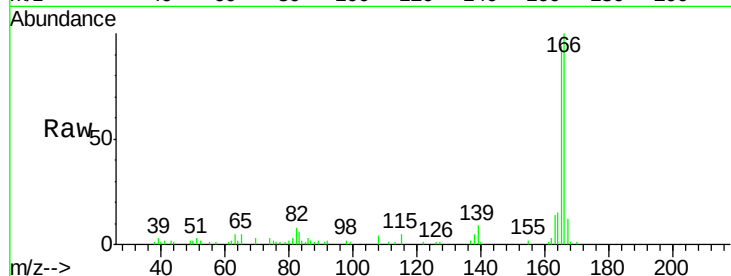
ClientSampled :

SOIL-2

Tgt Ion:	166	Resp:	38515
Ion Ratio	Lower	Upper	
166	100		
165	94.3	80.0	120.0
167	12.4	10.8	16.2

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#63

Phenanthrene-d10

Concen: 20.00 ng

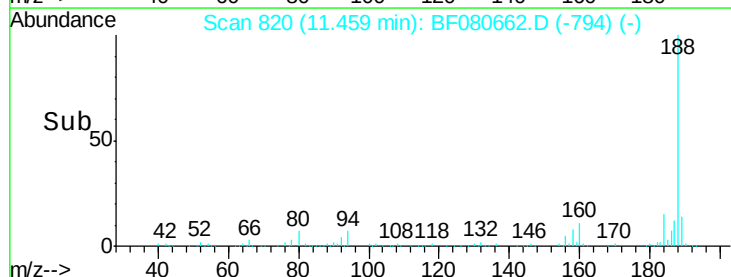
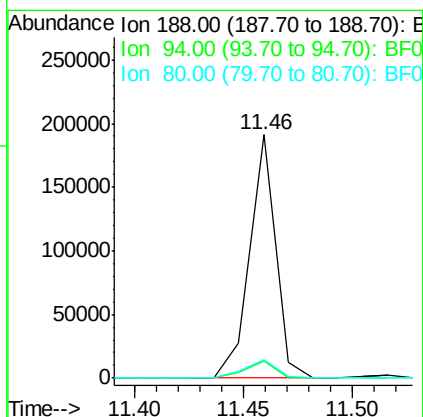
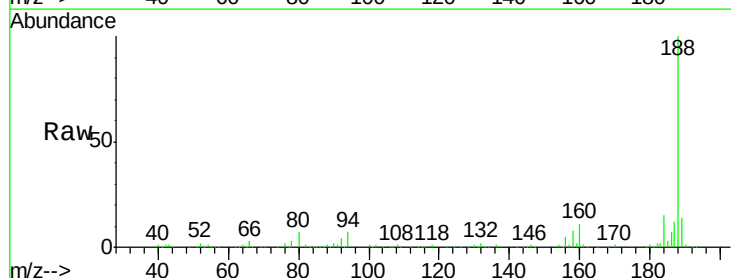
RT: 11.46 min Scan# 820

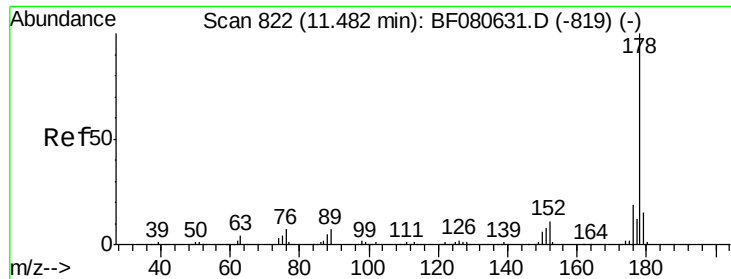
Delta R.T. -0.00 min

Lab File: BF080662.D

Acq: 25 Jul 2015 10:49

Tgt Ion:	188	Resp:	158515
Ion Ratio	Lower	Upper	
188	100		
94	6.8	5.6	8.4
80	7.3	6.1	9.1





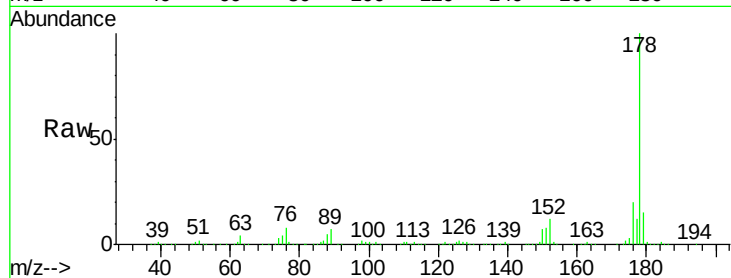
#70
Phenanthrene
Concen: 71.15 ng
RT: 11.48 min Scan# 822
Delta R.T. -0.00 min
Lab File: BF080662.D
Acq: 25 Jul 2015 10:49

Instrument :
BNA_F
ClientSampled :
SOIL-2

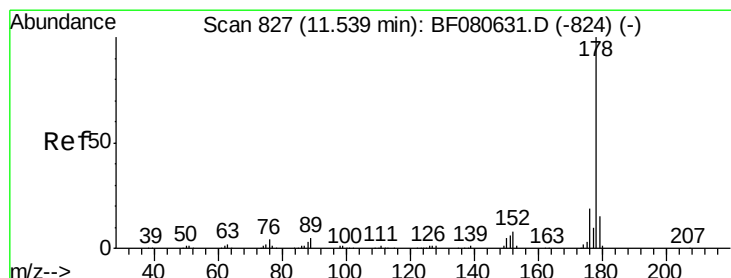
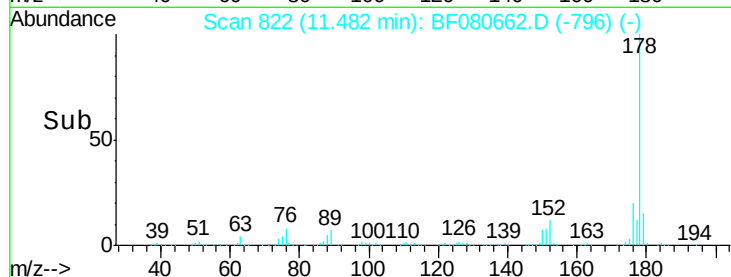
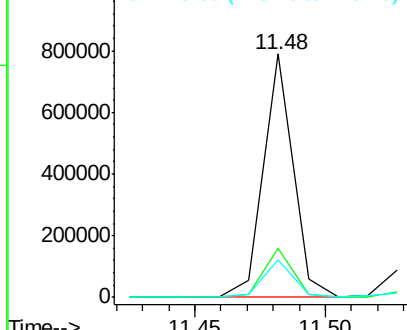
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.5	23.3
179	15.3	11.8	17.8

