

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060515\
 Data File : BF079752.D
 Acq On : 6 Jun 2015 3:33
 Operator : TP/IZ
 Sample : G2464-09 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FD-1-20150603

Manual Integrations
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 6/9/2015 8:10:28 AM

Quant Time: Jun 09 11:29:24 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 08 15:29:07 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.48	152	54587	20.00	ng	-0.01
21) Naphthalene-d8	8.79	136	220817	20.00	ng	0.00
38) Acenaphthene-d10	10.56	164	126331	20.00	ng	0.00
63) Phenanthrene-d10	12.08	188	222855	20.00	ng	0.01
75) Chrysene-d12	14.98	240	245011	20.00	ng	0.05
86) Perylene-d12	16.90	264	249640	20.00	ng	0.08

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	6.10	112	72140	22.15	ng	0.00
7) Phenol-d6	7.07	99	90571	21.53	ng	-0.01
23) Nitrobenzene-d5	8.04	82	47794	13.29	ng	0.00
41) 2,4,6-Tribromophenol	11.36	330	19795	16.38	ng	0.00
44) 2-Fluorobiphenyl	9.86	172	110901	11.89	ng	0.00
78) Terphenyl-d14	13.74	244	138480	12.94	ng	0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.82	128	6001929	518.09	ng	# 86
37) 2-Methylnaphthalene	9.51	142	2514468	341.43	ng	# 96
45) 1,1'-Biphenyl	9.96	154	669659	60.93	ng	96
48) Acenaphthylene	10.42	152	1905546	128.45	ng	# 94
49) Dimethylphthalate	10.24	163	35692	3.67	ng	# 82
51) Acenaphthene	10.59	154	696669	82.92	ng	98
54) Dibenzofuran	10.77	168	772547	64.92	ng	92
57) Fluorene	11.12	166	1726642	167.66	ng	99
70) Phenanthrene	12.11	178	5297898m	406.04	ng	
71) Anthracene	12.16	178	2269925	176.42	ng	94
72) Carbazole	12.30	167	260149	21.28	ng	97
74) Fluoranthene	13.35	202	3423112	239.61	ng	93
77) Pvrene	13.61	202	3891841m	259.09	ng	
80) Benzo(a)anthracene	14.97	228	2133737m	142.26	ng	
82) Chrysene	15.02	228	1563104	112.74	ng	96
85) Indeno(1,2,3-cd)pyrene	18.90	276	675789	42.11	ng	96
87) Benzo(b)fluoranthene	16.34	252	1561764m	100.71	ng	
88) Benzo(k)fluoranthene	16.37	252	661559m	44.48	ng	
89) Benzo(a)pvrene	16.83	252	1611654	112.58	ng	97
90) Dibenzo(a,h)anthracene	18.91	278	194032	14.04	ng	93
91) Benzo(g,h,i)perylene	19.52	276	676224	47.34	ng	99

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

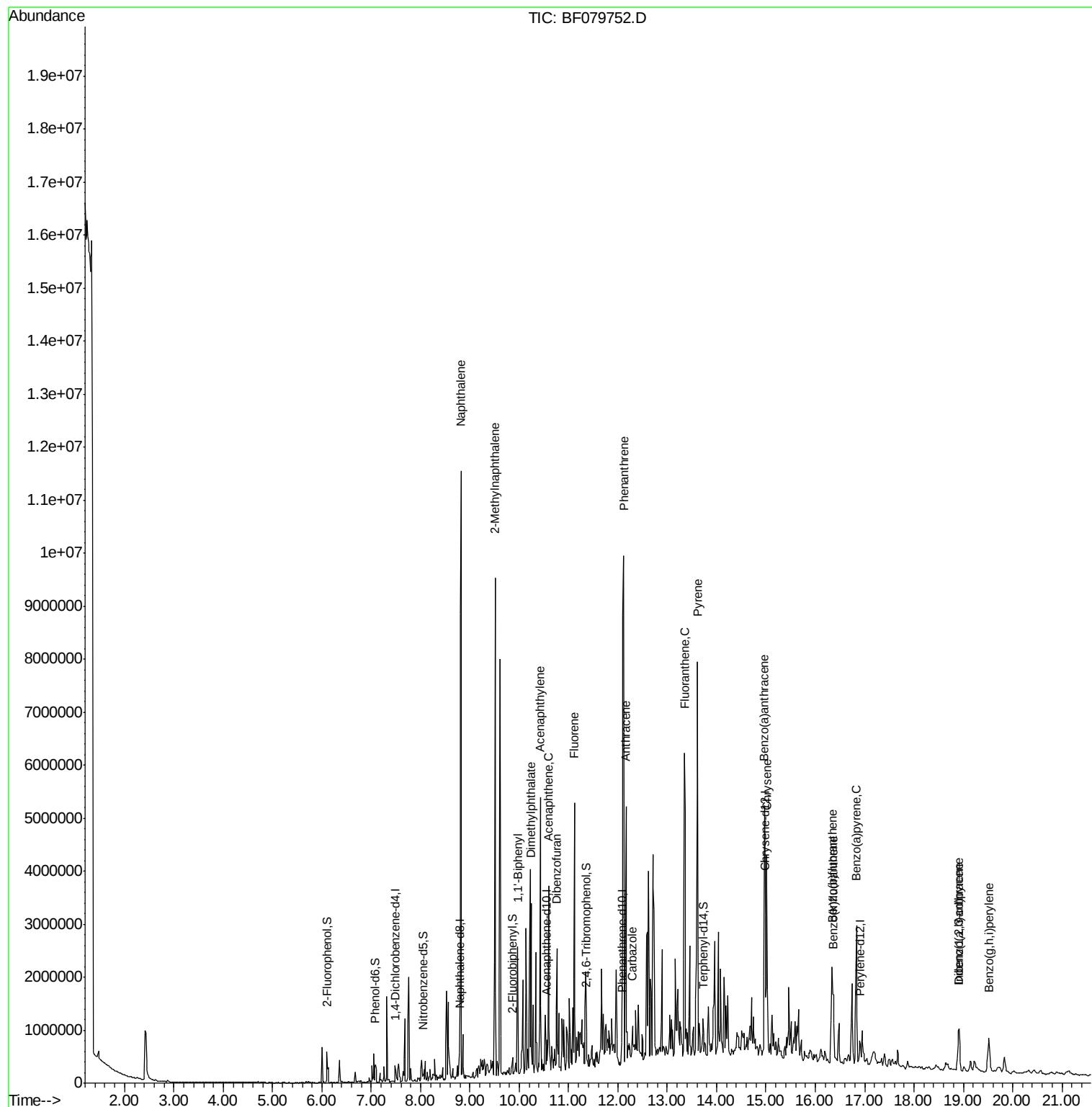
Data Path : Z:\HPCHEM1\BNA F\DATA\BF060515\
Data File : BF079752.D
Acq On : 6 Jun 2015 3:33
Operator : TP/IZ
Sample : G2464-09 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

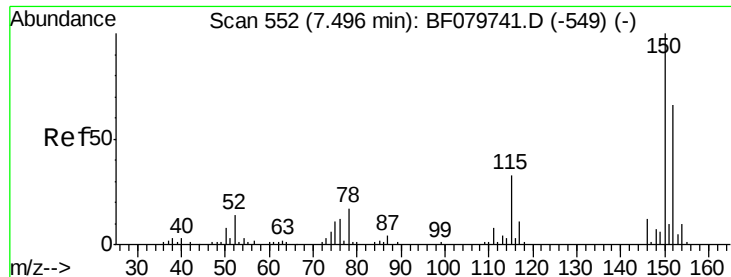
Instrument :
BNA_F
ClientSampleId :
FD-1-20150603

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Quant Time: Jun 09 11:29:24 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 08 15:29:07 2015
Response via : Initial Calibration





#1

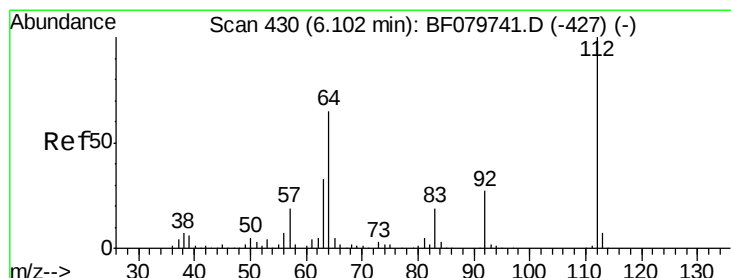
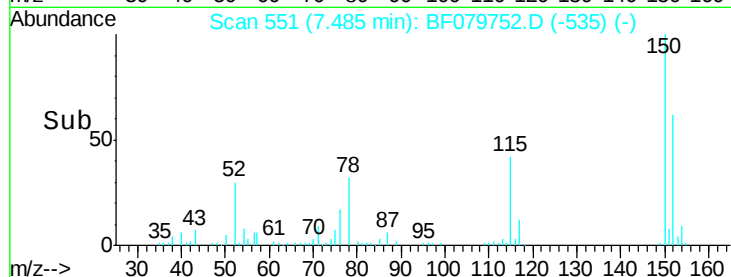
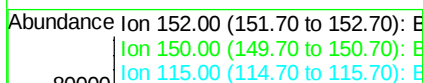
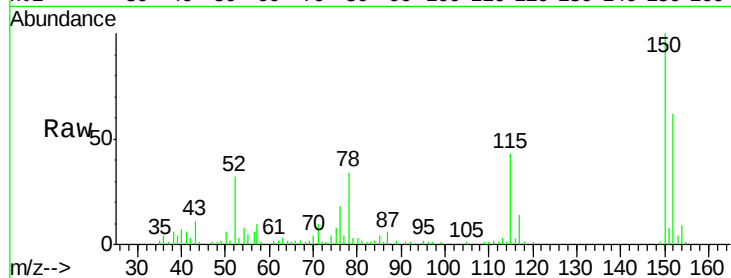
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.48 min Scan# 551
Delta R.T. -0.01 min
Lab File: BF079752.D
Acq: 6 Jun 2015 3:33

Instrument :
BNA_F
ClientSampleId :
FD-1-20150603

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.5	128.1	192.1
115	70.7	49.7	74.5

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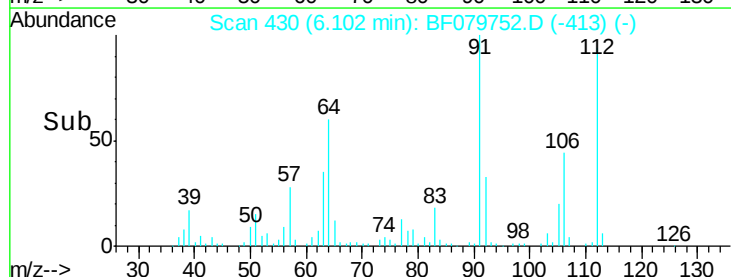
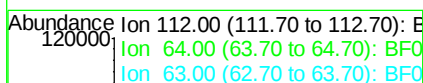
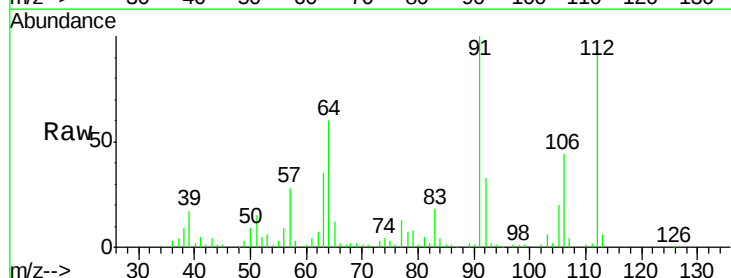
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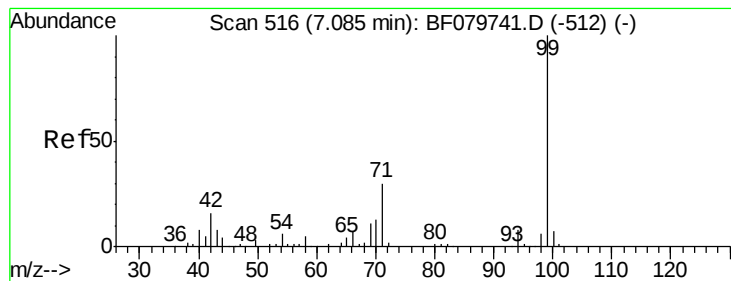


#5

2-Fluorophenol
Concen: 22.15 ng
RT: 6.10 min Scan# 430
Delta R.T. 0.00 min
Lab File: BF079752.D
Acq: 6 Jun 2015 3:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.5	49.6	74.4
63	37.7	24.9	37.3





