

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041015\
 Data File : BF078432.D
 Acq On : 11 Apr 2015 9:23
 Operator : TP/IZ
 Sample : G1841-02
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EP-2

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Quant Time: Apr 13 03:34:04 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 13 02:33:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	40469	20.00	ng	0.01
21) Naphthalene-d8	8.44	136	171601	20.00	ng	0.00
38) Acenaphthene-d10	10.59	164	89062	20.00	ng	0.00
63) Phenanthrene-d10	12.43	188	174449	20.00	ng	0.01
75) Chrysene-d12	15.70	240	161394	20.00	ng	0.02
86) Perylene-d12	17.39	264	181854	20.00	ng	0.08

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.12	112	199164	81.14	ng	0.01
7) Phenol-d6	6.46	99	271727	88.34	ng	0.01
23) Nitrobenzene-d5	7.56	82	156489	55.28	ng	0.00
41) 2,4,6-Tribromophenol	11.57	330	68971	93.37	ng	0.01
44) 2-Fluorobiphenyl	9.79	172	352103	56.51	ng	0.01
78) Terphenyl-d14	14.42	244	420508	58.87	ng	0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.48	94	8457	2.29	ng	84
31) Naphthalene	8.46	128	55089	6.17	ng	99
37) 2-Methylnaphthalene	9.32	142	47005	7.75	ng	97
45) 1,1'-Biphenyl	9.90	154	19858	2.73	ng	98
48) Acenaphthylene	10.42	152	230044	24.85	ng	99
49) Dimethylphthalate	10.29	163	17405	2.60	ng	99
51) Acenaphthene	10.64	154	133144	25.55	ng	99
54) Dibenzofuran	10.85	168	195952	24.62	ng	96
57) Fluorene	11.28	166	218328	33.84	ng	99
70) Phenanthrene	12.46	178	2904676	287.85	ng	96
71) Anthracene	12.52	178	805321	80.99	ng	98
72) Carbazole	12.73	167	160335	17.21	ng	97
74) Fluoranthene	13.94	202	3093773	290.72	ng	96
77) Pyrene	14.21	202	2823107	278.64	ng	# 89
80) Benzo(a)anthracene	15.69	228	1690134	176.01	ng	94
82) Chrysene	15.73	228	1383160	153.31	ng	95
83) Bis(2-ethylhexyl)phthalate	15.77	149	18317	3.02	ng	99
85) Indeno(1,2,3-cd)pyrene	18.63	276	725747m	70.89	ng	
87) Benzo(b)fluoranthene	16.98	252	1698569m	151.13	ng	
88) Benzo(k)fluoranthene	17.00	252	474520m	47.51	ng	
89) Benzo(a)pyrene	17.33	252	1135956	115.81	ng	# 91
90) Dibenzo(a,h)anthracene	18.64	278	192858	19.64	ng	# 91
91) Benzo(g,h,i)perylene	18.99	276	613193	62.28	ng	97

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

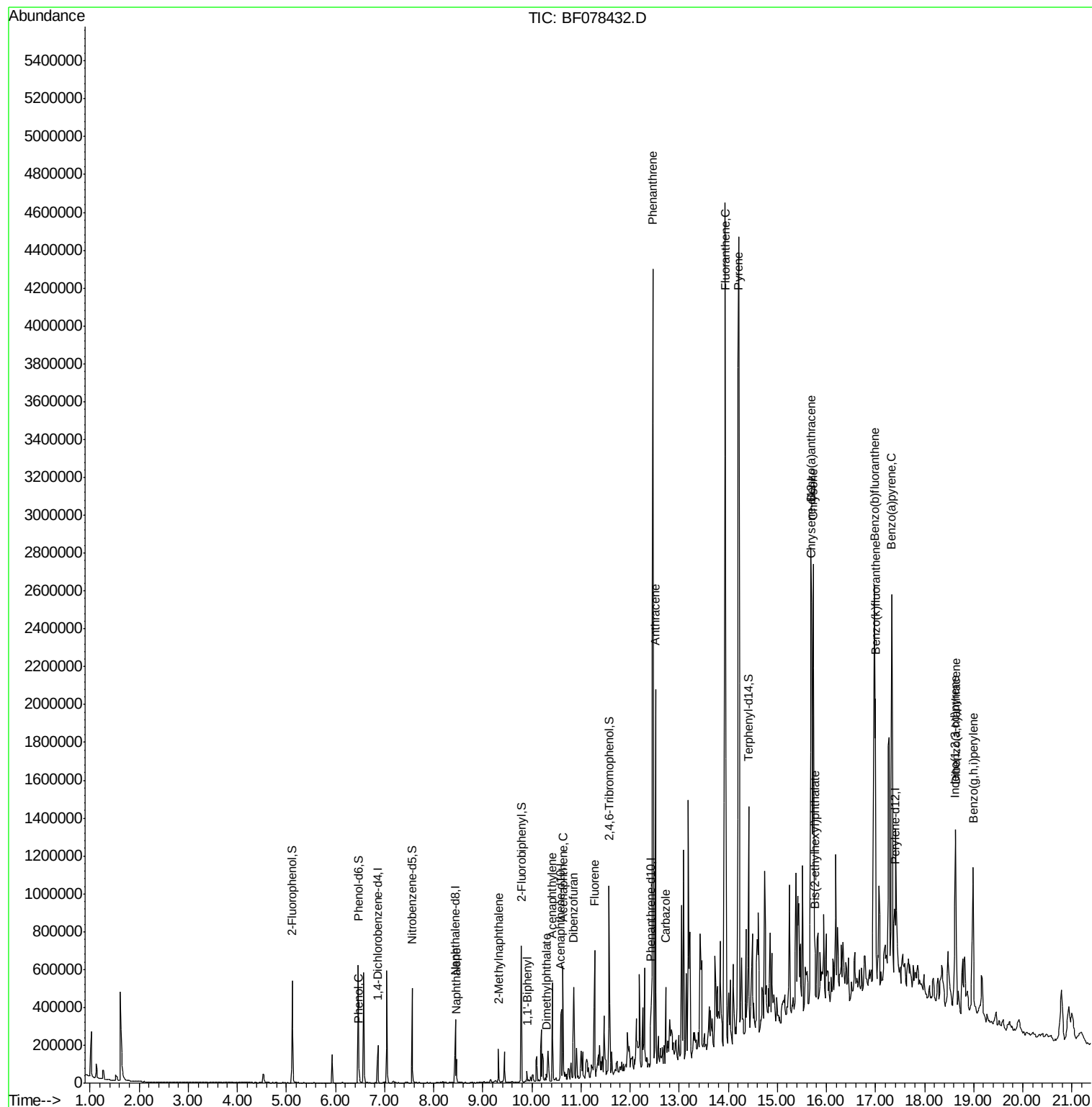
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041015\
Data File : BF078432.D
Acq On : 11 Apr 2015 9:23
Operator : TP/IZ
Sample : G1841-02
Misc :
ALS Vial : 30 Sample Multiplier: 1

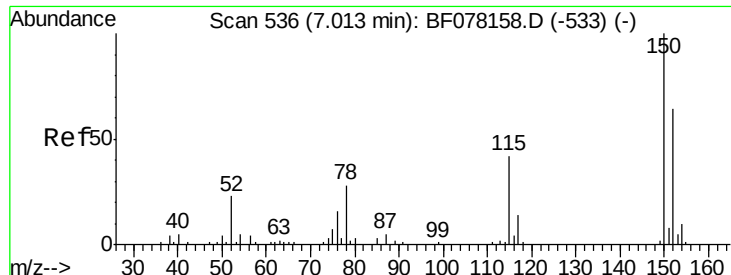
Instrument :
BNA_F
ClientSampleId :
EP-2

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Quant Time: Apr 13 03:34:04 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 13 02:33:18 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.86 min Scan# 523

Delta R.T. 0.01 min

Lab File: BF078432.D

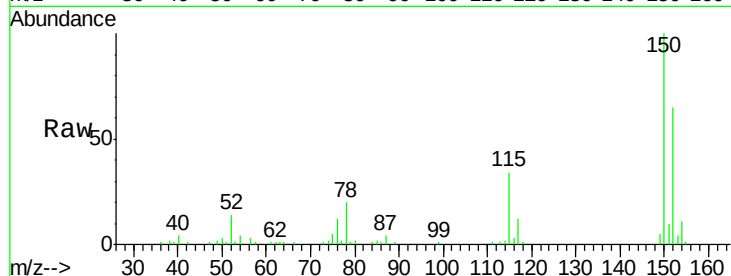
Acq: 11 Apr 2015 9:23

Instrument :

BNA_F

ClientSampleId :

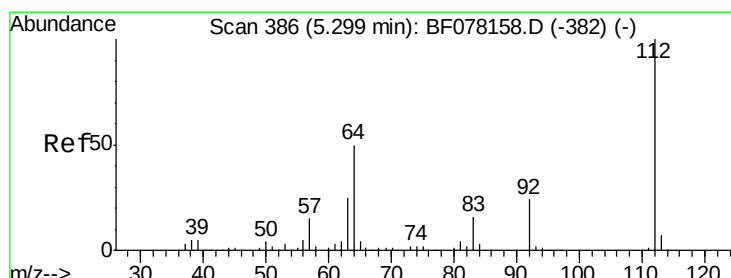
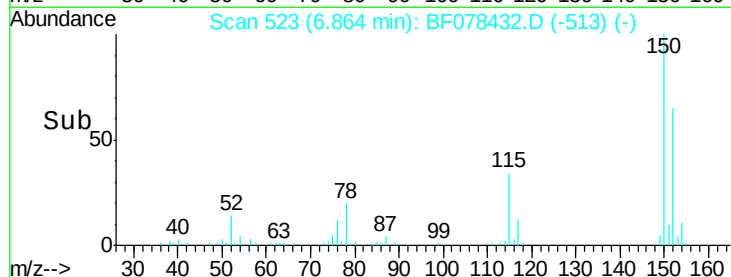
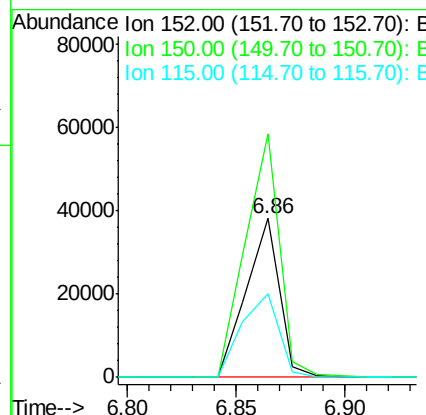
EP-2



Tgt Ion	Ratio	Lower	Upper
152	100		
150	153.4	125.9	188.9
115	52.4	52.7	79.1#

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#5

2-Fluorophenol

Concen: 81.14 ng

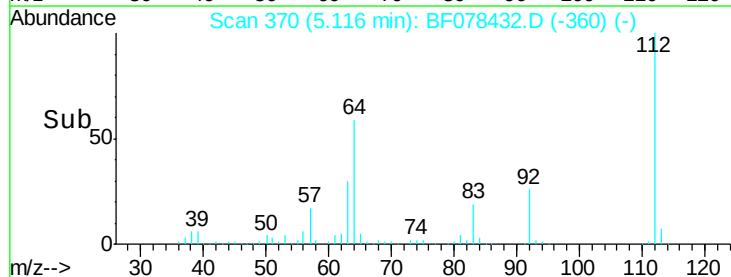
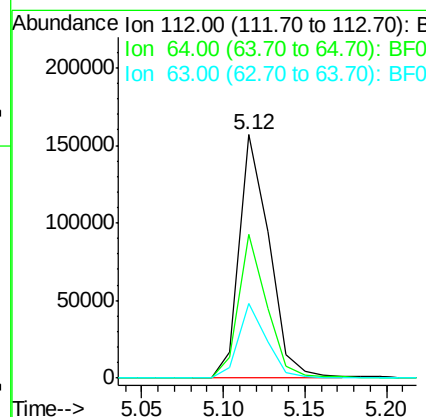
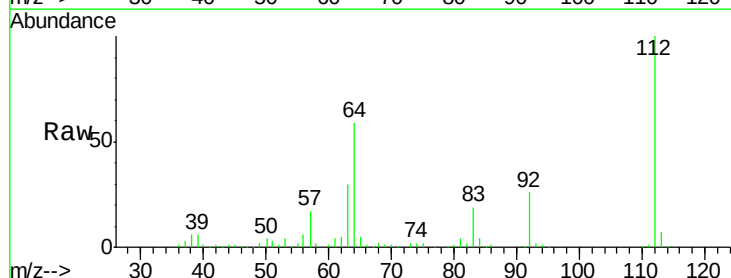
RT: 5.12 min Scan# 370

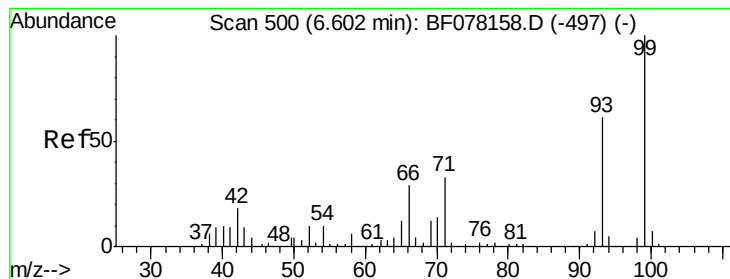
Delta R.T. 0.01 min

Lab File: BF078432.D

Acq: 11 Apr 2015 9:23

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.0	39.9	59.9
63	30.5	20.2	30.4#





#7

Phenol-d6

Concen: 88.34 ng

RT: 6.46 min Scan# 488

Delta R.T. 0.01 min

Lab File: BF078432.D

Acq: 11 Apr 2015 9:23

Instrument :

