

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072315\
 Data File : BF080621.D
 Acq On : 24 Jul 2015 5:52
 Operator : TP/UM
 Sample : G3057-03 5X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FK-SF-03-003-B

Manual Integrations
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Quant Time: Jul 24 06:43:22 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 24 01:01:51 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	38904	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	160556	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	74981	20.00	ng	0.00
63) Phenanthrene-d10	11.48	188	137990	20.00	ng	0.00
75) Chrysene-d12	14.24	240	169128	20.00	ng	0.06
86) Perylene-d12	15.87	264	186621	20.00	ng	0.13
System Monitoring Compounds						
5) 2-Fluorophenol	5.53	112	29847	13.25	ng	0.01
7) Phenol-d6	6.56	99	71211	25.86	ng	0.00
23) Nitrobenzene-d5	7.50	82	43082	15.20	ng	0.00
41) 2,4,6-Tribromophenol	10.78	330	1757	2.96	ng	0.01
44) 2-Fluorobiphenyl	9.31	172	79103	15.31	ng	0.00
78) Terphenyl-d14	13.09	244	84373	10.44	ng	0.02
Target Compounds						Qvalue
31) Naphthalene	8.26	128	22080	2.75	ng	98
51) Acenaphthene	10.03	154	19976	4.55	ng	98
54) Dibenzofuran	10.20	168	20780	3.27	ng	97
57) Fluorene	10.54	166	23984	4.70	ng	99
70) Phenanthrene	11.50	178	266235	34.18	ng	99
71) Anthracene	11.56	178	71421	9.79	ng	99
72) Carbazole	11.71	167	28463	4.51	ng	96
74) Fluoranthene	12.71	202	358587	51.45	ng	96
77) Pyrene	12.95	202	289541	25.52	ng	99
79) Butylbenzylphthalate	13.61	149	87468	24.39	ng	99
80) Benzo(a)anthracene	14.23	228	177242	18.58	ng	98
82) Chrysene	14.27	228	143172	15.09	ng	95
83) Bis(2-ethylhexyl)phthalate	14.24	149	21080	3.80	ng	# 97
85) Indeno(1,2,3-cd)pyrene	17.38	276	86706m	12.08	ng	
87) Benzo(b)fluoranthene	15.44	252	184449m	16.25	ng	
88) Benzo(k)fluoranthene	15.46	252	67115m	5.94	ng	
89) Benzo(a)pyrene	15.81	252	136505m	13.56	ng	
91) Benzo(g,h,i)perylene	17.83	276	79391	8.17	ng	# 91

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

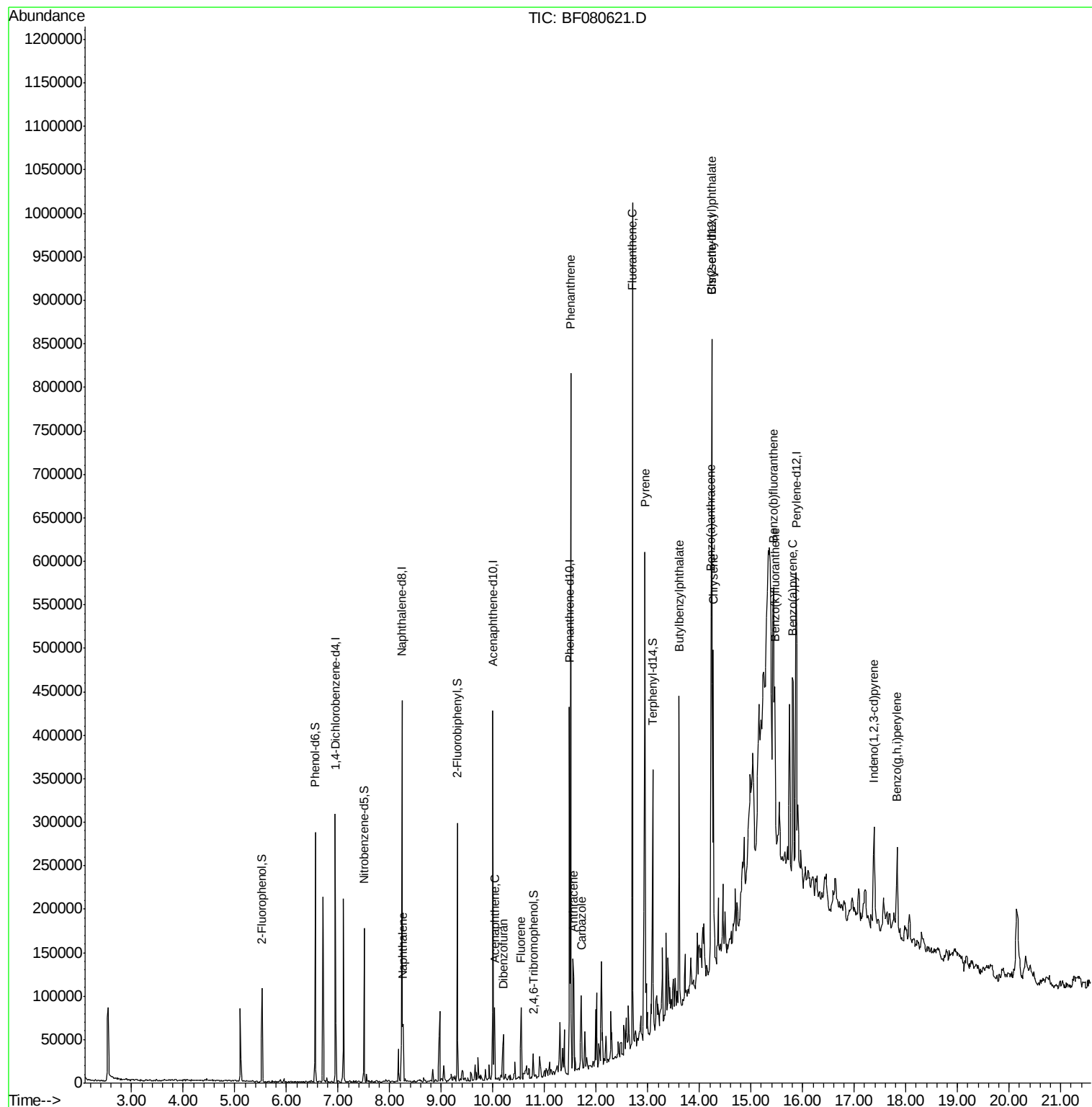
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072315\
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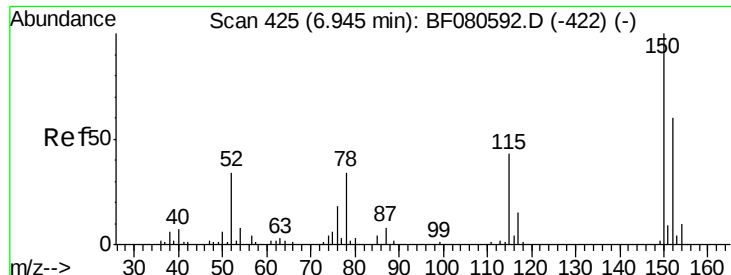
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.94 min Scan# 425

Delta R.T. 0.00 min

Lab File: BF080621.D

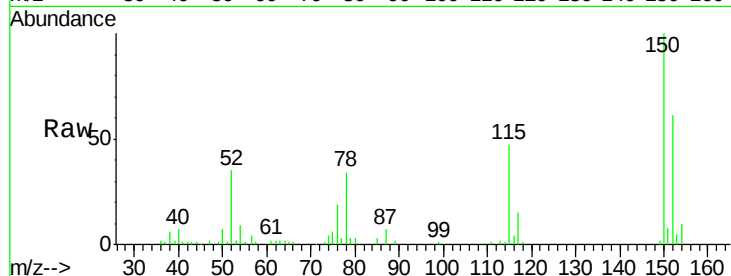
Acq: 24 Jul 2015 5:52

Instrument :

BNA_F

ClientSampleId :

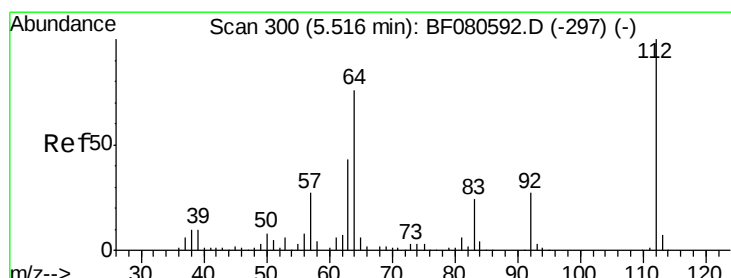
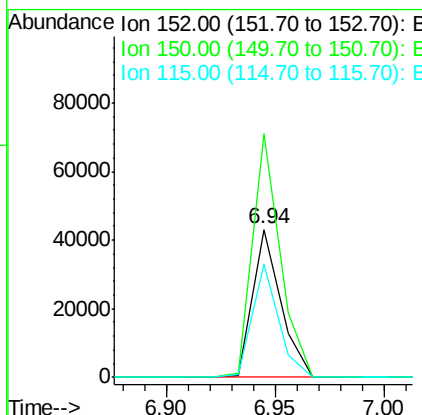
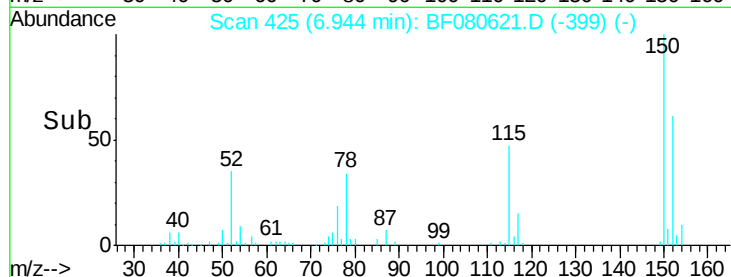
FK-SF-03-003-B



Tgt Ion:	152	Resp:	38904
Ion Ratio	Lower	Upper	
152	100		
150	164.4	128.7	193.1
115	76.6	56.8	85.2

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#5

2-Fluorophenol

Concen: 13.25 ng

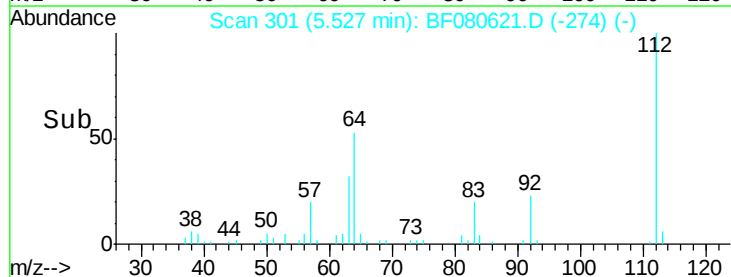
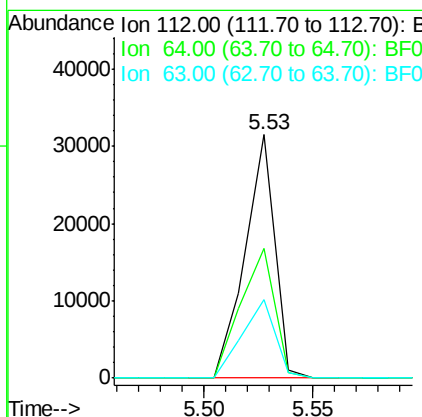
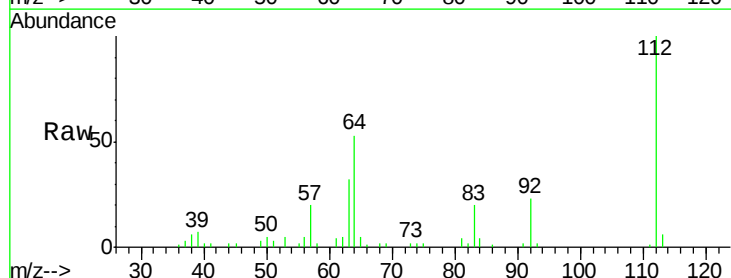
RT: 5.53 min Scan# 301