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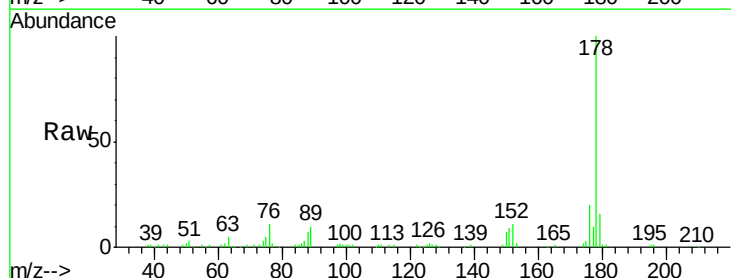


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

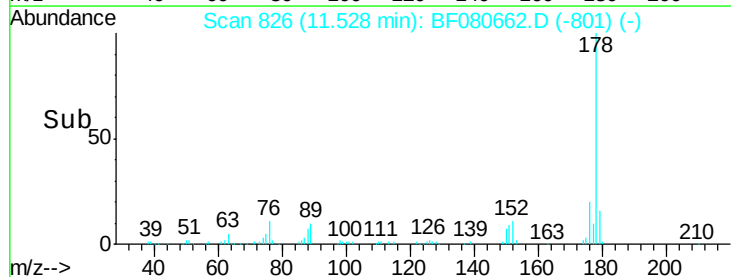
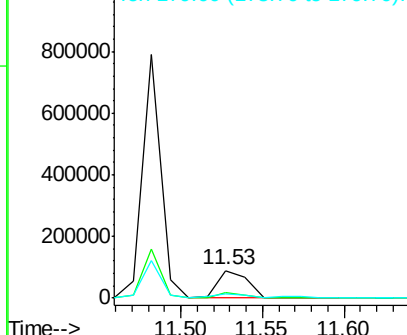


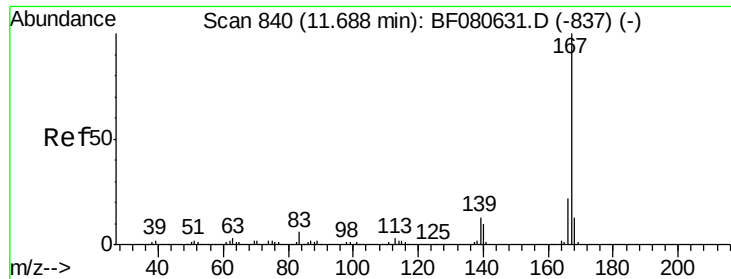
#71
Anthracene
Concen: 13.31 ng
RT: 11.53 min Scan# 826
Delta R.T. -0.01 min
Lab File: BF080662.D
Acq: 25 Jul 2015 10:49

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.0	22.6
179	16.4	12.1	18.1



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 4.67 ng

RT: 11.69 min Scan# 840

Delta R.T. -0.00 min

Lab File: BF080662.D

Acq: 25 Jul 2015 10:49

Instrument :

BNA_F

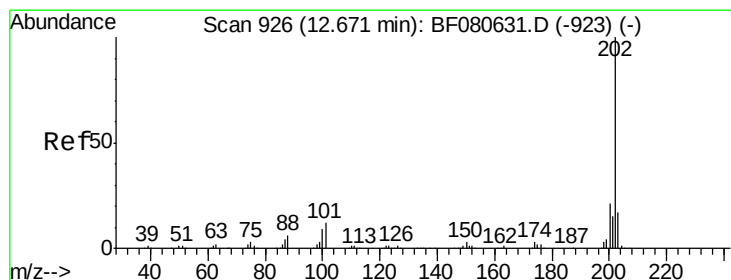
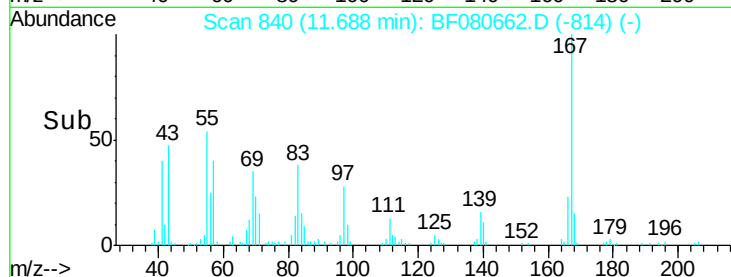
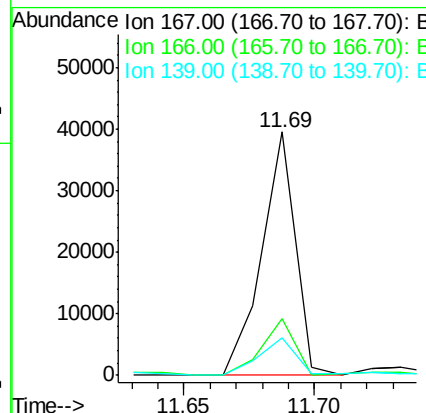
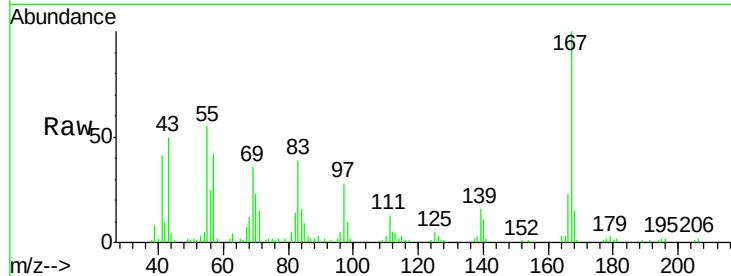
ClientSampled :

SOIL-2

Tgt Ion:	167	Resp:	35714
Ion Ratio	Lower	Upper	
167	100		
166	23.4	17.9	26.9
139	15.5	10.6	15.8