BNA_F

ClientSampleId :

EP-2

Tgt Ion: 99 Resp: 271727
Ion Ratio Lower Upper

99 100

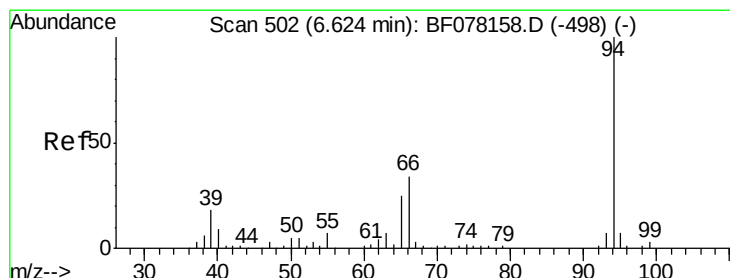
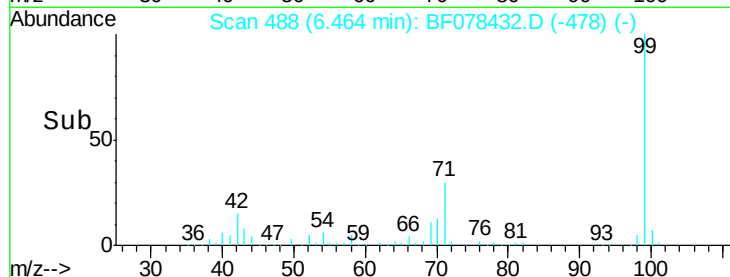
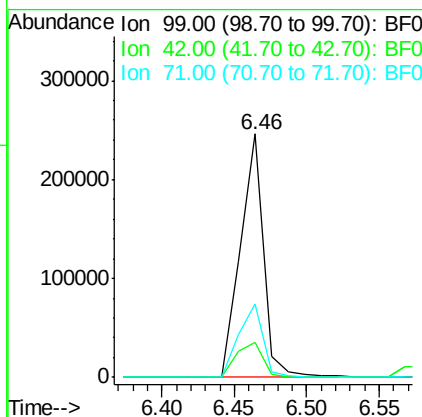
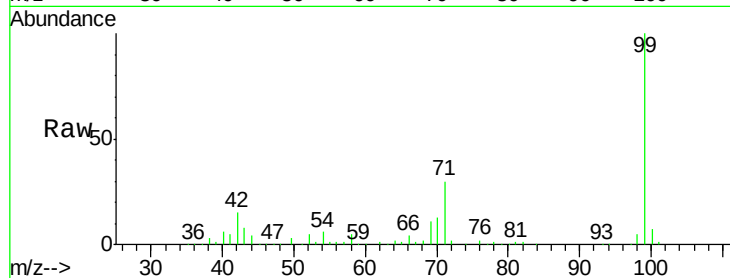
42 14.5 14.8 22.2#

71 30.1 26.6 39.8

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#10

Phenol

Concen: 2.29 ng

RT: 6.48 min Scan# 489

Delta R.T. -0.00 min

Lab File: BF078432.D

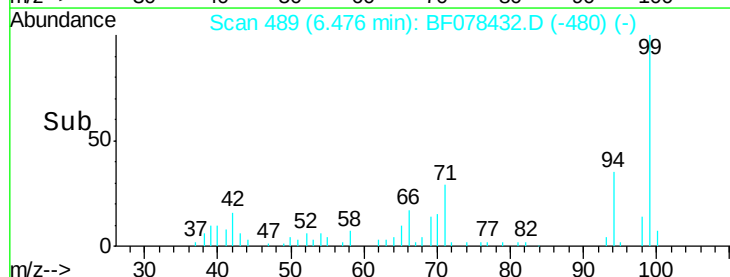
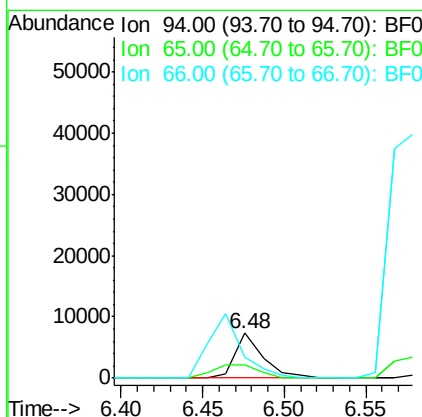
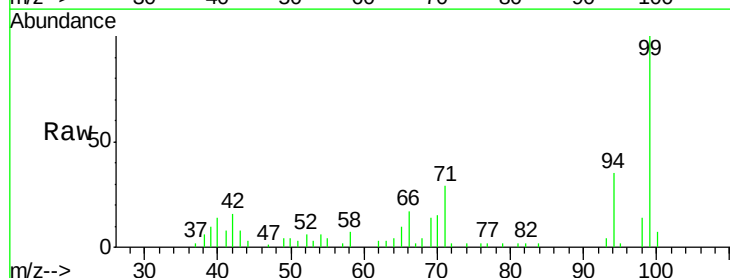
Acq: 11 Apr 2015 9:23

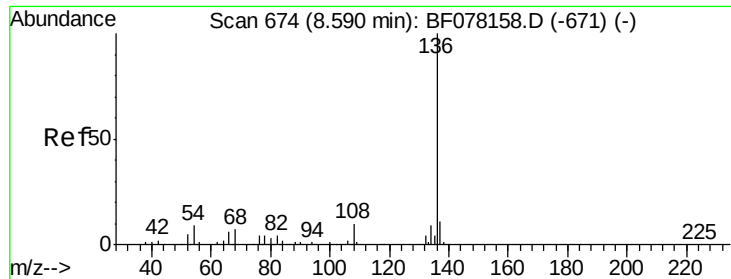
Tgt Ion: 94 Resp: 8457
Ion Ratio Lower Upper

94 100

65 28.4 4.9 44.9

66 47.2 13.8 53.8





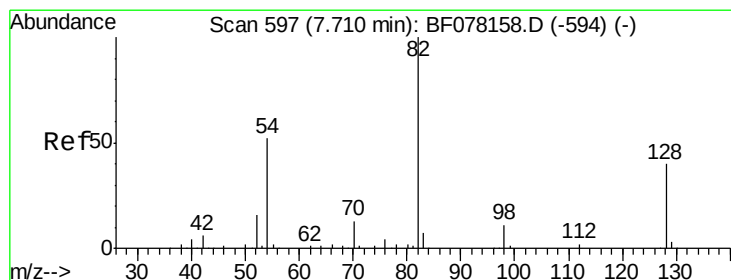
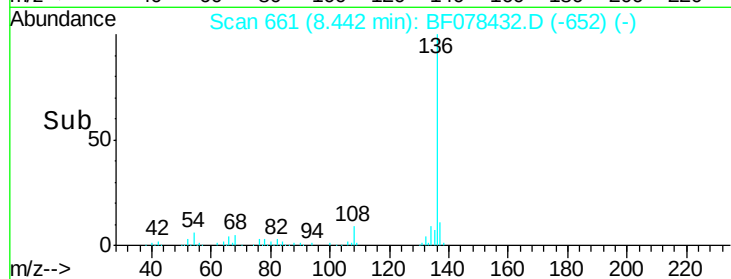
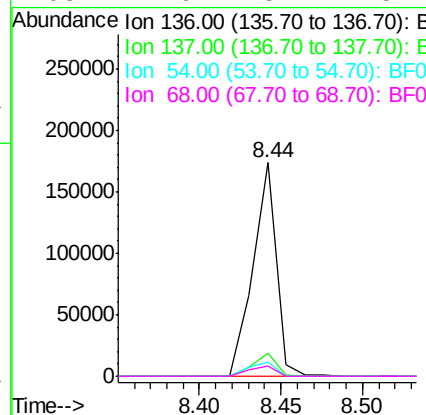
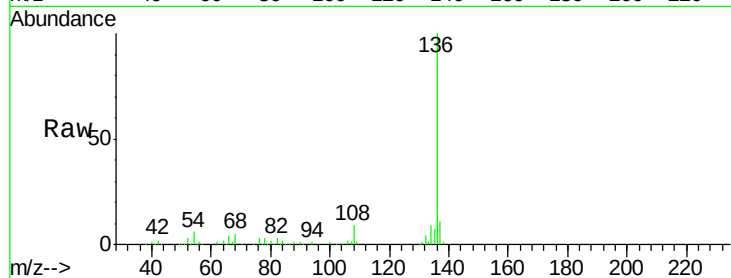
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.44 min Scan# 661
Delta R.T. -0.00 min
Lab File: BF078432.D
Acq: 11 Apr 2015 9:23

Instrument :
BNA_F
ClientSampled :
EP-2

Tgt Ion	Ratio	Resp Lower	Upper
136	100		
137	10.5	9.0	13.4
54	6.4	7.0	10.6#
68	4.9	5.4	8.2#

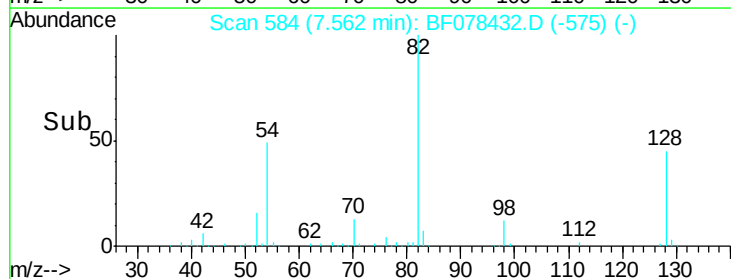
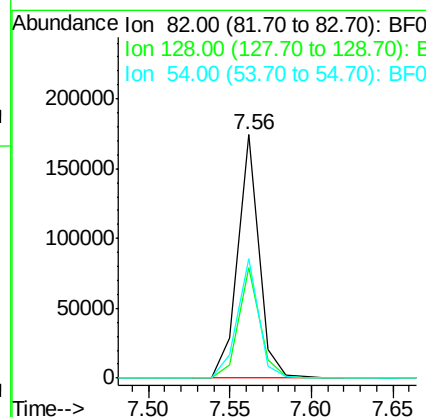
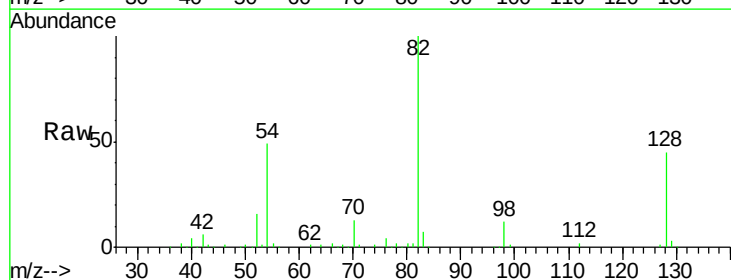
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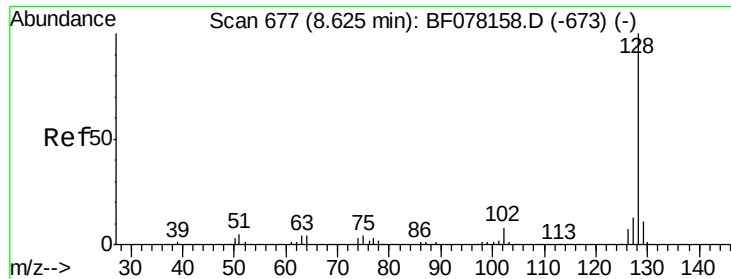
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#23
Nitrobenzene-d5
Concen: 55.28 ng
RT: 7.56 min Scan# 584
Delta R.T. -0.00 min
Lab File: BF078432.D
Acq: 11 Apr 2015 9:23

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	45.2	31.8	47.8
54	48.8	41.5	62.3





#31

Naphthalene

Concen: 6.17 ng

RT: 8.46 min Scan# 663

Delta R.T. -0.00 min

Lab File: BF078432.D

Acq: 11 Apr 2015 9:23

Instrument :

BNA_F

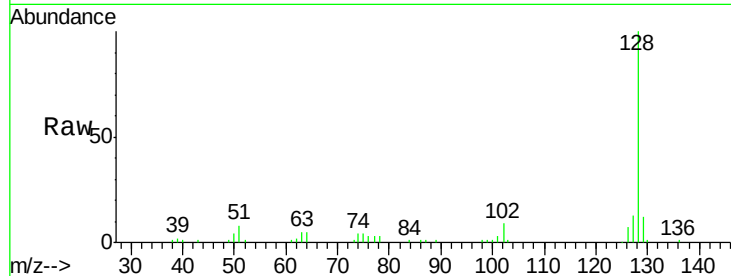
ClientSampleId :

EP-2

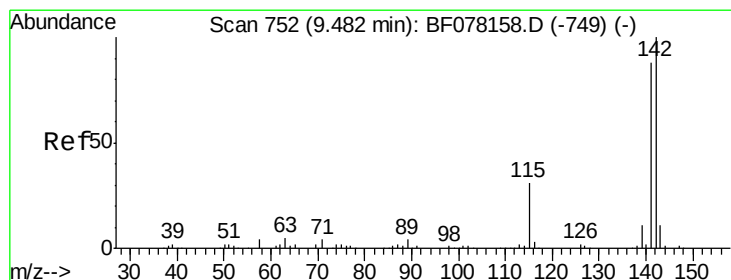
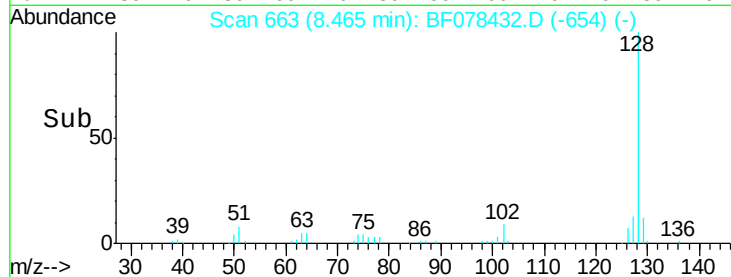
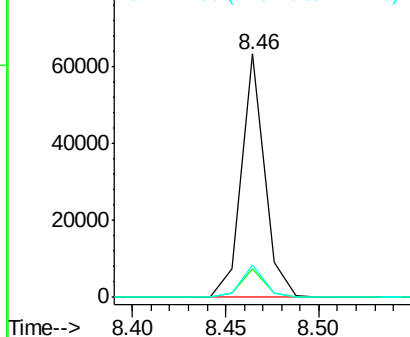
Tgt Ion:	128	Resp:	55089
Ion Ratio	Lower	Upper	
128	100		
129	11.5	8.6	12.8
127	13.1	10.7	16.1