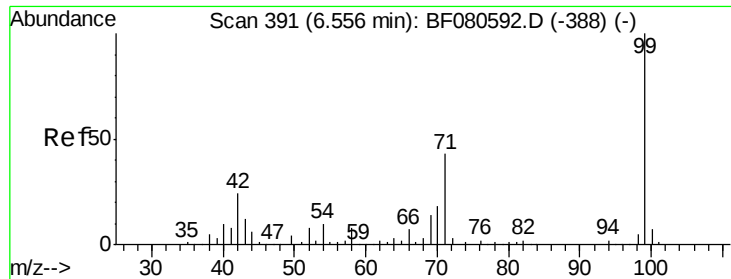
Delta R.T. 0.01 min

Lab File: BF080621.D

Acq: 24 Jul 2015 5:52

Tgt Ion:	112	Resp:	29847
Ion Ratio	Lower	Upper	
112	100		
64	53.4	60.2	90.2#
63	32.3	34.8	52.2#





#7

Phenol-d6

Concen: 25.86 ng

RT: 6.56 min Scan# 391

Delta R.T. 0.00 min

Lab File: BF080621.D

Acq: 24 Jul 2015 5:52

Instrument :

BNA_F

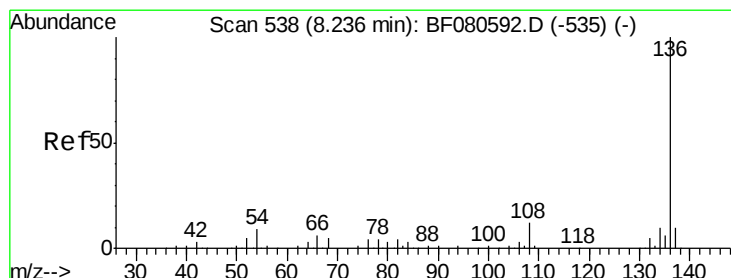
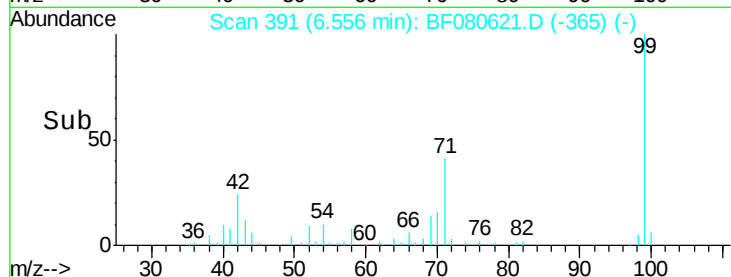
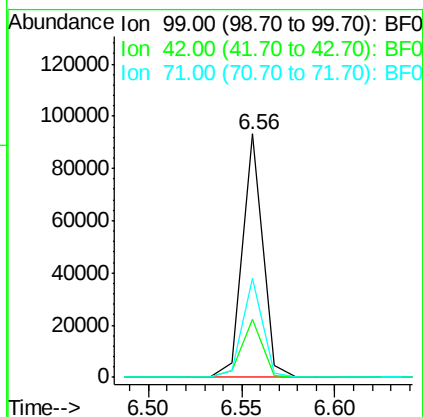
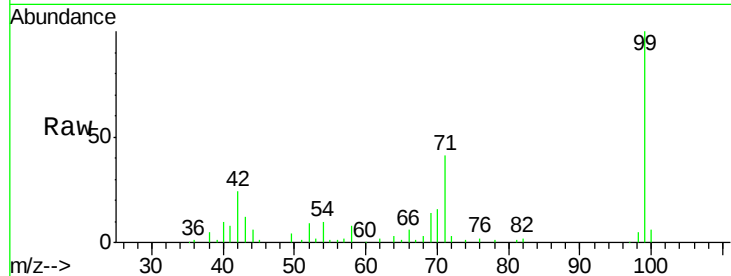
ClientSampleId :

FK-SF-03-003-B

Tgt Ion:	99	Resp:	71211
Ion Ratio	Lower	Upper	
99	100		
42	23.6	17.4	26.2
71	40.6	29.0	43.6

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#21

Naphthalene-d8

Concen: 20.00 ng

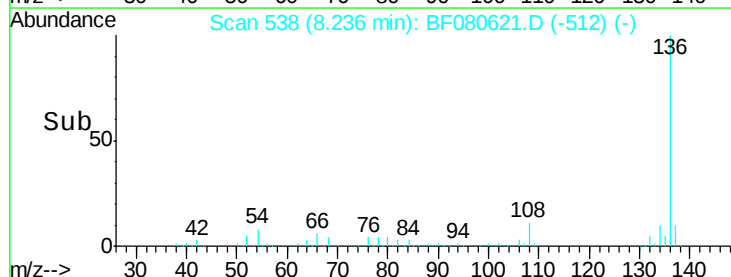
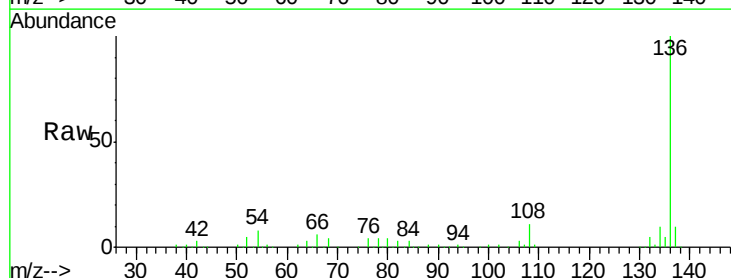
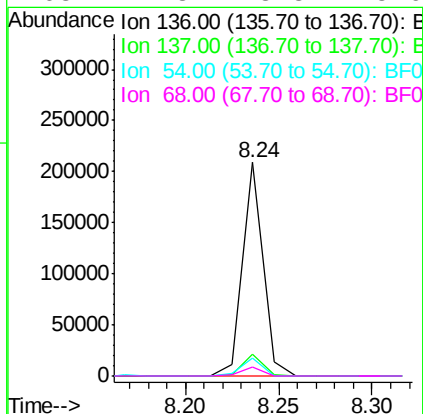
RT: 8.24 min Scan# 538

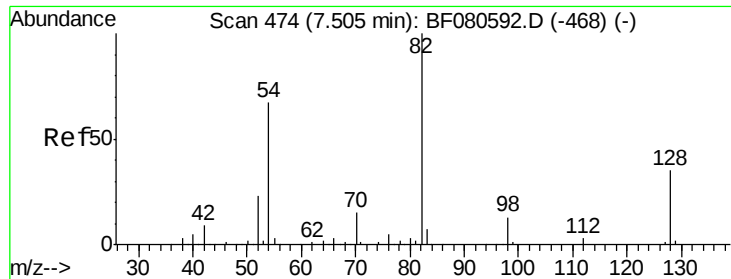
Delta R.T. 0.00 min

Lab File: BF080621.D

Acq: 24 Jul 2015 5:52

Tgt Ion:	136	Resp:	160556
Ion Ratio	Lower	Upper	
136	100		
137	10.1	7.8	11.8
54	8.5	7.2	10.8
68	4.3	3.8	5.6





#23

Nitrobenzene-d5

Concen: 15.20 ng

RT: 7.50 min Scan# 474

Delta R.T. 0.00 min

Lab File: BF080621.D

Acq: 24 Jul 2015 5:52

Instrument :

BNA_F

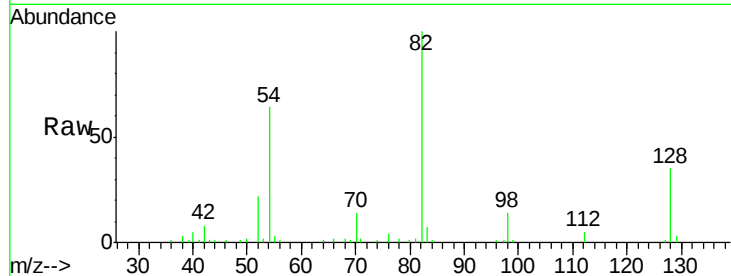
ClientSampleId :

FK-SF-03-003-B

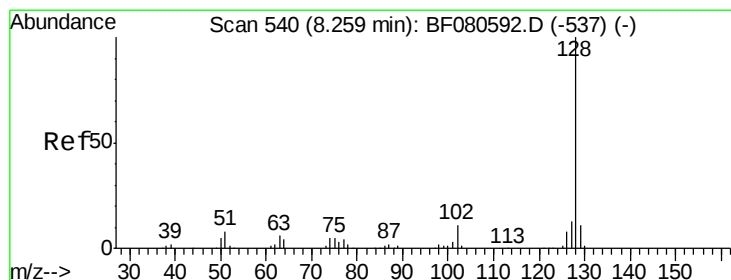
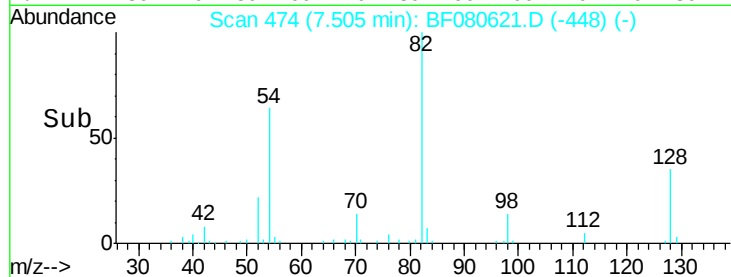
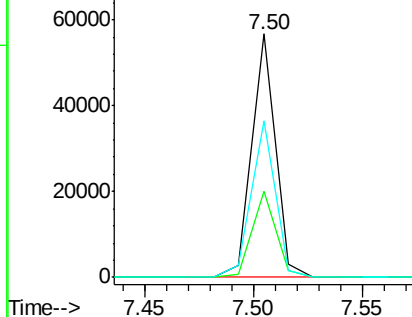
Tgt Ion:	82	Resp:	43082
Ion Ratio	Lower	Upper	
82	100		
128	35.3	28.9	43.3
54	64.1	54.5	81.7

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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



#31

Naphthalene

Concen: 2.75 ng

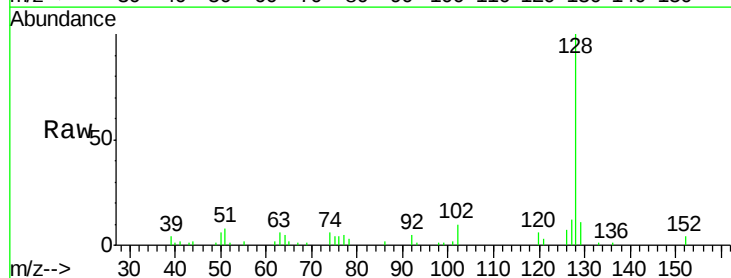
RT: 8.26 min Scan# 540

Delta R.T. 0.00 min

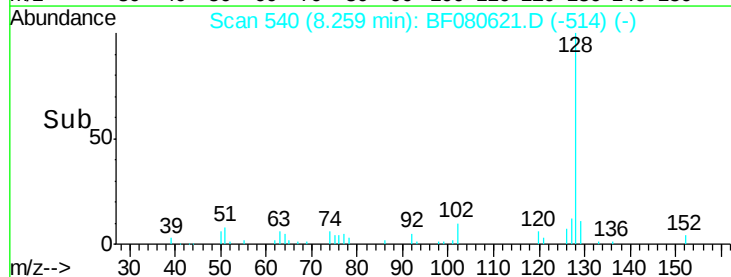
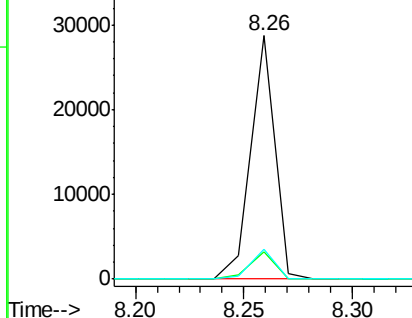
Lab File: BF080621.D

