

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041015\
 Data File : BF078423.D
 Acq On : 11 Apr 2015 5:05
 Operator : TP/IZ
 Sample : G1823-07
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-4

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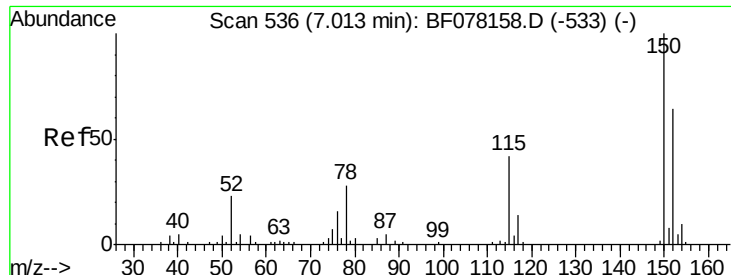
Quant Time: Apr 11 05:14:16 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Apr 11 04:47:05 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	32667	20.00	ng	0.00
21) Naphthalene-d8	8.43	136	138252	20.00	ng	-0.01
38) Acenaphthene-d10	10.59	164	75510	20.00	ng	0.00
63) Phenanthrene-d10	12.42	188	151721	20.00	ng	0.00
75) Chrysene-d12	15.69	240	134055	20.00	ng	0.01
86) Perylene-d12	17.36	264	162331	20.00	ng	0.05

System Monitoring Compounds						
5) 2-Fluorophenol	5.10	112	177016	89.34	ng	0.00
7) Phenol-d6	6.45	99	235996	95.04	ng	0.00
23) Nitrobenzene-d5	7.56	82	138997	60.94	ng	0.00
41) 2,4,6-Tribromophenol	11.56	330	51400	82.08	ng	0.00
44) 2-Fluorobiphenyl	9.78	172	310575	58.79	ng	0.00
78) Terphenyl-d14	14.41	244	366186	61.73	ng	0.00

Target Compounds					Qvalue
10) Phenol	6.48	94	6416	2.16 ng	87
31) Naphthalene	8.46	128	77046	10.71 ng	100
37) 2-Methylnaphthalene	9.32	142	37340	7.64 ng	98
45) 1,1'-Biphenyl	9.89	154	16177	2.62 ng	96
48) Acenaphthylene	10.42	152	23901	3.05 ng	99
49) Dimethylphthalate	10.29	163	19435	3.43 ng	99
51) Acenaphthene	10.62	154	170381	38.56 ng	98
54) Dibenzofuran	10.84	168	122467	18.15 ng	98
57) Fluorene	11.27	166	140406	25.67 ng	99
70) Phenanthrene	12.45	178	1549760	176.59 ng	97
71) Anthracene	12.51	178	507179	58.65 ng	99
72) Carbazole	12.73	167	220433	27.20 ng	99
74) Fluoranthene	13.93	202	2768814	299.16 ng	96
77) Pyrene	14.20	202	2687976	319.41 ng	# 87
80) Benzo(a)anthracene	15.68	228	1823547	228.63 ng	96
82) Chrysene	15.73	228	1570362m	209.55 ng	
83) Bis(2-ethylhexyl)phthalate	15.76	149	26673	5.30 ng	# 98
85) Indeno(1,2,3-cd)pyrene	18.59	276	1064545m	125.19 ng	
87) Benzo(b)fluoranthene	16.95	252	1945708m	193.94 ng	
88) Benzo(k)fluoranthene	16.96	252	759667m	85.21 ng	
89) Benzo(a)pyrene	17.31	252	1459661	166.71 ng	95
90) Dibenzo(a,h)anthracene	18.60	278	259295	29.58 ng	# 91
91) Benzo(g,h,i)perylene	18.96	276	976455m	111.10 ng	

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



#1

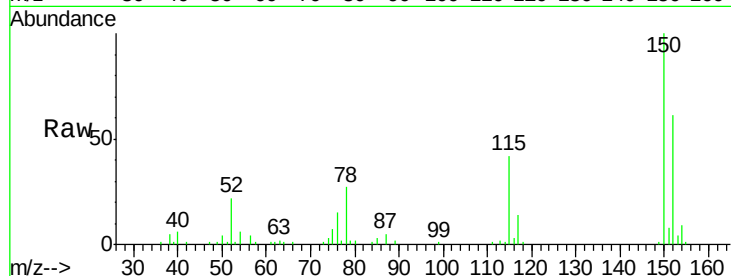
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.85 min Scan# 522
Delta R.T. 0.00 min
Lab File: BF078423.D
Acq: 11 Apr 2015 5:05

Instrument :
BNA_F
ClientSampleId :
SP-4

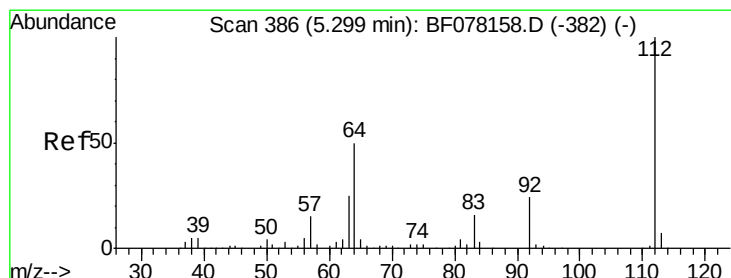
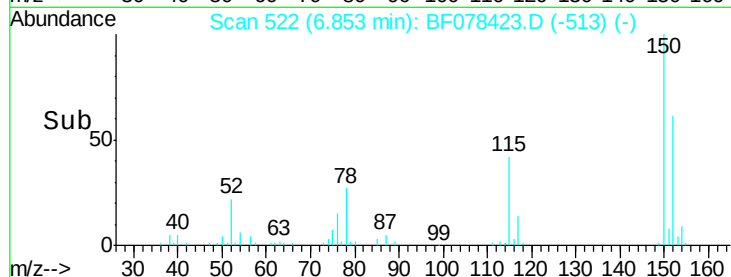
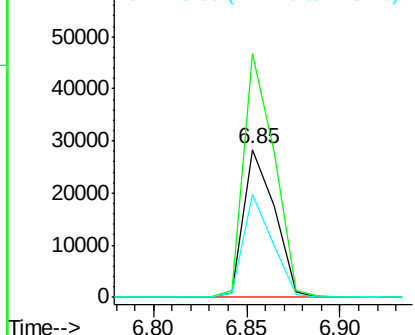
Tgt Ion	Ratio	Resp	Lower	Upper
152	100	32667		
150	164.6	125.9	188.9	
115	69.8	52.7	79.1	

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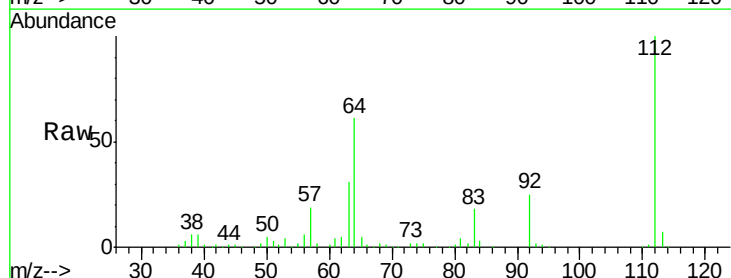
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



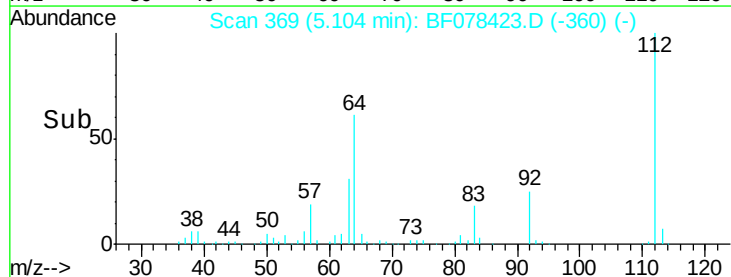
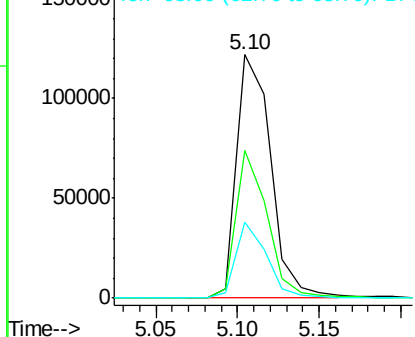
#5

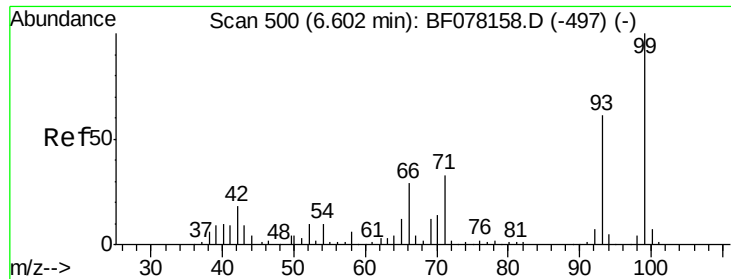
2-Fluorophenol
Concen: 89.34 ng
RT: 5.10 min Scan# 369
Delta R.T. 0.00 min
Lab File: BF078423.D
Acq: 11 Apr 2015 5:05

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	177016		
64	60.7	39.9	59.9#	
63	31.1	20.2	30.4#	



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





#7

Phenol-d6

Concen: 95.04 ng

RT: 6.45 min Scan# 487

Delta R.T. 0.00 min

Lab File: BF078423.D

Acq: 11 Apr 2015 5:05

Instrument :