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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



#37

2-Methylnaphthalene

Concen: 7.75 ng

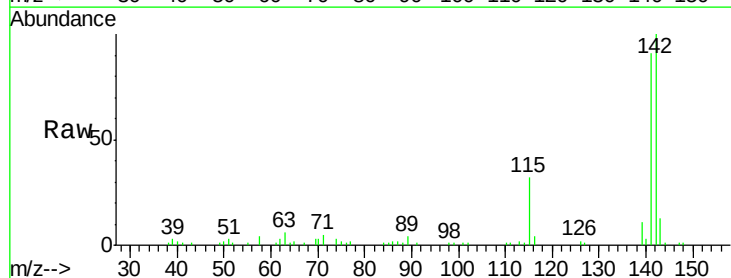
RT: 9.32 min Scan# 738

Delta R.T. -0.00 min

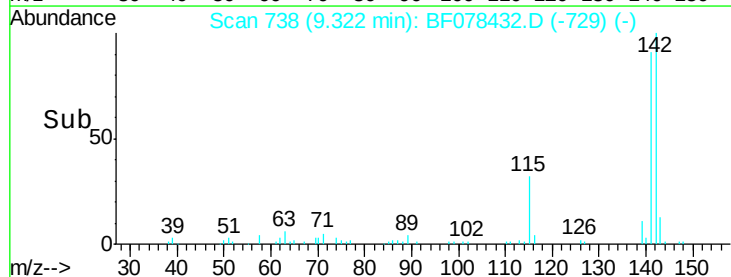
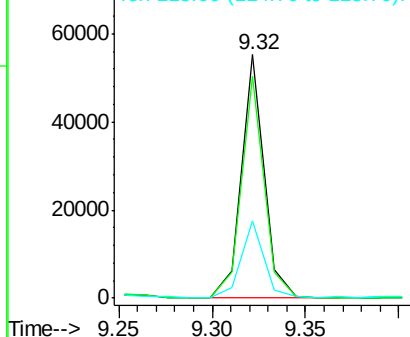
Lab File: BF078432.D

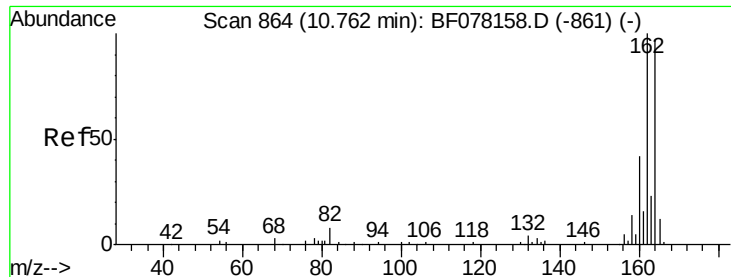
Acq: 11 Apr 2015 9:23

Tgt Ion:	142	Resp:	47005
Ion Ratio	Lower	Upper	
142	100		
141	91.3	70.3	105.5
115	31.7	24.6	37.0



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.59 min Scan# 849

Delta R.T. -0.00 min

Lab File: BF078432.D

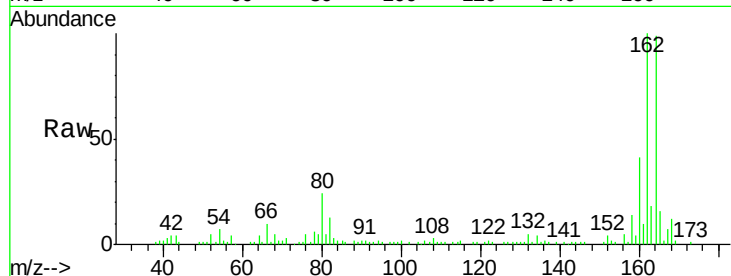
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Instrument :

BNA_F

ClientSampleId :

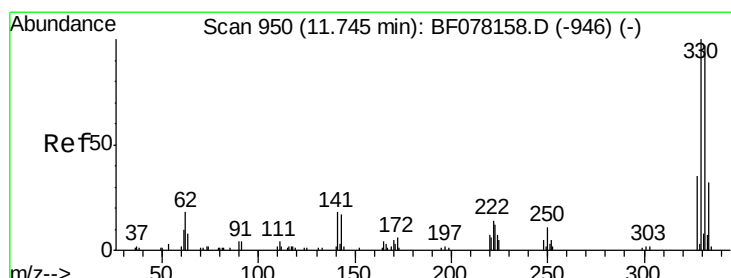
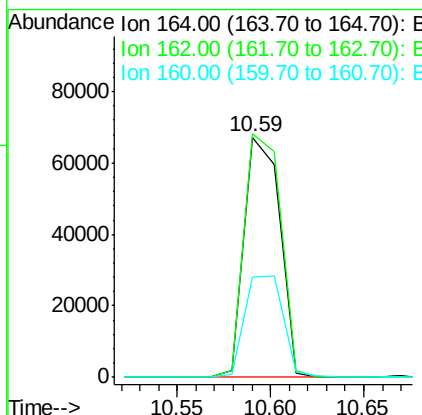
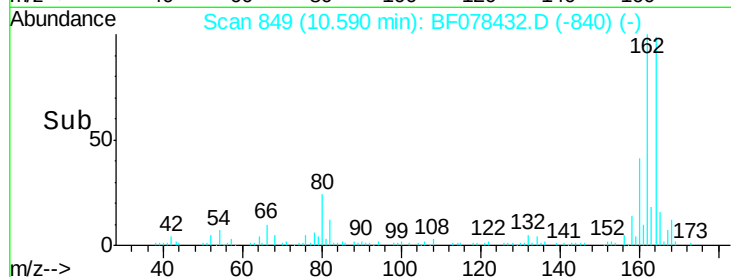
EP-2



Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.3	82.2	123.2	
160	41.9	34.7	52.1	

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#41

2,4,6-Tribromophenol

Concen: 93.37 ng

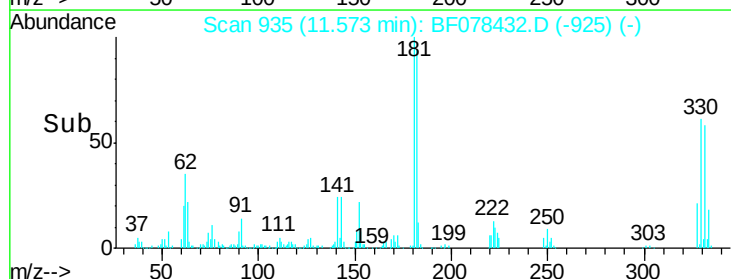
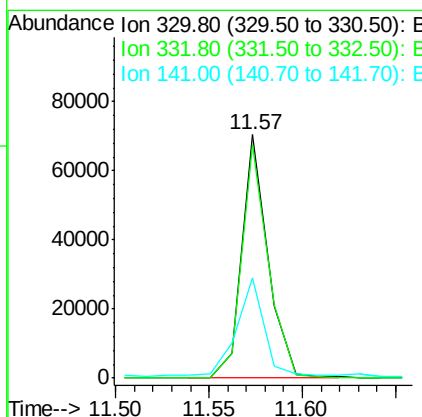
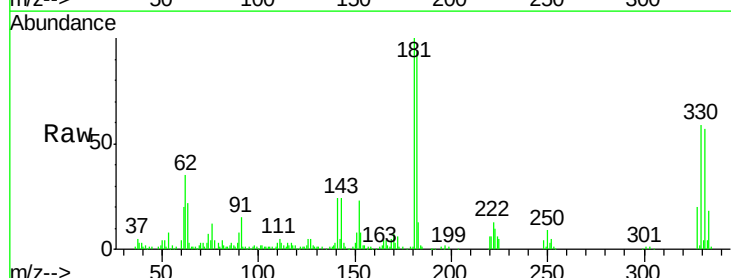
RT: 11.57 min Scan# 935

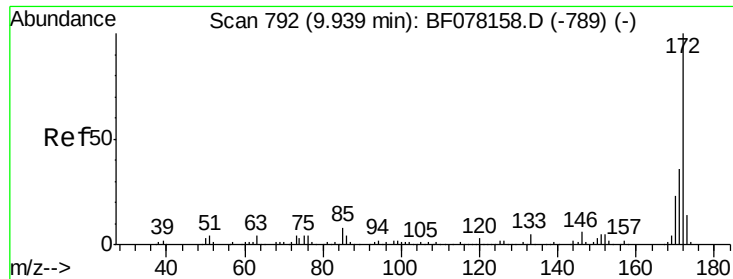
Delta R.T. 0.01 min

Lab File: BF078432.D

Acq: 11 Apr 2015 9:23

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.6	78.6	117.8	
141	42.3	31.2	46.8	





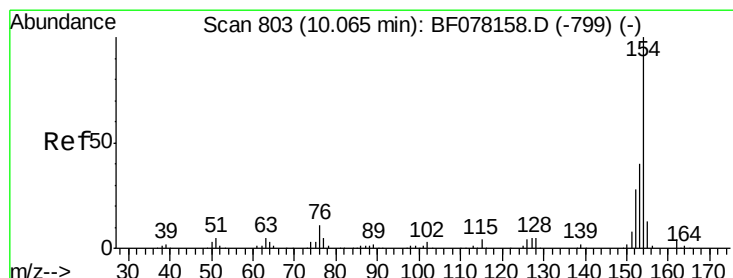
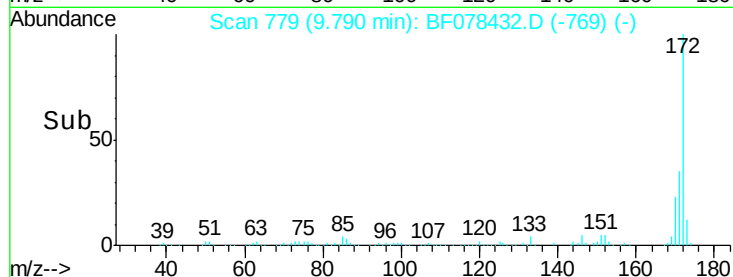
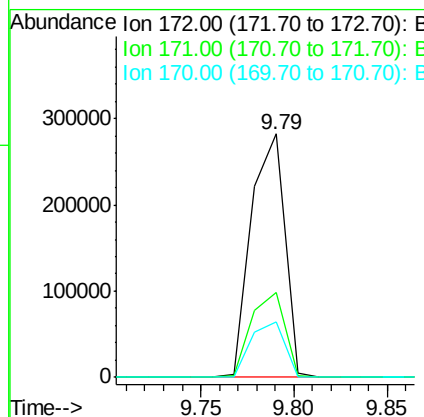
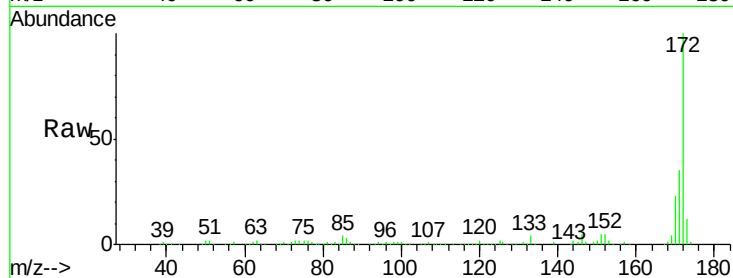
#44
 2-Fluorobiphenyl
 Concen: 56.51 ng
 RT: 9.79 min Scan# 779
 Delta R.T. 0.01 min
 Lab File: BF078432.D
 Acq: 11 Apr 2015 9:23

Instrument :
 BNA_F
 ClientSampleId :
 EP-2

Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	34.6	28.6	42.8
170	22.6	18.5	27.7