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#74

Fluoranthene

Concen: 66.68 ng

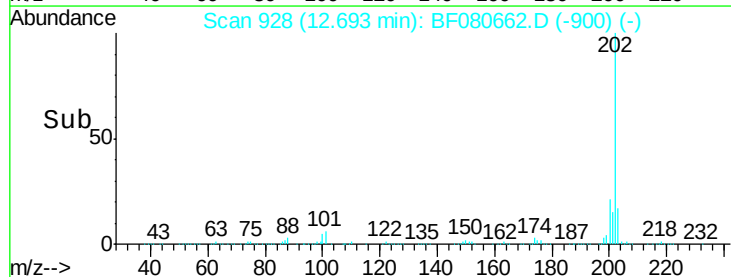
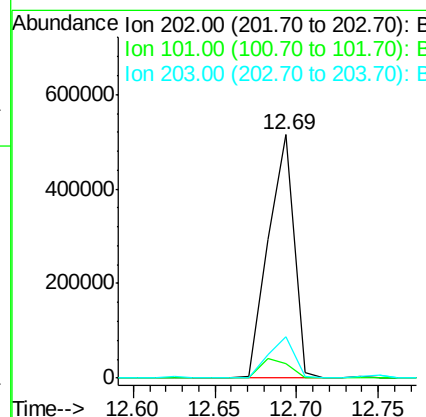
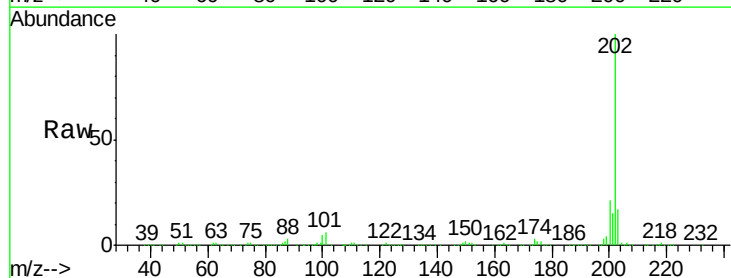
RT: 12.69 min Scan# 928

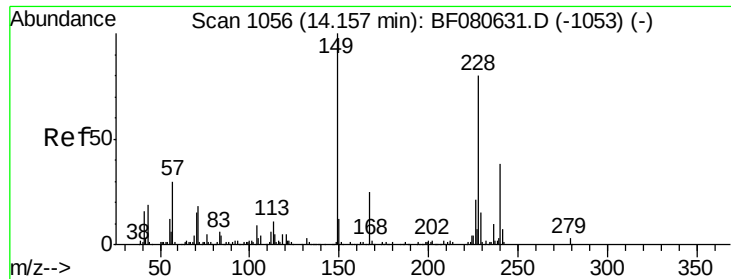
Delta R.T. 0.02 min

Lab File: BF080662.D

Acq: 25 Jul 2015 10:49

Tgt Ion:	202	Resp:	563920
Ion Ratio	Lower	Upper	
202	100		
101	6.0	0.0	32.0
203	17.2	0.0	37.0





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.27 min Scan# 1066

Delta R.T. 0.11 min

Lab File: BF080662.D

Acq: 25 Jul 2015 10:49

Instrument :

BNA_F

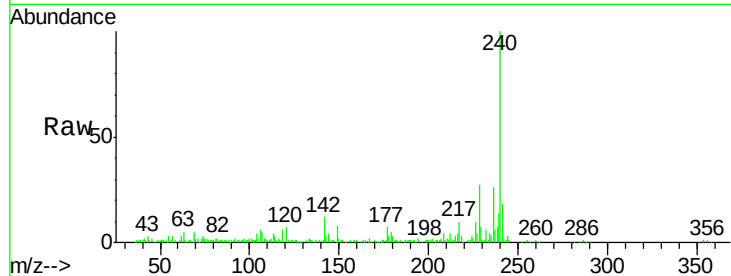
ClientSampled :

SOIL-2

Tgt	Ion	Ratio	Resp	Lower	Upper
240	100		136359		
120	6.8		10.8	16.2	#
236	26.5		20.3	30.5	

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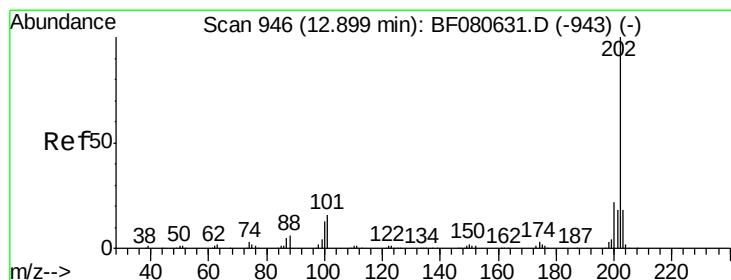
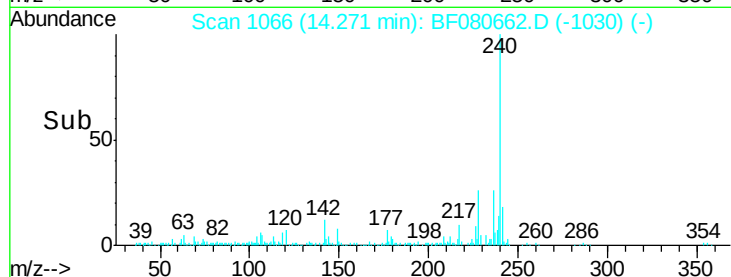
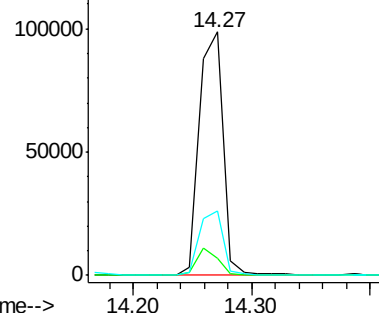
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 65.54 ng