#7

Phenol-d6

Concen: 21.53 ng

RT: 7.07 min Scan# 515

Delta R.T. -0.01 min

Lab File: BF079752.D

Acq: 6 Jun 2015 3:33

Instrument :

BNA_F

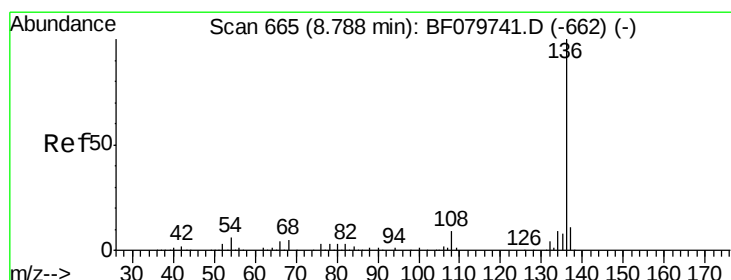
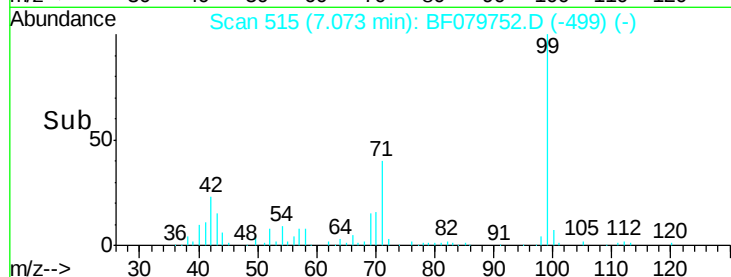
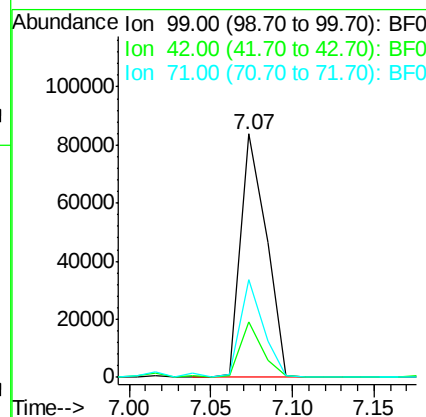
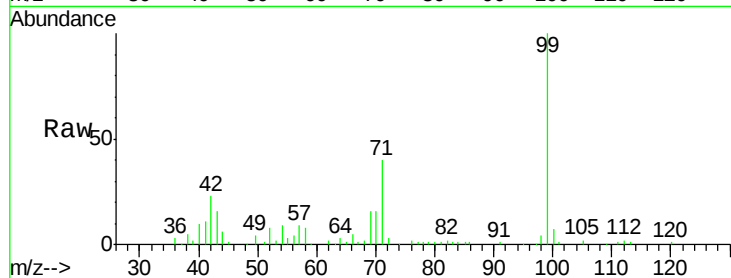
ClientSampleId :

FD-1-20150603

Tot Ion:	99	Resp:	90571
Ion Ratio	Lower	Upper	
99	100		
42	22.6	18.0	27.0
71	39.9	28.4	42.6

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#21

Naphthalene-d8

Concen: 20.00 ng

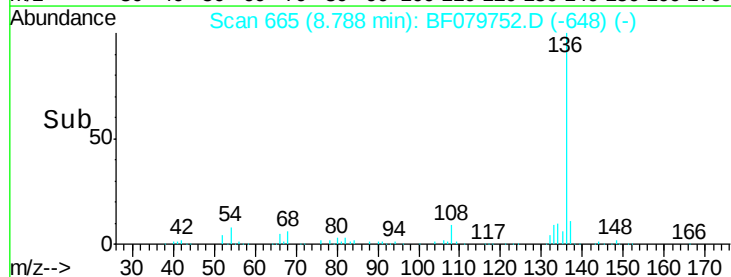
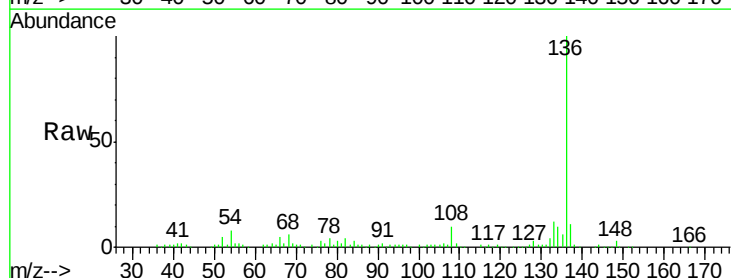
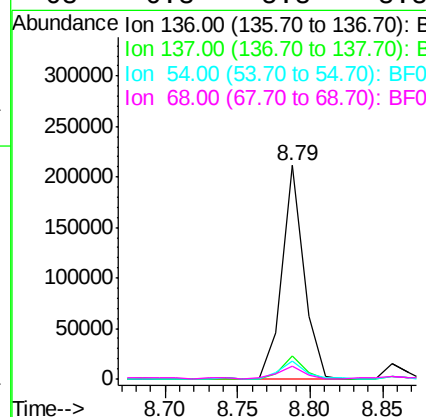
RT: 8.79 min Scan# 665

Delta R.T. 0.00 min

Lab File: BF079752.D

Acq: 6 Jun 2015 3:33

Tgt Ion:	136	Resp:	220817
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.8	13.2
54	8.1	8.7	13.1#
68	6.3	5.8	8.8





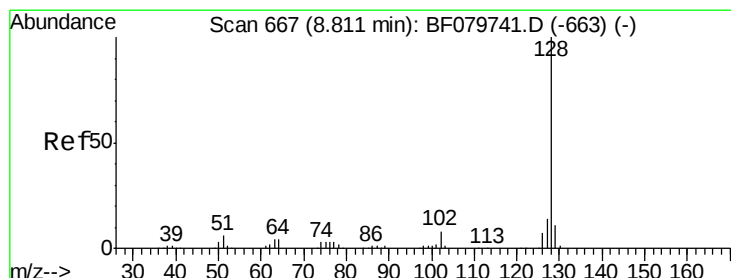
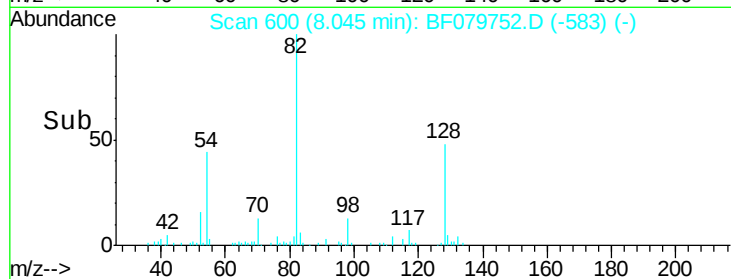
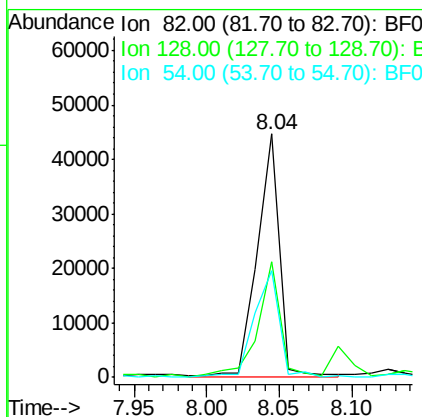
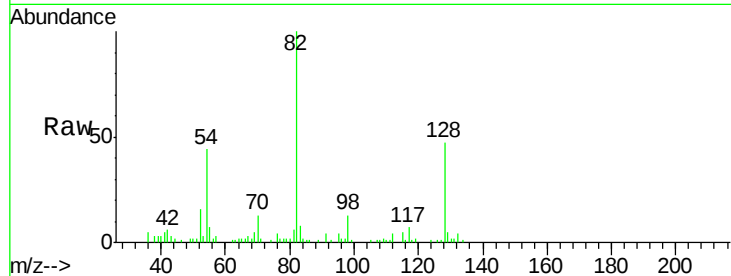
#23
Nitrobenzene-d5
Concen: 13.29 ng
RT: 8.04 min Scan# 600
Delta R.T. 0.00 min
Lab File: BF079752.D
Acq: 6 Jun 2015 3:33

Instrument :
BNA_F
ClientSampleId :
FD-1-20150603

Tot Ion	82	Resp	47794
Ion Ratio	100	Lower	Upper
128	47.3	37.6	56.4
54	44.0	39.4	59.2

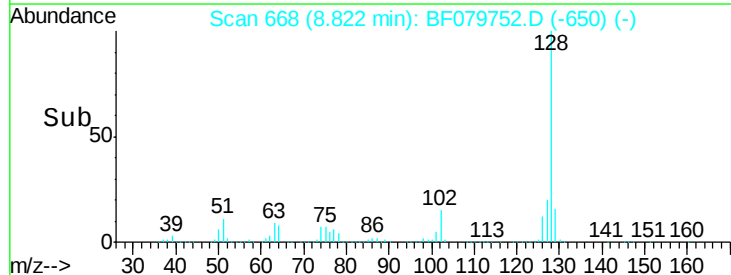
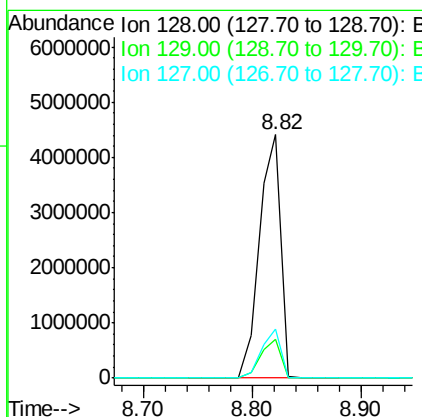
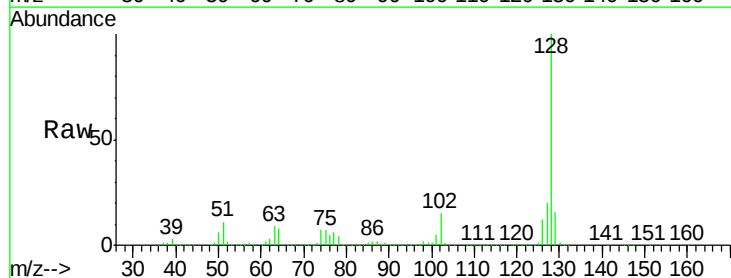
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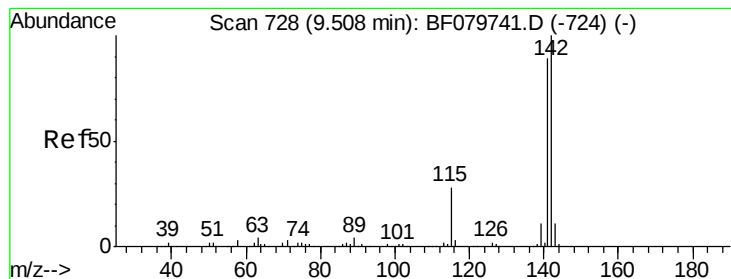
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#31
Naphthalene
Concen: 518.09 ng
RT: 8.82 min Scan# 668
Delta R.T. 0.01 min
Lab File: BF079752.D
Acq: 6 Jun 2015 3:33

Tgt Ion	128	Resp	6001929
Ion Ratio	100	Lower	Upper
129	16.2	9.4	14.2#
127	20.3	10.7	16.1#