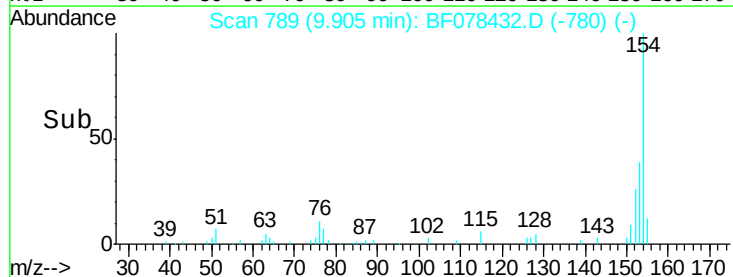
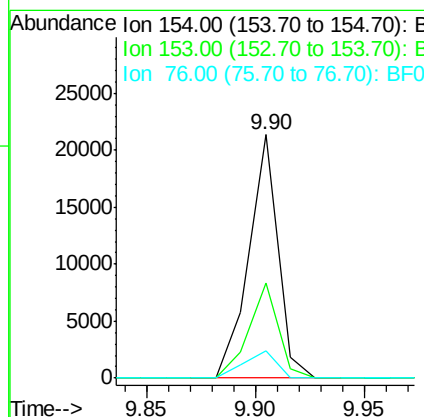
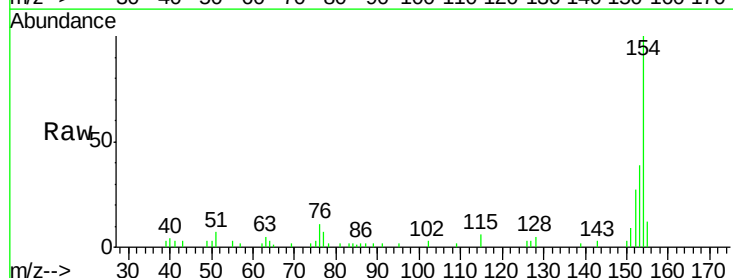
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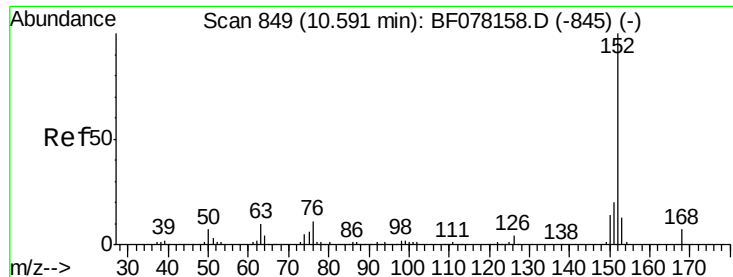
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#45
 1,1'-Biphenyl
 Concen: 2.73 ng
 RT: 9.90 min Scan# 789
 Delta R.T. -0.00 min
 Lab File: BF078432.D
 Acq: 11 Apr 2015 9:23

Tgt Ion	Ratio	Resp Lower	Resp Upper
154	100		
153	39.1	20.0	60.0
76	11.2	0.0	30.6





#48

Acenaphthylene

Concen: 24.85 ng

RT: 10.42 min Scan# 834

Delta R.T. -0.00 min

Lab File: BF078432.D

Acq: 11 Apr 2015 9:23

Instrument :

BNA_F

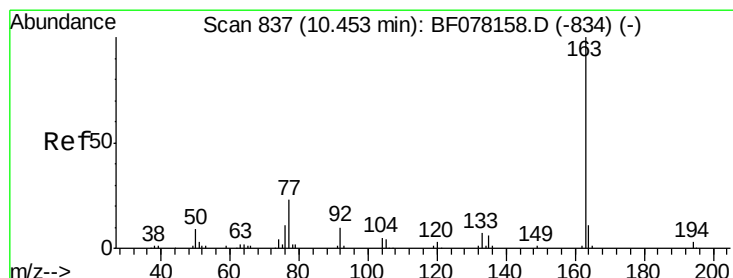
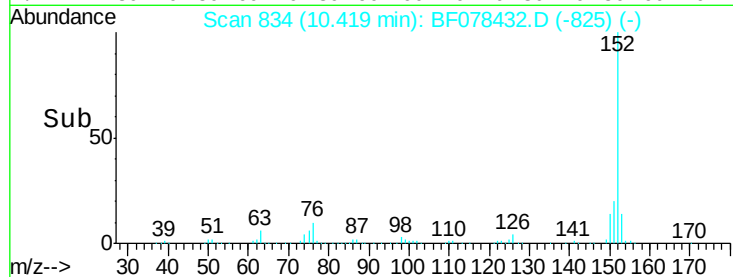
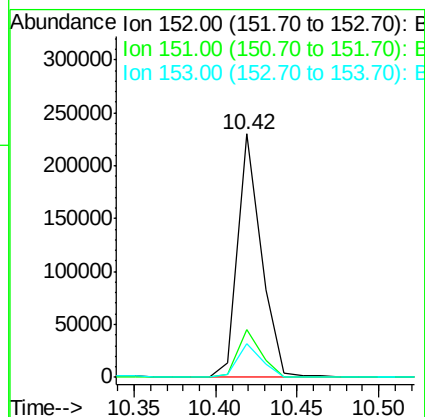
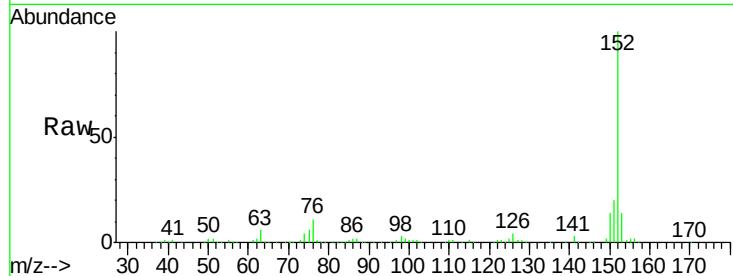
ClientSampleId :

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Tgt Ion:	152	Resp:	230044
Ion Ratio	Lower	Upper	
152	100		
151	19.6	15.7	23.5
153	13.8	10.2	15.2

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#49

Dimethylphthalate

Concen: 2.60 ng

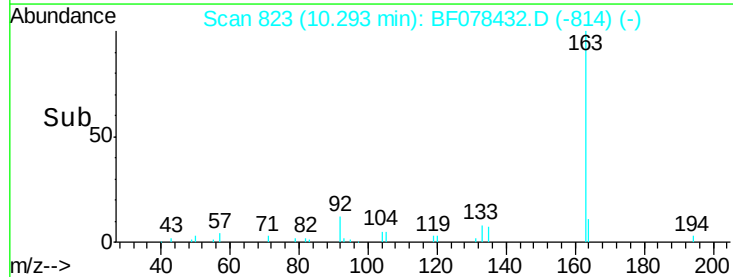
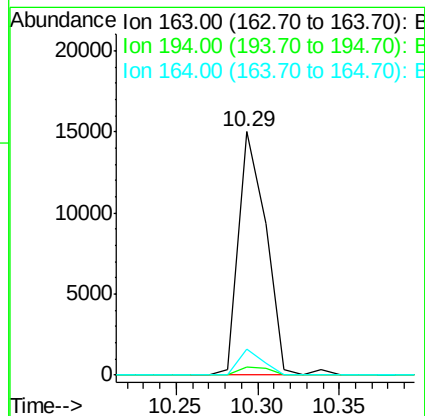
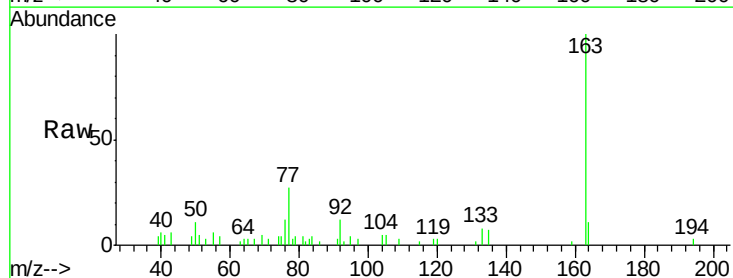
RT: 10.29 min Scan# 823

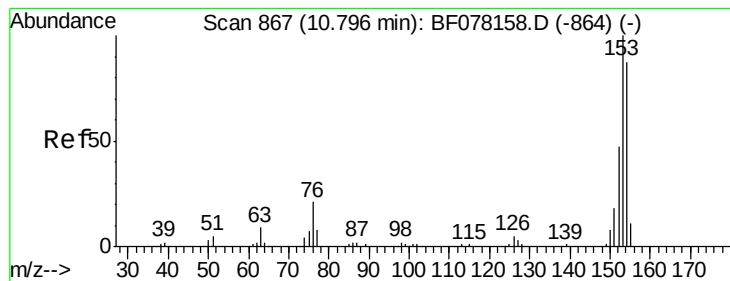
Delta R.T. -0.00 min

Lab File: BF078432.D

Acq: 11 Apr 2015 9:23

Tgt Ion:	163	Resp:	17405
Ion Ratio	Lower	Upper	
163	100		
194	3.3	2.3	3.5
164	10.7	8.6	13.0





#51

Acenaphthene

Concen: 25.55 ng

RT: 10.64 min Scan# 853

Delta R.T. -0.00 min

Lab File: BF078432.D

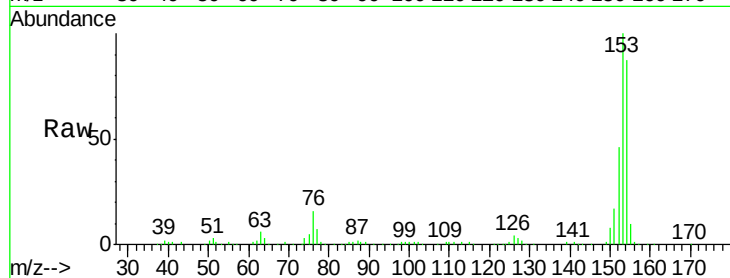
Acq: 11 Apr 2015 9:23

Instrument :

BNA_F

ClientSampleId :

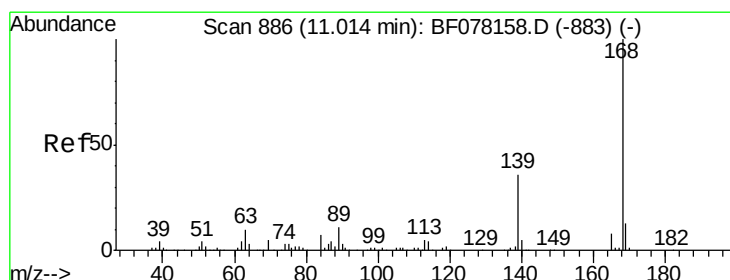
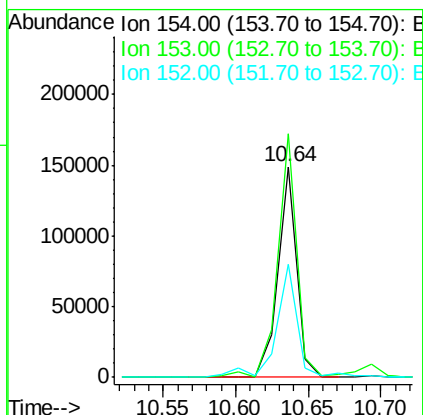
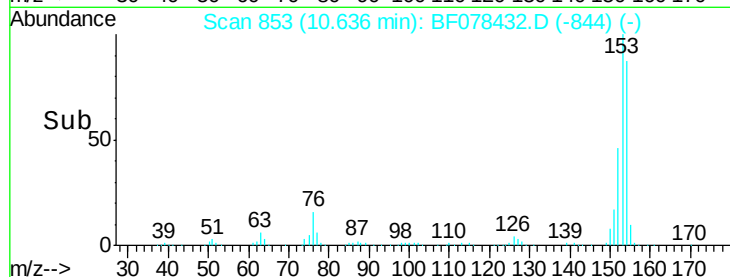
EP-2



Tgt Ion:	154	Resp:	133144
Ion Ratio	Lower	Upper	
154	100		
153	115.5	91.4	137.2
152	53.5	43.0	64.6

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#54

Dibenzofuran

Concen: 24.62 ng

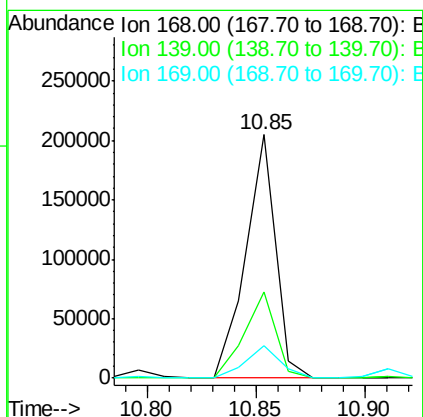
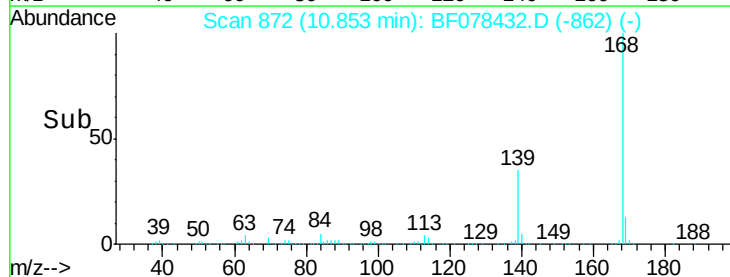
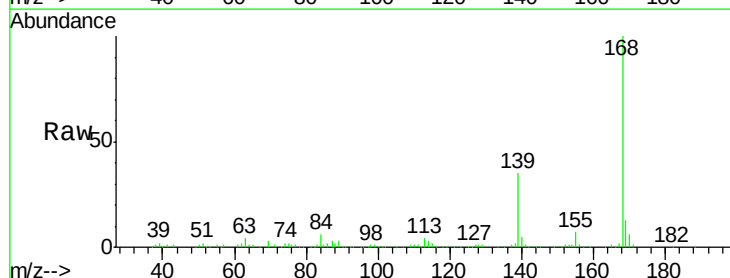
RT: 10.85 min Scan# 872

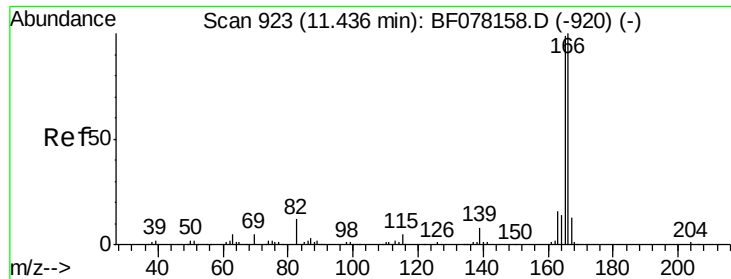
Delta R.T. 0.01 min

Lab File: BF078432.D

Acq: 11 Apr 2015 9:23

Tgt Ion:	168	Resp:	195952
Ion Ratio	Lower	Upper	
168	100		
139	35.5	31.0	46.4
169	13.1	10.7	16.1