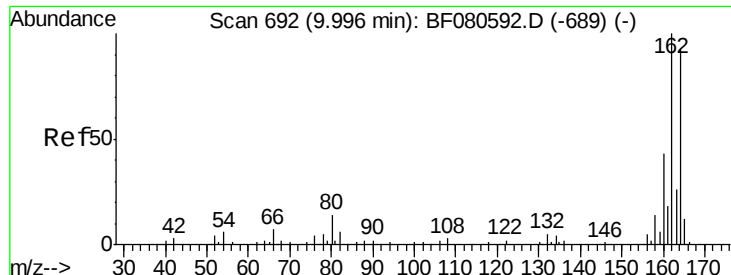
Acq: 24 Jul 2015 5:52

Tgt Ion:	128	Resp:	22080
Ion Ratio	Lower	Upper	
128	100		
129	11.4	8.6	13.0
127	12.4	10.7	16.1



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: 10.00 min Scan# 692

Delta R.T. 0.00 min

Lab File: BF080621.D

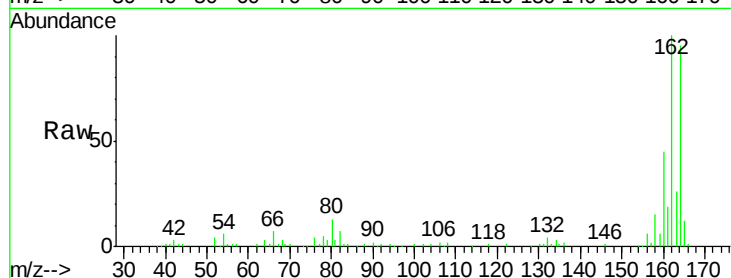
Acq: 24 Jul 2015 5:52

Instrument :

BNA_F

ClientSampleId :

FK-SF-03-003-B



Tgt Ion:164 Resp: 74981

Ion Ratio Lower Upper

164 100

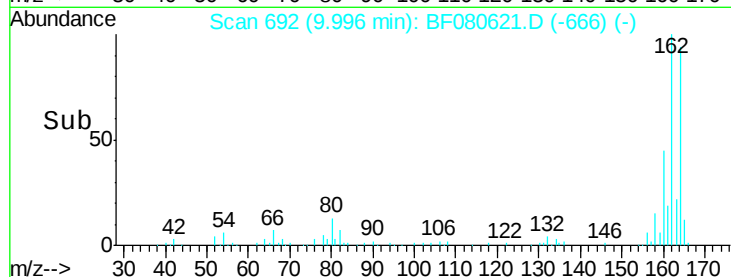
162 105.7 82.2 123.4

160 47.2 36.1 54.1

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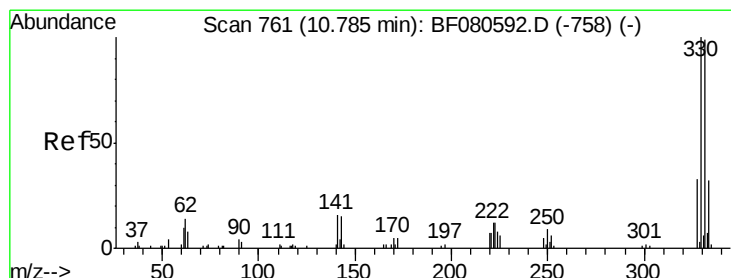
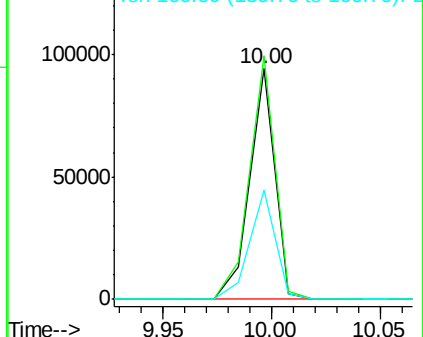
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Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 2.96 ng

RT: 10.78 min Scan# 761

Delta R.T. 0.01 min

Lab File: BF080621.D

Acq: 24 Jul 2015 5:52

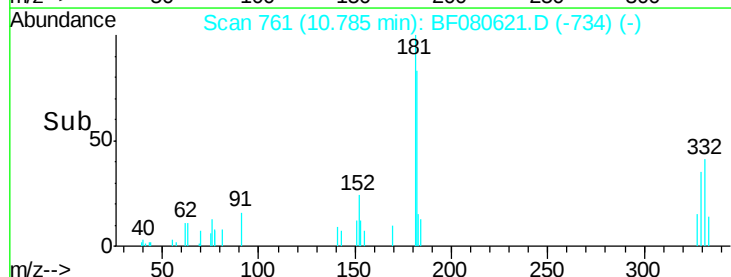
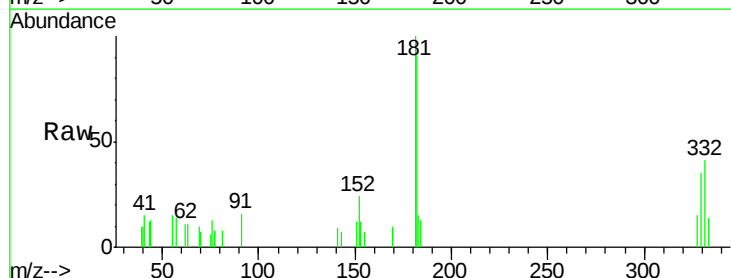
Tgt Ion:330 Resp: 1757

Ion Ratio Lower Upper

330 100

332 110.1 78.3 117.5

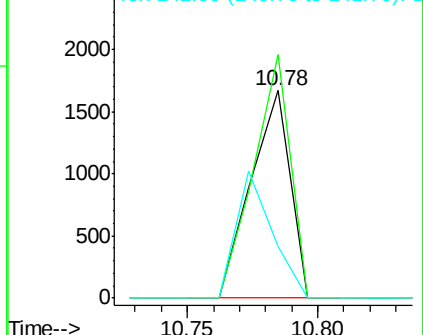
141 56.4 37.9 56.9

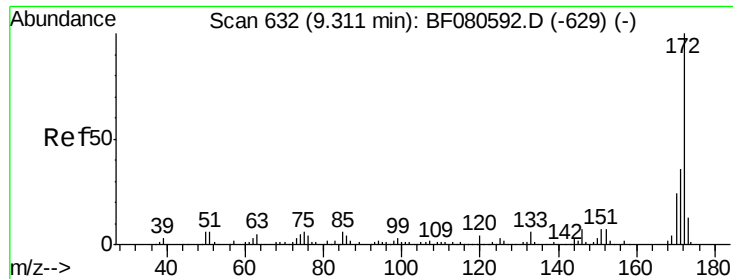


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





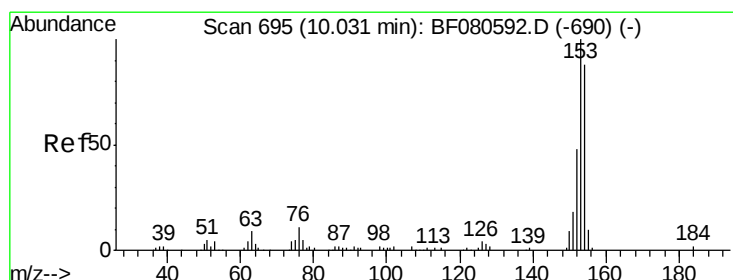
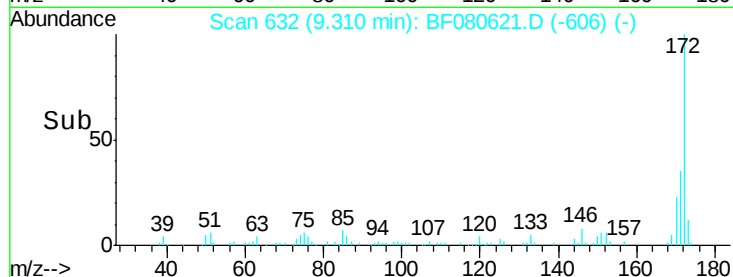
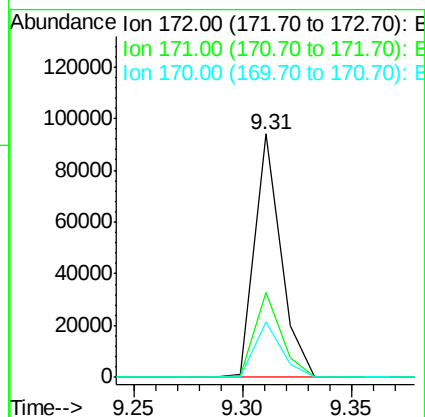
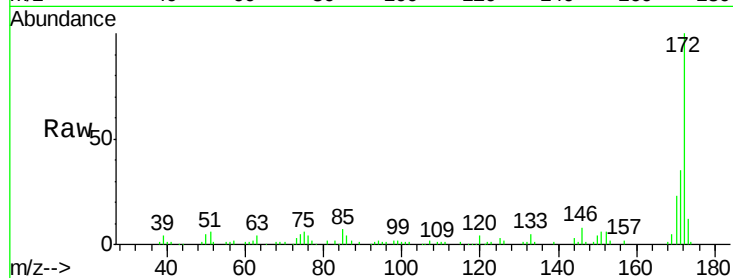
#44
2-Fluorobiphenyl
Concen: 15.31 ng
RT: 9.31 min Scan# 632
Delta R.T. 0.00 min
Lab File: BF080621.D
Acq: 24 Jul 2015 5:52

Instrument :
BNA_F
ClientSampleId :
FK-SF-03-003-B

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	79103		
171	35.0		27.7	41.5
170	23.0		19.1	28.7