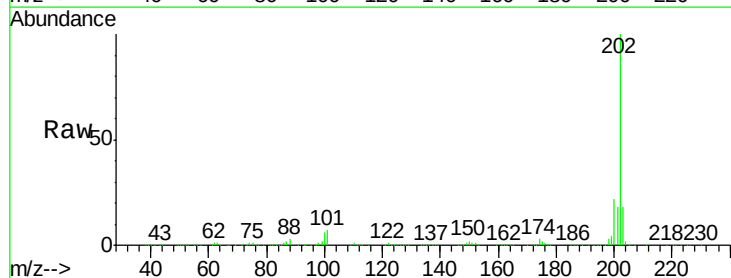
RT: 12.93 min Scan# 949

Delta R.T. 0.03 min

Lab File: BF080662.D

Acq: 25 Jul 2015 10:49

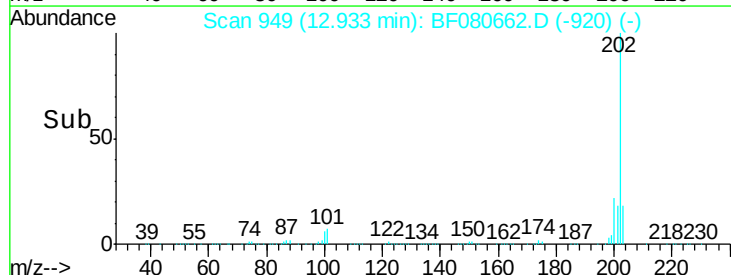
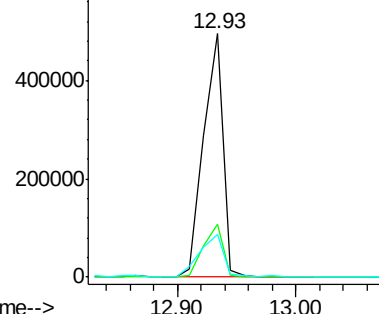
Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		559737		
200	21.7		17.4	26.0	
203	17.7		14.6	22.0	

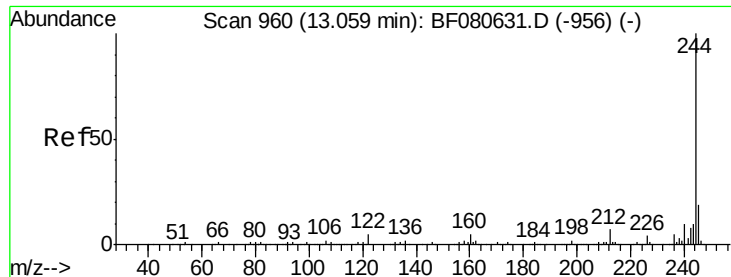


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 79.17 ng

RT: 13.08 min Scan# 962

Delta R.T. 0.02 min

Lab File: BF080662.D

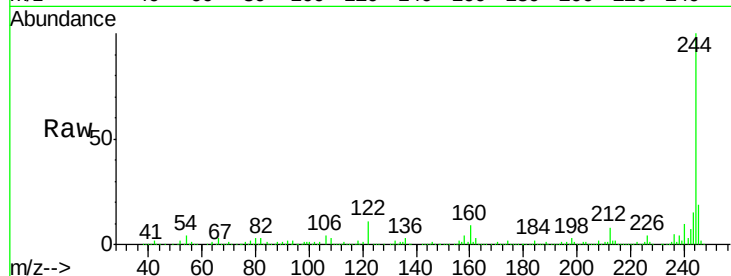
Acq: 25 Jul 2015 10:49

Instrument :

BNA_F

ClientSampleId :

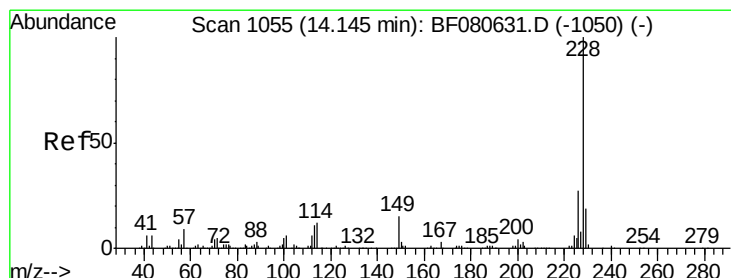
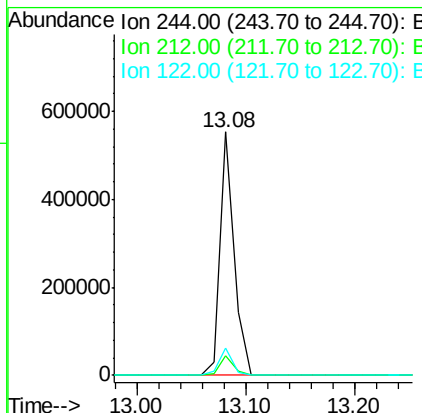
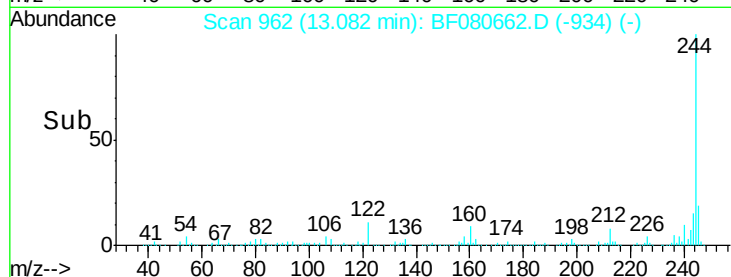
SOIL-2



Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	8.0	5.2	7.8#	
122	11.1	4.1	6.1#	

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#80

Benzo(a)anthracene

Concen: 30.49 ng

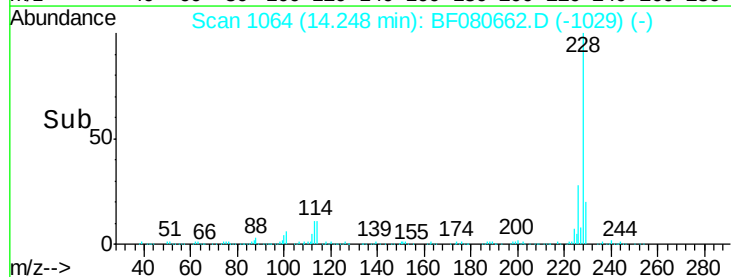
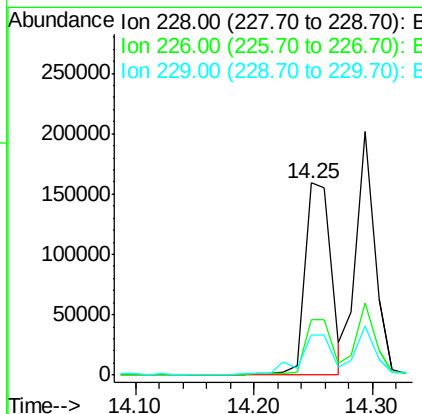
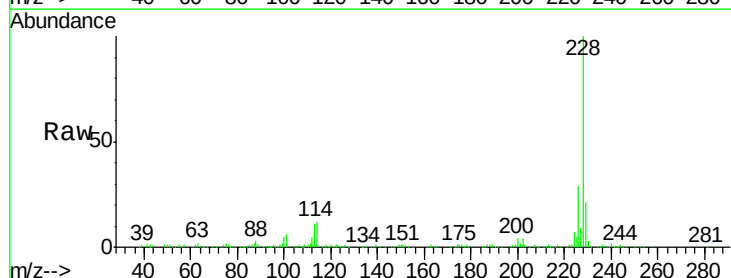
RT: 14.25 min Scan# 1064