BNA_F

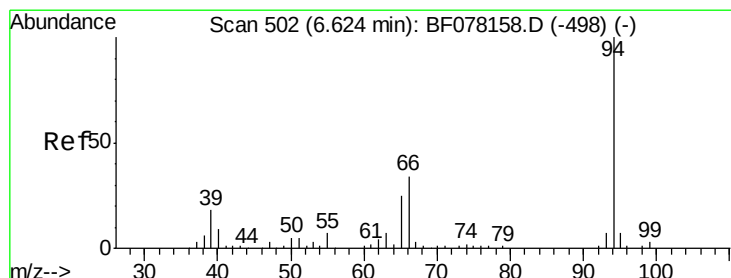
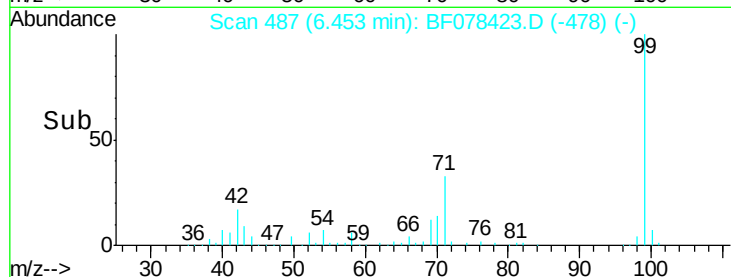
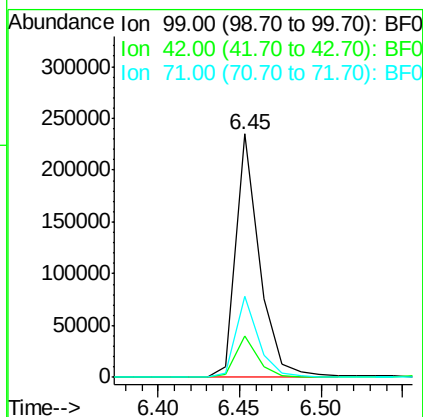
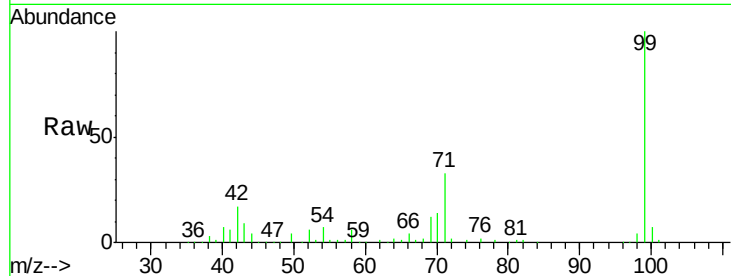
ClientSampleId :

SP-4

Tgt Ion:	99	Resp:	235996
Ion Ratio	Lower	Upper	
99	100		
42	17.0	14.8	22.2
71	33.4	26.6	39.8

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#10

Phenol

Concen: 2.16 ng

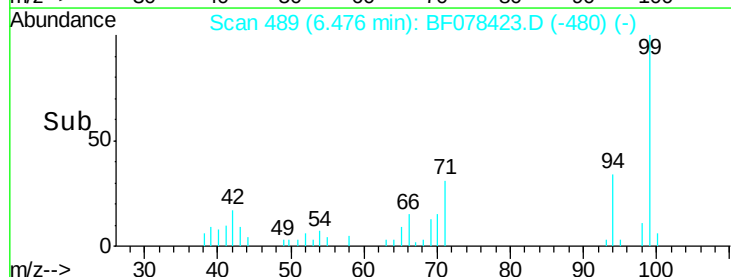
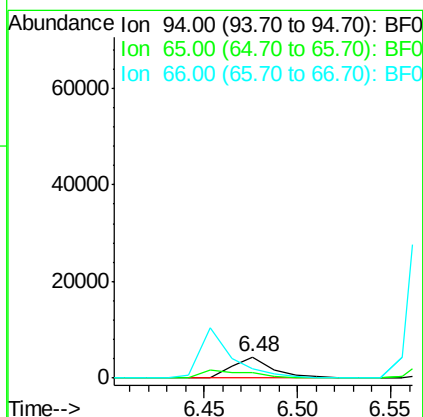
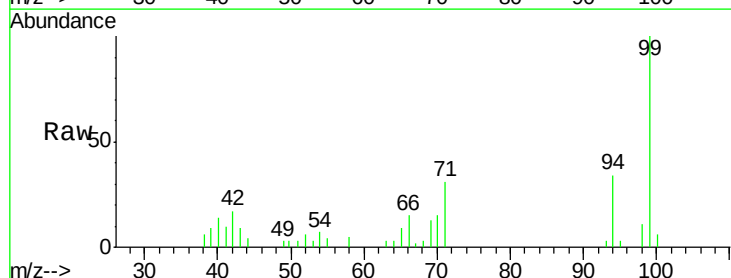
RT: 6.48 min Scan# 489

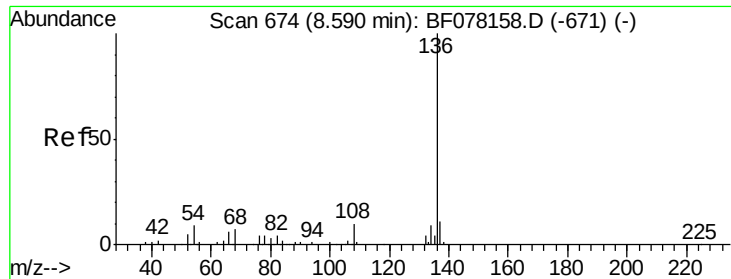
Delta R.T. 0.00 min

Lab File: BF078423.D

Acq: 11 Apr 2015 5:05

Tgt Ion:	94	Resp:	6416
Ion Ratio	Lower	Upper	
94	100		
65	27.7	4.9	44.9
66	44.4	13.8	53.8





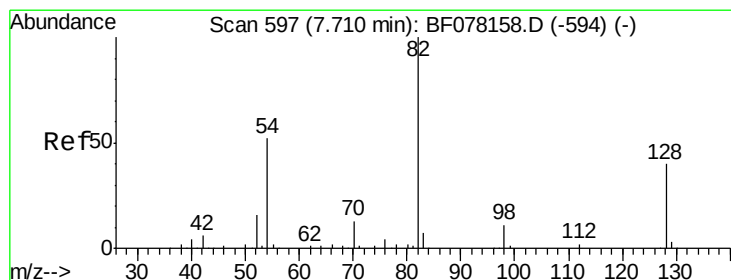
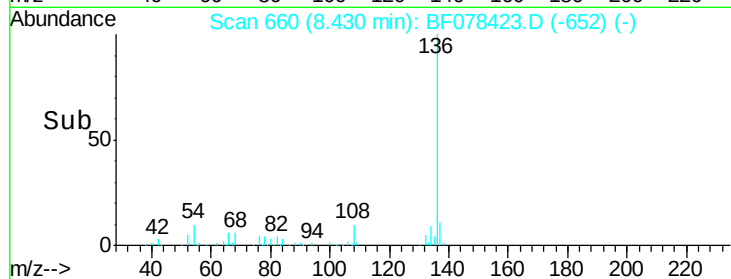
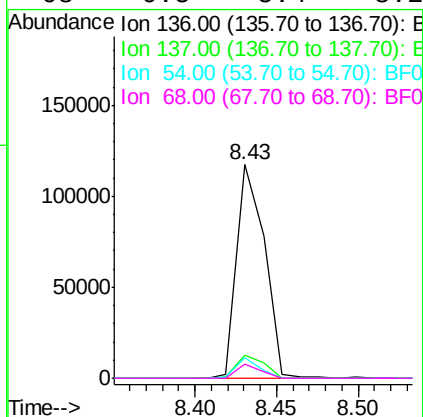
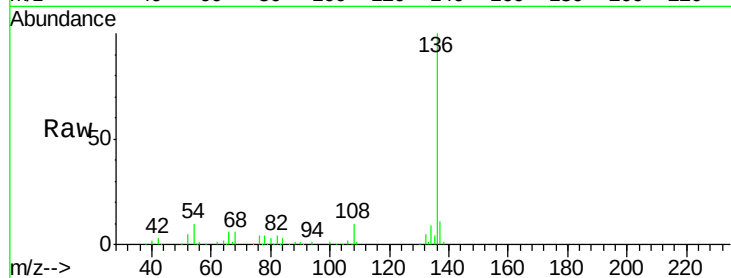
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.43 min Scan# 660
Delta R.T. -0.01 min
Lab File: BF078423.D
Acq: 11 Apr 2015 5:05

Instrument :
BNA_F
ClientSampleId :
SP-4

Tgt Ion	Ratio	Resp Lower	Resp Upper
136	100		
137	10.8	9.0	13.4
54	9.6	7.0	10.6
68	6.5	5.4	8.2