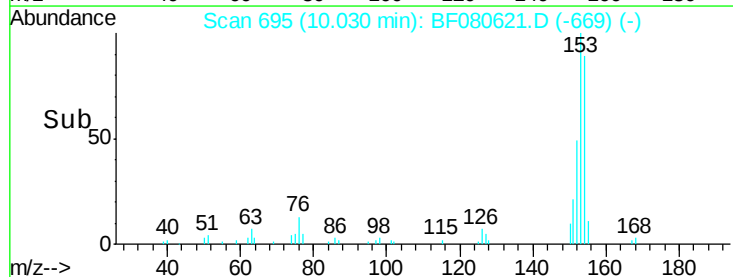
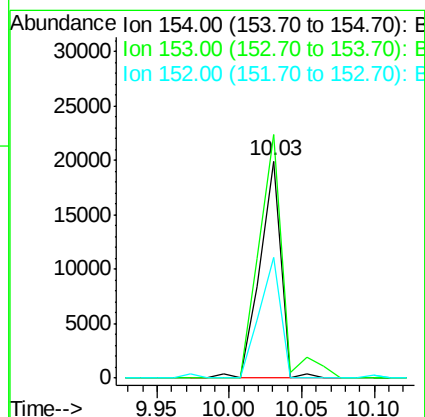
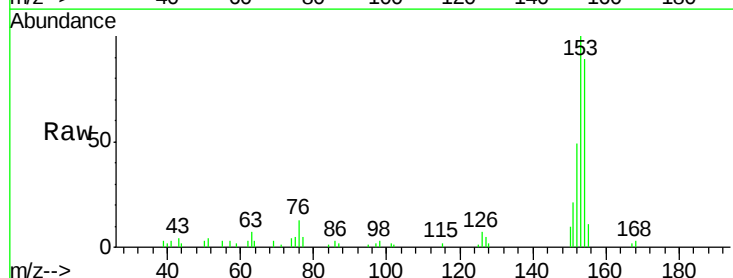
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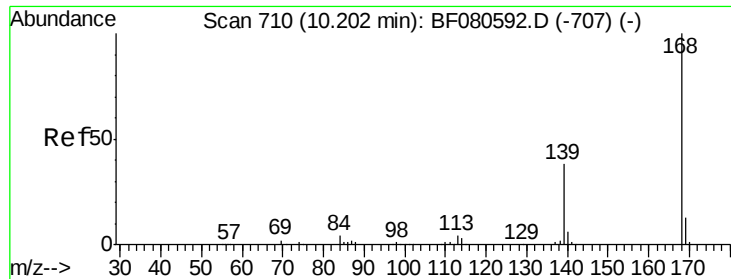
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#51
Acenaphthene
Concen: 4.55 ng
RT: 10.03 min Scan# 695
Delta R.T. 0.00 min
Lab File: BF080621.D
Acq: 24 Jul 2015 5:52

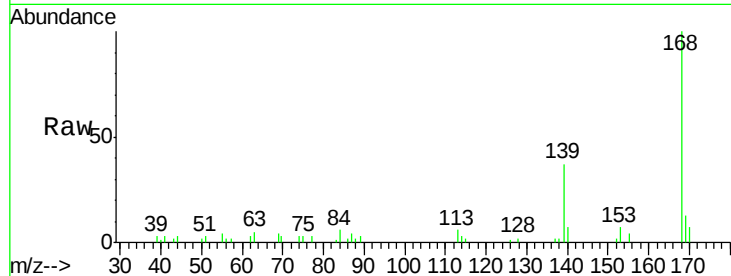
Tgt Ion	Ratio	Resp	Lower	Upper
154	100	19976		
153	112.0		92.2	138.2
152	55.4		43.6	65.4





#54
Dibenzenofuran
Concen: 3.27 ng
RT: 10.20 min Scan# 710
Delta R.T. 0.00 min
Lab File: BF080621.D
Acq: 24 Jul 2015 5:52

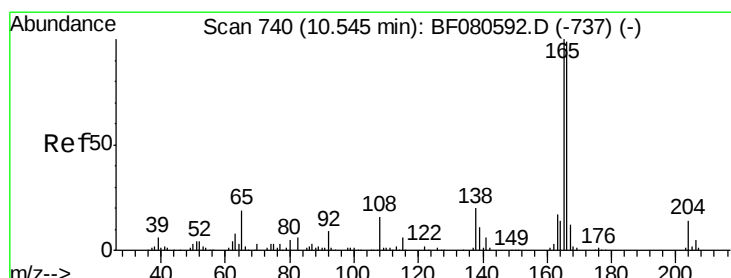
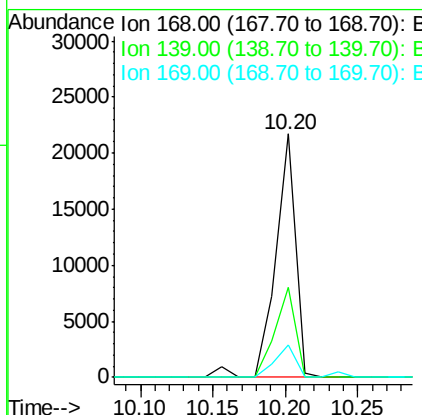
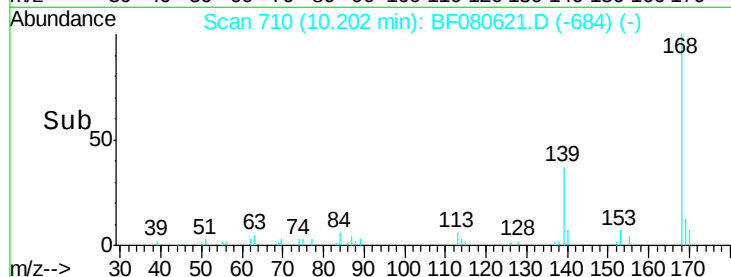
Instrument :
BNA_F
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Tgt Ion	Ratio	Lower	Upper
168	100		
139	36.7	30.7	46.1
169	13.4	9.8	14.8

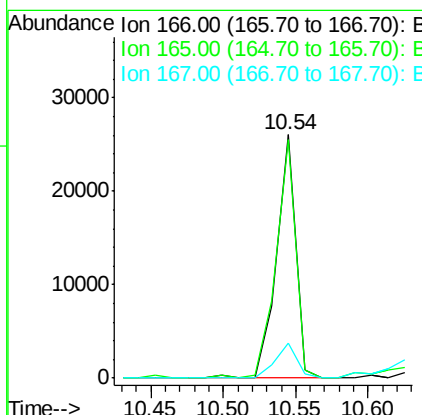
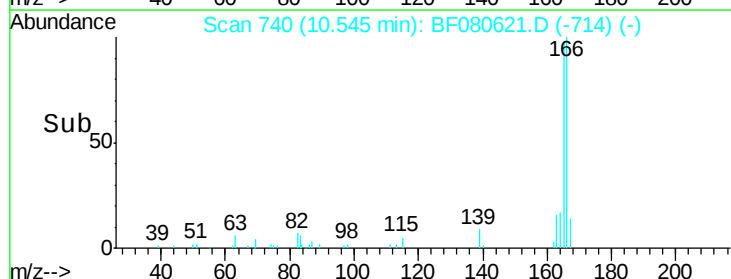
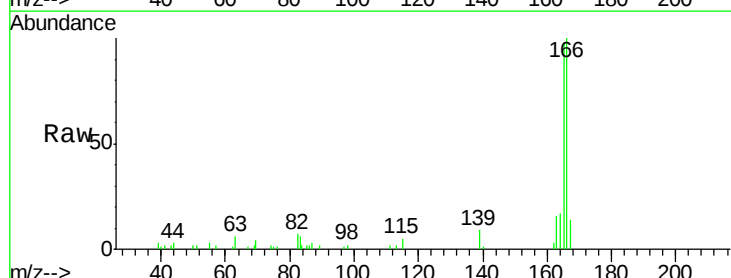
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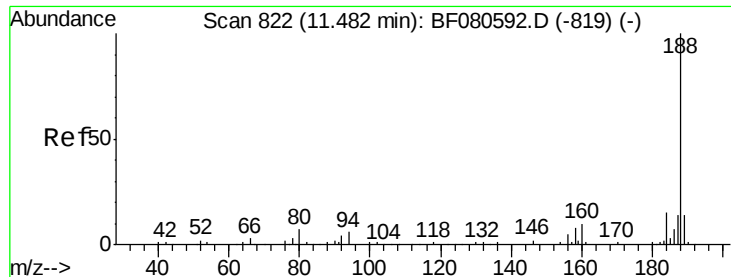
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#57
Fluorene
Concen: 4.70 ng
RT: 10.54 min Scan# 740
Delta R.T. 0.00 min
Lab File: BF080621.D
Acq: 24 Jul 2015 5:52

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.0	77.7	116.5
167	14.5	10.5	15.7





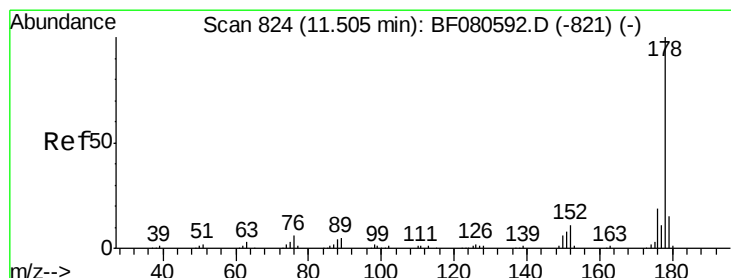
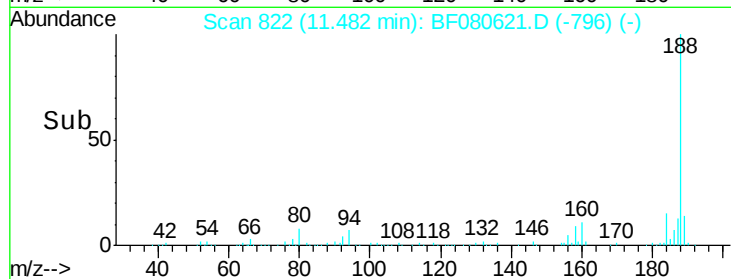
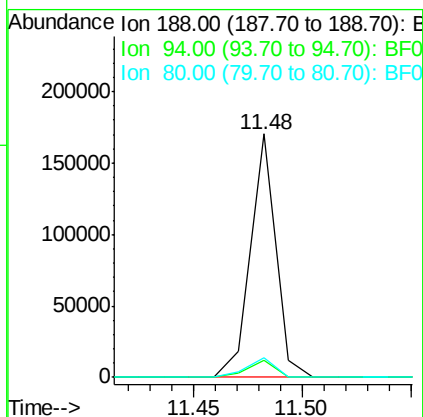
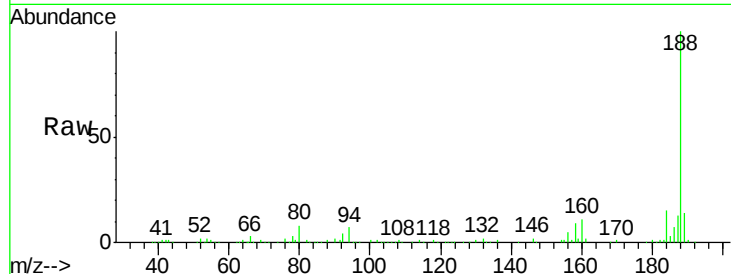
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.48 min Scan# 822
 Delta R.T. 0.00 min
 Lab File: BF080621.D
 Acq: 24 Jul 2015 5:52

Instrument :
 BNA_F
 ClientSampleId :
 FK-SF-03-003-B

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	7.1	6.1	9.1
80	8.0	7.0	10.6