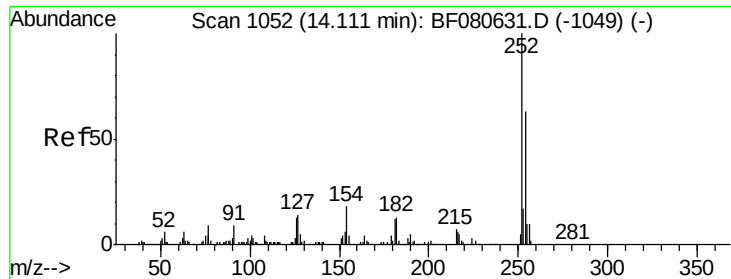
Delta R.T. 0.10 min

Lab File: BF080662.D

Acq: 25 Jul 2015 10:49

Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	28.9	21.4	32.0	
229	21.1	15.4	23.0	





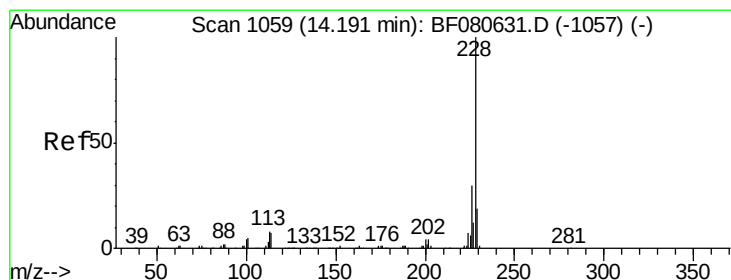
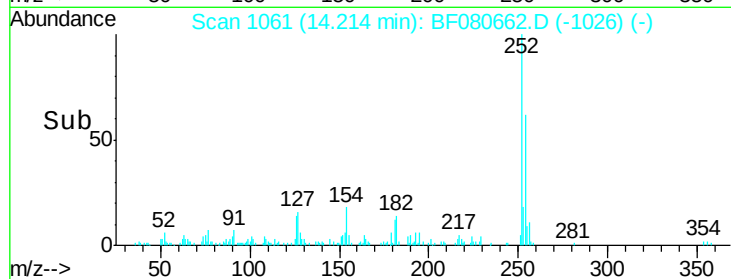
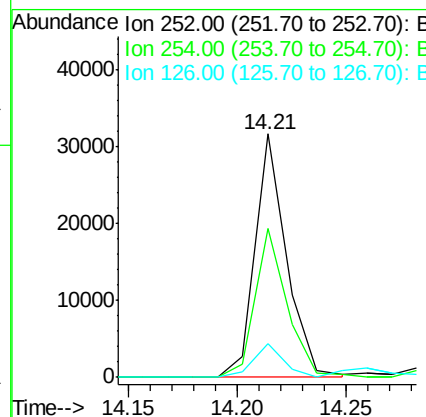
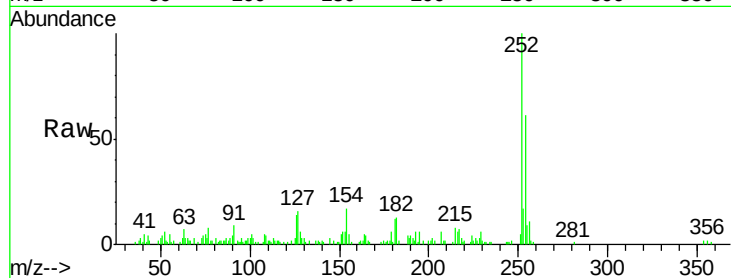
#81
 3,3'-Dichlorobenzidine
 Concen: 12.25 ng
 RT: 14.21 min Scan# 1061
 Delta R.T. 0.10 min
 Lab File: BF080662.D
 Acq: 25 Jul 2015 10:49

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-2

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	31867		
254	61.0	50.4	75.6	
126	14.0	10.6	15.8	

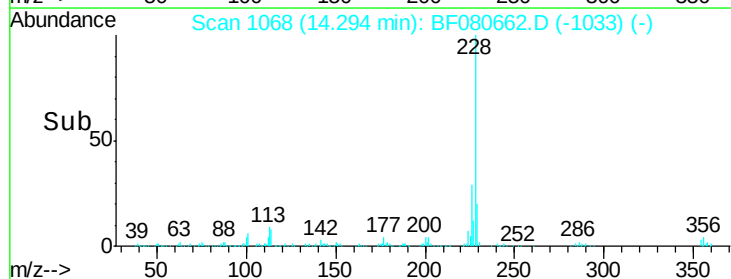
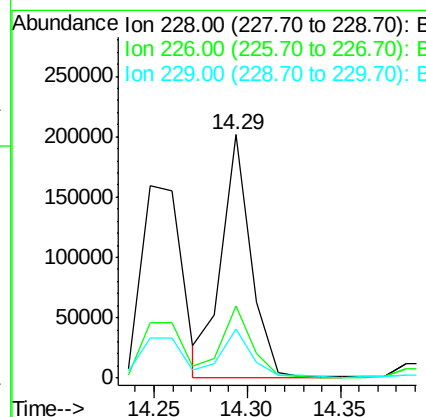
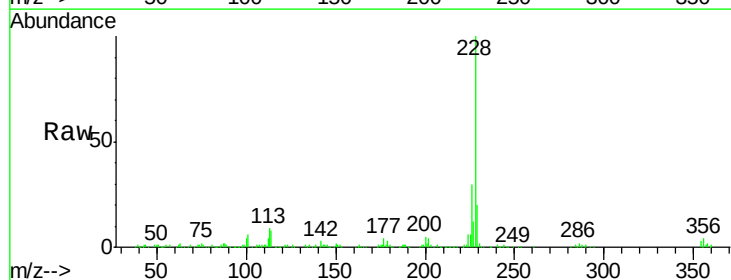
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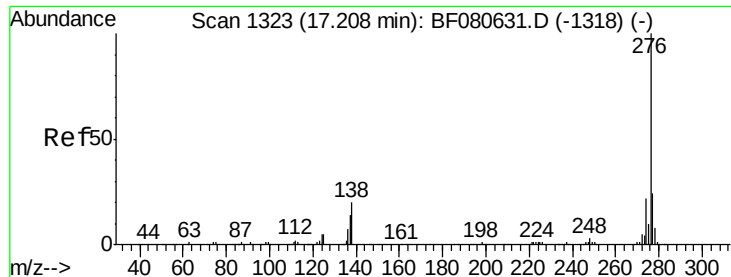
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#82
 Chrysene
 Concen: 29.73 ng
 RT: 14.29 min Scan# 1068
 Delta R.T. 0.10 min
 Lab File: BF080662.D
 Acq: 25 Jul 2015 10:49