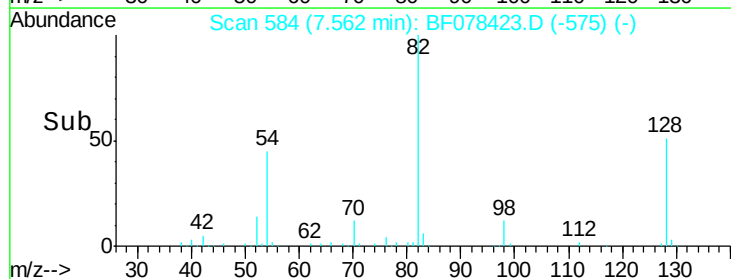
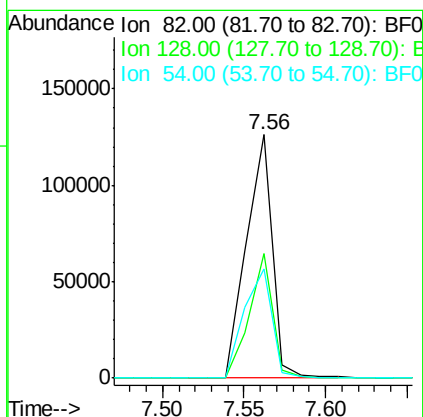
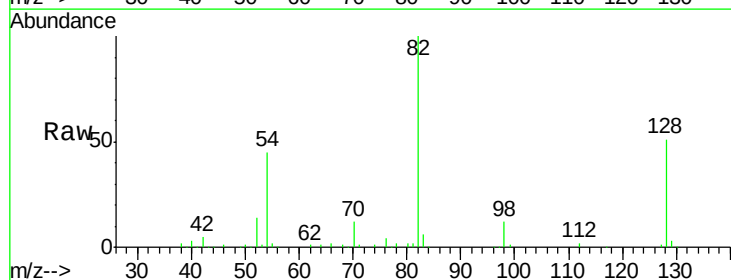
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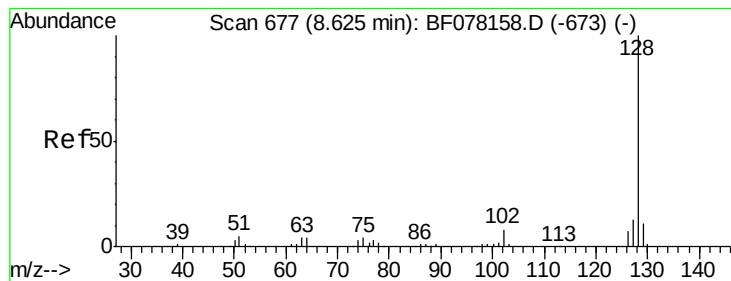
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#23
Nitrobenzene-d5
Concen: 60.94 ng
RT: 7.56 min Scan# 584
Delta R.T. 0.00 min
Lab File: BF078423.D
Acq: 11 Apr 2015 5:05

Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	51.2	31.8	47.8#
54	44.7	41.5	62.3





#31

Naphthalene

Concen: 10.71 ng

RT: 8.46 min Scan# 663

Delta R.T. 0.00 min

Lab File: BF078423.D

Acq: 11 Apr 2015 5:05

Instrument :

BNA_F

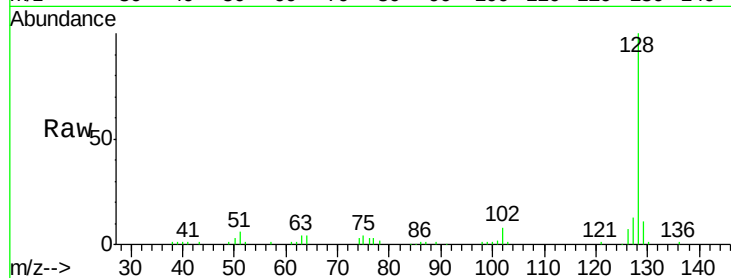
ClientSampleId :

SP-4

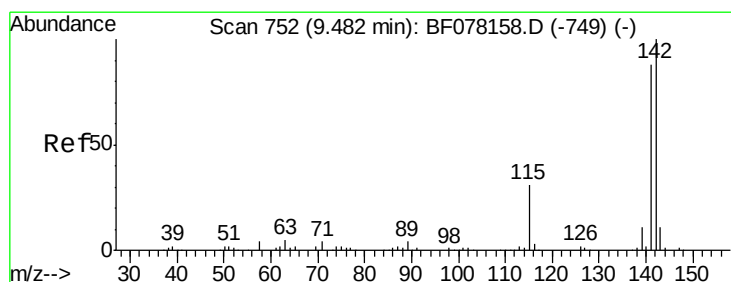
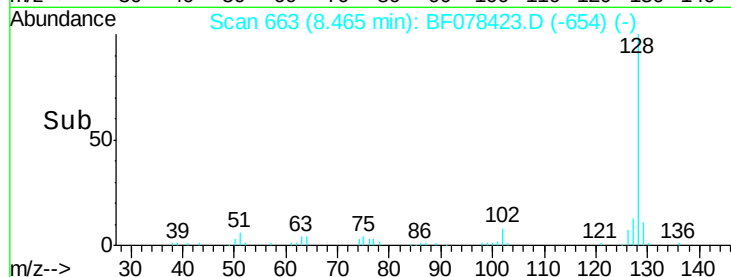
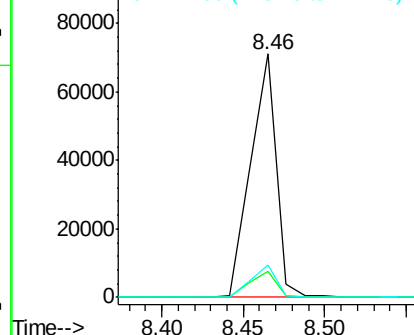
Tgt Ion:	128	Resp:	77046
Ion Ratio	Lower	Upper	
128	100		
129	10.8	8.6	12.8
127	13.3	10.7	16.1

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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: 7.64 ng

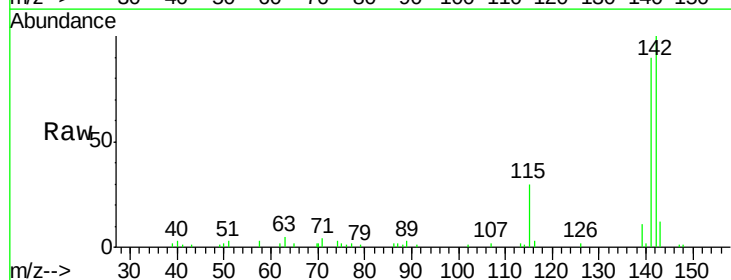
RT: 9.32 min Scan# 738

Delta R.T. 0.00 min

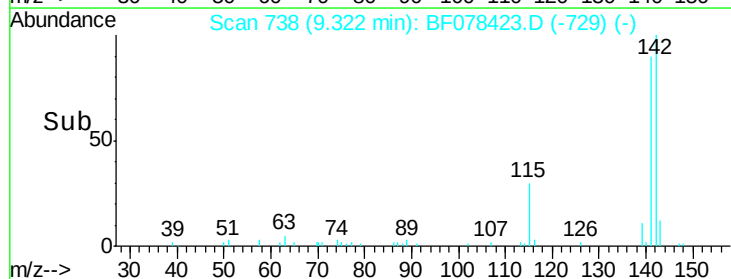
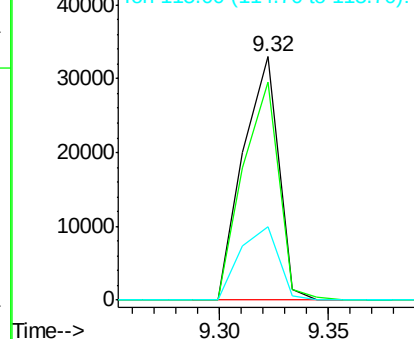
Lab File: BF078423.D

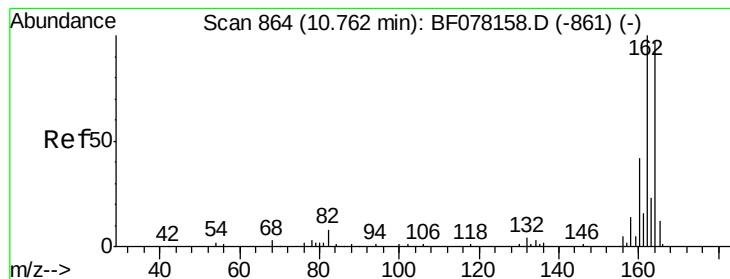
Acq: 11 Apr 2015 5:05

Tgt Ion:	142	Resp:	37340
Ion Ratio	Lower	Upper	
142	100		
141	89.6	70.3	105.5
115	30.1	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: BF078423.D

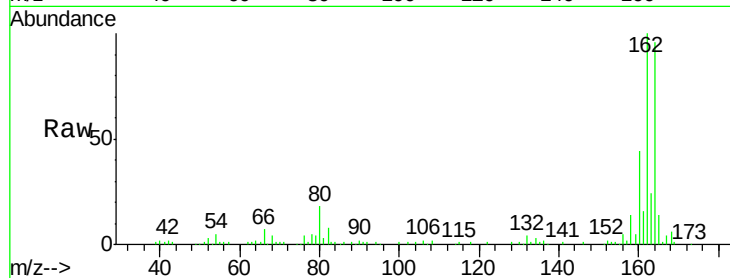
Acq: 11 Apr 2015 5:05

Instrument :

BNA_F

ClientSampled :

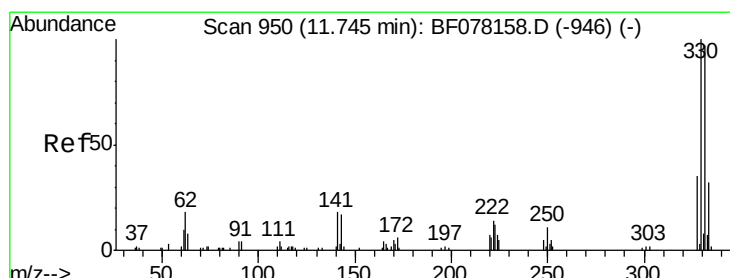
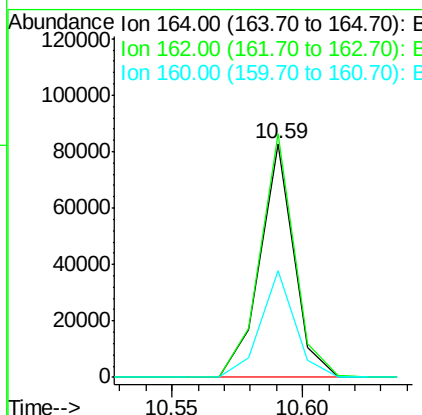
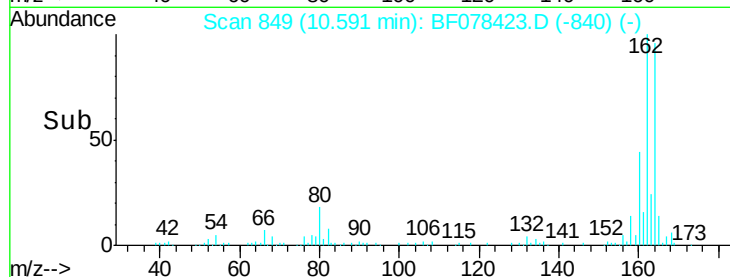
SP-4