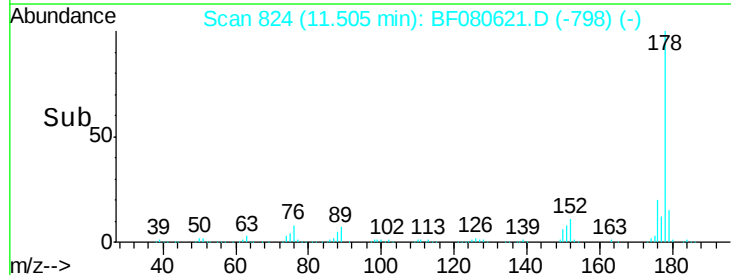
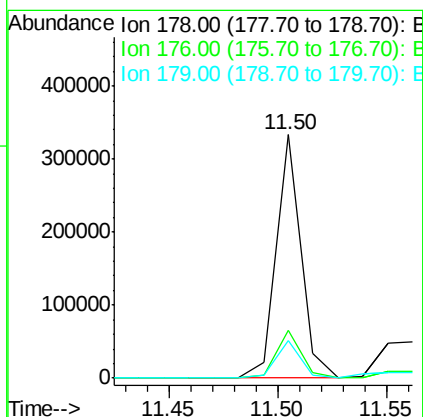
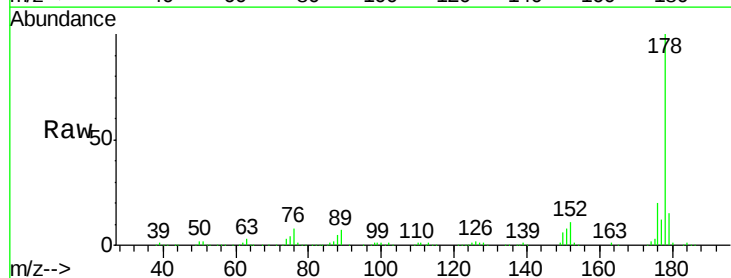
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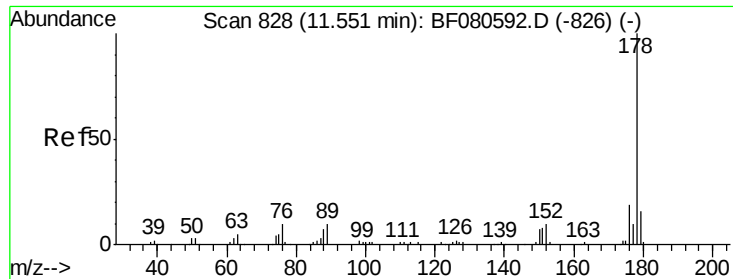
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#70
 Phenanthrene
 Concen: 34.18 ng
 RT: 11.50 min Scan# 824
 Delta R.T. 0.00 min
 Lab File: BF080621.D
 Acq: 24 Jul 2015 5:52

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.8	15.2	22.8
179	15.3	12.5	18.7





#71

Anthracene

Concen: 9.79 ng

RT: 11.56 min Scan# 829

Delta R.T. 0.01 min

Lab File: BF080621.D

Acq: 24 Jul 2015 5:52

Instrument :

BNA_F

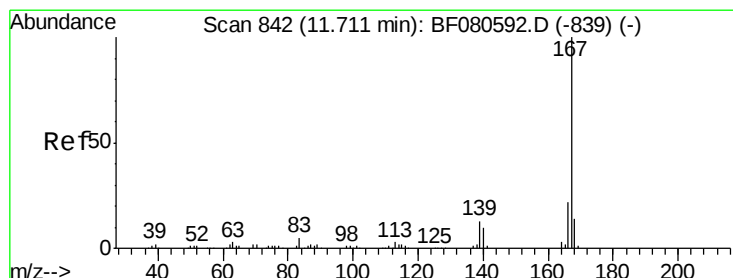
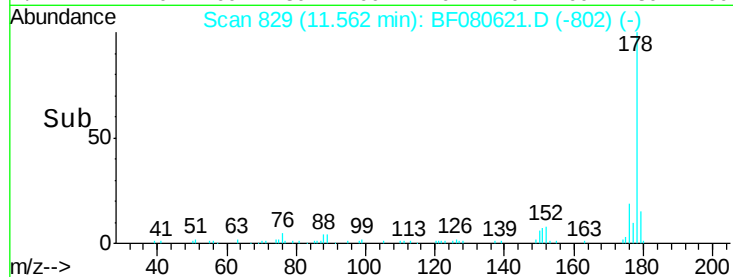
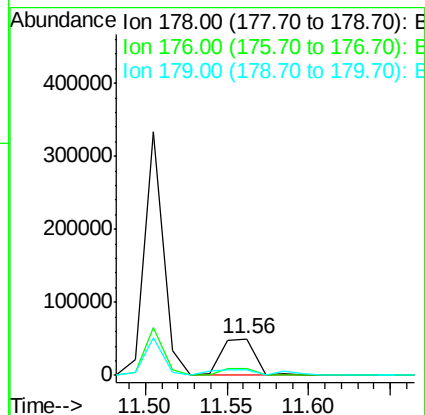
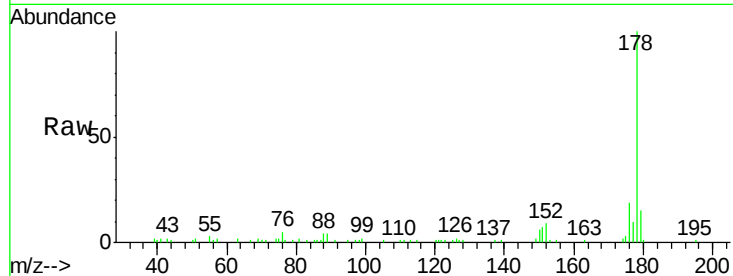
ClientSampleId :

FK-SF-03-003-B

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.1	22.7
179	14.7	12.0	18.0

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#72

Carbazole

Concen: 4.51 ng

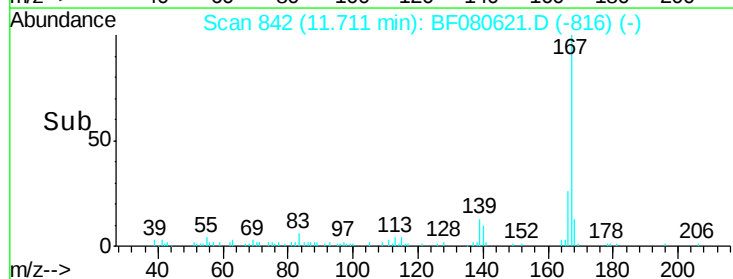
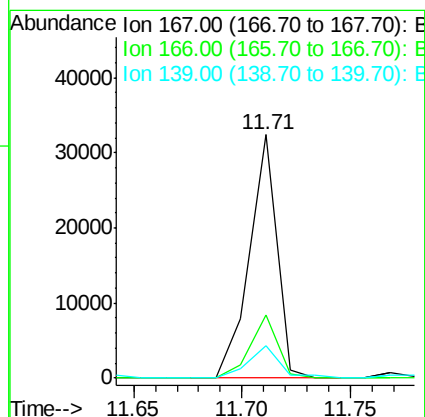
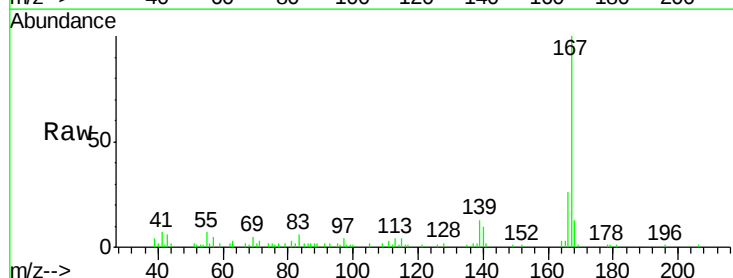
RT: 11.71 min Scan# 842

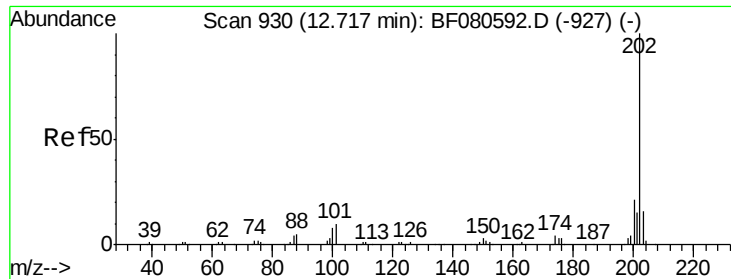
Delta R.T. 0.00 min

Lab File: BF080621.D

Acq: 24 Jul 2015 5:52

Tgt Ion	Ratio	Lower	Upper
167	100		
166	25.9	18.1	27.1
139	13.4	10.7	16.1





#74

Fluoranthene

Concen: 51.45 ng

RT: 12.71 min Scan# 929

Delta R.T. 0.01 min

Lab File: BF080621.D

Acq: 24 Jul 2015 5:52

Instrument :

BNA_F

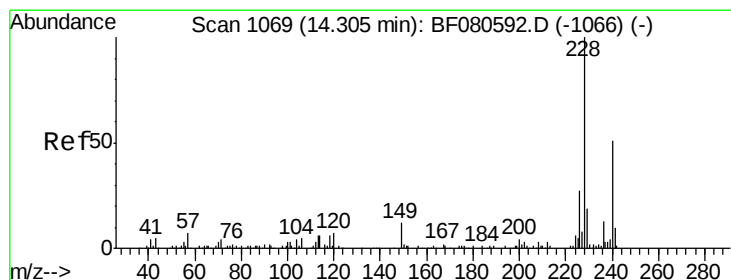
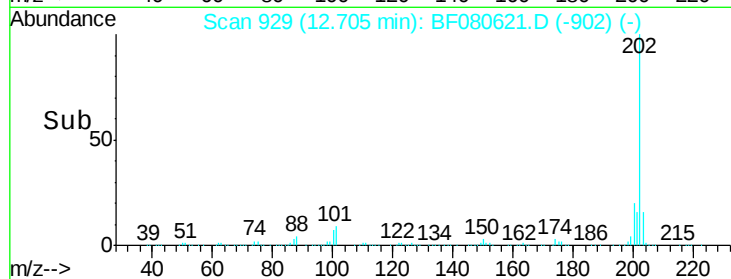
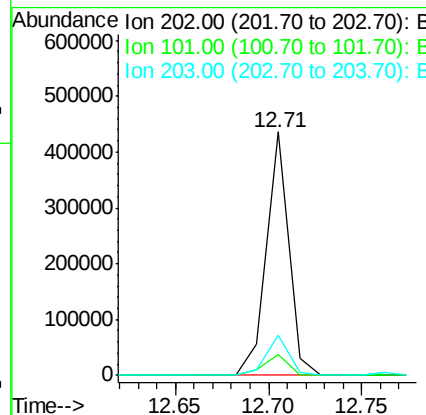
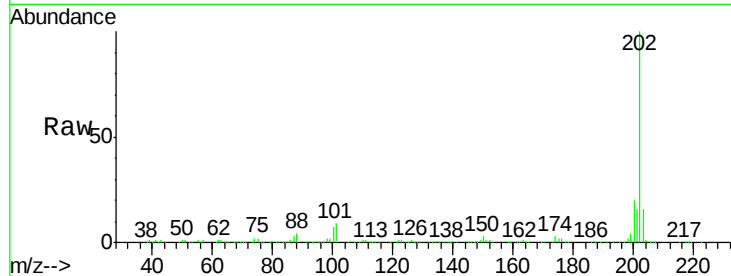
ClientSampleId :

FK-SF-03-003-B

Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		358587		
101	8.8	0.0	31.1		
203	16.4	0.0	37.5		

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#75

Chrysene-d12

Concen: 20.00 ng

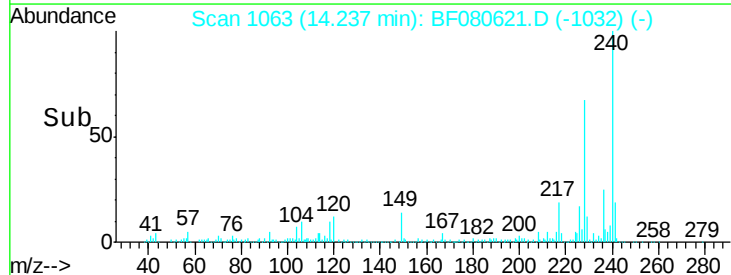
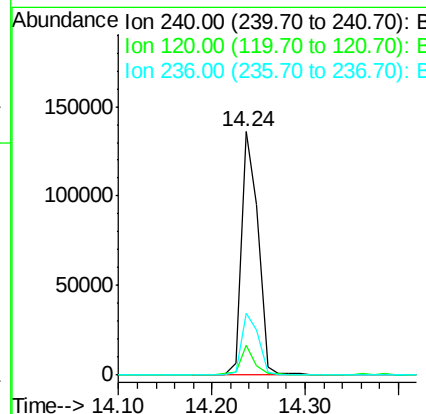
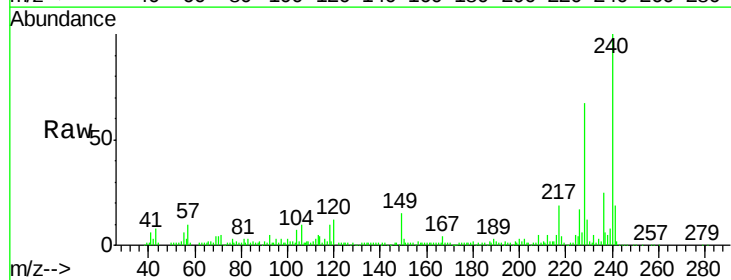
RT: 14.24 min Scan# 1063