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	222814		
226	29.6	24.2	36.4	
229	20.3	15.4	23.2	





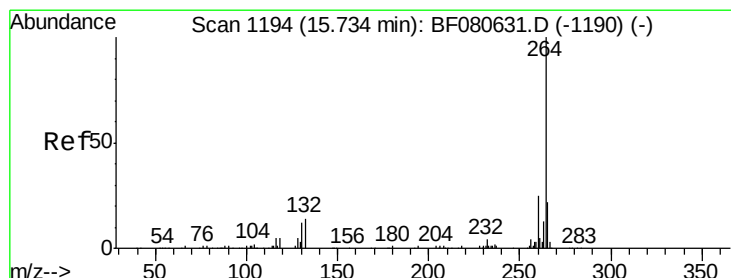
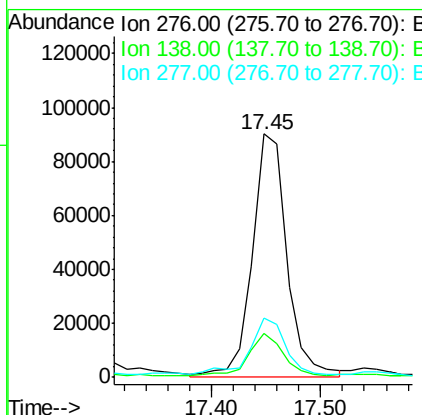
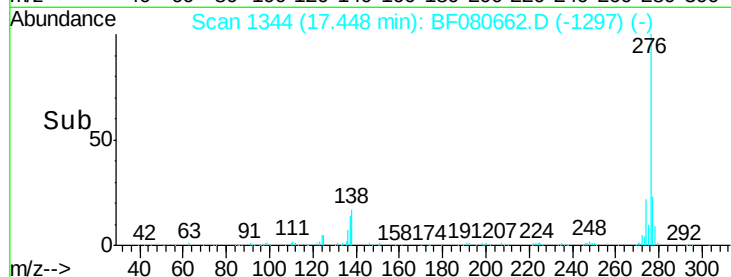
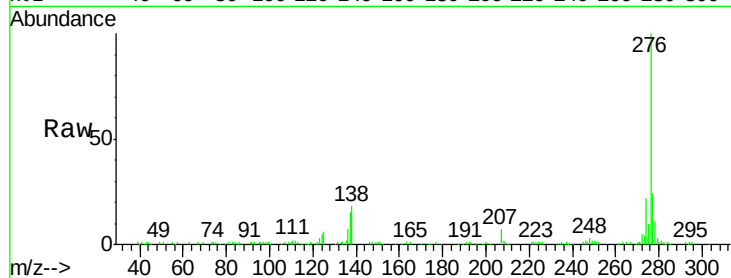
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 26.14 ng m
 RT: 17.45 min Scan# 1344
 Delta R.T. 0.24 min
 Lab File: BF080662.D
 Acq: 25 Jul 2015 10:49

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-2

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	3.6	17.5	26.3#
277	4.4	19.8	29.6#

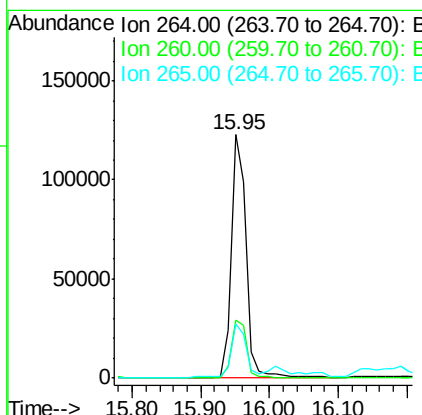
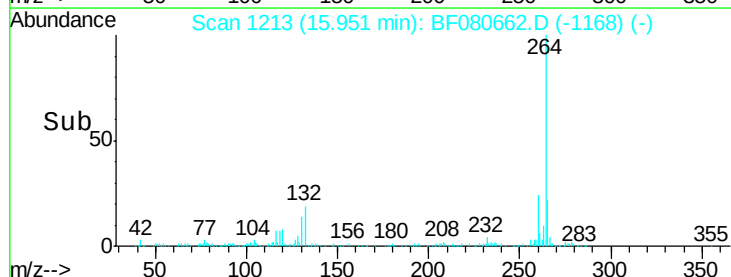
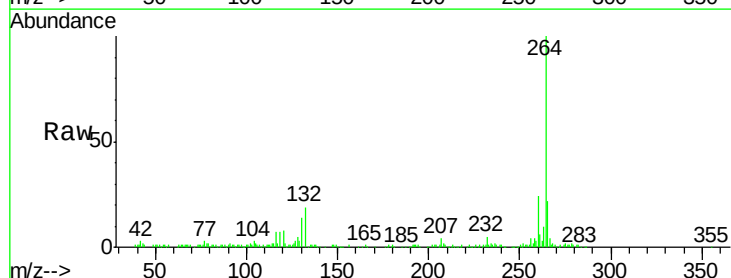
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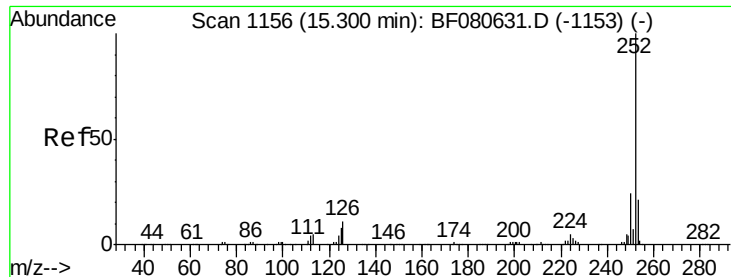
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.95 min Scan# 1213
 Delta R.T. 0.22 min
 Lab File: BF080662.D
 Acq: 25 Jul 2015 10:49