#57

Fluorene

Concen: 33.84 ng

RT: 11.28 min Scan# 909

Delta R.T. 0.01 min

Lab File: BF078432.D

Acq: 11 Apr 2015 9:23

Instrument :

BNA_F

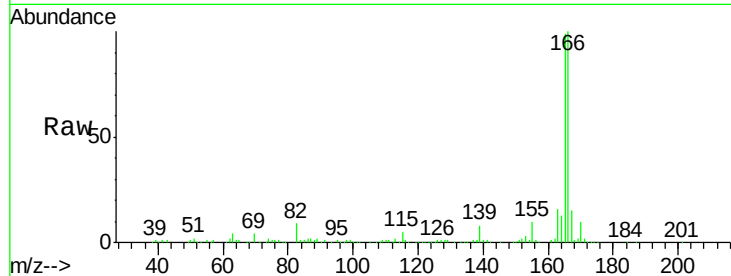
ClientSampled :

EP-2

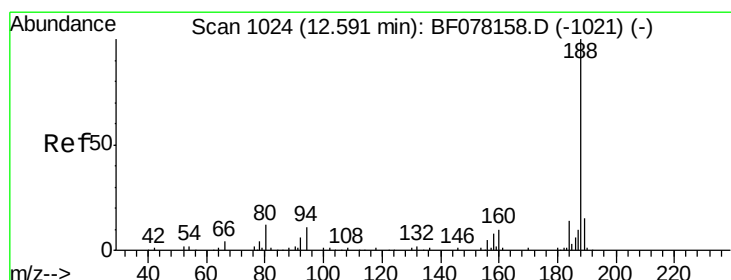
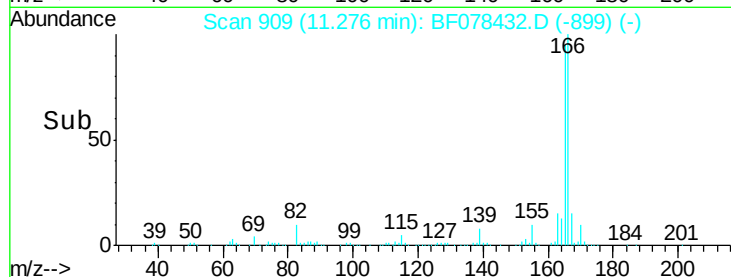
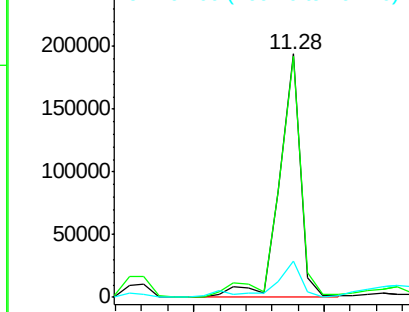
Tgt Ion:	166	Resp:	218328
Ion Ratio		Lower	Upper
166	100		
165	98.8	78.9	118.3
167	15.0	10.7	16.1

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Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.43 min Scan# 1010

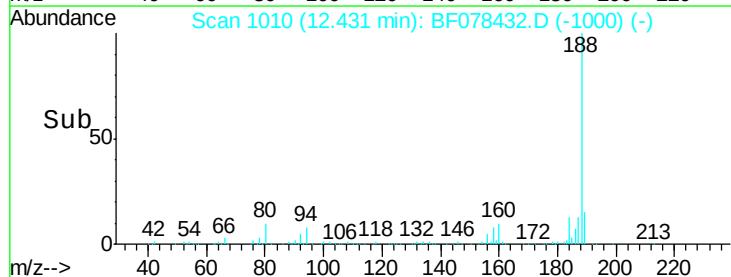
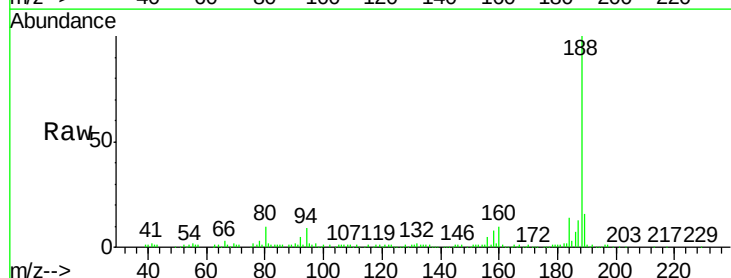
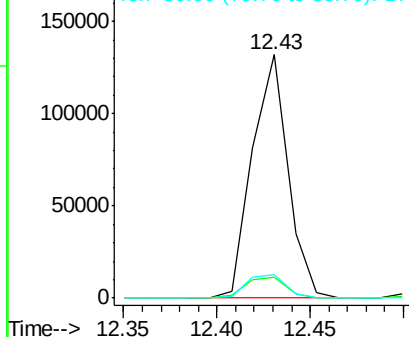
Delta R.T. 0.01 min

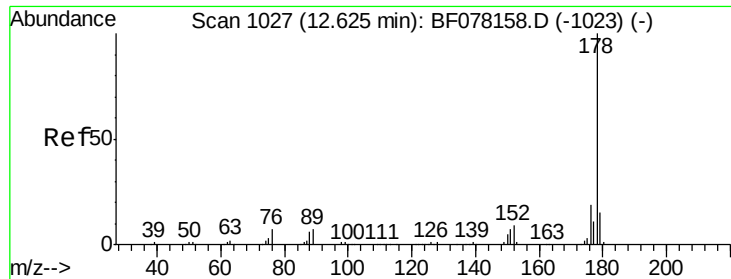
Lab File: BF078432.D

Acq: 11 Apr 2015 9:23

Tgt Ion:	188	Resp:	174449
Ion Ratio		Lower	Upper
188	100		
94	8.7	9.0	13.4#
80	9.6	9.5	14.3

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





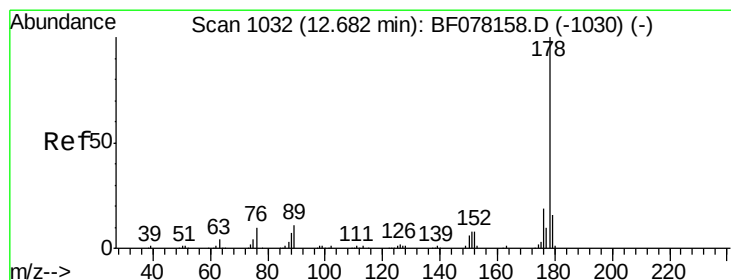
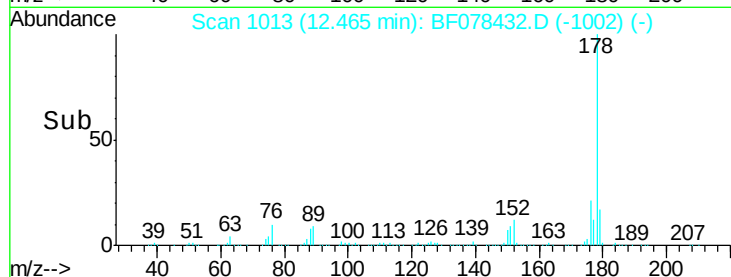
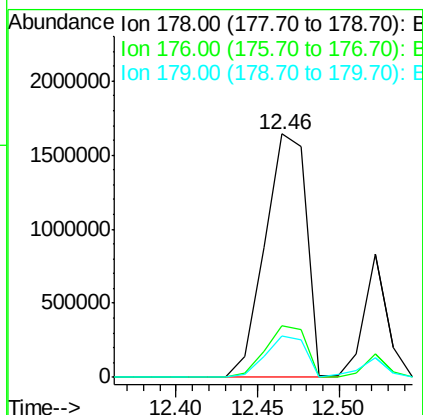
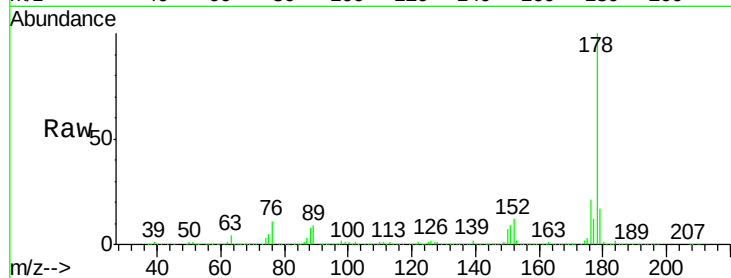
#70
Phenanthrene
Concen: 287.85 ng
RT: 12.46 min Scan# 1013
Delta R.T. 0.02 min
Lab File: BF078432.D
Acq: 11 Apr 2015 9:23

Instrument :
BNA_F
ClientSampled :
EP-2

Tgt Ion:178 Resp: 2904676
Ion Ratio Lower Upper
178 100
176 21.2 15.4 23.0
179 16.9 12.2 18.2

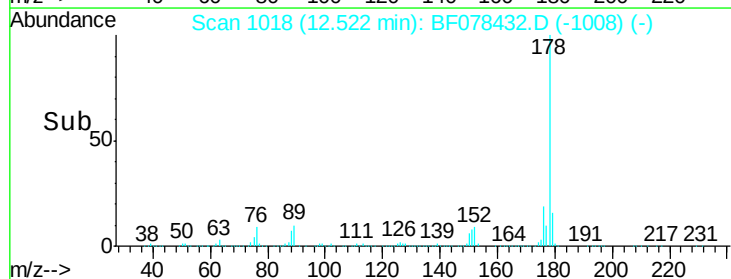
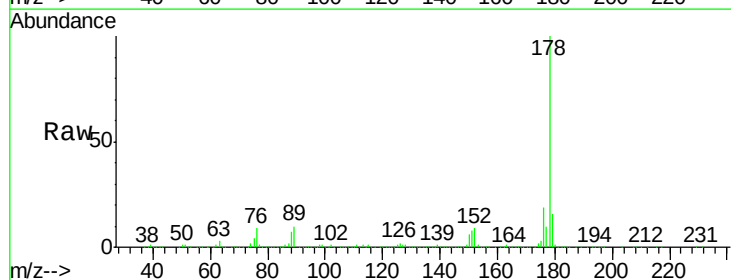
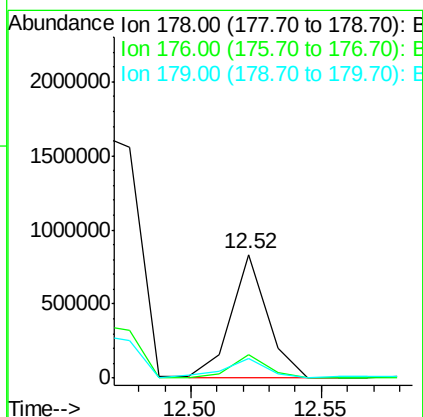
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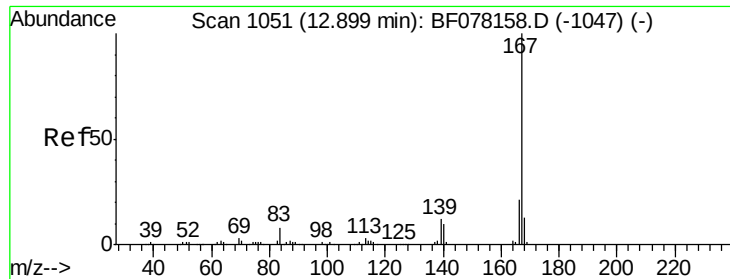
apatel
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#71
Anthracene
Concen: 80.99 ng
RT: 12.52 min Scan# 1018
Delta R.T. 0.01 min
Lab File: BF078432.D
Acq: 11 Apr 2015 9:23

Tgt Ion:178 Resp: 805321
Ion Ratio Lower Upper
178 100
176 19.4 14.8 22.2
179 16.3 12.4 18.6





#72

Carbazole

Concen: 17.21 ng

RT: 12.73 min Scan# 1036

Delta R.T. -0.00 min

Lab File: BF078432.D

Acq: 11 Apr 2015 9:23

Instrument :

BNA_F

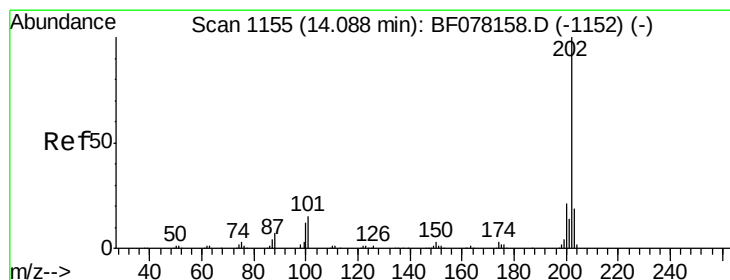
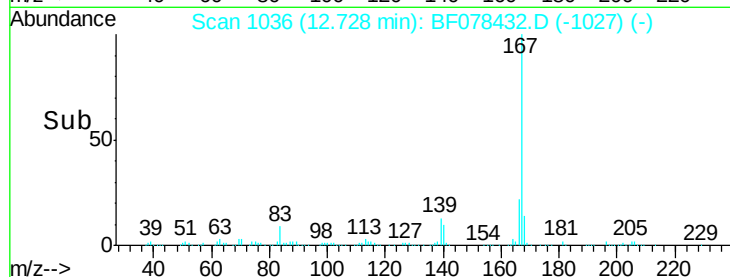
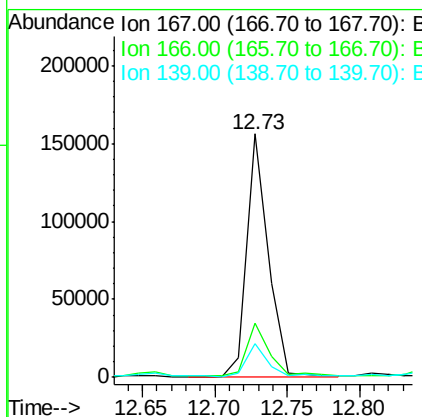
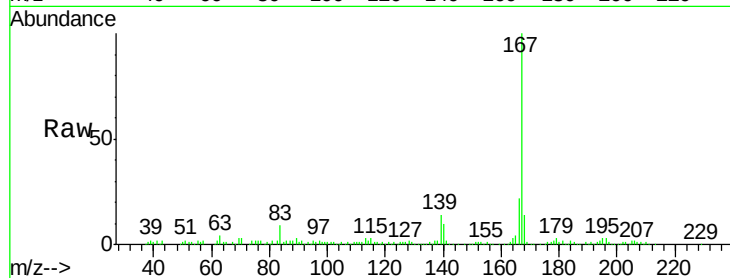
ClientSampleId :