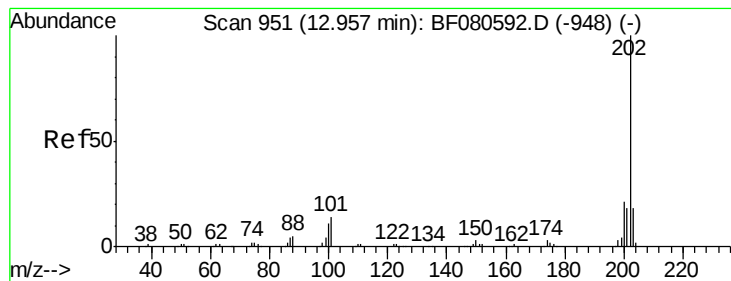
Delta R.T. 0.06 min

Lab File: BF080621.D

Acq: 24 Jul 2015 5:52

Tgt	Ion	Ratio	Resp	Lower	Upper
240	100		169128		
120	12.2	9.9	14.9		
236	25.4	19.1	28.7		





#77

Pyrene

Concen: 25.52 ng

RT: 12.95 min Scan# 950

Delta R.T. 0.02 min

Lab File: BF080621.D

Acq: 24 Jul 2015 5:52

Instrument :

BNA_F

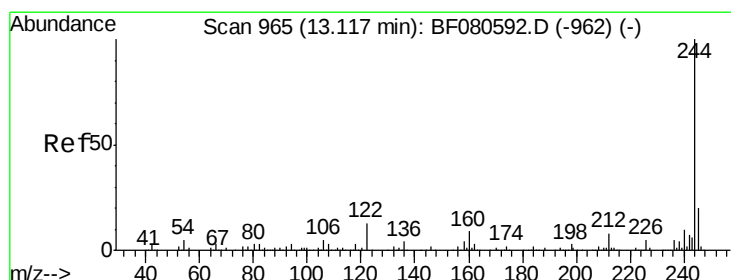
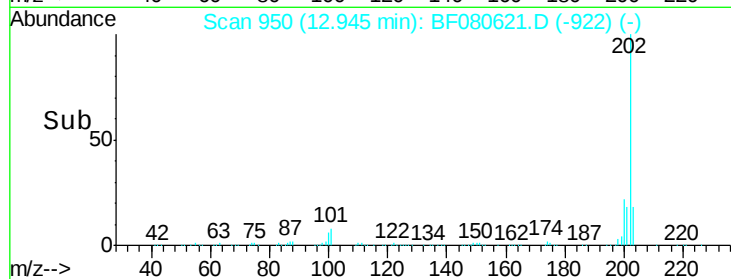
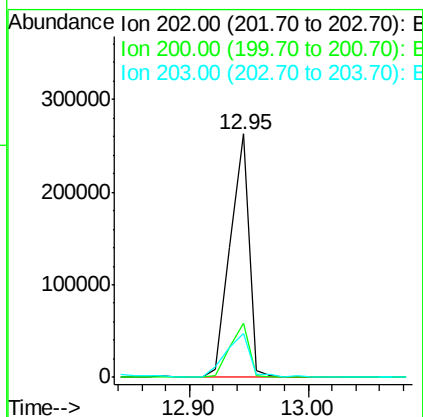
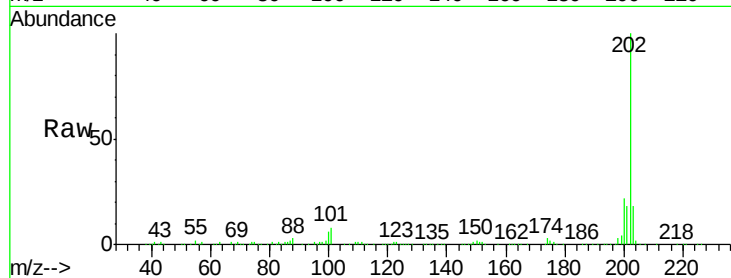
ClientSampleId :

FK-SF-03-003-B

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	289541		
200	22.1	16.9	25.3	
203	18.0	14.5	21.7	

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#78

Terphenyl-d14

Concen: 10.44 ng

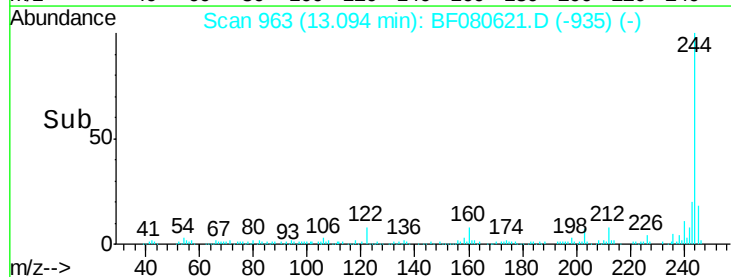
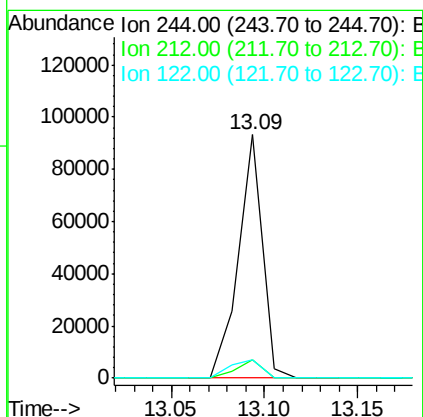
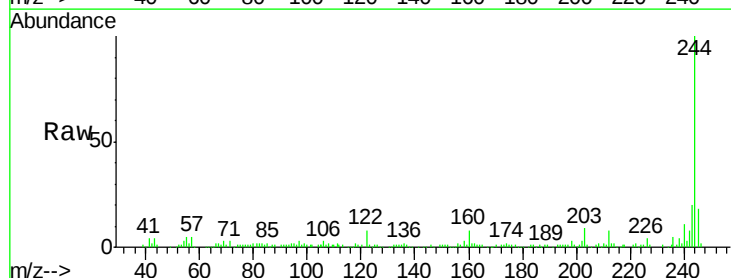
RT: 13.09 min Scan# 963

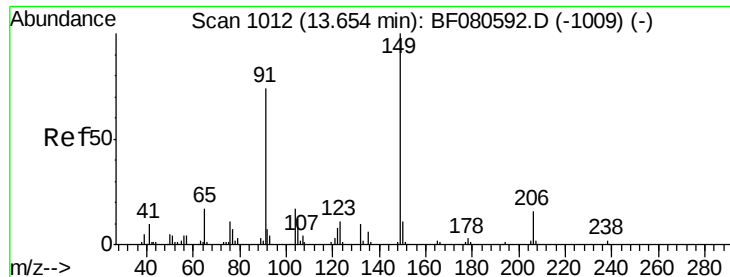
Delta R.T. 0.02 min

Lab File: BF080621.D

Acq: 24 Jul 2015 5:52

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	84373		
212	7.8	6.0	9.0	
122	7.5	8.2	12.2	





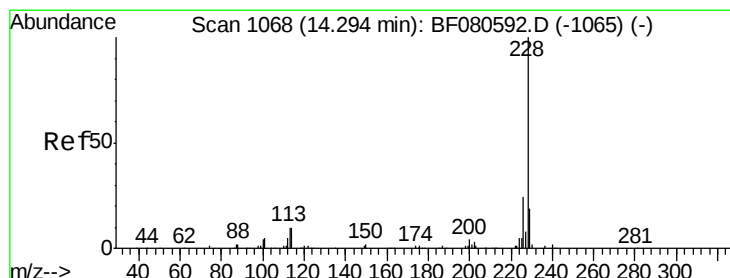
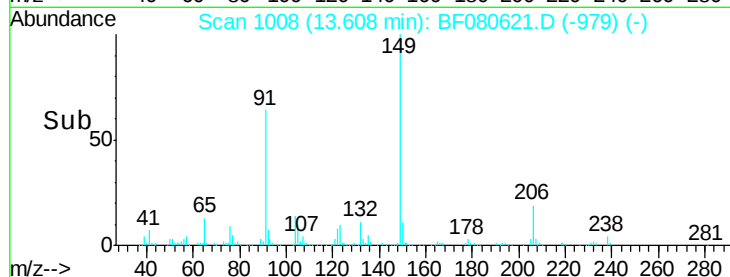
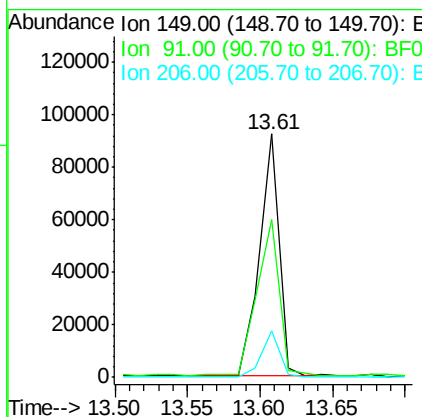
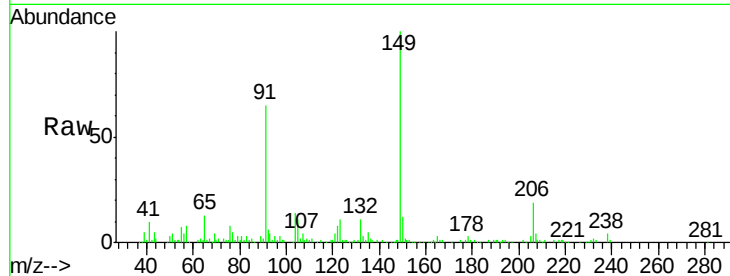
#79
Butylbenzylphthalate
Concen: 24.39 ng
RT: 13.61 min Scan# 1008
Delta R.T. 0.03 min
Lab File: BF080621.D
Acq: 24 Jul 2015 5:52