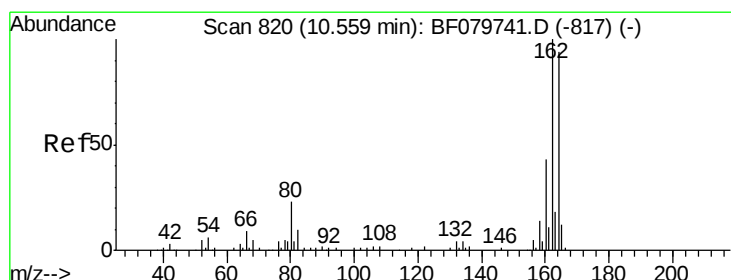
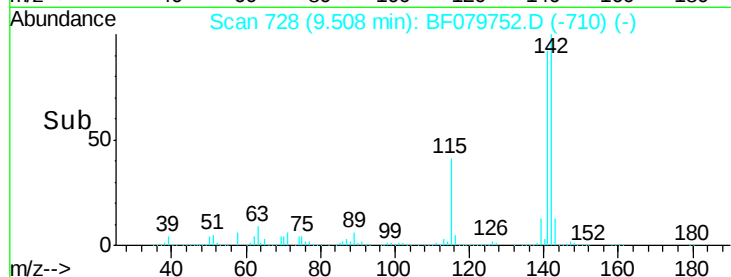
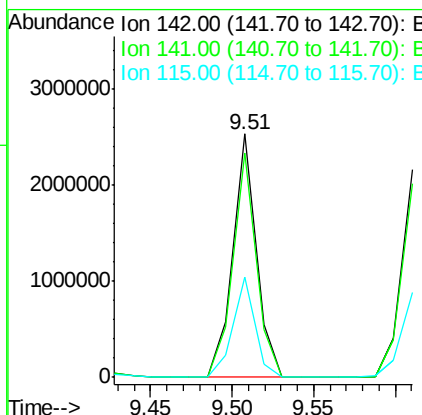
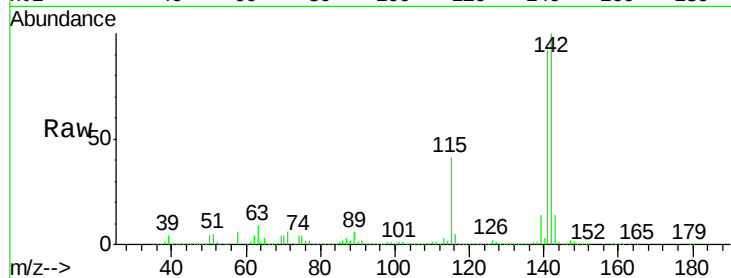
#37
2-Methylnaphthalene
Concen: 341.43 ng
RT: 9.51 min Scan# 728
Delta R.T. 0.01 min
Lab File: BF079752.D
Acq: 6 Jun 2015 3:33

Instrument :
BNA_F
ClientSampleId :
FD-1-20150603

Tot Ion:142 Resp: 2514468
Ion Ratio Lower Upper
142 100
141 91.9 72.8 109.2
115 41.3 26.9 40.3#

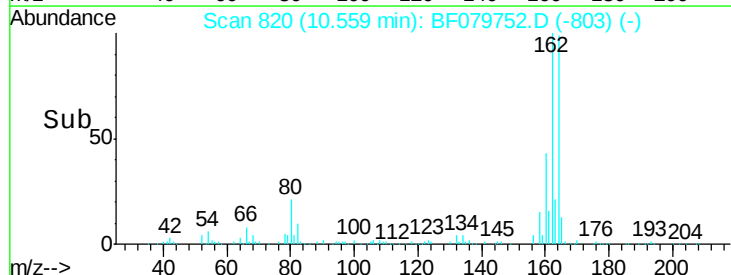
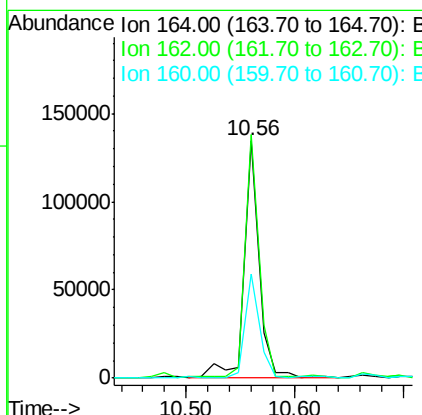
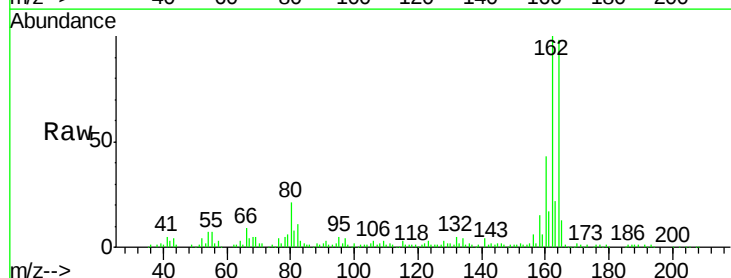
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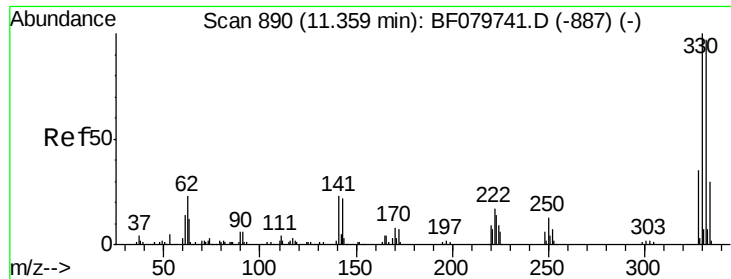
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.56 min Scan# 820
Delta R.T. 0.00 min
Lab File: BF079752.D
Acq: 6 Jun 2015 3:33

Tgt Ion:164 Resp: 126331
Ion Ratio Lower Upper
164 100
162 102.5 82.6 123.8
160 43.6 36.8 55.2





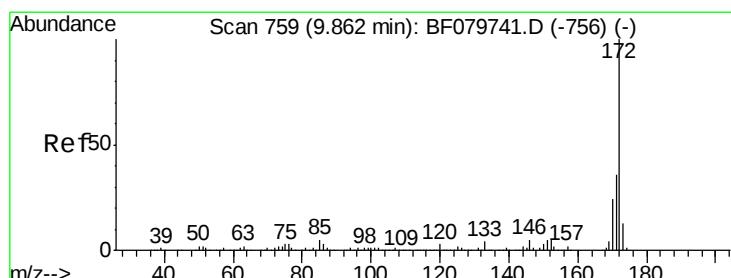
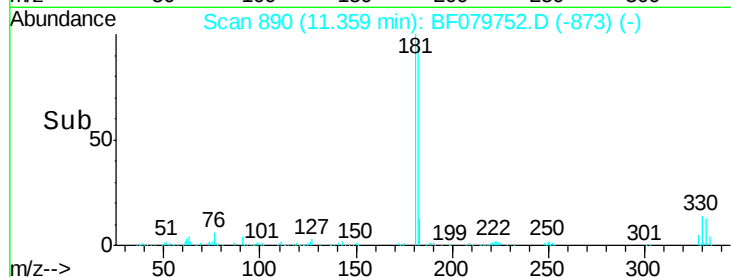
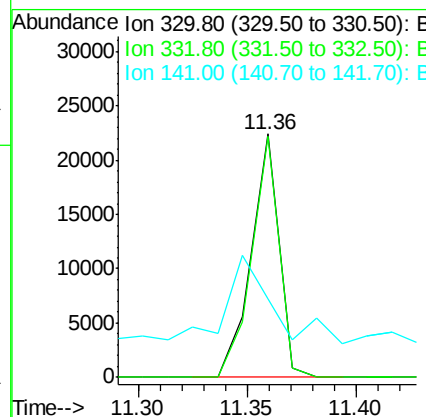
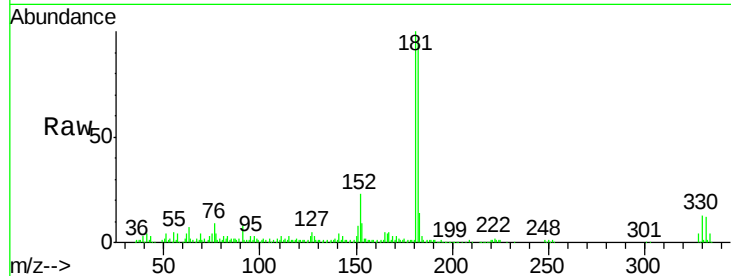
#41
 2,4,6-Tribromophenol
 Concen: 16.38 ng
 RT: 11.36 min Scan# 890
 Delta R.T. 0.00 min
 Lab File: BF079752.D
 Acq: 6 Jun 2015 3:33

Instrument :
 BNA_F
 ClientSampleId :
 FD-1-20150603

Tot Ion	Ratio	Resp	Lower	Upper
330	100	19795		
332	97.7		77.4	116.0
141	57.9		30.2	45.2#

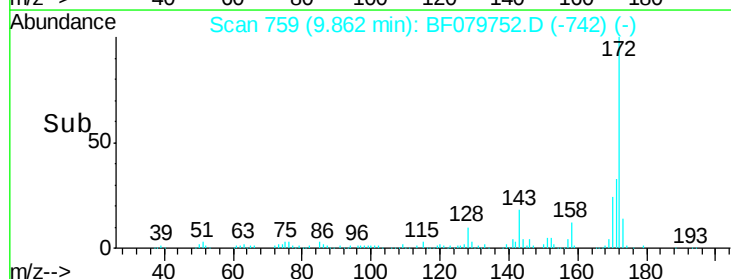
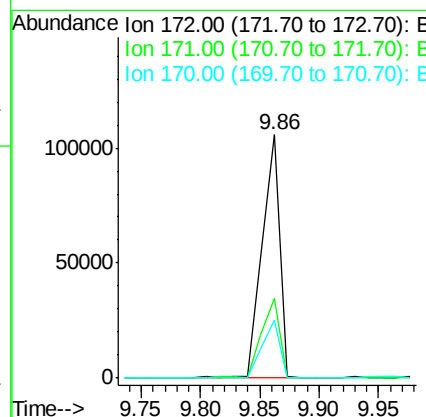
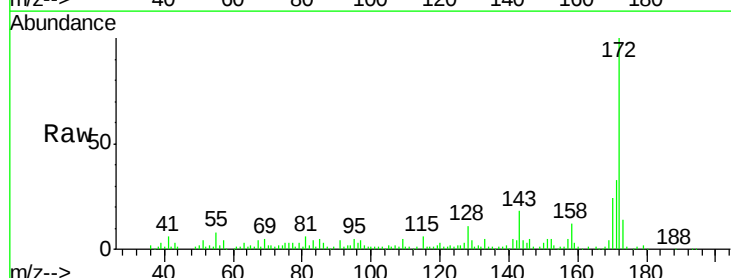
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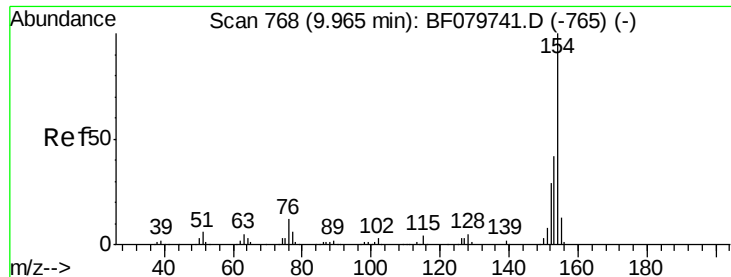
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#44
 2-Fluorobiphenyl
 Concen: 11.89 ng
 RT: 9.86 min Scan# 759
 Delta R.T. 0.00 min
 Lab File: BF079752.D
 Acq: 6 Jun 2015 3:33

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	110901		
171	32.5		29.4	44.0
170	23.6		19.7	29.5





#45

1,1'-Biphenyl

Concen: 60.93 ng

RT: 9.96 min Scan# 768

Delta R.T. 0.00 min

Lab File: BF079752.D

Acq: 6 Jun 2015 3:33

Instrument :

BNA_F

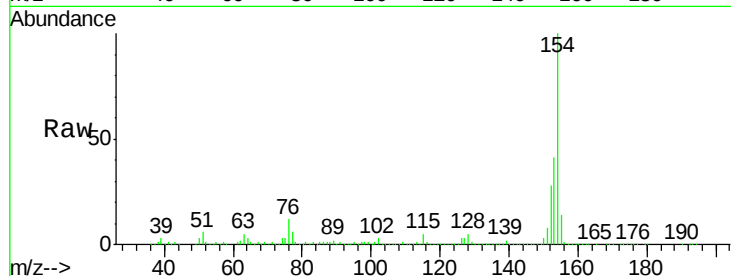
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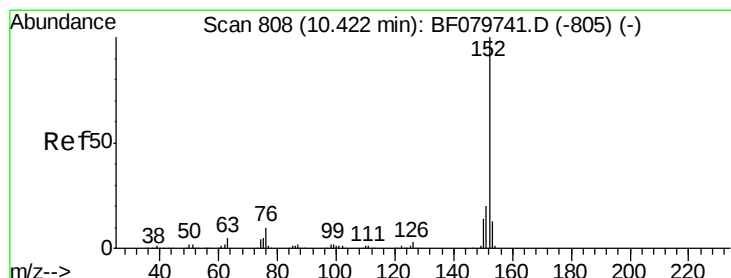
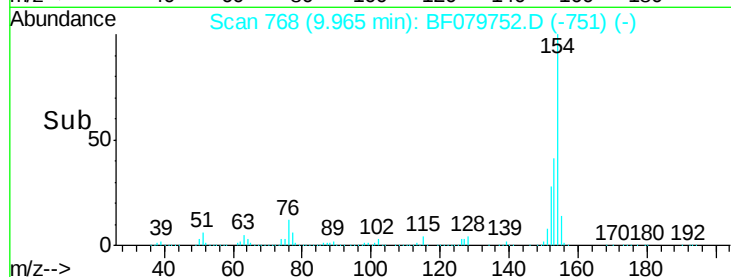
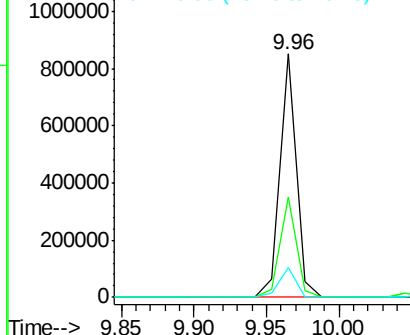
Tot Ion:	154	Resp:	669659
Ion Ratio	Lower	Upper	
154	100		
153	41.3	19.9	59.9
76	12.3	0.0	28.2