Tgt Ion:	164	Resp:	75510
Ion Ratio	Lower	Upper	
164	100		
162	104.2	82.2	123.2
160	45.6	34.7	52.1

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#41

2,4,6-Tribromophenol

Concen: 82.08 ng

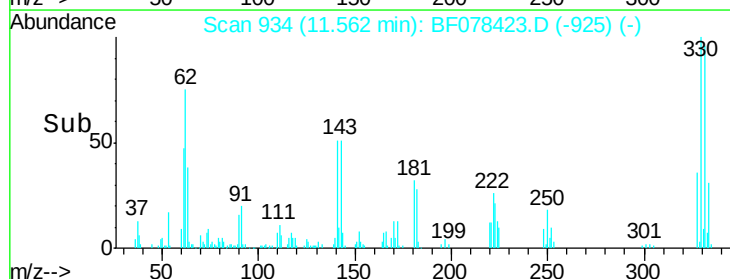
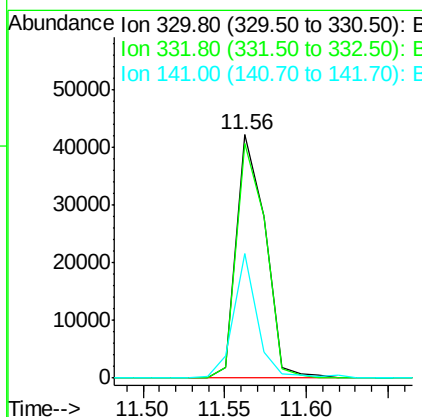
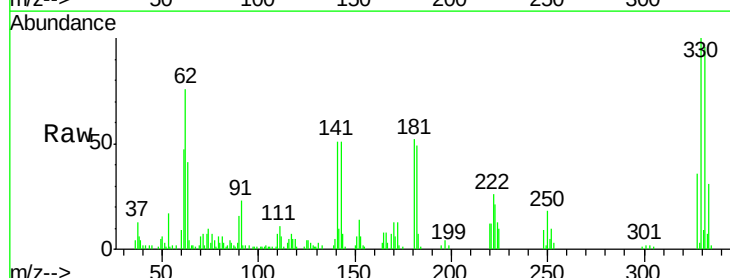
RT: 11.56 min Scan# 934

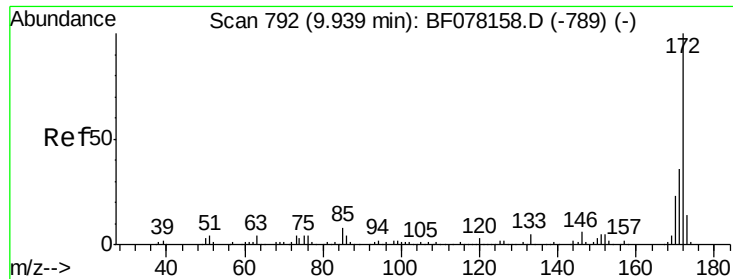
Delta R.T. 0.00 min

Lab File: BF078423.D

Acq: 11 Apr 2015 5:05

Tgt Ion:	330	Resp:	51400
Ion Ratio	Lower	Upper	
330	100		
332	96.8	78.6	117.8
141	42.4	31.2	46.8





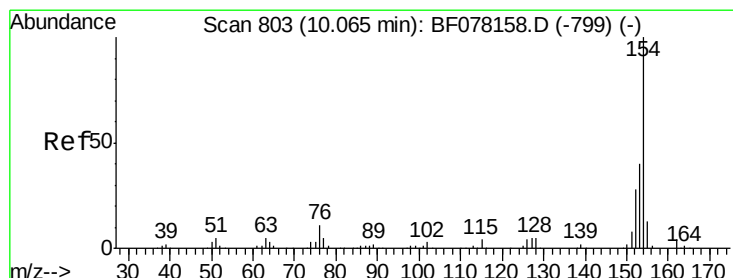
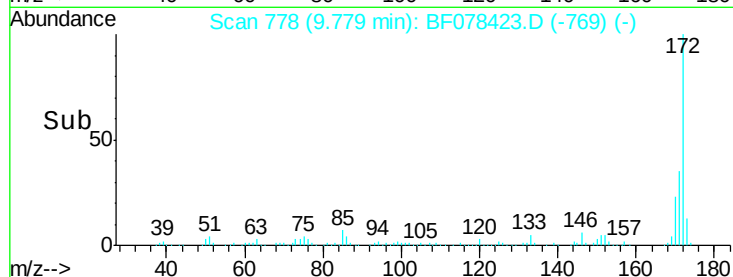
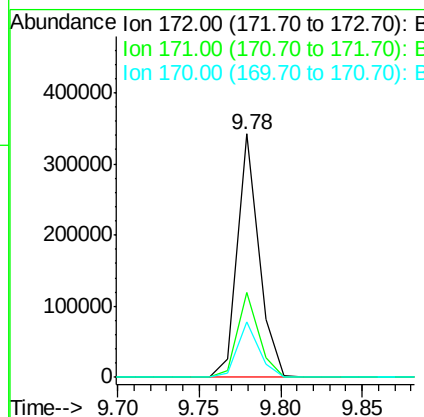
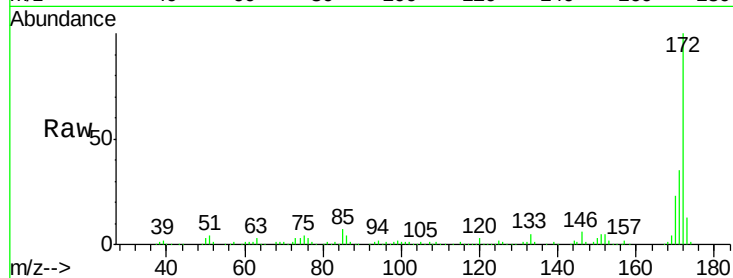
#44
 2-Fluorobiphenyl
 Concen: 58.79 ng
 RT: 9.78 min Scan# 778
 Delta R.T. 0.00 min
 Lab File: BF078423.D
 Acq: 11 Apr 2015 5:05

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Tgt Ion:	172	Resp:	310575
Ion Ratio	Lower	Upper	
172	100		
171	35.0	28.6	42.8
170	22.9	18.5	27.7

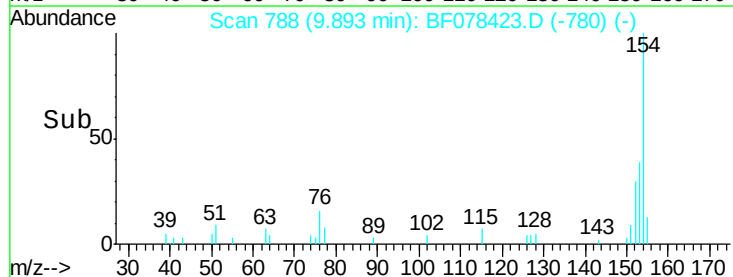
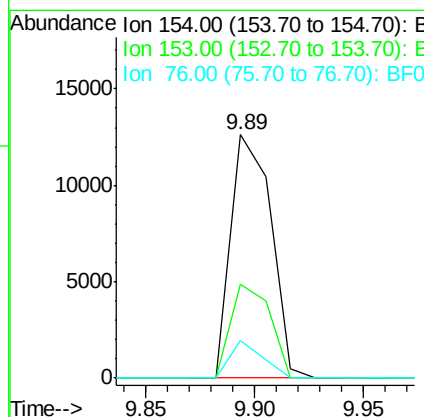
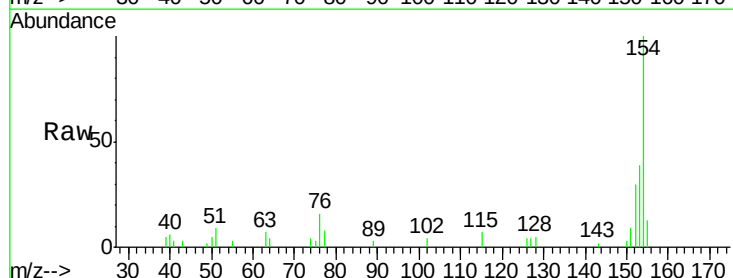
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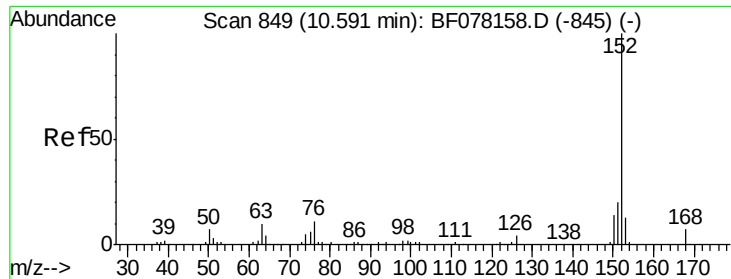
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#45
 1,1'-Biphenyl
 Concen: 2.62 ng
 RT: 9.89 min Scan# 788
 Delta R.T. -0.01 min
 Lab File: BF078423.D
 Acq: 11 Apr 2015 5:05