EP-2

Tgt Ion:	167	Resp:	160335
Ion Ratio	Lower	Upper	
167	100		
166	22.2	16.8	25.2
139	13.8	10.0	15.0

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#74

Fluoranthene

Concen: 290.72 ng

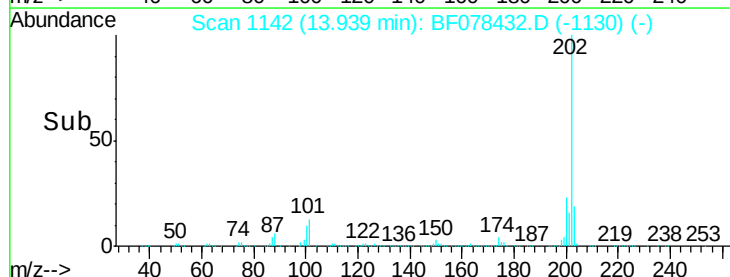
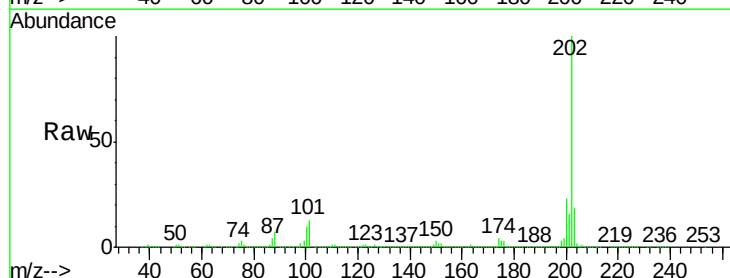
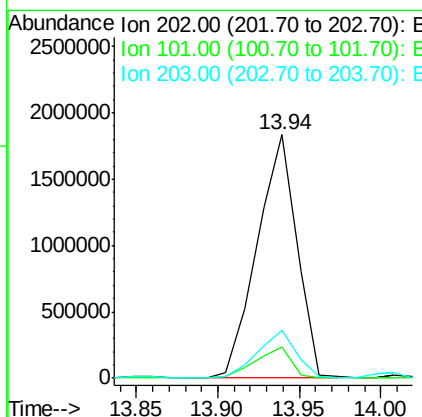
RT: 13.94 min Scan# 1142

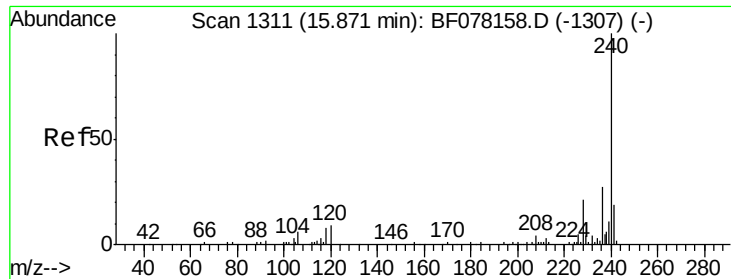
Delta R.T. 0.03 min

Lab File: BF078432.D

Acq: 11 Apr 2015 9:23

Tgt Ion:	202	Resp:	3093773
Ion Ratio	Lower	Upper	
202	100		
101	12.9	0.0	35.2
203	19.4	0.0	38.5





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.70 min Scan# 1296

Delta R.T. 0.02 min

Lab File: BF078432.D

Acq: 11 Apr 2015 9:23

Instrument :

BNA_F

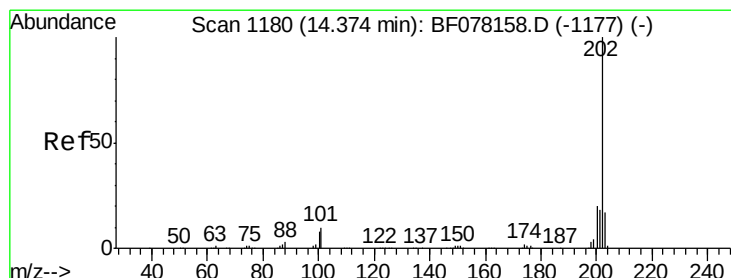
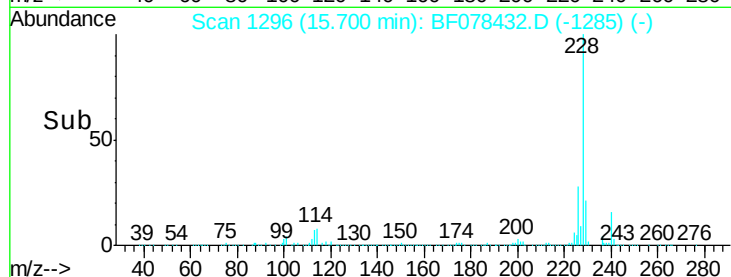
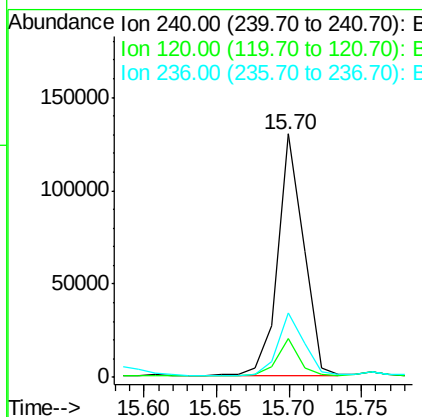
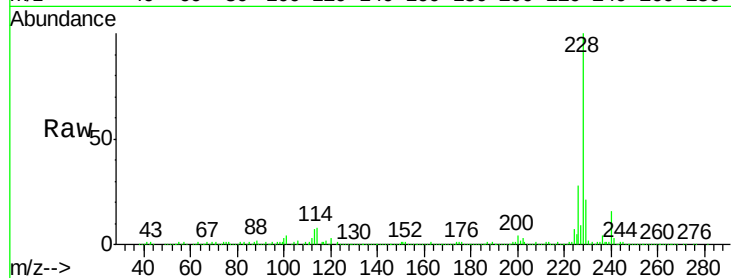
ClientSampleId :

EP-2

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	161394		
120	15.8	7.1	10.7#	
236	26.4	21.4	32.2	

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#77

Pyrene

Concen: 278.64 ng

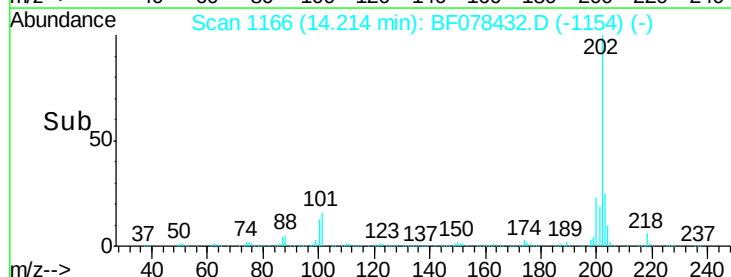
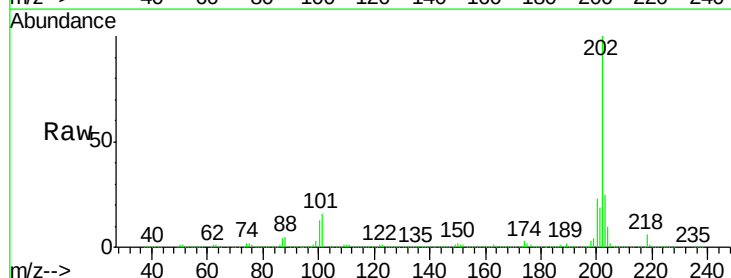
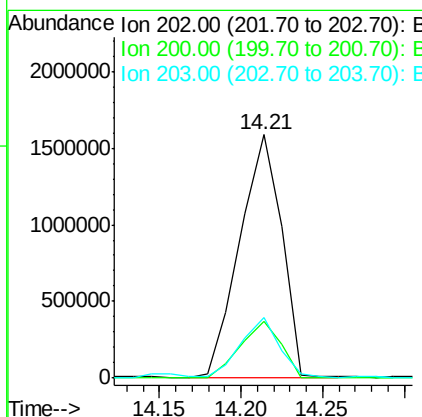
RT: 14.21 min Scan# 1166

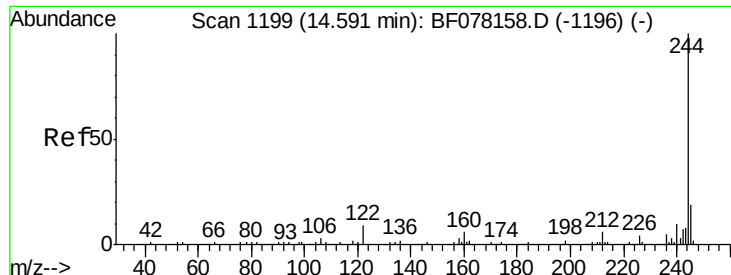
Delta R.T. 0.03 min

Lab File: BF078432.D

Acq: 11 Apr 2015 9:23

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	2823107		
200	23.2	16.3	24.5	
203	24.8	13.8	20.6#	





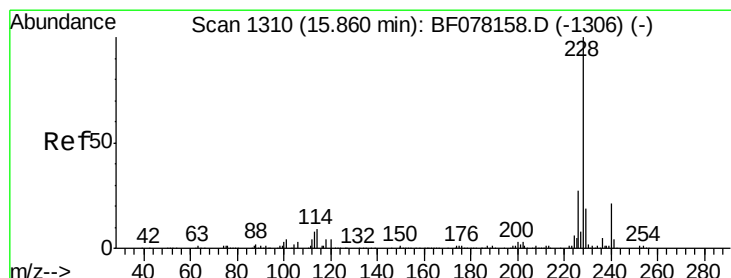
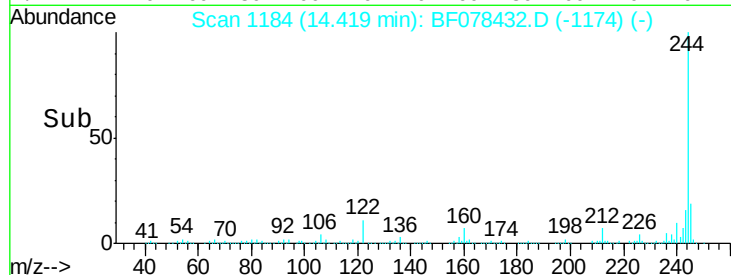
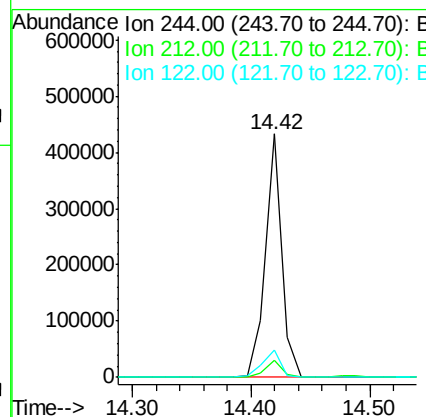
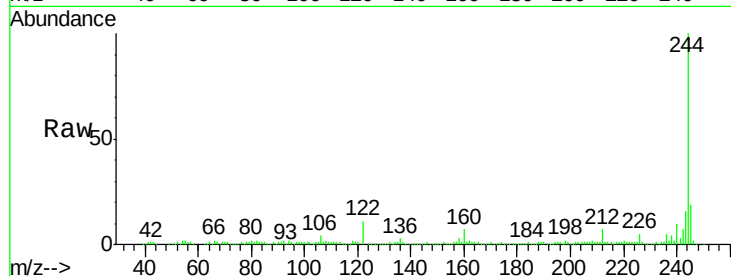
#78
 Terphenyl-d14
 Concen: 58.87 ng
 RT: 14.42 min Scan# 1184
 Delta R.T. 0.01 min
 Lab File: BF078432.D
 Acq: 11 Apr 2015 9:23

Instrument :
 BNA_F
 ClientSampled :
 EP-2

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	7.0	5.0	7.4
122	11.1	7.1	10.7