Manual Integrations
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 128.45 ng

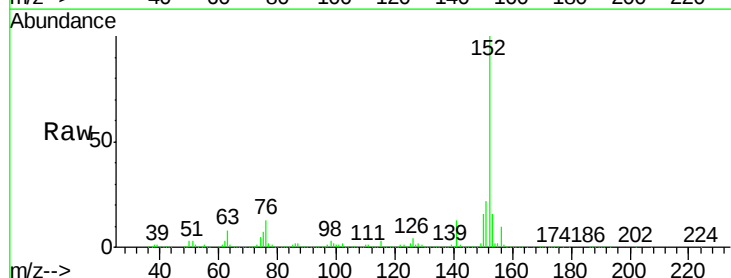
RT: 10.42 min Scan# 808

Delta R.T. 0.00 min

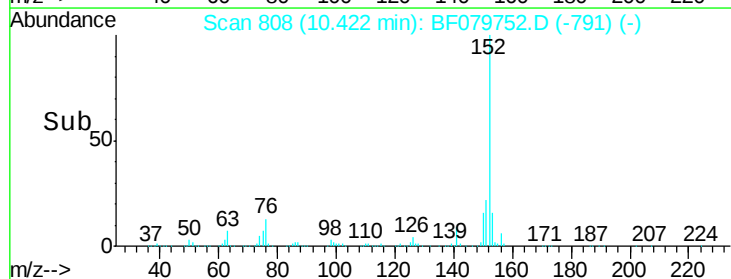
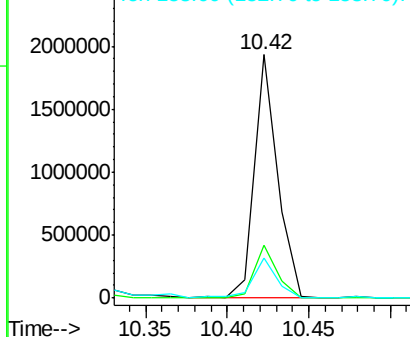
Lab File: BF079752.D

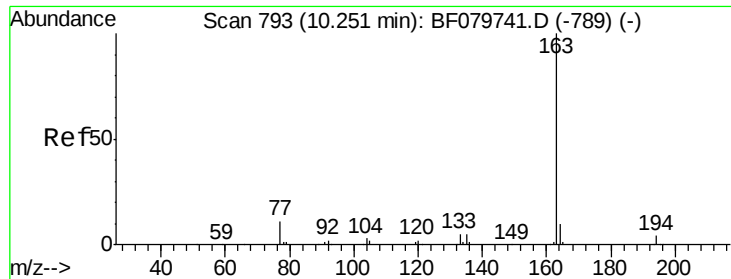
Acq: 6 Jun 2015 3:33

Tgt Ion:	152	Resp:	1905546
Ion Ratio	Lower	Upper	
152	100		
151	22.0	16.2	24.4
153	16.5	10.4	15.6#



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





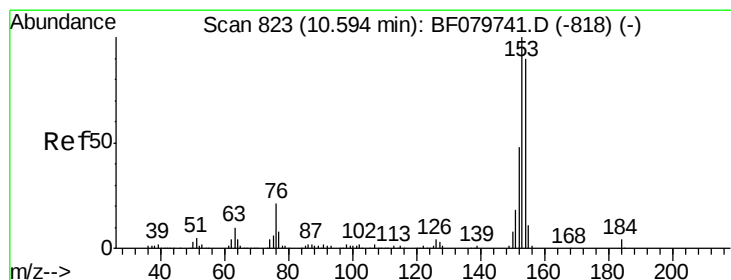
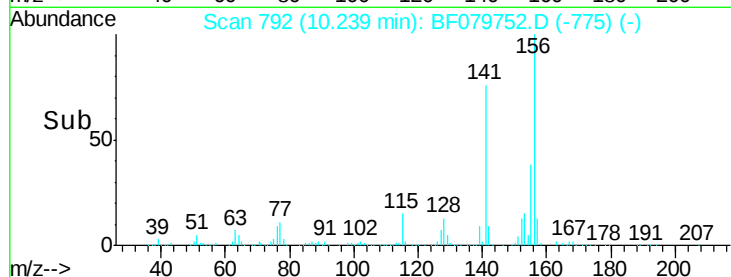
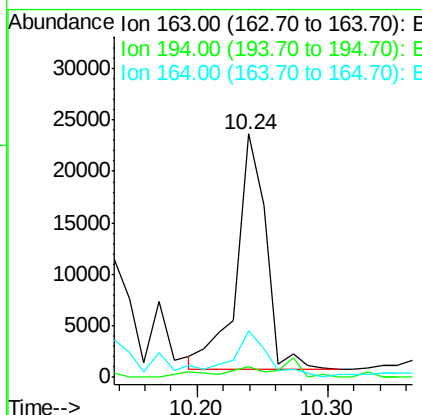
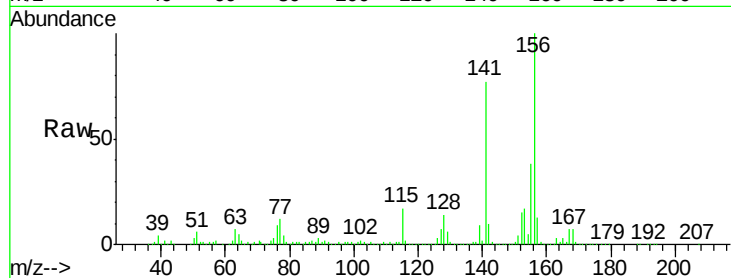
#49
Dimethylphthalate
Concen: 3.67 ng
RT: 10.24 min Scan# 792
Delta R.T. 0.00 min
Lab File: BF079752.D
Acq: 6 Jun 2015 3:33

Instrument :
BNA_F
ClientSampleId :
FD-1-20150603

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	4.6	2.6	3.8#	
164	19.1	8.5	12.7#	

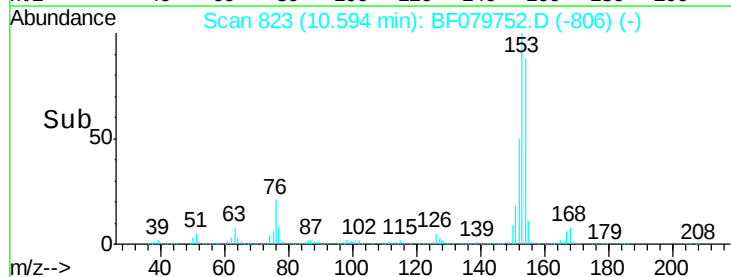
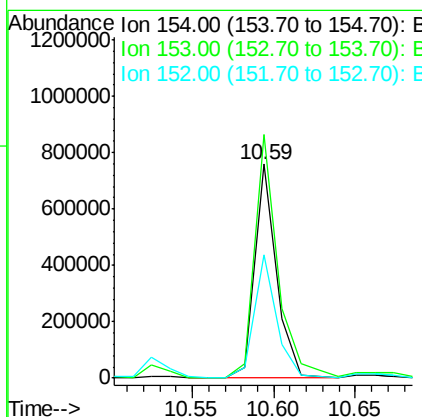
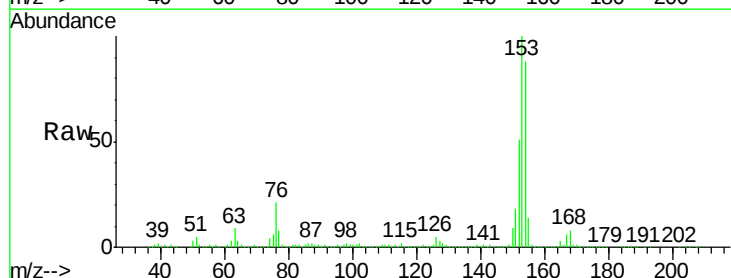
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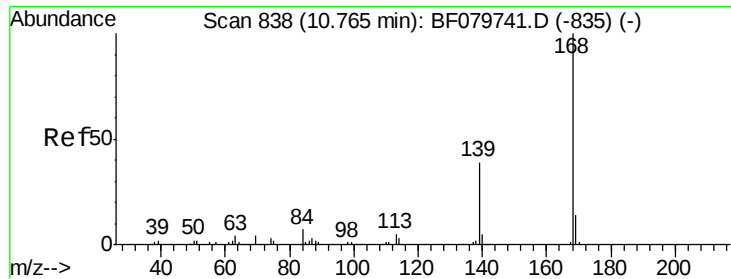
apatel
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#51
Acenaphthene
Concen: 82.92 ng
RT: 10.59 min Scan# 823
Delta R.T. 0.00 min
Lab File: BF079752.D
Acq: 6 Jun 2015 3:33

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	113.9	90.1	135.1	
152	57.6	43.4	65.0	





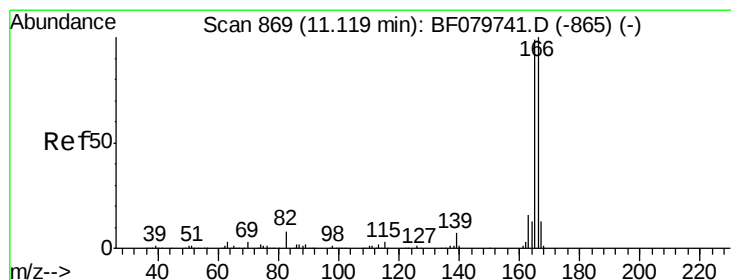
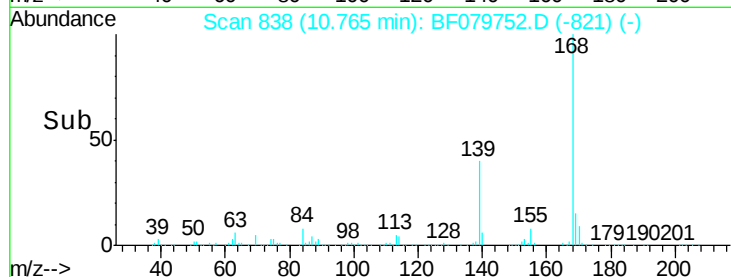
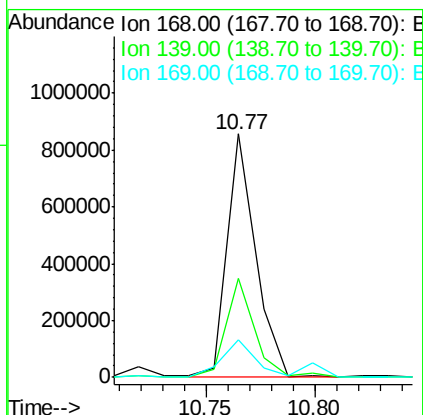
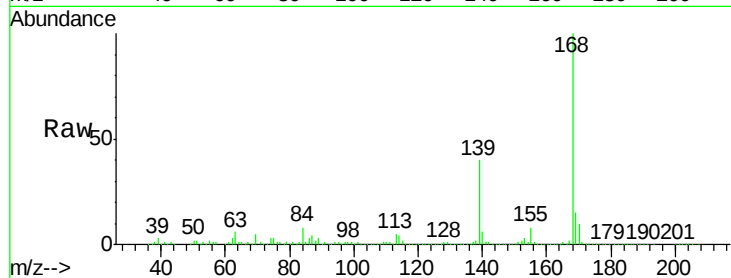
#54
Dibenzofuran
Concen: 64.92 ng
RT: 10.77 min Scan# 838
Delta R.T. 0.00 min
Lab File: BF079752.D
Acq: 6 Jun 2015 3:33