Tgt Ion:	154	Resp:	16177
Ion Ratio	Lower	Upper	
154	100		
153	38.8	20.0	60.0
76	15.6	0.0	30.6





#48

Acenaphthylene

Concen: 3.05 ng

RT: 10.42 min Scan# 834

Delta R.T. 0.00 min

Lab File: BF078423.D

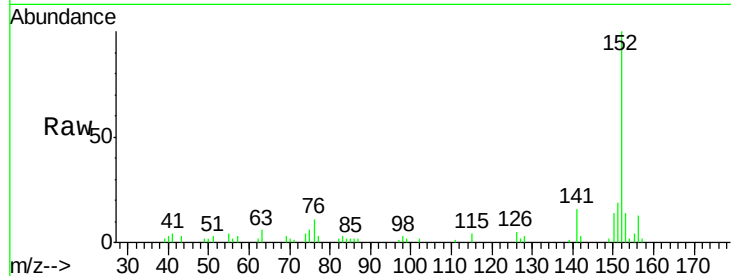
Acq: 11 Apr 2015 5:05

Instrument :

BNA_F

ClientSampled :

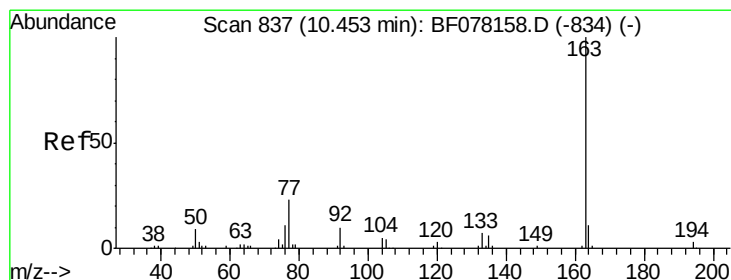
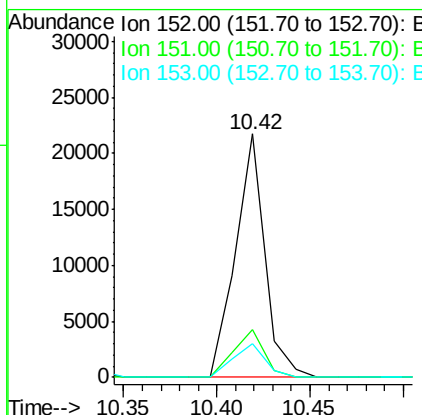
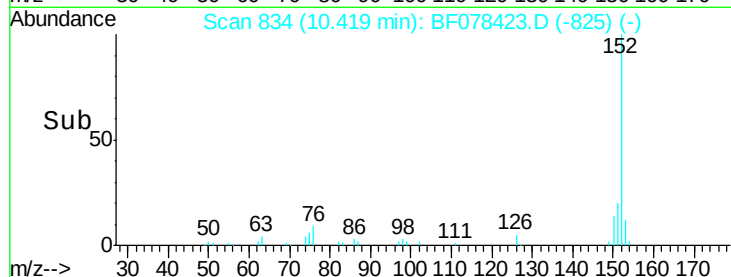
SP-4



Tgt Ion:	152	Resp:	23901
Ion Ratio	Lower	Upper	
152	100		
151	19.5	15.7	23.5
153	13.9	10.2	15.2

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#49

Dimethylphthalate

Concen: 3.43 ng

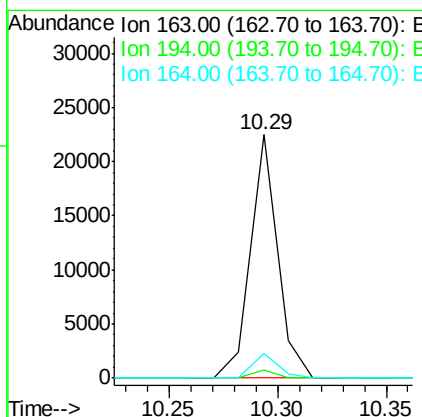
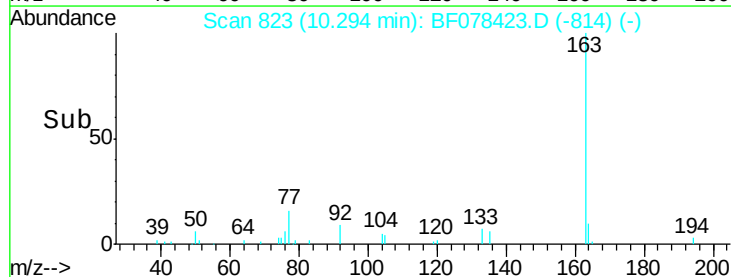
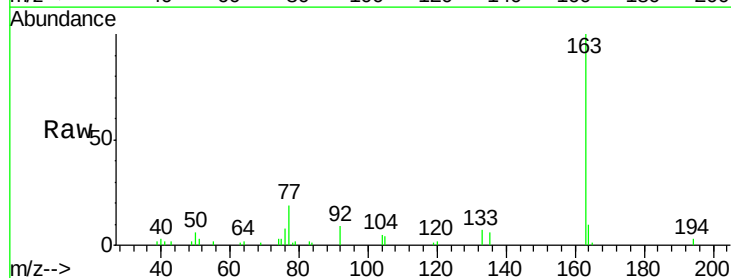
RT: 10.29 min Scan# 823

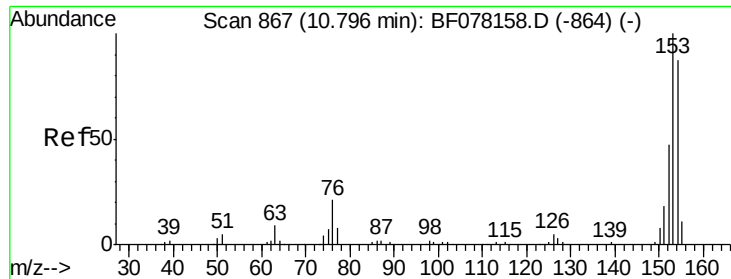
Delta R.T. 0.00 min

Lab File: BF078423.D

Acq: 11 Apr 2015 5:05

Tgt Ion:	163	Resp:	19435
Ion Ratio	Lower	Upper	
163	100		
194	3.5	2.3	3.5
164	10.4	8.6	13.0





#51

Acenaphthene

Concen: 38.56 ng

RT: 10.62 min Scan# 852

Delta R.T. -0.01 min

Lab File: BF078423.D

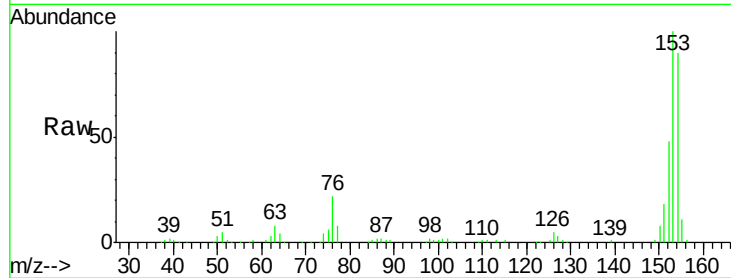
Acq: 11 Apr 2015 5:05

Instrument :

BNA_F

ClientSampleId :

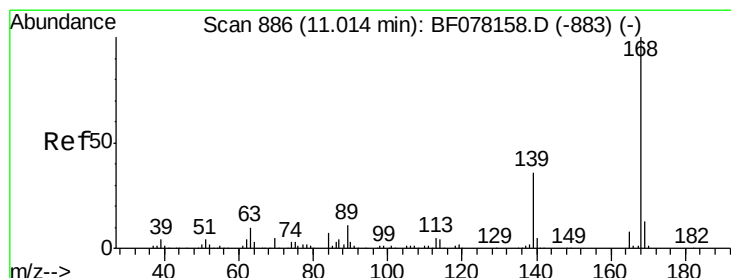
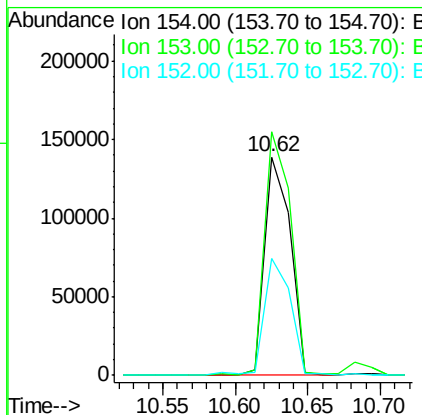
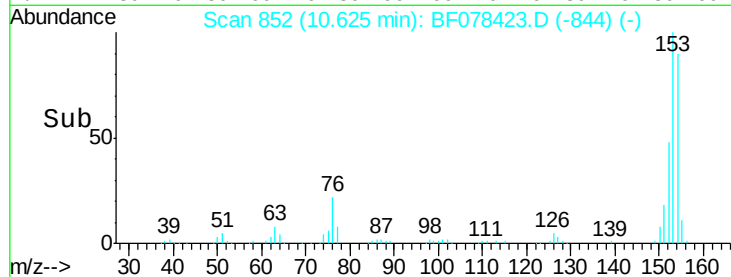
SP-4



Tgt Ion	Ratio	Resp	Lower	Upper
154	100	170381		
153	111.5	91.4	137.2	
152	53.6	43.0	64.6	