Instrument :
BNA_F
ClientSampleId :
FK-SF-03-003-B

Tgt Ion	Ratio	Lower	Upper
149	100		
91	65.0	53.0	79.6
206	19.1	15.0	22.6

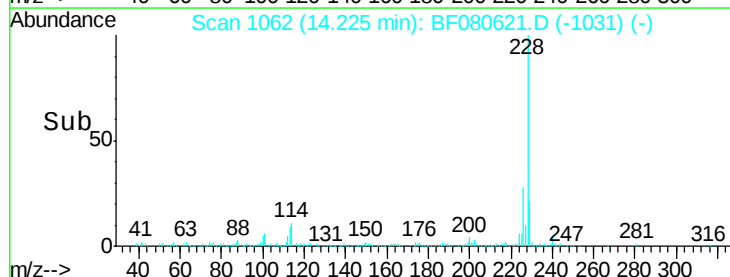
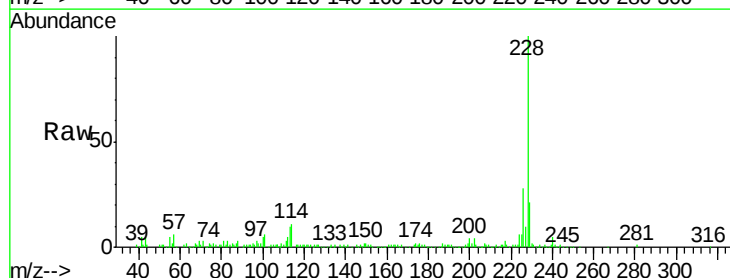
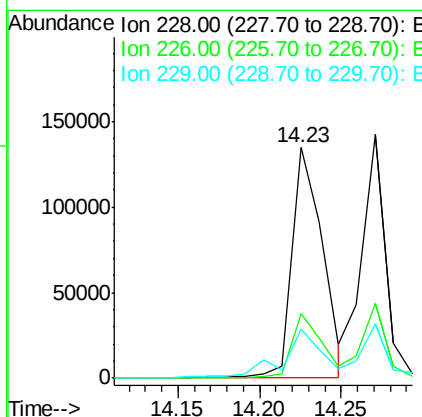
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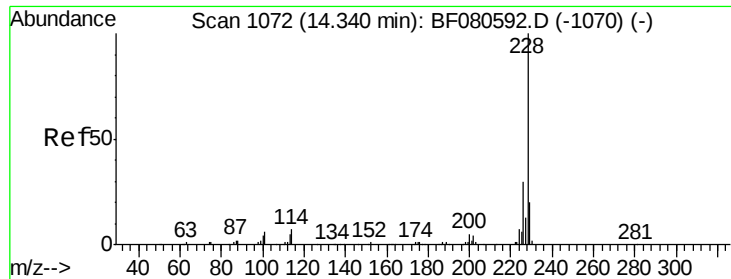
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#80
Benzo(a)anthracene
Concen: 18.58 ng
RT: 14.23 min Scan# 1062
Delta R.T. 0.06 min
Lab File: BF080621.D
Acq: 24 Jul 2015 5:52

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.0	33.0
229	21.0	15.7	23.5





#82

Chrysene

Concen: 15.09 ng

RT: 14.27 min Scan# 1066

Delta R.T. 0.06 min

Lab File: BF080621.D

Acq: 24 Jul 2015 5:52

Instrument :

BNA_F

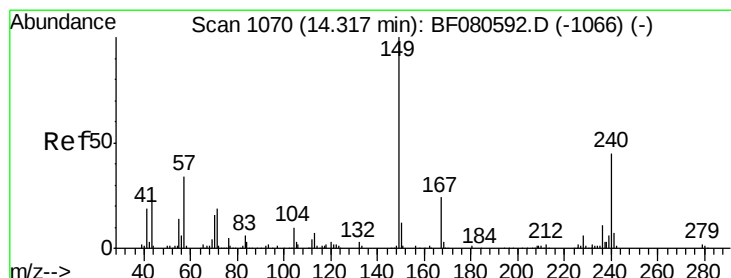
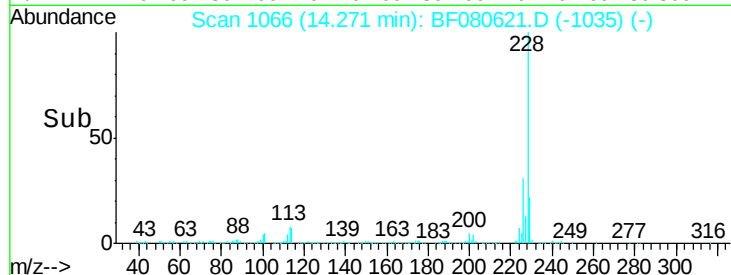
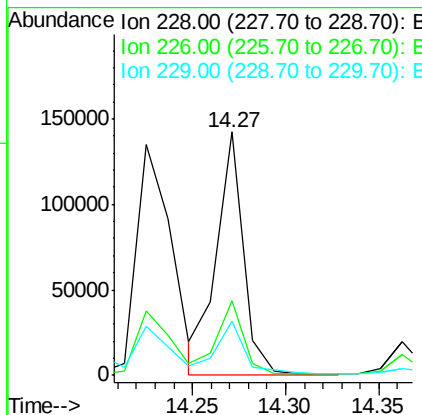
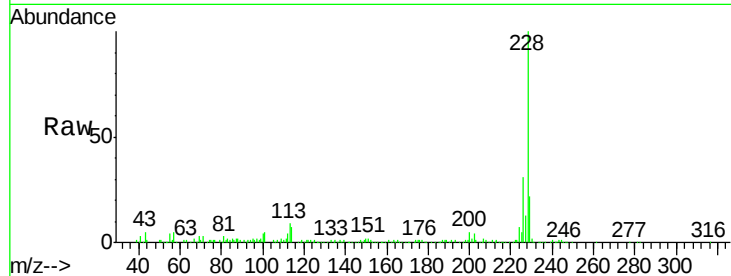
ClientSampleId :

FK-SF-03-003-B

Tgt Ion:	228	Resp:	143172
Ion Ratio		Lower	Upper
228	100		
226	30.7	23.0	34.6
229	22.0	15.0	22.4

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#83

Bis(2-ethylhexyl)phthalate

Concen: 3.80 ng

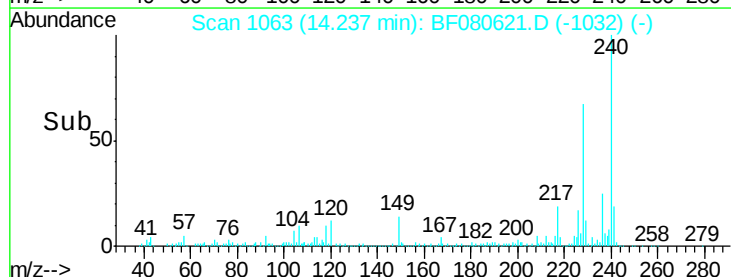
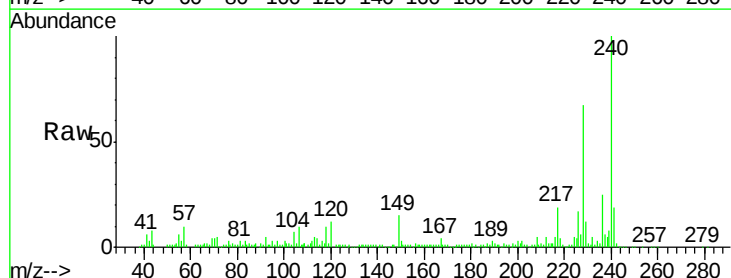
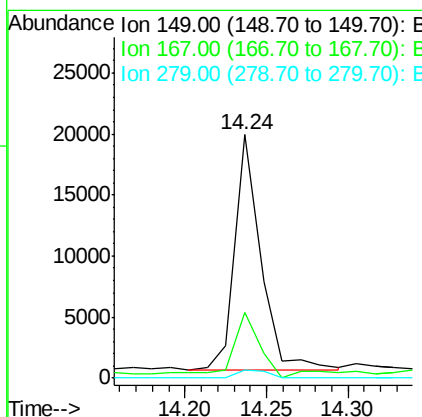
RT: 14.24 min Scan# 1063

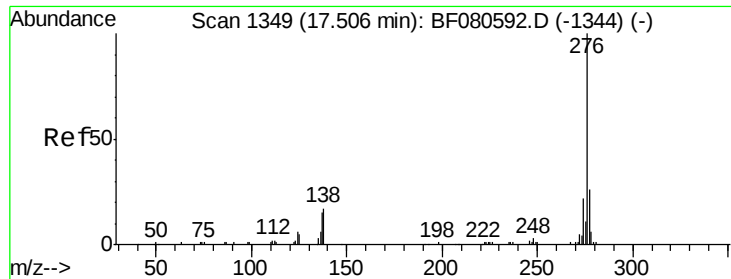
Delta R.T. 0.06 min

Lab File: BF080621.D

Acq: 24 Jul 2015 5:52

Tgt Ion:	149	Resp:	21080
Ion Ratio		Lower	Upper
149	100		
167	26.8	20.2	30.2
279	3.4	2.0	3.0#





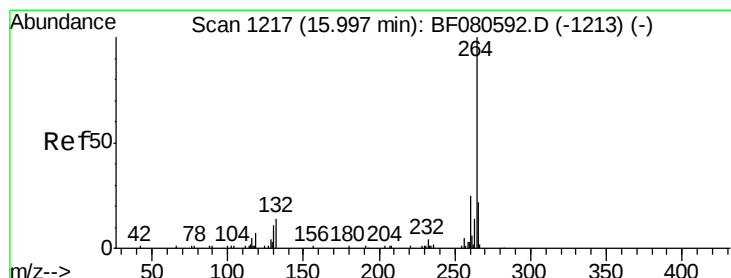
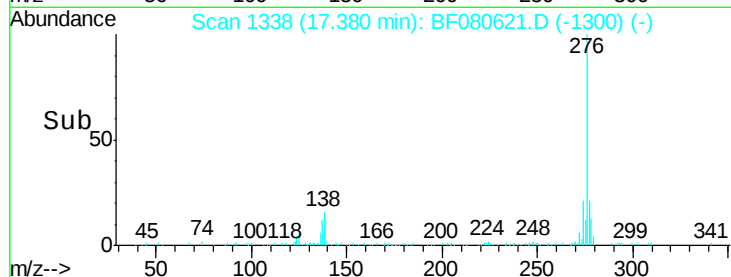
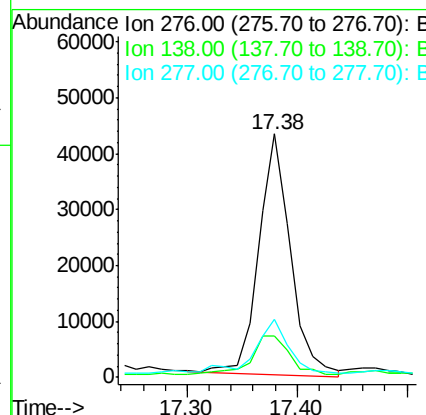
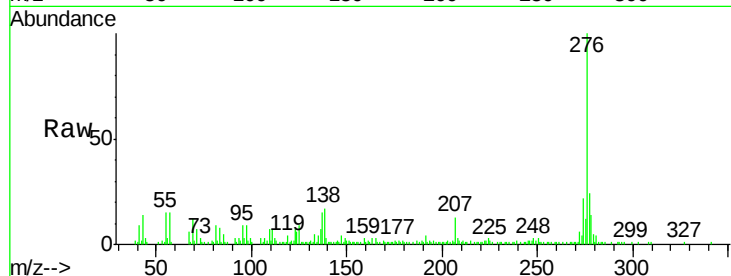
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 12.08 ng m
 RT: 17.38 min Scan# 1338
 Delta R.T. 0.14 min
 Lab File: BF080621.D
 Acq: 24 Jul 2015 5:52