Instrument :
BNA_F
ClientSampleId :
FD-1-20150603

Tot Ion	Ratio	Lower	Upper
168	100		
139	40.4	27.7	41.5
169	15.5	11.0	16.4

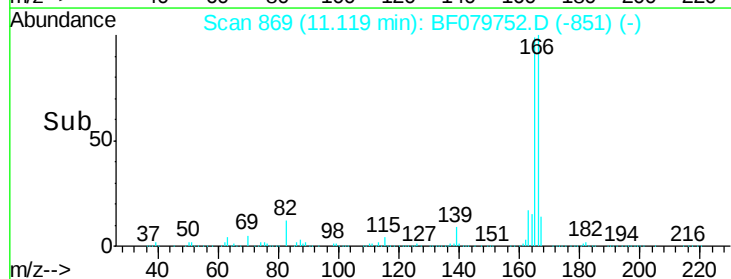
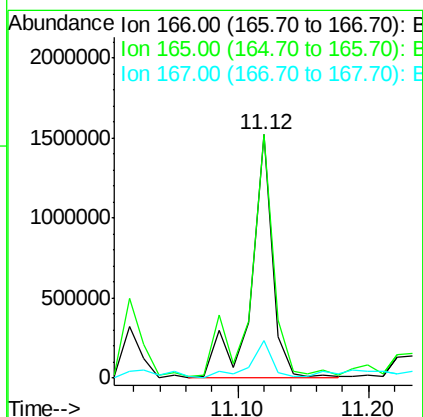
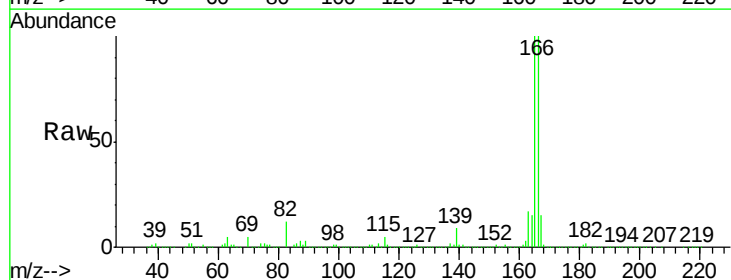
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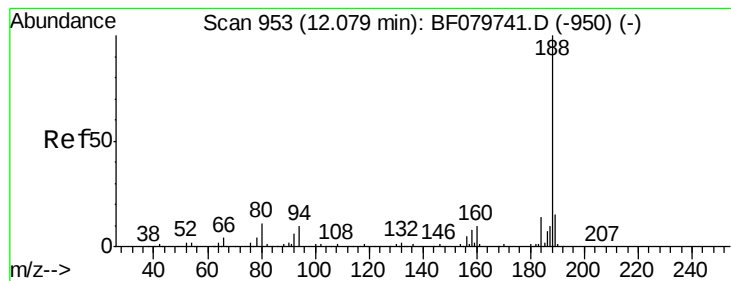
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#57
Fluorene
Concen: 167.66 ng
RT: 11.12 min Scan# 869
Delta R.T. 0.01 min
Lab File: BF079752.D
Acq: 6 Jun 2015 3:33

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.9	79.4	119.0
167	15.5	11.0	16.4





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.08 min Scan# 953

Delta R.T. 0.01 min

Lab File: BF079752.D

Acq: 6 Jun 2015 3:33

Instrument :

BNA_F

ClientSampleId :

FD-1-20150603

Tot Ion:188 Resp: 222855

Ion Ratio Lower Upper

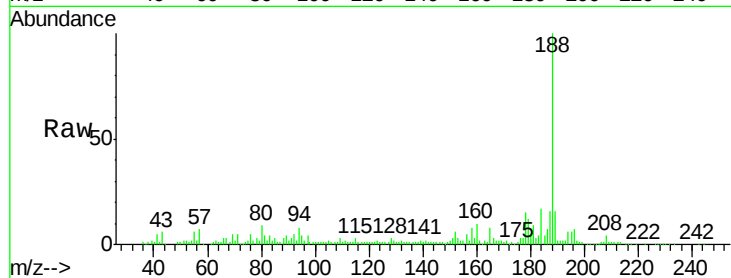
188 100

94 7.6 5.0 7.4#

80 8.7 5.3 7.9#

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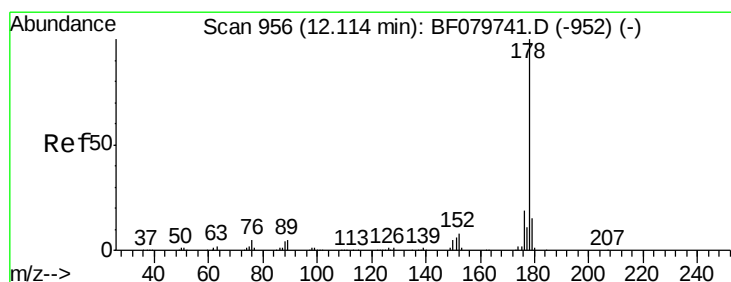
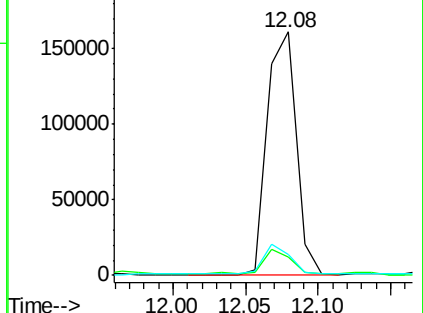
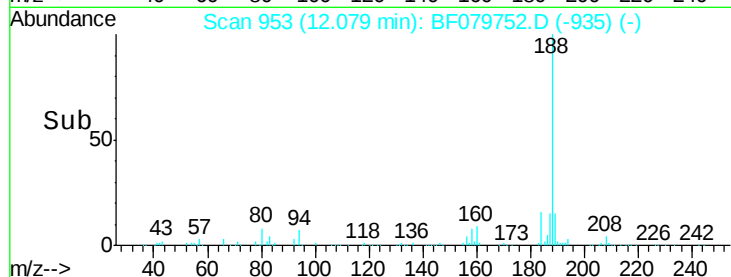
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 406.04 ng m

RT: 12.11 min Scan# 956

Delta R.T. 0.02 min

Lab File: BF079752.D

Acq: 6 Jun 2015 3:33

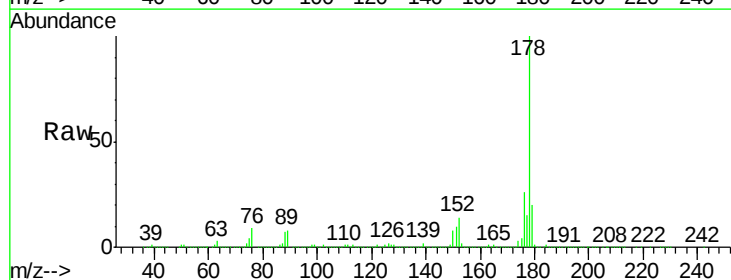
Tgt Ion:178 Resp: 5297898

Ion Ratio Lower Upper

178 100

176 25.6 16.2 24.4#

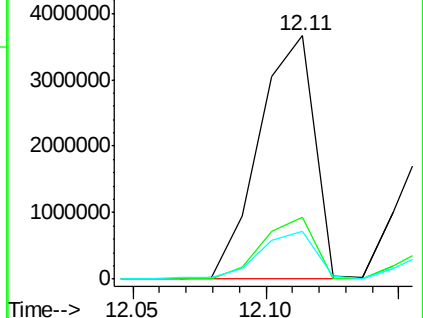
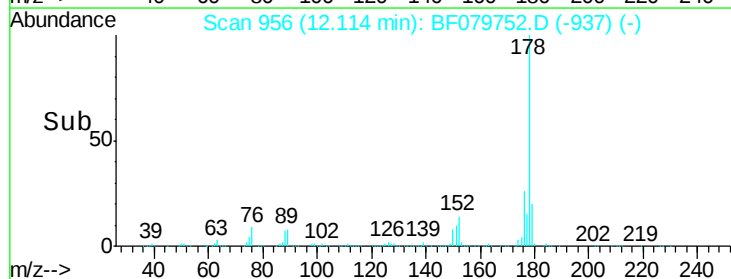
179 19.8 12.6 19.0#

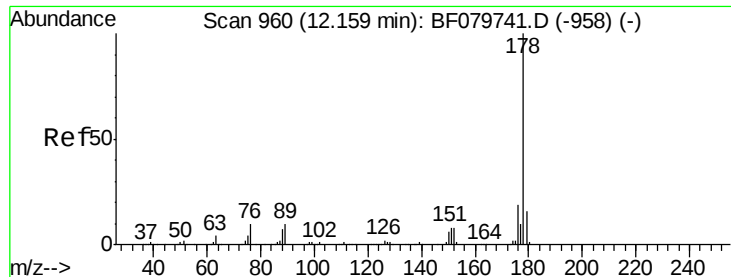


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 176.42 ng

RT: 12.16 min Scan# 960

Delta R.T. 0.01 min

Lab File: BF079752.D

Acq: 6 Jun 2015 3:33

Instrument :

BNA_F

ClientSampleId :

FD-1-20150603

Tot Ion:178 Resp: 2269925

Ion Ratio Lower Upper

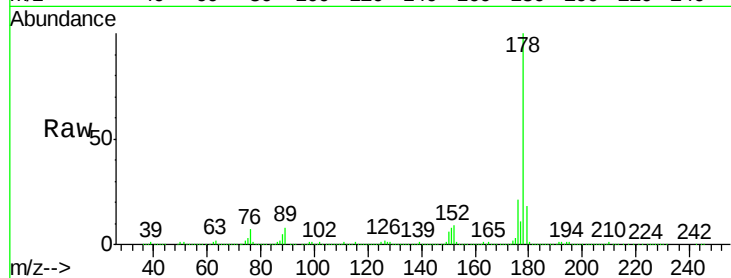
178 100

176 21.0 14.8 22.2

179 17.5 12.2 18.2

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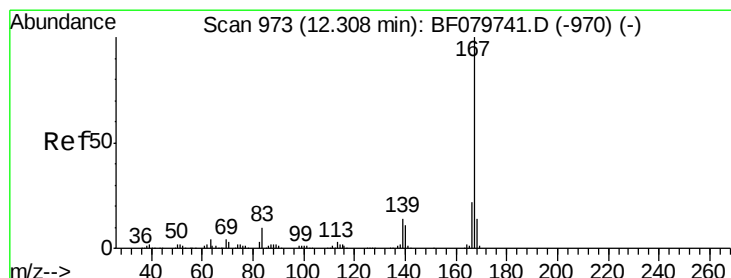
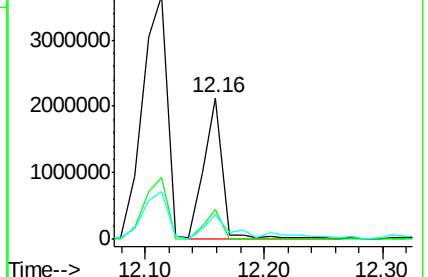
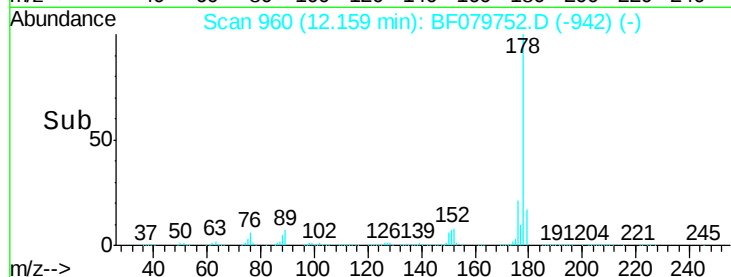
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 21.28 ng

RT: 12.30 min Scan# 972

Delta R.T. 0.01 min

Lab File: BF079752.D

Acq: 6 Jun 2015 3:33

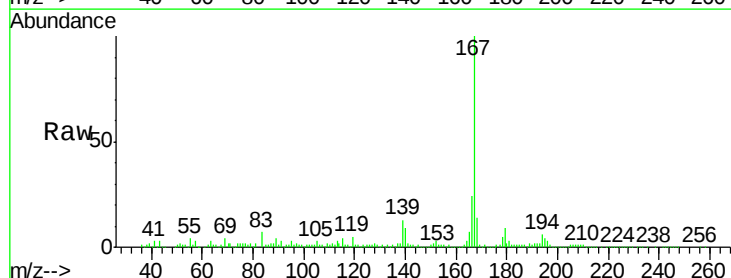
Tgt Ion:167 Resp: 260149

Ion Ratio Lower Upper

167 100

166 23.5 17.7 26.5

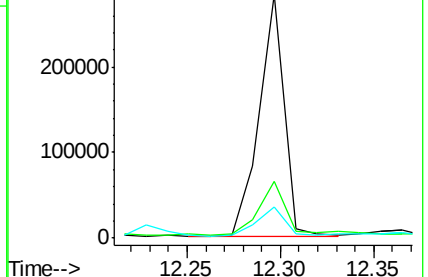
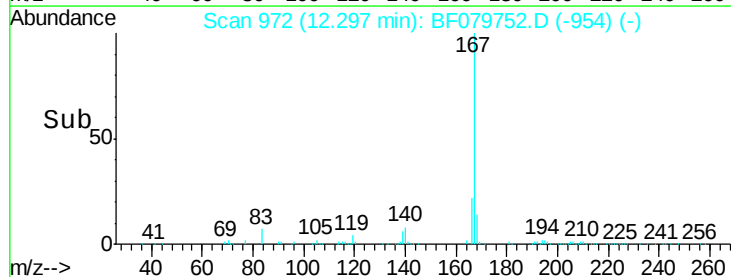
139 12.6 9.3 13.9