Manual Integrations
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#54

Dibenzofuran

Concen: 18.15 ng

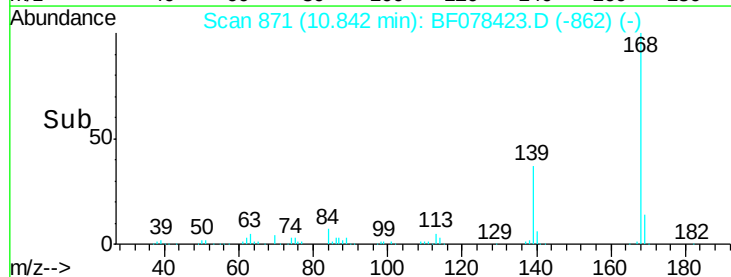
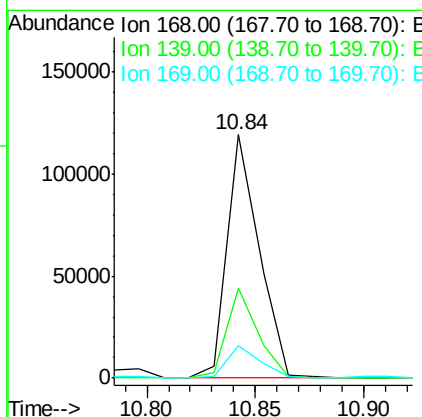
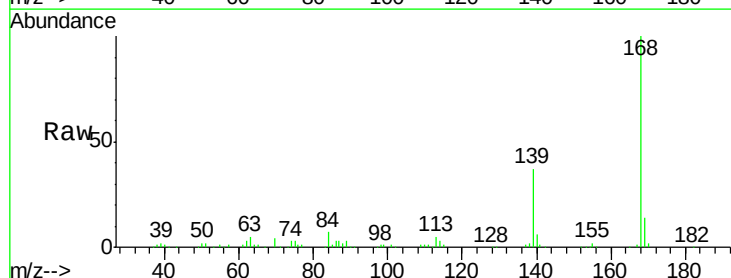
RT: 10.84 min Scan# 871

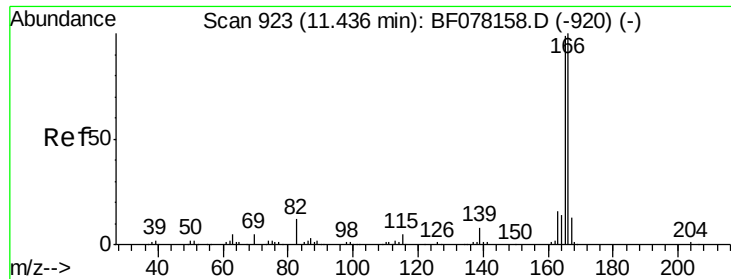
Delta R.T. 0.00 min

Lab File: BF078423.D

Acq: 11 Apr 2015 5:05

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	122467		
139	37.2	31.0	46.4	
169	13.5	10.7	16.1	





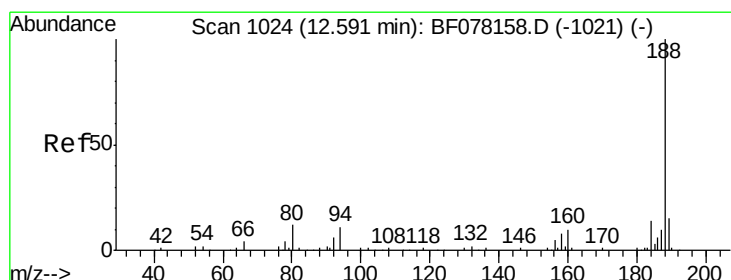
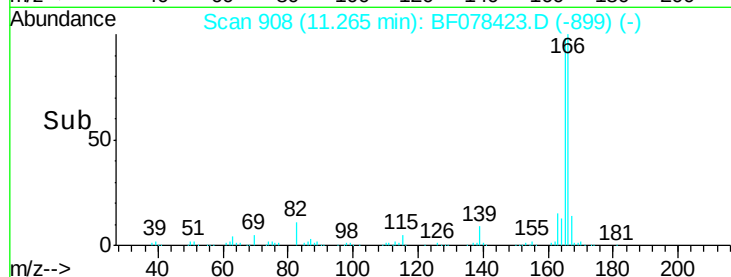
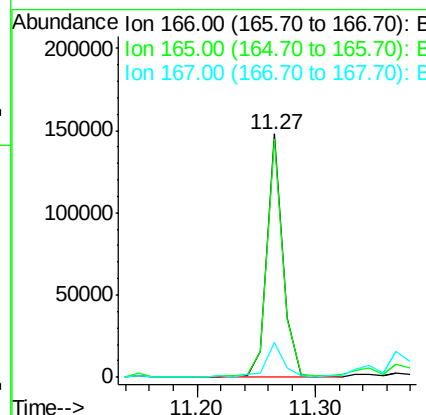
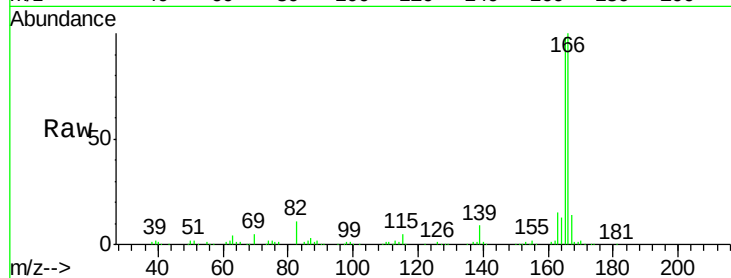
#57
 Fluorene
 Concen: 25.67 ng
 RT: 11.27 min Scan# 908
 Delta R.T. 0.00 min
 Lab File: BF078423.D
 Acq: 11 Apr 2015 5:05

Instrument :
 BNA_F
 ClientSampleId :
 SP-4

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	140406		
165	98.0	78.9	118.3	
167	14.2	10.7	16.1	

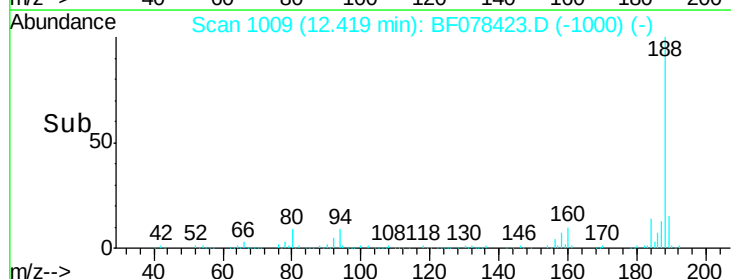
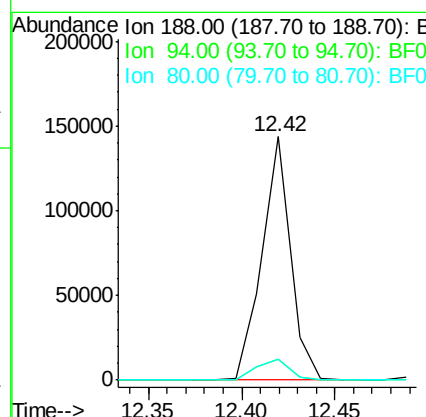
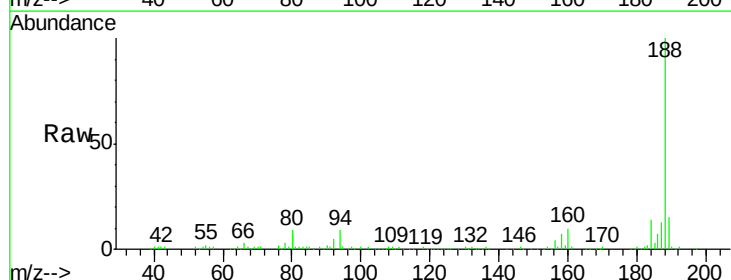
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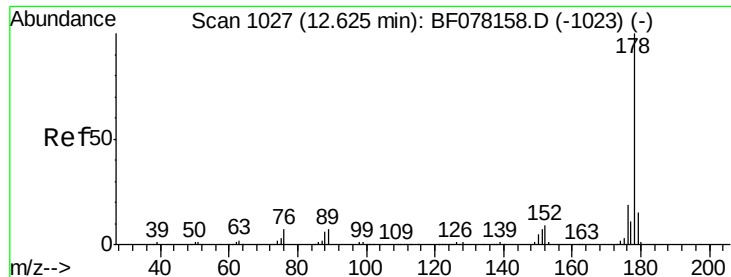
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#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.42 min Scan# 1009
 Delta R.T. 0.00 min
 Lab File: BF078423.D
 Acq: 11 Apr 2015 5:05

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	151721		
94	8.8	9.0	13.4#	
80	8.7	9.5	14.3#	