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	23.6	20.1	30.1
265	22.2	17.4	26.0





#87

Benzo(b)fluoranthene

Concen: 26.96 ng m

RT: 15.51 min Scan# 1174

Delta R.T. 0.21 min

Lab File: BF080662.D

Acq: 25 Jul 2015 10:49

Instrument :

BNA_F

ClientSampleId :

SOIL-2

Tgt Ion: 252 Resp: 308077

Ion Ratio Lower Upper

252 100

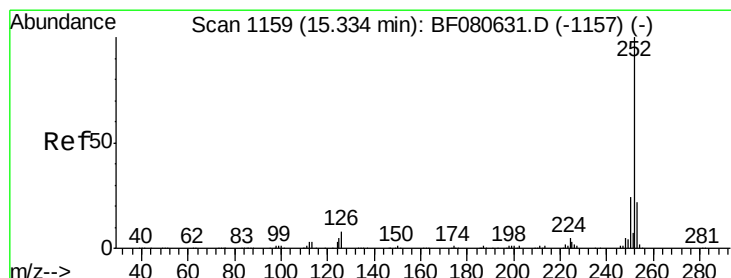
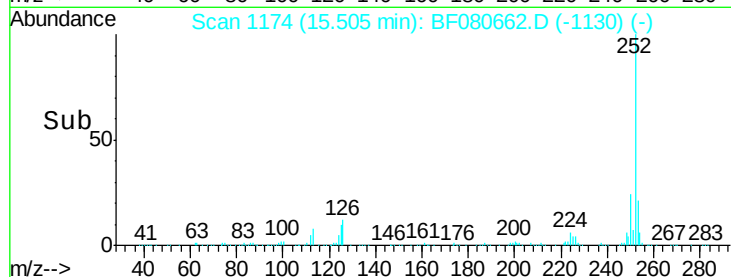
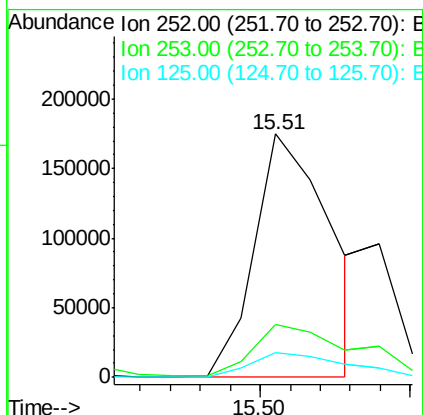
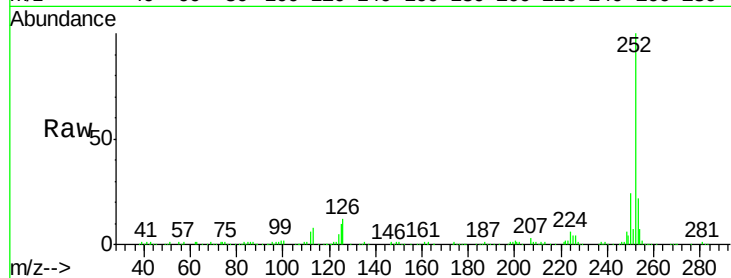
253 21.6 17.1 25.7

125 9.9 6.5 9.7#

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#88

Benzo(k)fluoranthene

Concen: 7.92 ng m

RT: 15.54 min Scan# 1177

Delta R.T. 0.21 min

Lab File: BF080662.D

Acq: 25 Jul 2015 10:49

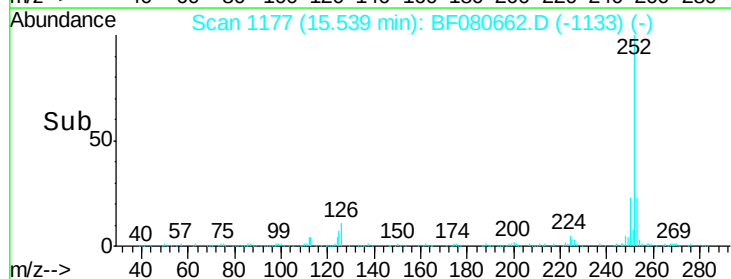
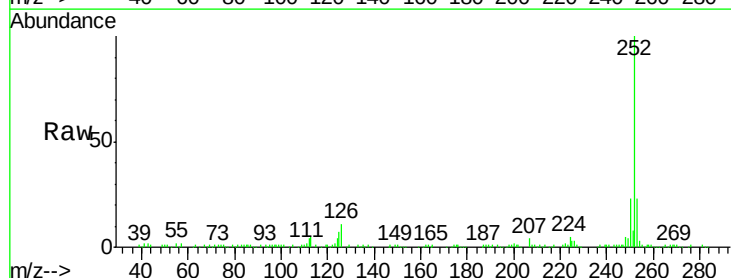
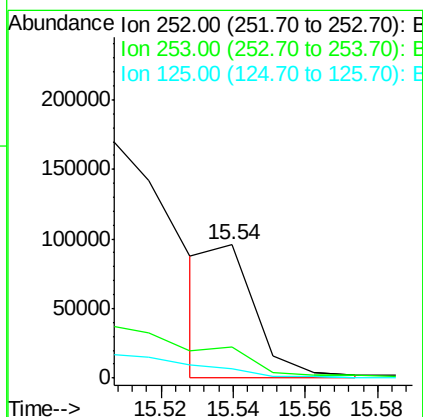
Tgt Ion: 252 Resp: 80983

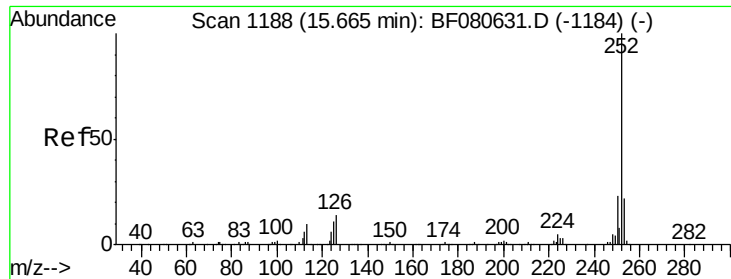
Ion Ratio Lower Upper

252 100

253 23.3 17.0 25.6

125 7.4 4.6 6.8#





#89

Benzo(a)pyrene

Concen: 24.83 ng m

RT: 15.89 min Scan# 1208

Delta R.T. 0.23 min

Lab File: BF080662.D

Acq: 25 Jul 2015 10:49

Instrument :