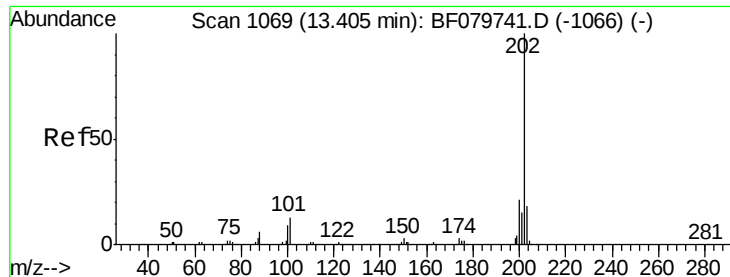


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 239.61 ng

RT: 13.35 min Scan# 1064

Delta R.T. 0.02 min

Lab File: BF079752.D

Acq: 6 Jun 2015 3:33

Instrument :

BNA_F

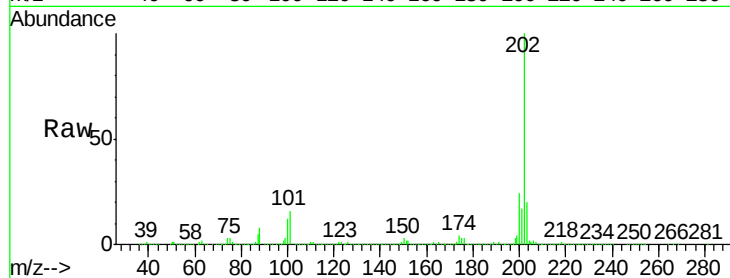
ClientSampleId :

FD-1-20150603

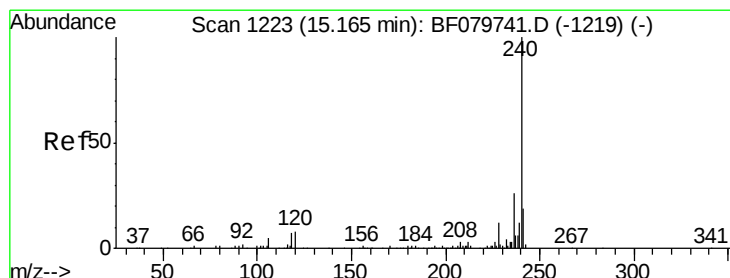
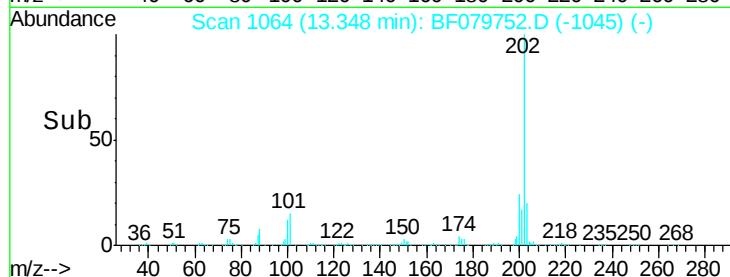
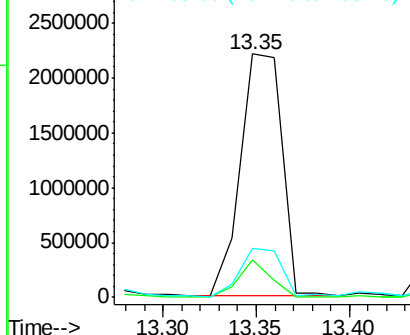
Tot Ion	Ratio	Lower	Upper
202	100		
101	15.6	0.0	31.3
203	20.1	0.0	38.4

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.98 min Scan# 1207

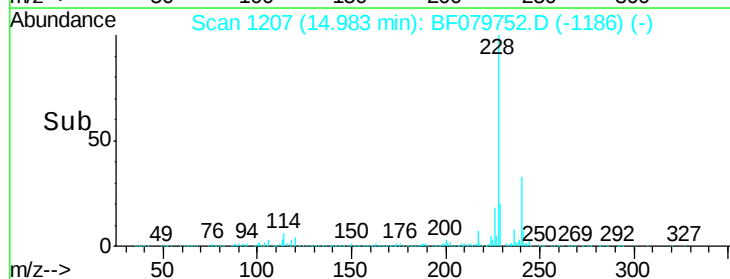
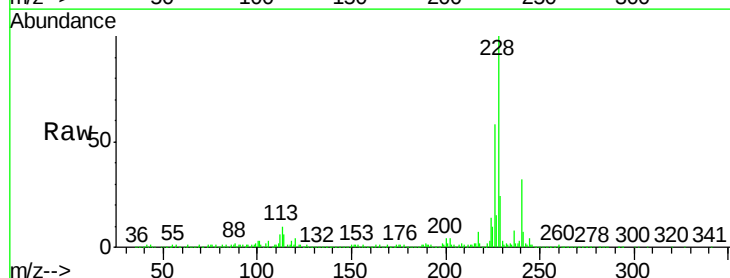
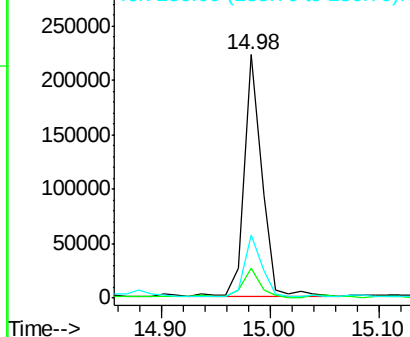
Delta R.T. 0.05 min

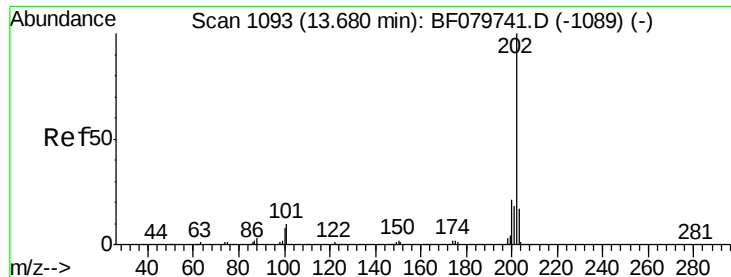
Lab File: BF079752.D

Acq: 6 Jun 2015 3:33

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.3	6.2	9.2#
236	26.0	21.0	31.4

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

Pvrene

Concen: 259.09 ng/mL

RT: 13.61 min Scan# 1087

Delta R.T. 0.03 min

Lab File: BF079752.D

Acq: 6 Jun 2015 3:33

Instrument :

BNA_F

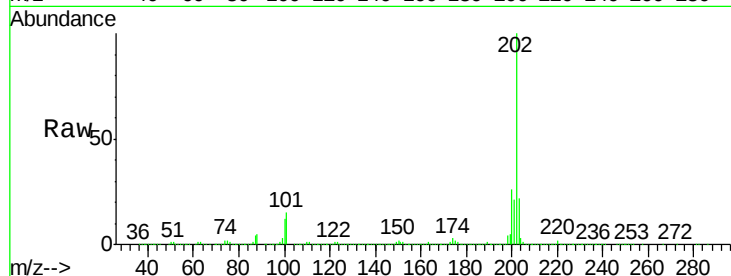
ClientSampleId :

FD-1-20150603

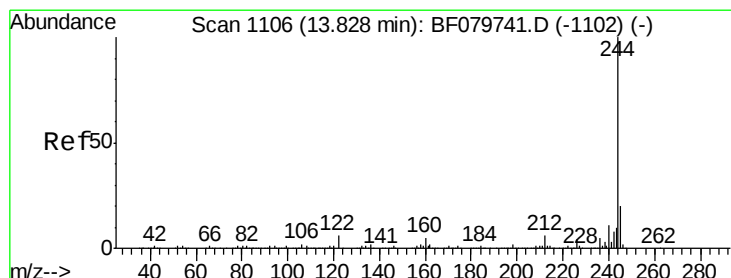
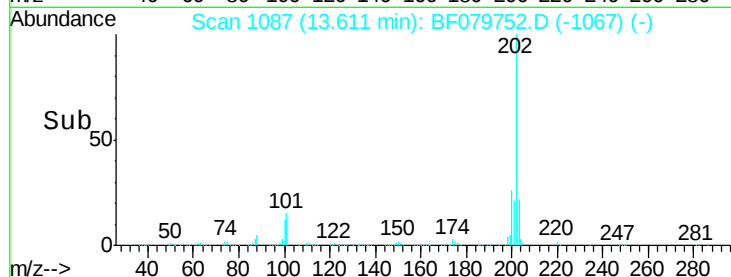
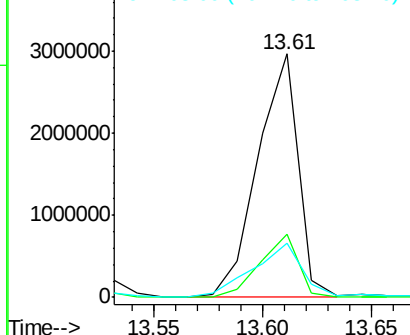
Tot Ion:	202	Resp:	3891841
Ion Ratio	Lower	Upper	
202	100		
200	25.7	17.5	26.3
203	22.3	14.8	22.2

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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: 12.94 ng

RT: 13.74 min Scan# 1098

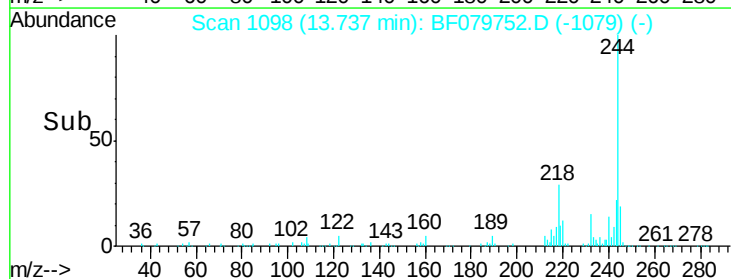
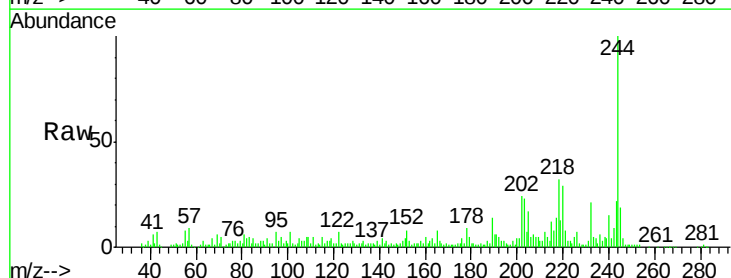
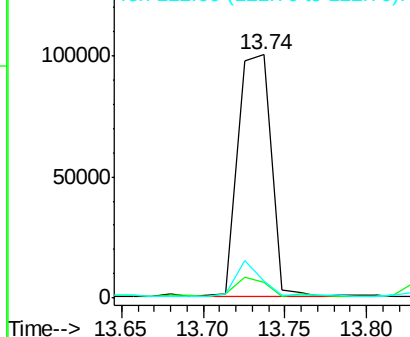
Delta R.T. 0.02 min

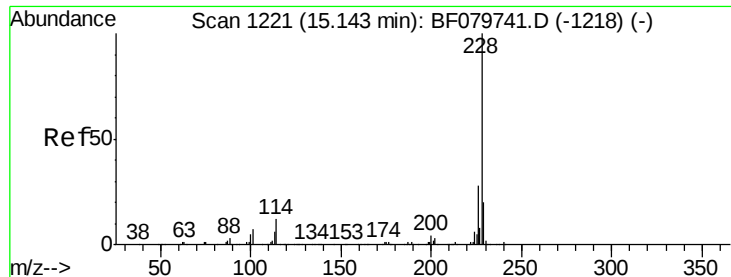
Lab File: BF079752.D

Acq: 6 Jun 2015 3:33

Tgt Ion:	244	Resp:	138480
Ion Ratio	Lower	Upper	
244	100		
212	6.7	6.1	9.1
122	6.8	9.3	13.9