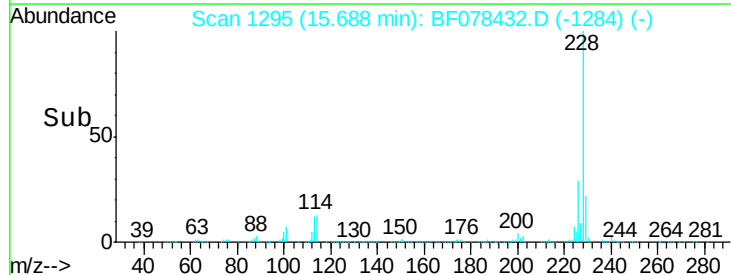
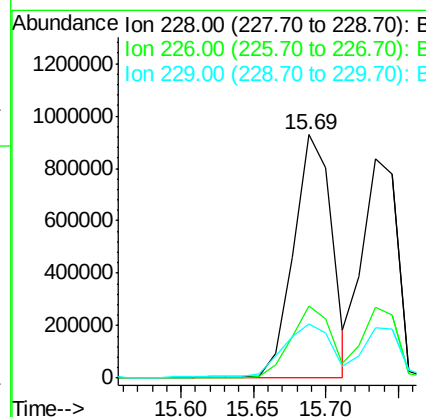
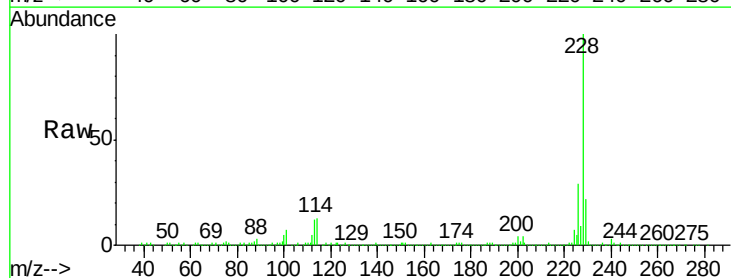
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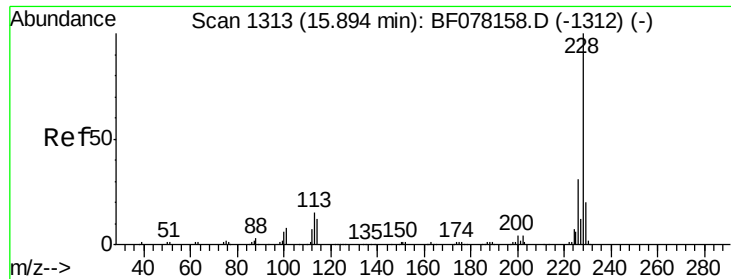
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#80
 Benzo(a)anthracene
 Concen: 176.01 ng
 RT: 15.69 min Scan# 1295
 Delta R.T. 0.02 min
 Lab File: BF078432.D
 Acq: 11 Apr 2015 9:23

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	29.4	21.3	31.9
229	22.2	15.4	23.2





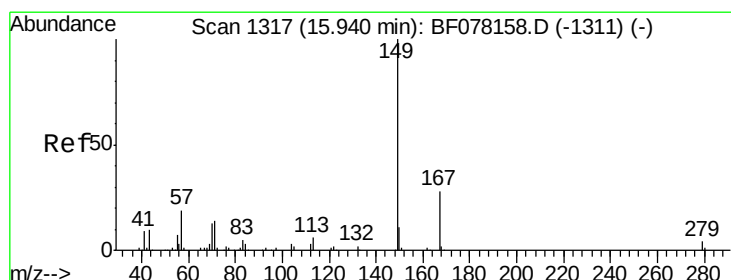
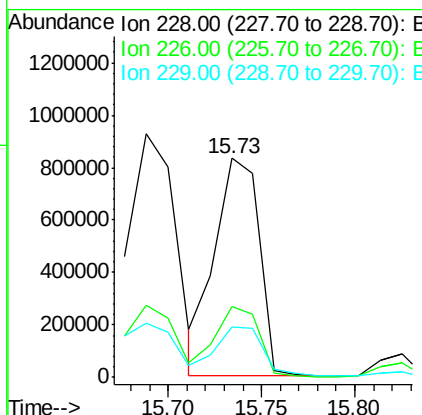
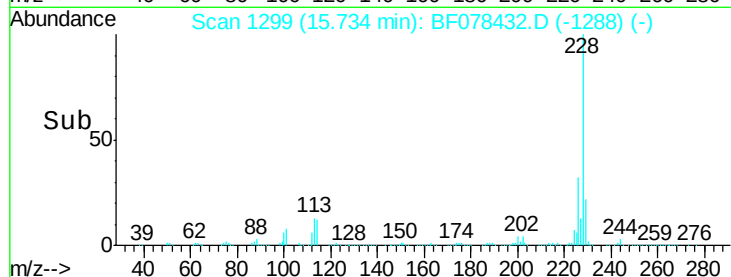
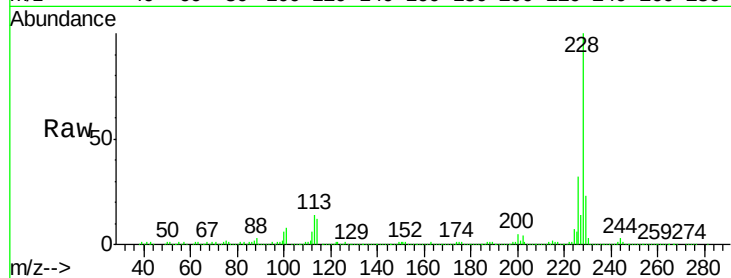
#82
Chrysene
Concen: 153.31 ng
RT: 15.73 min Scan# 1299
Delta R.T. 0.02 min
Lab File: BF078432.D
Acq: 11 Apr 2015 9:23

Instrument :
BNA_F
ClientSampleId :
EP-2

Tgt Ion: 228 Resp: 1383160
Ion Ratio Lower Upper
228 100
226 32.2 24.2 36.4
229 23.0 15.8 23.8

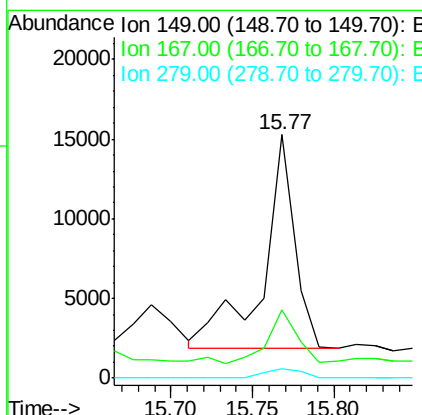
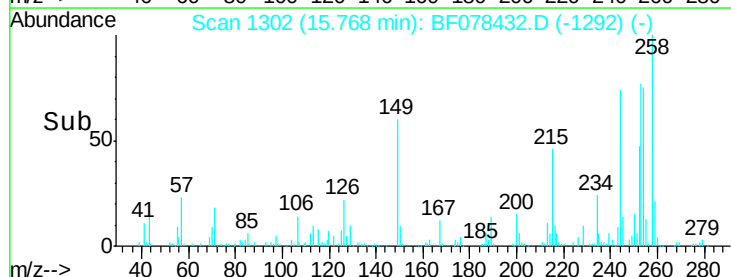
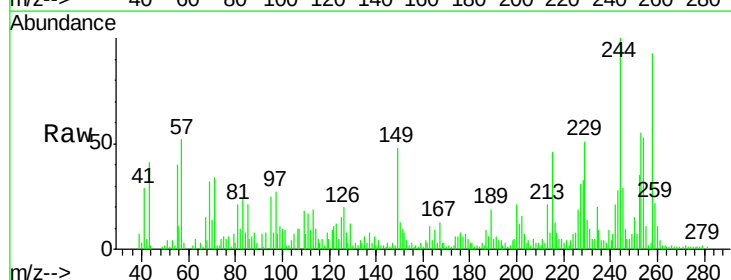
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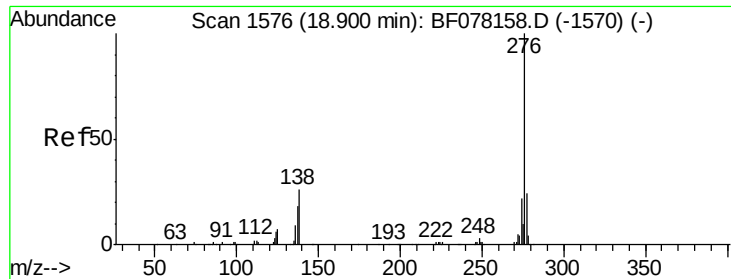
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#83
Bis(2-ethylhexyl)phthalate
Concen: 3.02 ng
RT: 15.77 min Scan# 1302
Delta R.T. 0.01 min
Lab File: BF078432.D
Acq: 11 Apr 2015 9:23

Tgt Ion: 149 Resp: 18317
Ion Ratio Lower Upper
149 100
167 28.2 22.2 33.2
279 3.7 3.2 4.8





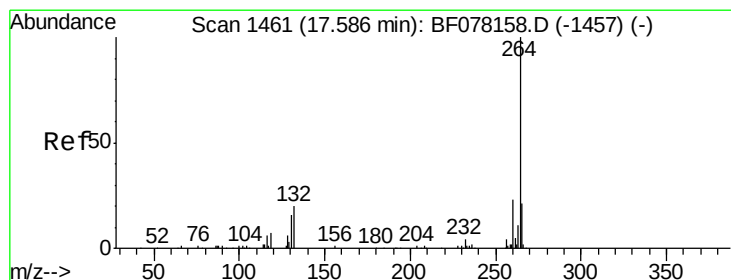
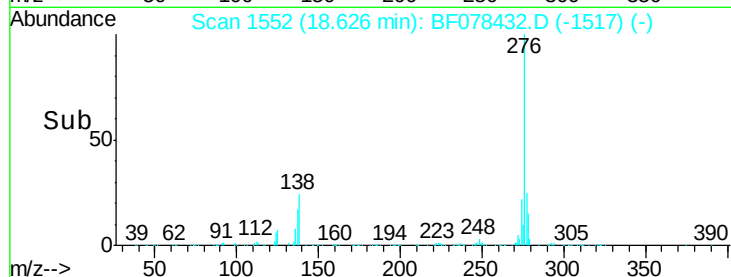
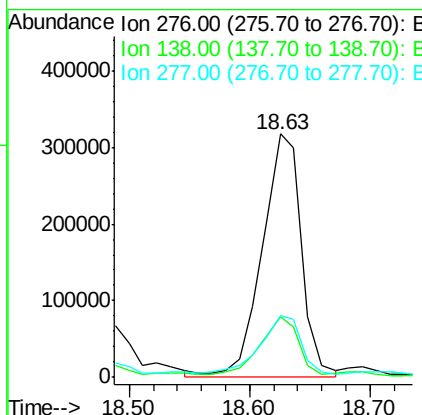
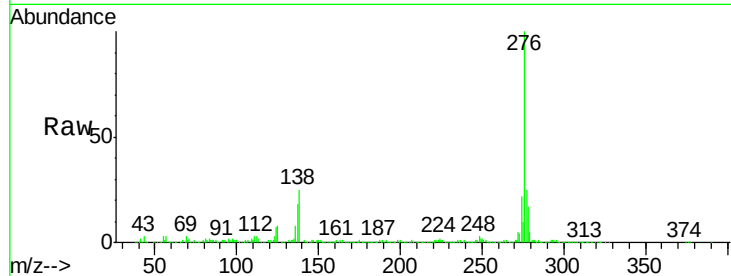
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 70.89 ng m
 RT: 18.63 min Scan# 1552
 Delta R.T. 0.10 min
 Lab File: BF078432.D
 Acq: 11 Apr 2015 9:23

Instrument :
 BNA_F
 ClientSampleId :
 EP-2

Tgt Ion	Ratio	Lower	Upper
276	100		
138	5.1	16.9	25.3#
277	5.1	15.8	23.6#

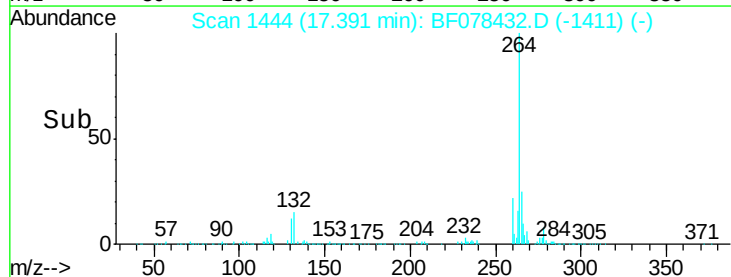
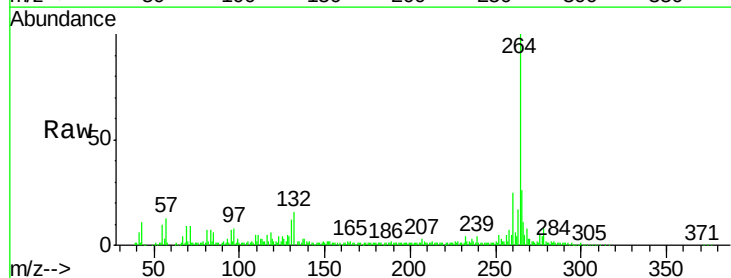
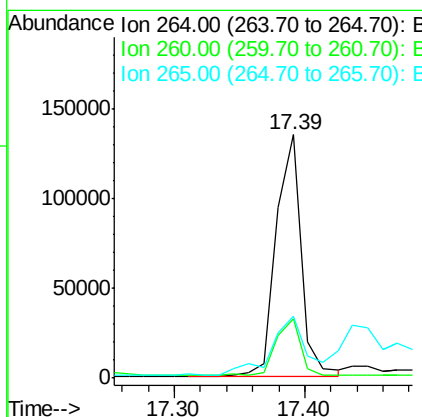
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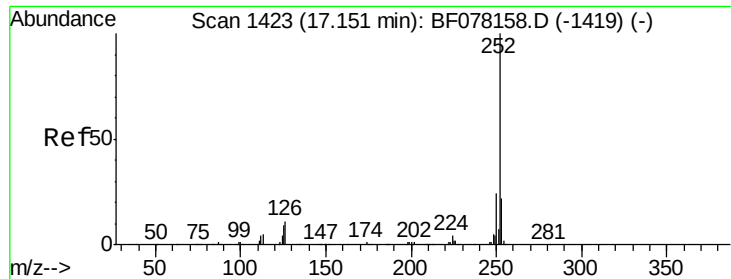
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 17.39 min Scan# 1444
 Delta R.T. 0.08 min
 Lab File: BF078432.D
 Acq: 11 Apr 2015 9:23

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	18.6	27.8
265	25.5	17.0	25.6