BNA_F

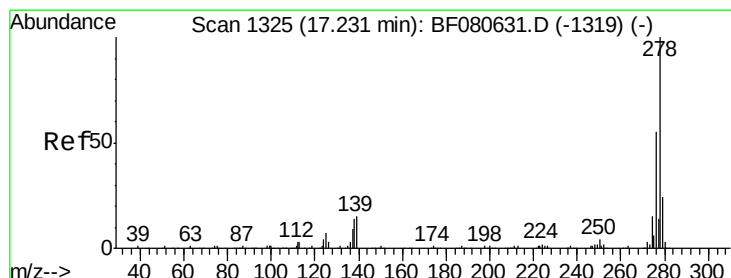
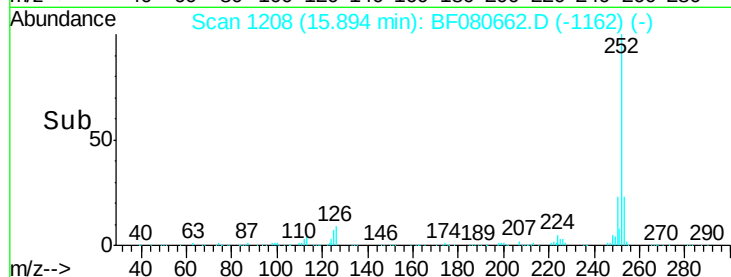
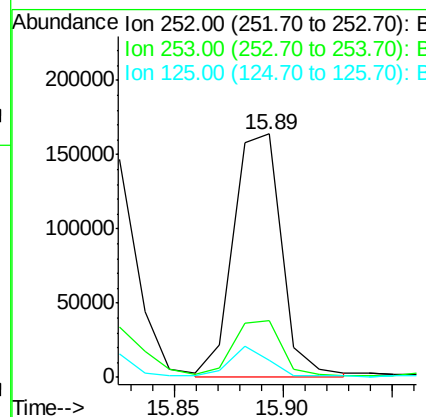
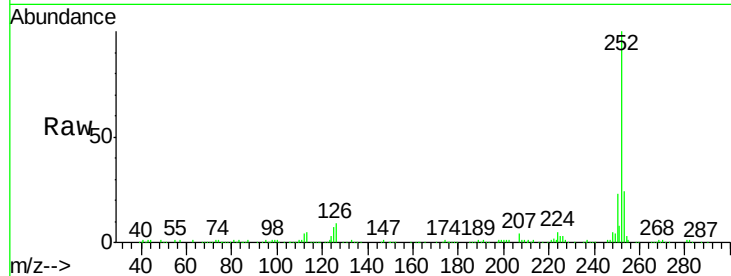
ClientSampled :

SOIL-2

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	255221		
253	23.5	17.8	26.6	
125	6.8	9.1	13.7	

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#90

Dibenzo(a,h)anthracene

Concen: 4.31 ng m

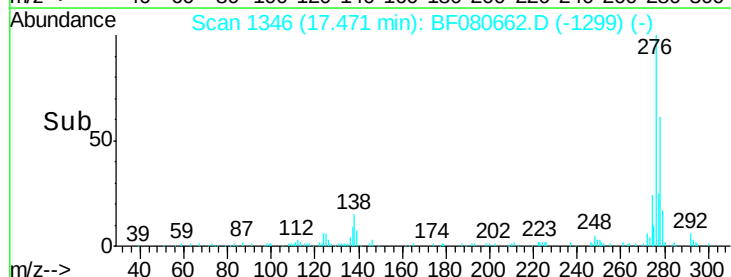
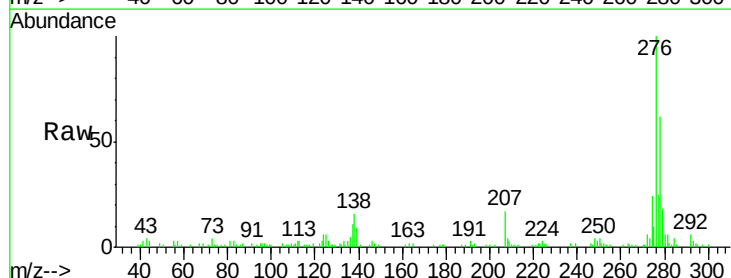
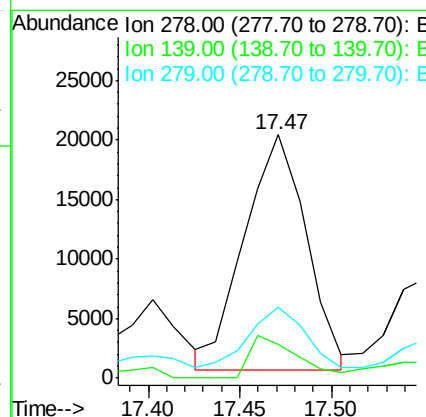
RT: 17.47 min Scan# 1346

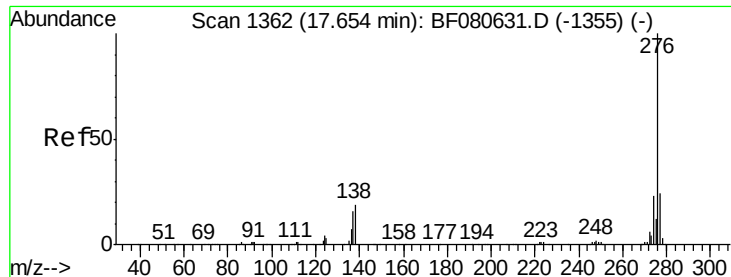
Delta R.T. 0.24 min

Lab File: BF080662.D

Acq: 25 Jul 2015 10:49

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	46611		
139	14.1	11.7	17.5	
279	29.2	18.9	28.3	





#91
 Benzo(g,h,i)perylene
 Concen: 17.29 ng
 RT: 17.91 min Scan# 1384
 Delta R.T. 0.25 min
 Lab File: BF080662.D
 Acq: 25 Jul 2015 10:49

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-2

Tgt Ion:	276	Resp:	190068
Ion Ratio		Lower	Upper
276	100		
277	23.6	19.0	28.4
138	17.5	14.8	22.2

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