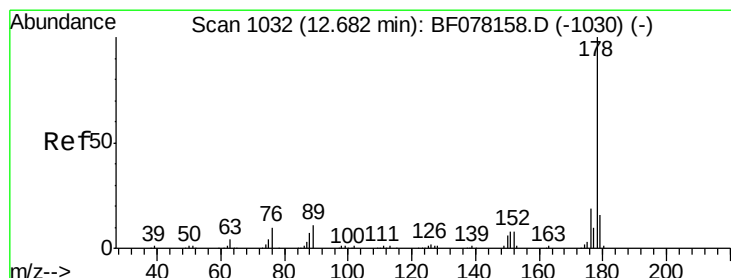
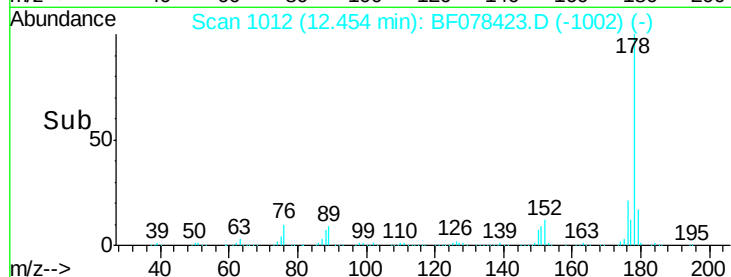
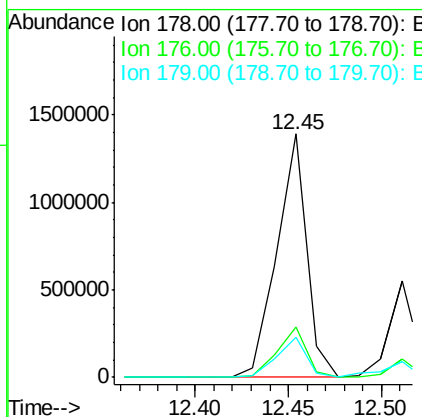
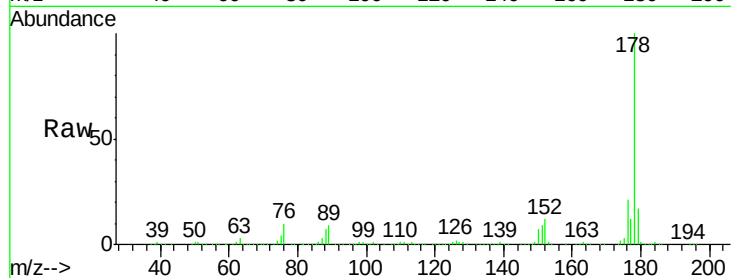
#70
 Phenanthrene
 Concen: 176.59 ng
 RT: 12.45 min Scan# 1012
 Delta R.T. 0.01 min
 Lab File: BF078423.D
 Acq: 11 Apr 2015 5:05

Instrument :
 BNA_F
 ClientSampleId :
 SP-4

Tgt Ion:178 Resp: 1549760
 Ion Ratio Lower Upper
 178 100
 176 20.7 15.4 23.0
 179 16.6 12.2 18.2

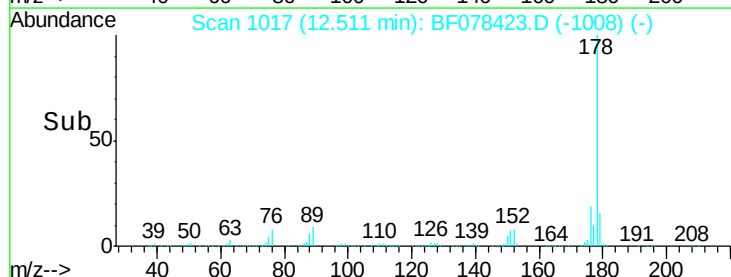
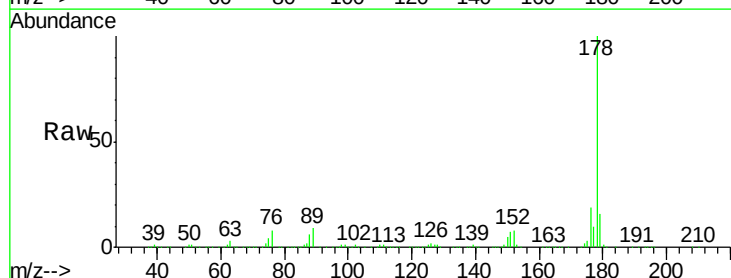
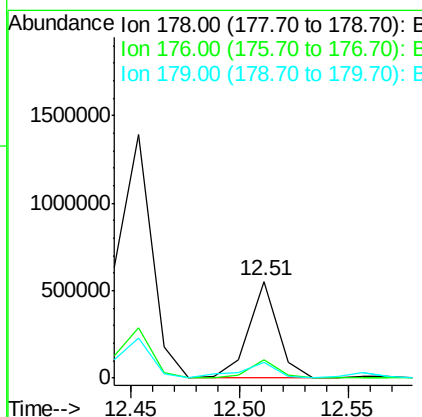
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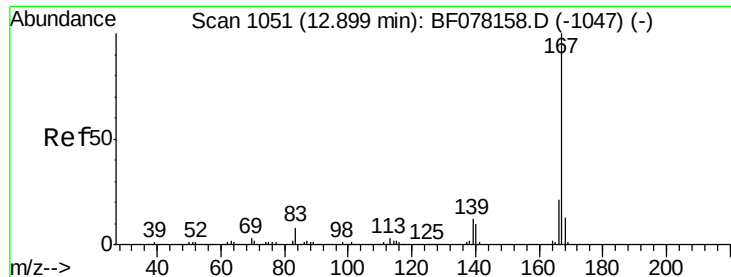
apatel
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#71
 Anthracene
 Concen: 58.65 ng
 RT: 12.51 min Scan# 1017
 Delta R.T. 0.00 min
 Lab File: BF078423.D
 Acq: 11 Apr 2015 5:05

Tgt Ion:178 Resp: 507179
 Ion Ratio Lower Upper
 178 100
 176 18.9 14.8 22.2
 179 15.7 12.4 18.6





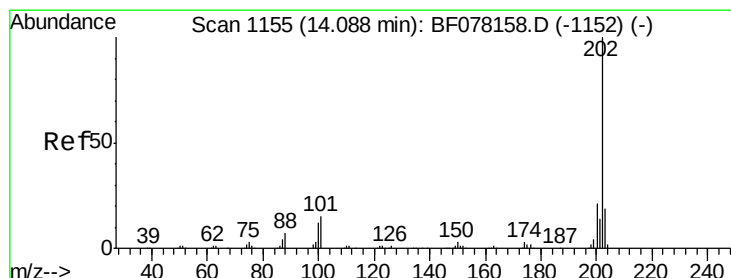
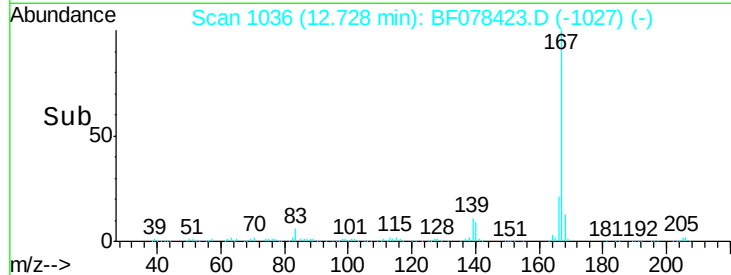
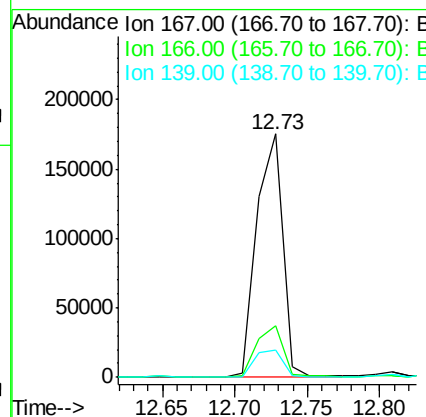
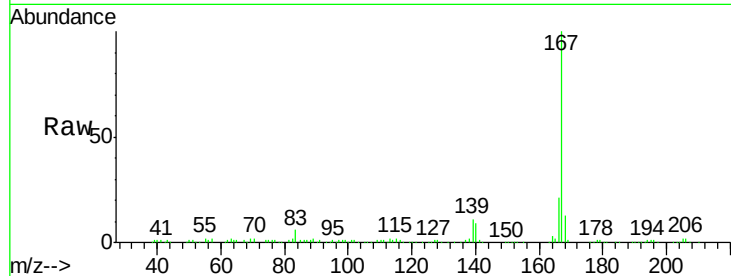
#72
 Carbazole
 Concen: 27.20 ng
 RT: 12.73 min Scan# 1036
 Delta R.T. 0.00 min
 Lab File: BF078423.D
 Acq: 11 Apr 2015 5:05

Instrument :
 BNA_F
 ClientSampleId :
 SP-4

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.1	16.8	25.2
139	11.3	10.0	15.0

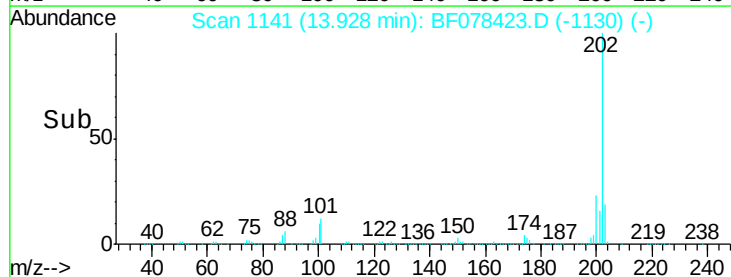
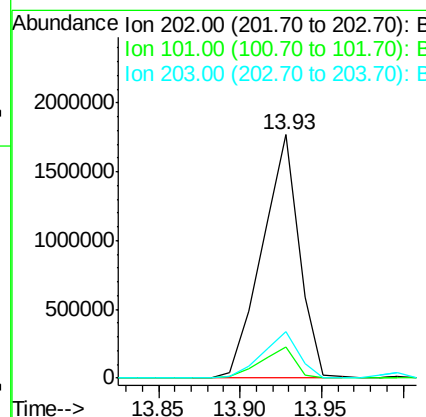
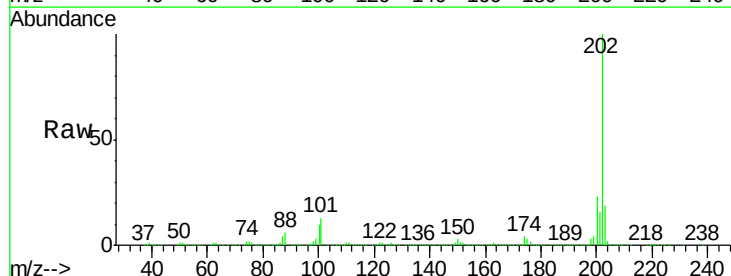
Manual Integrations
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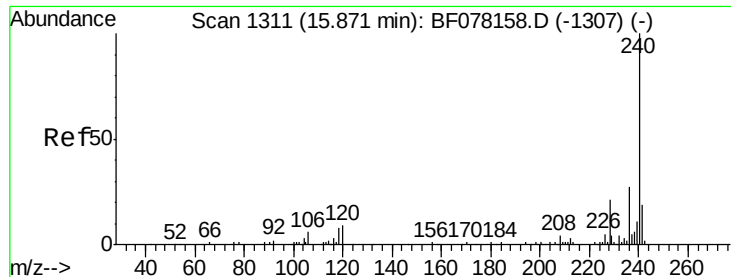
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#74
 Fluoranthene
 Concen: 299.16 ng
 RT: 13.93 min Scan# 1141
 Delta R.T. 0.02 min
 Lab File: BF078423.D
 Acq: 11 Apr 2015 5:05