#87

Benzo(b)fluoranthene

Concen: 151.13 ng m

RT: 16.98 min Scan# 1408

Delta R.T. 0.07 min

Lab File: BF078432.D

Acq: 11 Apr 2015 9:23

Instrument :

BNA_F

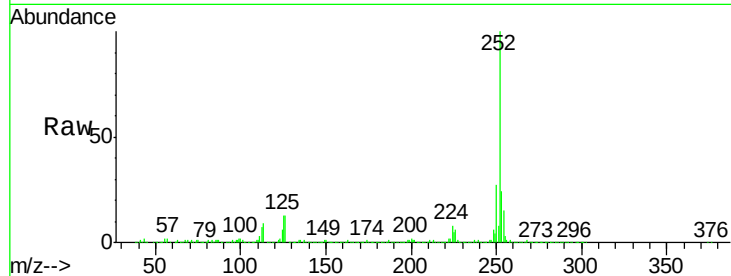
ClientSampleId :

EP-2

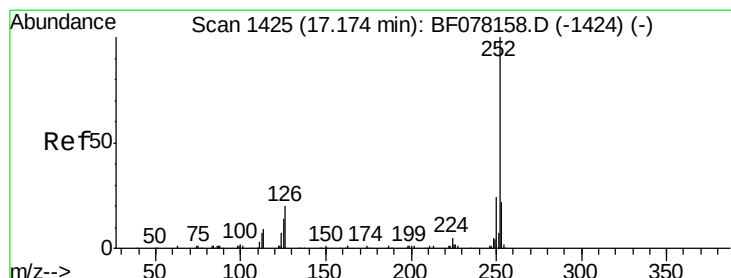
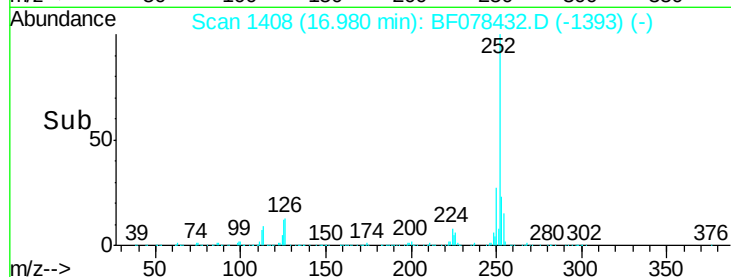
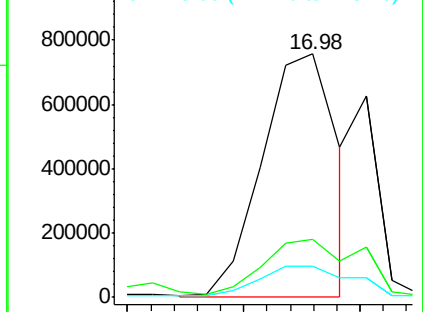
Tgt Ion:	252	Resp:	1698569
Ion Ratio	Lower	Upper	
252	100		
253	23.7	17.2	25.8
125	12.7	7.0	10.4#

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



#88

Benzo(k)fluoranthene

Concen: 47.51 ng m

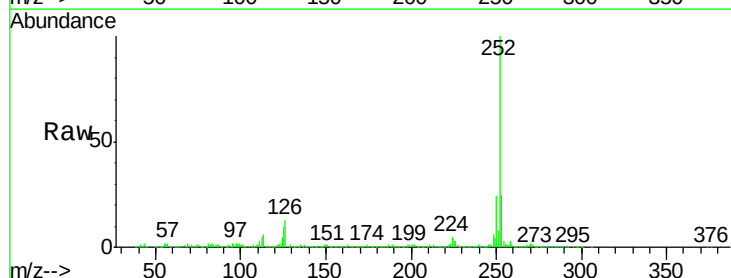
RT: 17.00 min Scan# 1410

Delta R.T. 0.07 min

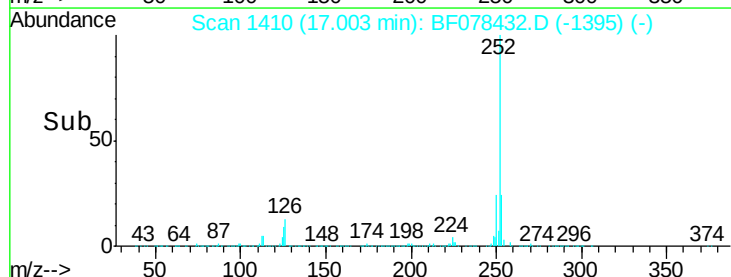
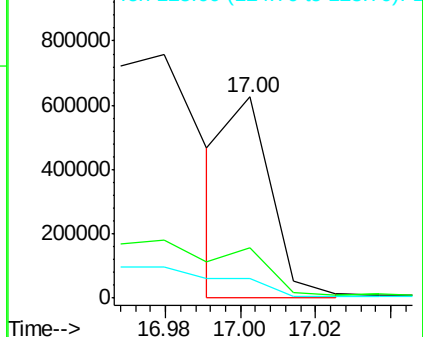
Lab File: BF078432.D

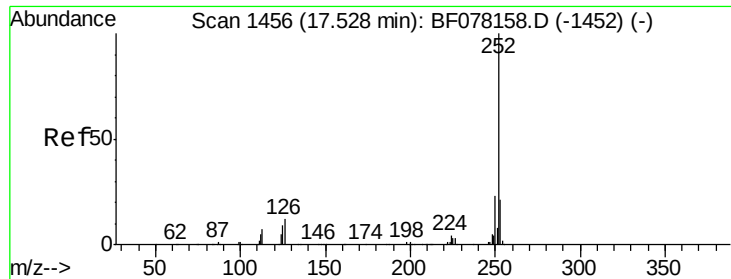
Acq: 11 Apr 2015 9:23

Tgt Ion:	252	Resp:	474520
Ion Ratio	Lower	Upper	
252	100		
253	24.8	17.5	26.3
125	9.7	11.6	17.4#



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





#89

Benzo(a)pyrene

Concen: 115.81 ng

RT: 17.33 min Scan# 1439

Delta R.T. 0.08 min

Lab File: BF078432.D

Acq: 11 Apr 2015 9:23

Instrument :

BNA_F

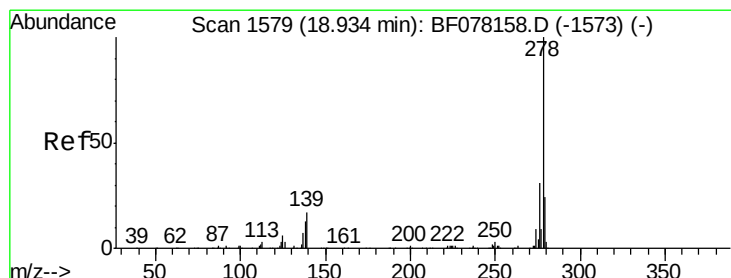
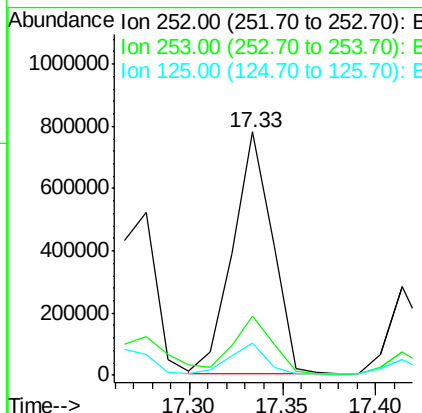
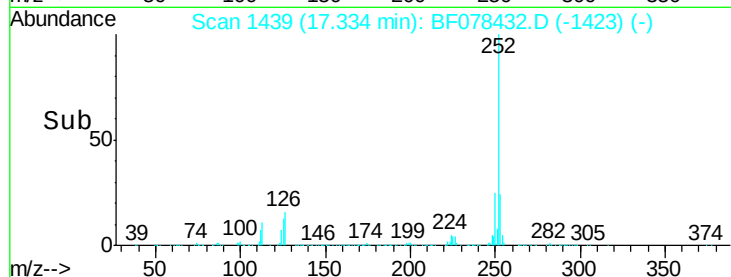
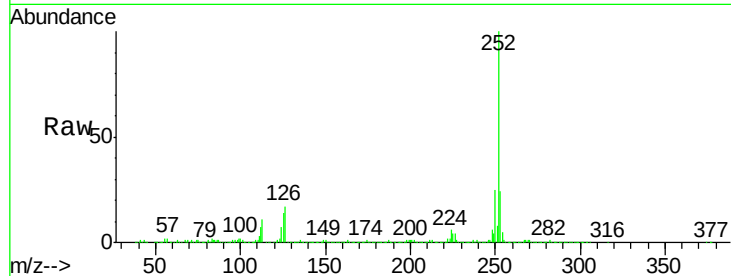
ClientSampled :

EP-2

Tgt Ion:	252	Resp:	1135956
Ion Ratio	Lower	Upper	
252	100		
253	24.5	16.8	25.2
125	13.5	7.4	11.0#

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#90

Dibenzo(a,h)anthracene

Concen: 19.64 ng

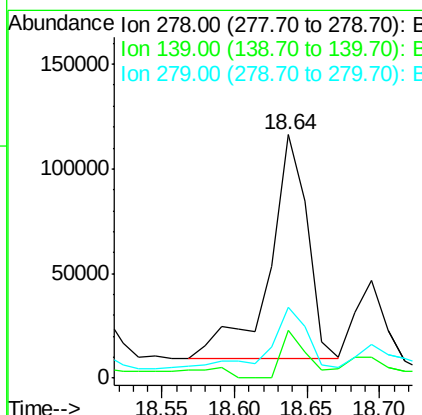
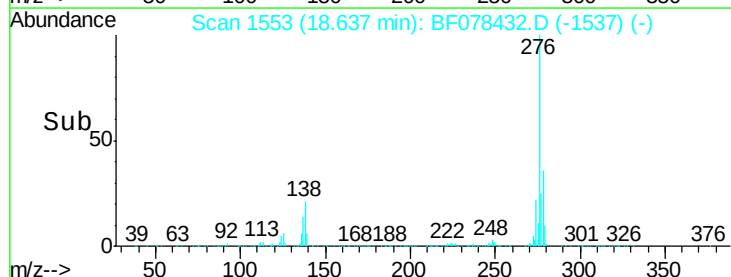
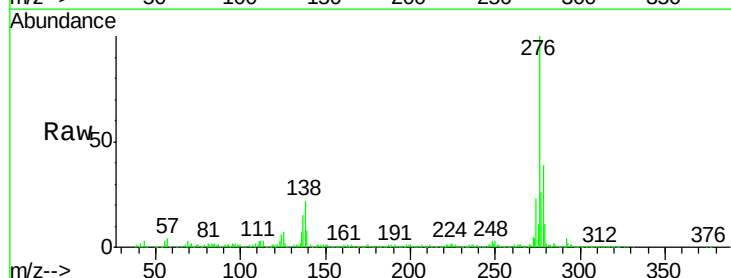
RT: 18.64 min Scan# 1553

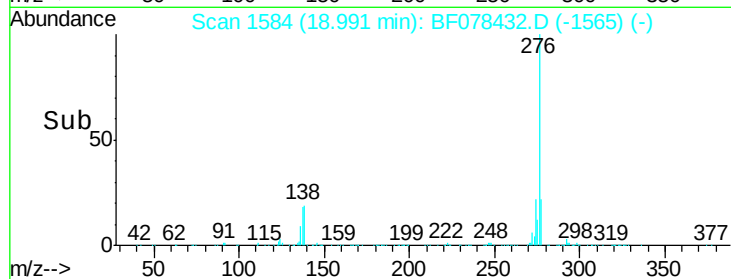
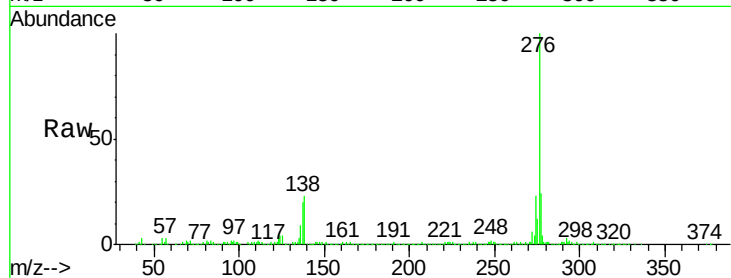
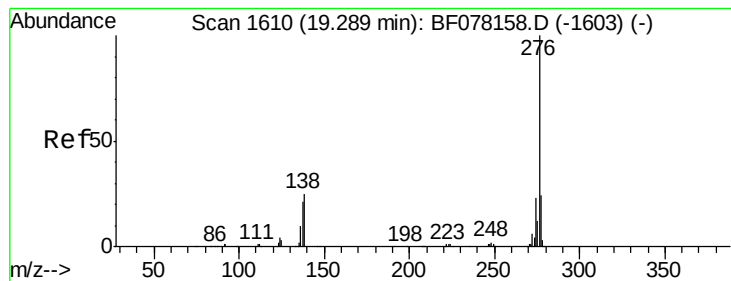
Delta R.T. 0.08 min

Lab File: BF078432.D

Acq: 11 Apr 2015 9:23

Tgt Ion:	278	Resp:	192858
Ion Ratio	Lower	Upper	
278	100		
139	19.8	13.6	20.4
279	29.0	19.0	28.6#





#91

Benzo(g,h,i)perylene

Concen: 62.28 ng

RT: 18.99 min Scan# 1584

Delta R.T. 0.11 min

Lab File: BF078432.D

Acq: 11 Apr 2015 9:23

Tgt	Ion	276	Resp:	613193
Ion	Ratio	100	Lower	Upper
276	100			
277	24.3	19.0	28.4	
138	22.6	19.9	29.9	

Instrument :

BNA_F

ClientSampleId :

EP-2

Manual Integrations
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