Instrument :
 BNA_F
 ClientSampleId :
 FK-SF-03-003-B

Tgt Ion	Ratio	Lower	Upper
276	100		
138	5.1	18.9	28.3#
277	7.4	19.9	29.9#

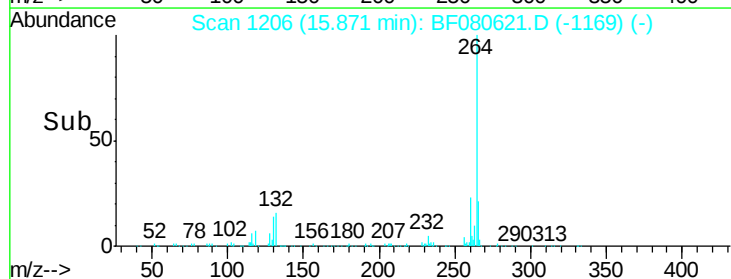
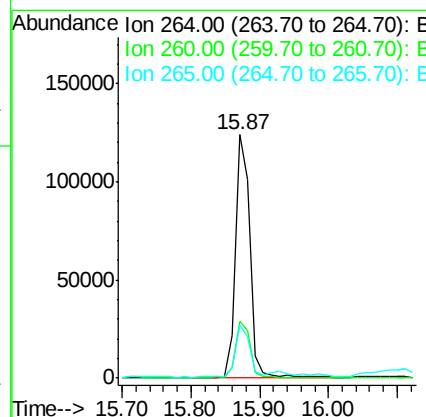
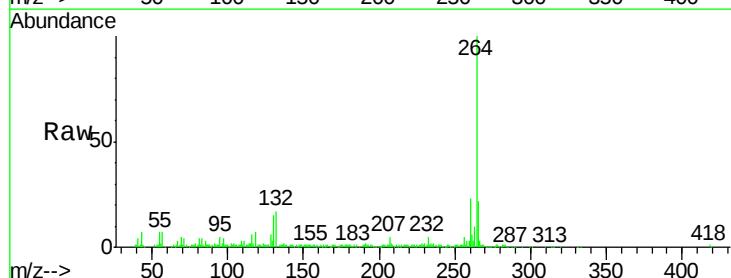
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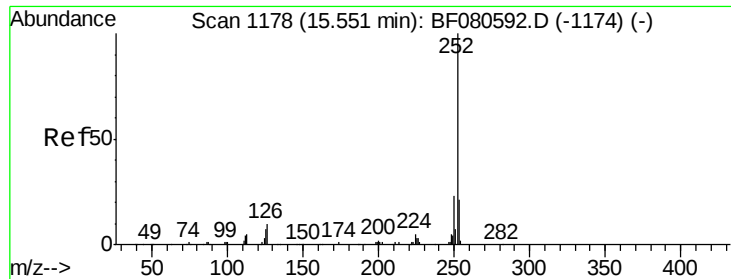
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.87 min Scan# 1206
 Delta R.T. 0.13 min
 Lab File: BF080621.D
 Acq: 24 Jul 2015 5:52

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.0	17.8	26.8
265	21.5	15.6	23.4





#87

Benzo(b)fluoranthene

Concen: 16.25 ng m

RT: 15.44 min Scan# 1168

Delta R.T. 0.13 min

Lab File: BF080621.D

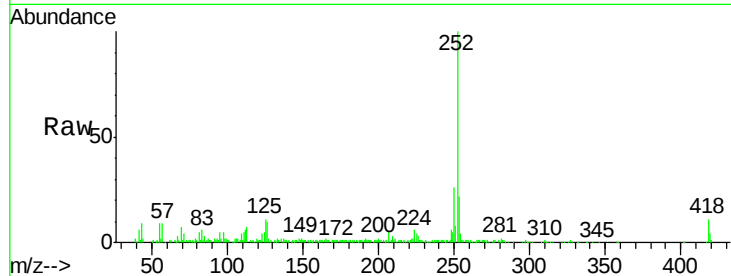
Acq: 24 Jul 2015 5:52

Instrument :

BNA_F

ClientSampleId :

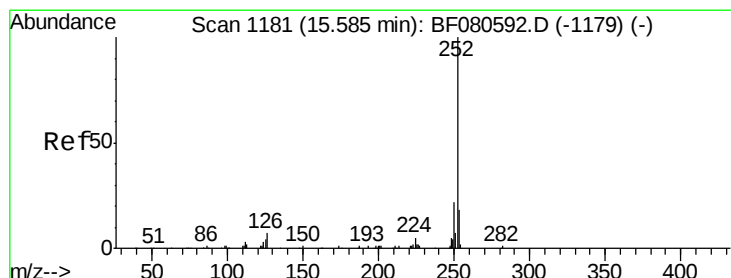
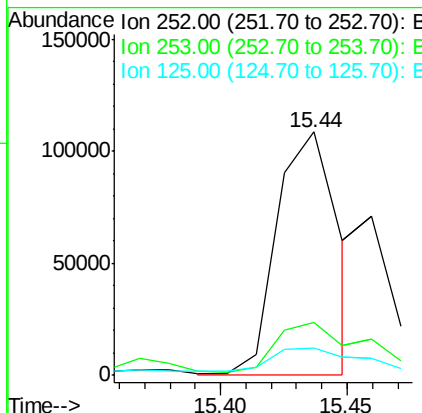
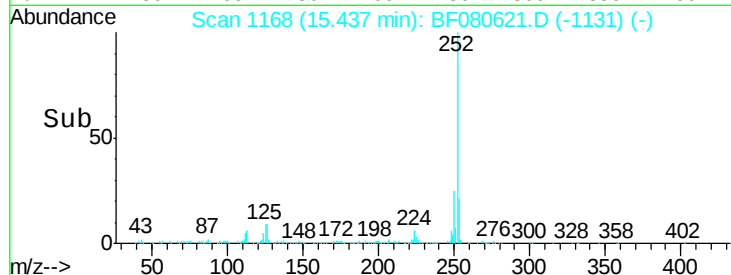
FK-SF-03-003-B



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	16.6	25.0
125	11.0	6.1	9.1

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#88

Benzo(k)fluoranthene

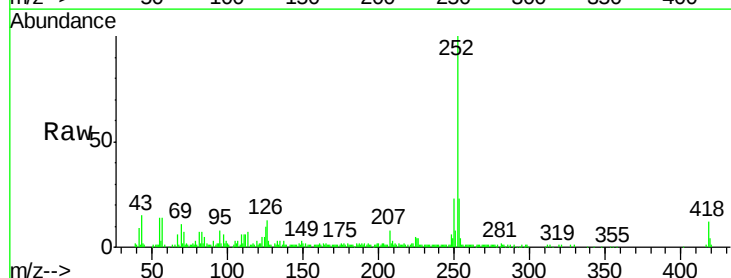
Concen: 5.94 ng m

RT: 15.46 min Scan# 1170

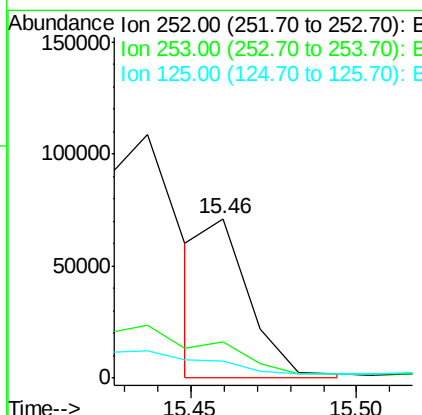
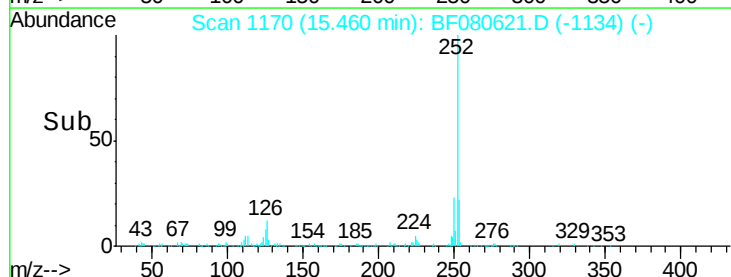
Delta R.T. 0.11 min

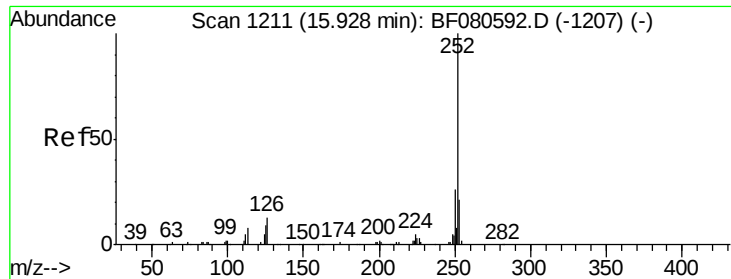
Lab File: BF080621.D

Acq: 24 Jul 2015 5:52



Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.0	25.6
125	10.4	8.6	13.0





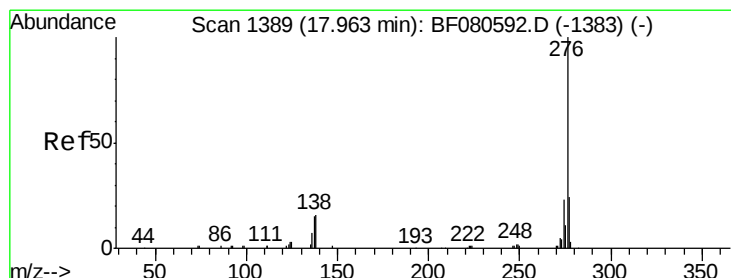
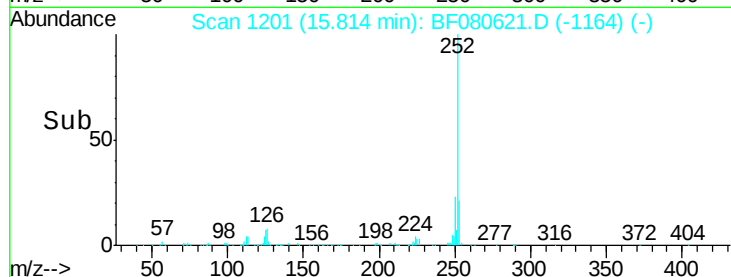
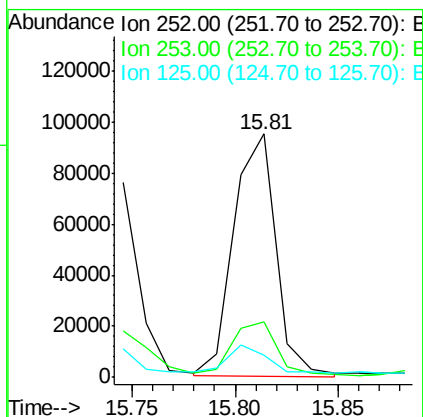
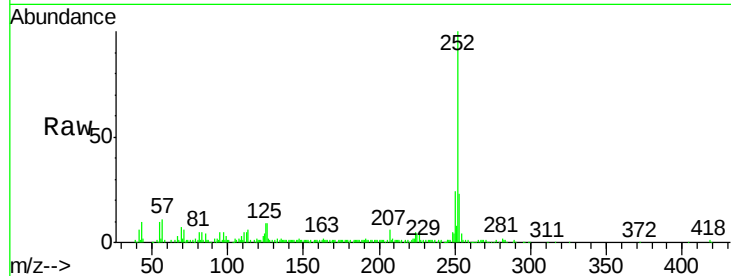
#89
Benzo(a)pyrene
Concen: 13.56 ng m
RT: 15.81 min Scan# 1201
Delta R.T. 0.13 min
Lab File: BF080621.D
Acq: 24 Jul 2015 5:52

Instrument :
BNA_F
ClientSampleId :
FK-SF-03-003-B

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	22.9	19.0	28.6
125	8.9	11.2	16.8

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#91
Benzo(g,h,i)perylene
Concen: 8.17 ng
RT: 17.83 min Scan# 1377
Delta R.T. 0.15 min
Lab File: BF080621.D
Acq: 24 Jul 2015 5:52

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
277	27.2	18.0	27.0
138	17.9	17.8	26.6