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





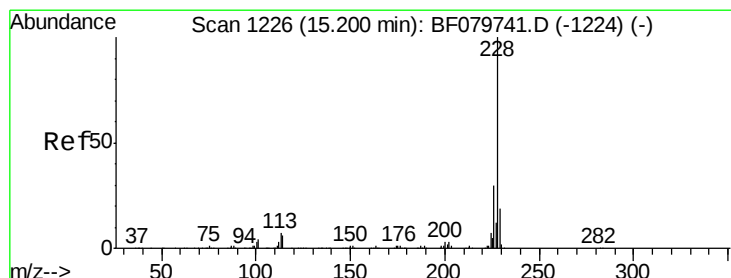
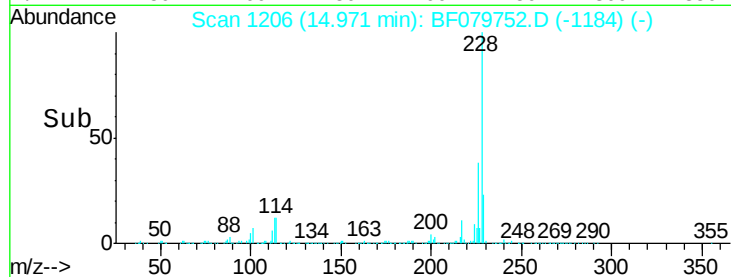
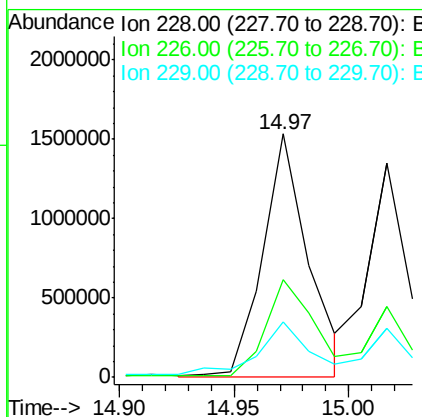
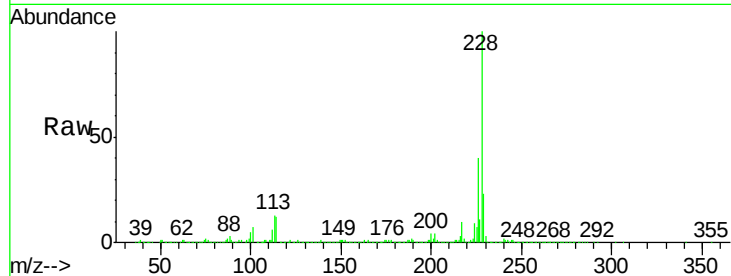
#80
Benzo(a)anthracene
Concen: 142.26 ng/mL
RT: 14.97 min Scan# 1206
Delta R.T. 0.06 min
Lab File: BF079752.D
Acq: 6 Jun 2015 3:33

Instrument :
BNA_F
ClientSampleId :
FD-1-20150603

Tot Ion:228 Resp: 2133737
Ion Ratio Lower Upper
228 100
226 40.1 22.2 33.4#
229 23.0 16.6 25.0

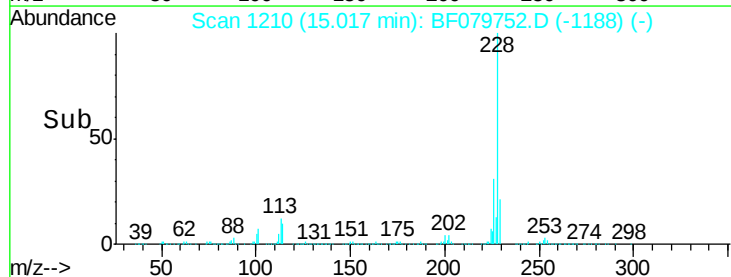
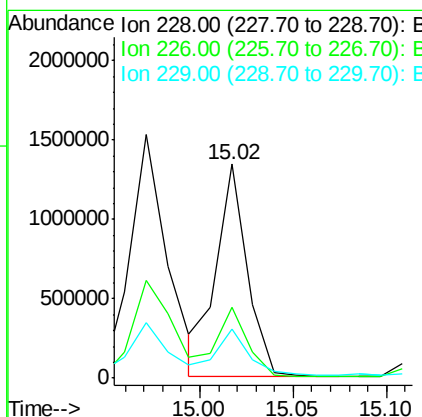
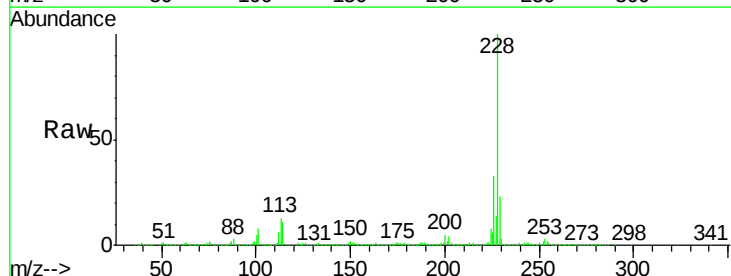
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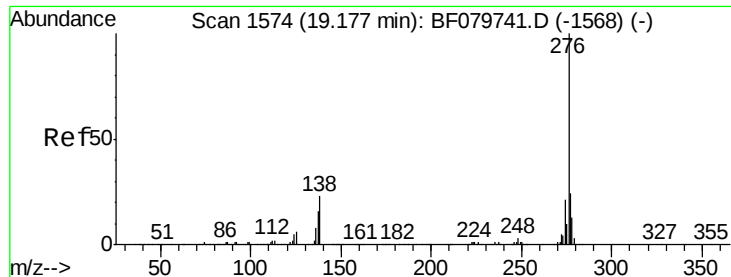
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#82
Chrysene
Concen: 112.74 ng/mL
RT: 15.02 min Scan# 1210
Delta R.T. 0.06 min
Lab File: BF079752.D
Acq: 6 Jun 2015 3:33

Tgt Ion:228 Resp: 1563104
Ion Ratio Lower Upper
228 100
226 32.9 25.2 37.8
229 23.3 16.2 24.4





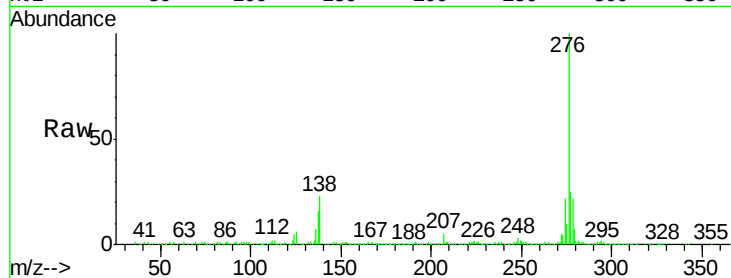
#85
Indeno(1,2,3-cd)pyrene
Concen: 42.11 ng
RT: 18.90 min Scan# 1550
Delta R.T. 0.09 min
Lab File: BF079752.D
Acq: 6 Jun 2015 3:33

Instrument :
BNA_F
ClientSampleId :
FD-1-20150603

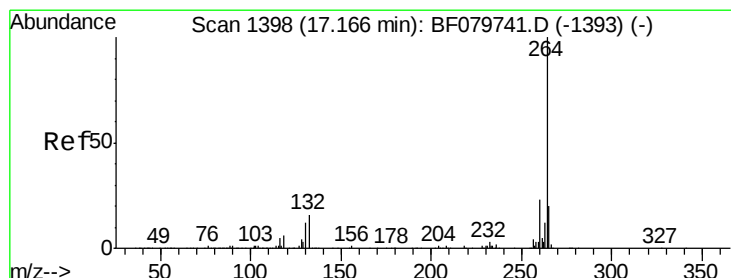
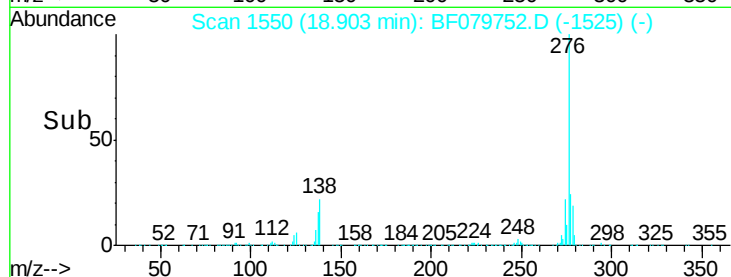
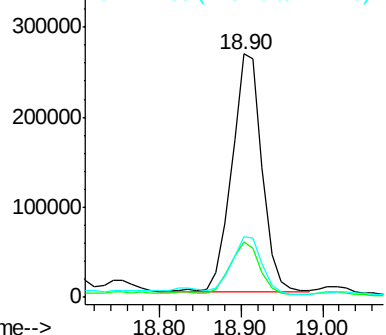
Tot Ion	Ratio	Lower	Upper
276	100		
138	21.7	20.8	31.2
277	24.8	20.0	30.0

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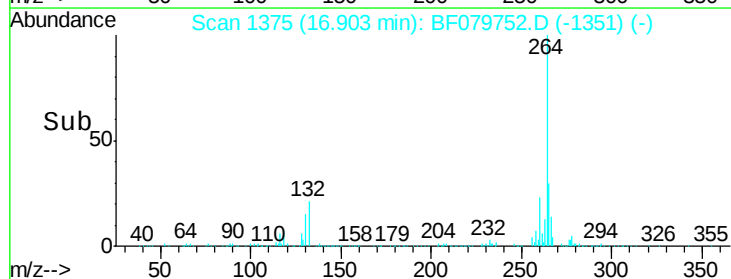
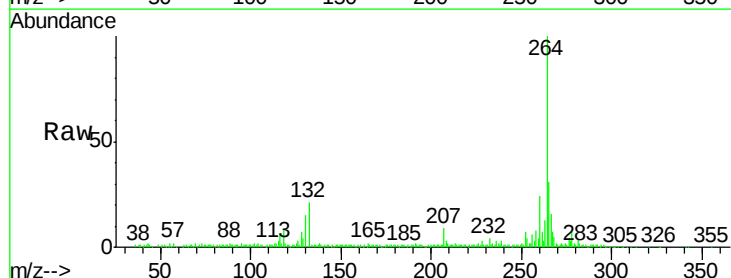
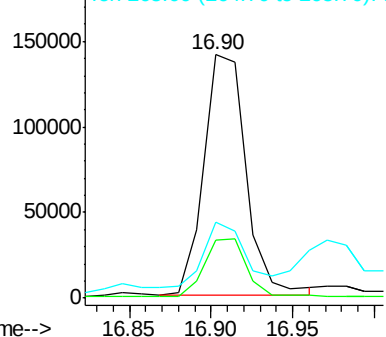
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

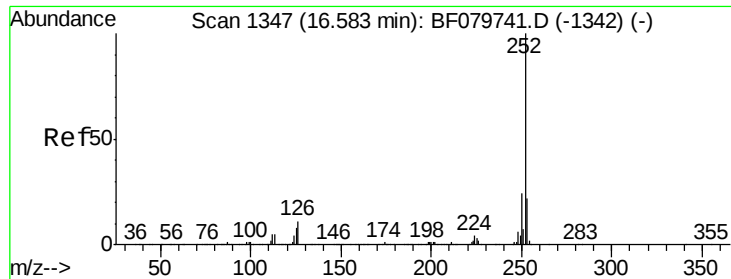


#86
Perylene-d12
Concen: 20.00 ng
RT: 16.90 min Scan# 1375
Delta R.T. 0.08 min
Lab File: BF079752.D
Acq: 6 Jun 2015 3:33

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	18.6	27.8
265	31.2	18.2	27.4#

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: 100.71 ng m

RT: 16.34 min Scan# 1326

Delta R.T. 0.08 min

Lab File: BF079752.D

Acq: 6 Jun 2015 3:33

Instrument :

BNA_F

ClientSampleId :

FD-1-20150603

Tot Ion:252 Resp: 1561764

Ion Ratio Lower Upper

252 100

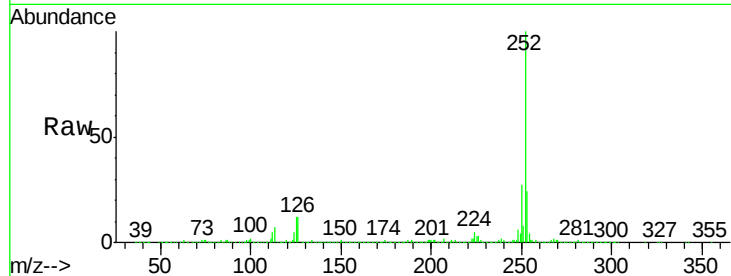
253 23.7 17.4 26.2

125 11.6 6.5 9.7#

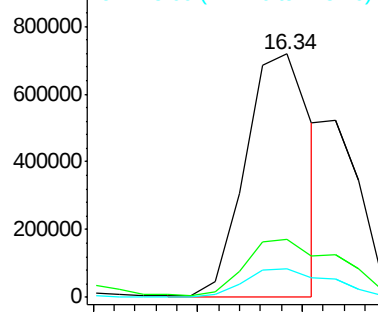
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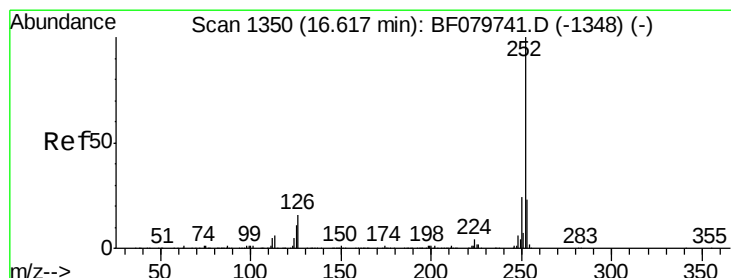
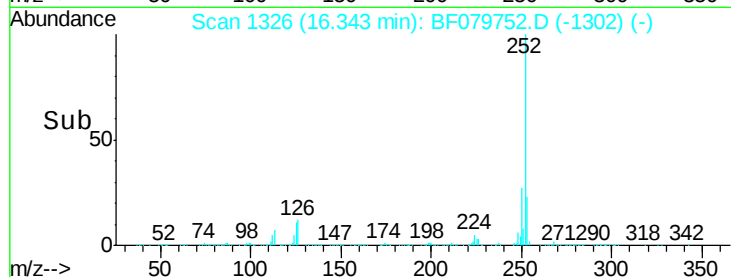
6/9/2015 8:10:28 AM



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



Time--> 16.25 16.30 16.35



#88

Benzo(k)fluoranthene

Concen: 44.48 ng m

RT: 16.37 min Scan# 1328

Delta R.T. 0.07 min

Lab File: BF079752.D

Acq: 6 Jun 2015 3:33

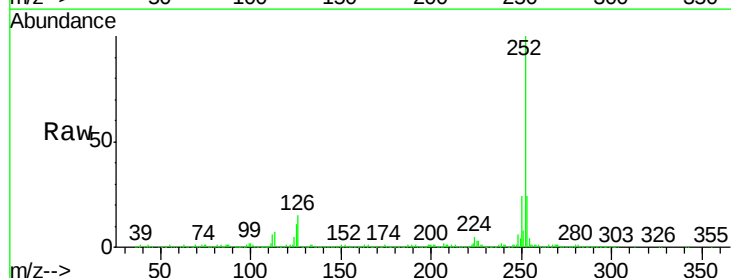
Tgt Ion:252 Resp: 661559

Ion Ratio Lower Upper

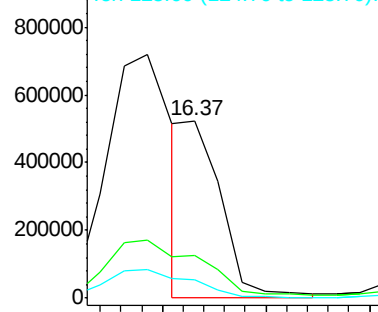
252 100

253 23.8 17.8 26.8

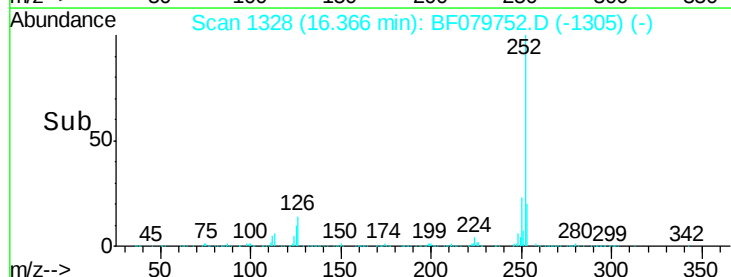
125 10.5 8.4 12.6

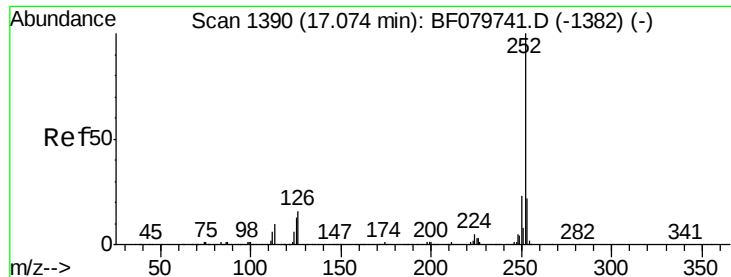


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time--> 16.35 16.40





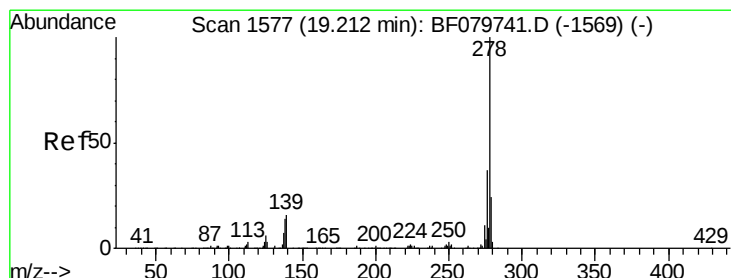
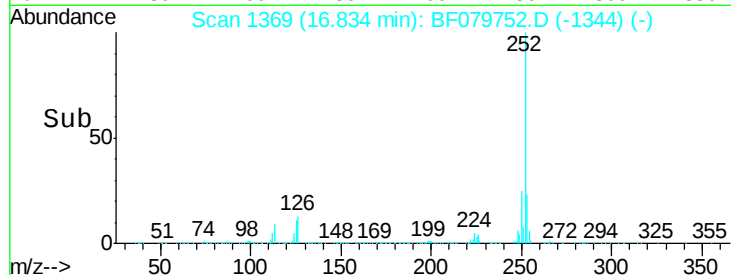
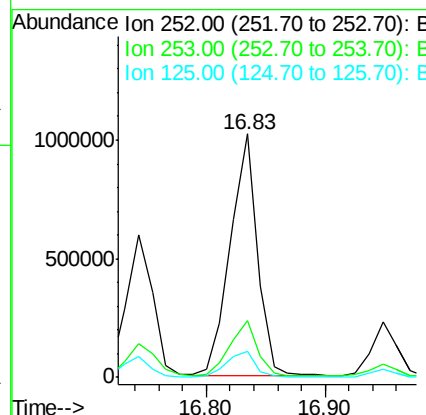
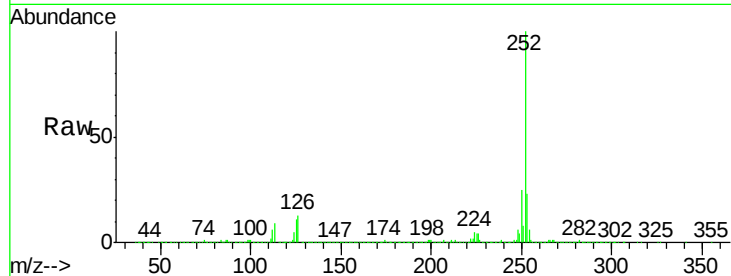
#89
Benzo(a)pyrene
Concen: 112.58 ng
RT: 16.83 min Scan# 1369
Delta R.T. 0.09 min
Lab File: BF079752.D
Acq: 6 Jun 2015 3:33

Instrument :
BNA_F
ClientSampleId :
FD-1-20150603

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.6	26.4
125	10.7	7.4	11.0

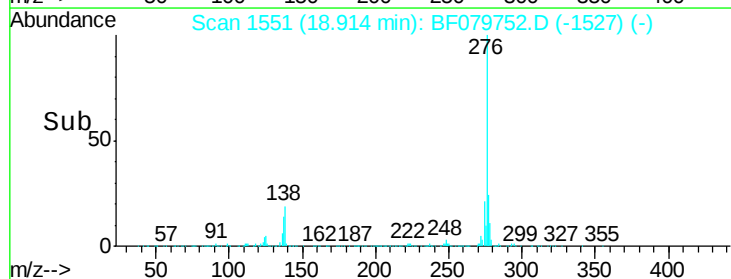
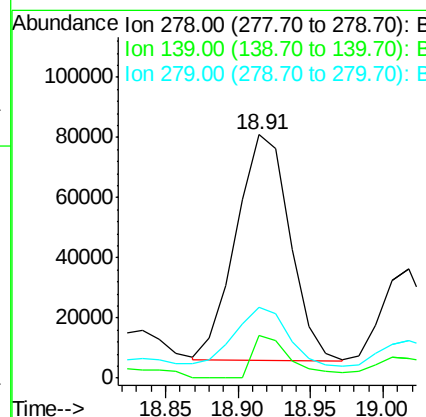
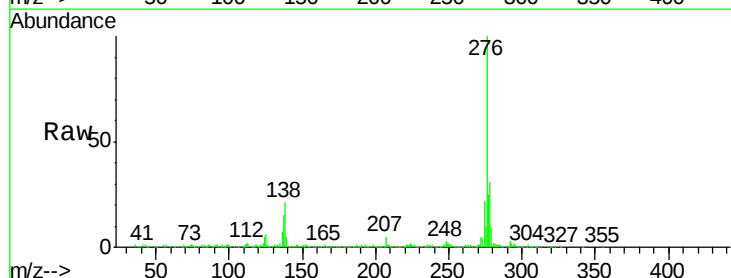
Manual Integrations
APPROVED

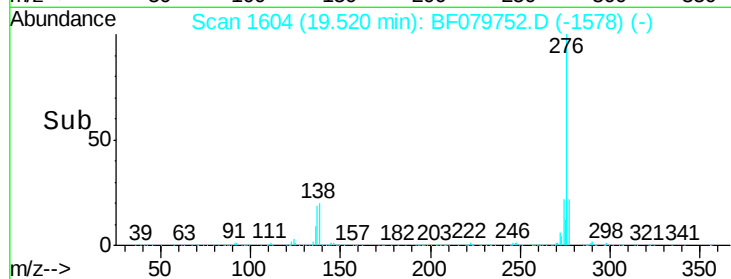
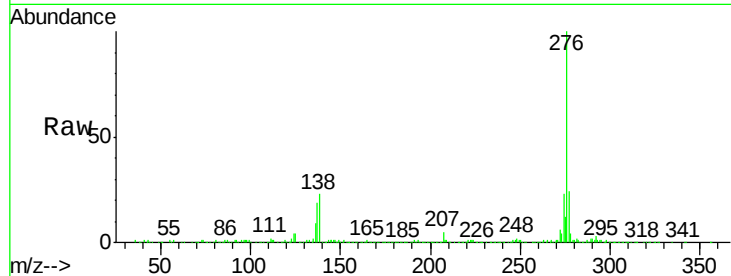
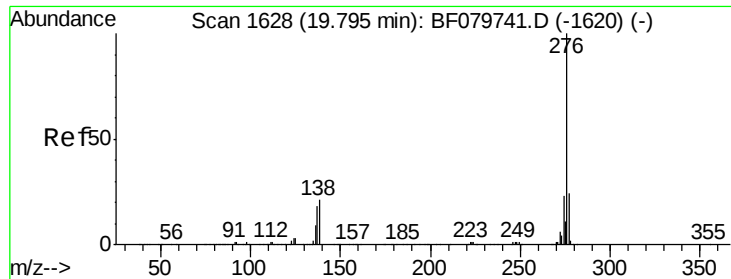
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6/9/2015 8:10:28 AM



#90
Dibenzo(a,h)anthracene
Concen: 14.04 ng
RT: 18.91 min Scan# 1551
Delta R.T. 0.08 min
Lab File: BF079752.D
Acq: 6 Jun 2015 3:33

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.4	12.7	19.1
279	29.0	19.4	29.2





#91
Benzo(a,h,i)perylene
Concen: 47.34 ng
RT: 19.52 min Scan# 1604
Delta R.T. 0.10 min
Lab File: BF079752.D
Acq: 6 Jun 2015 3:33

Tot Ion:	276	Resp:	676224
Ion Ratio	Lower	Upper	
276	100		
277	24.3	18.8	28.2
138	23.1	18.2	27.2

Instrument :
BNA_F
ClientSampleId :
FD-1-20150603

Manual Integrations
APPROVED

apatel
6/9/2015 8:10:28 AM