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.6	0.0	35.2
203	19.2	0.0	38.5





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.69 min Scan# 1295

Delta R.T. 0.01 min

Lab File: BF078423.D

Acq: 11 Apr 2015 5:05

Instrument :

BNA_F

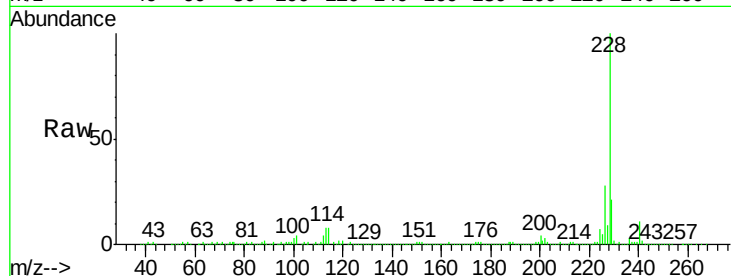
ClientSampleId :

SP-4

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	134055		
120	16.6	7.1	10.7#	
236	26.7	21.4	32.2	

Manual Integrations
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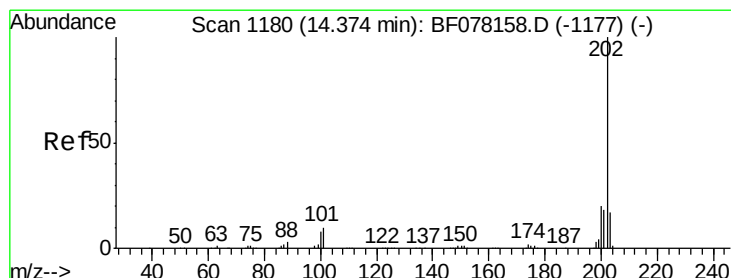
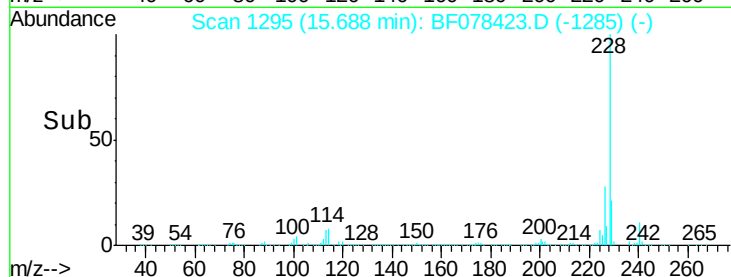
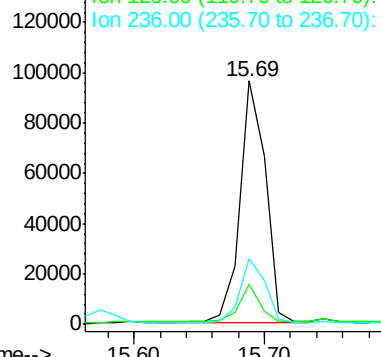
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 319.41 ng

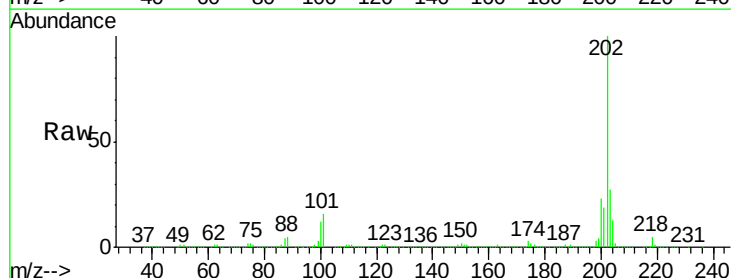
RT: 14.20 min Scan# 1165

Delta R.T. 0.02 min

Lab File: BF078423.D

Acq: 11 Apr 2015 5:05

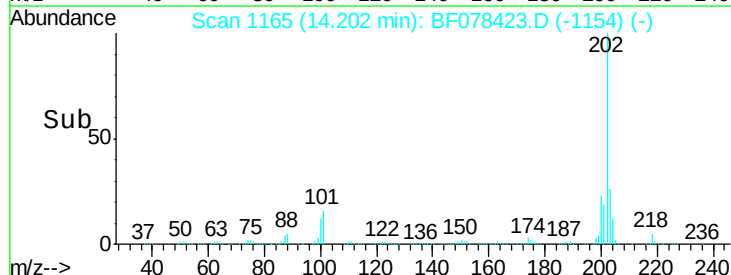
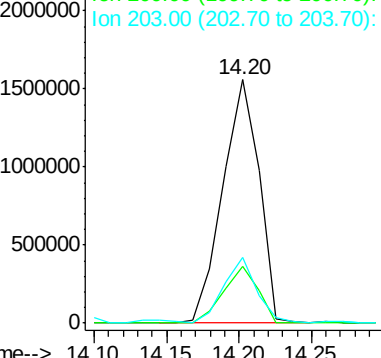
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	2687976		
200	23.2	16.3	24.5	
203	26.8	13.8	20.6#	

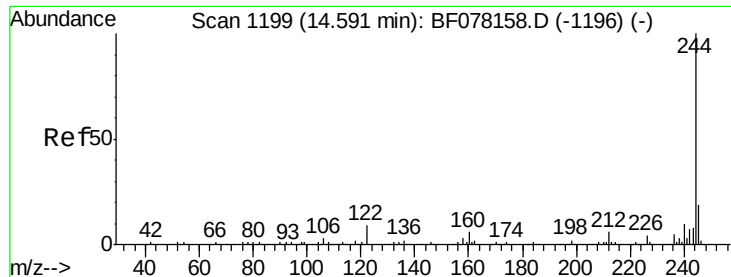


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





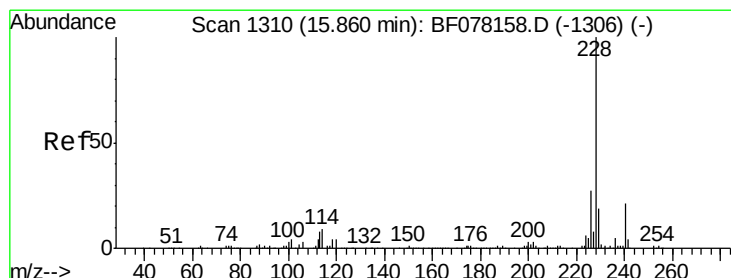
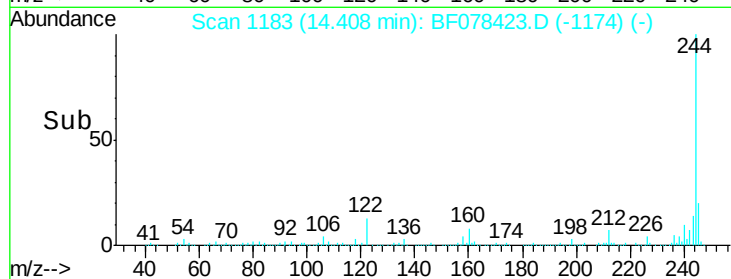
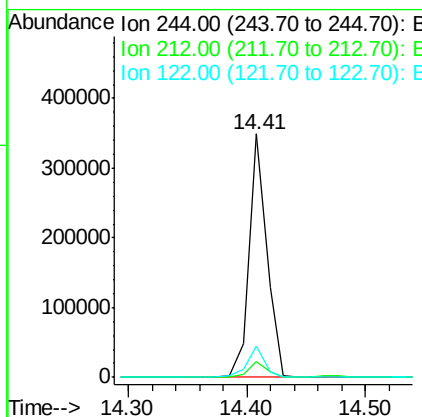
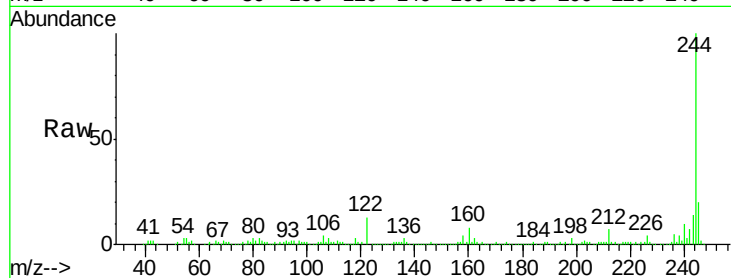
#78
 Terphenyl-d14
 Concen: 61.73 ng
 RT: 14.41 min Scan# 1183
 Delta R.T. 0.00 min
 Lab File: BF078423.D
 Acq: 11 Apr 2015 5:05

Instrument :
 BNA_F
 ClientSampleId :
 SP-4

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.7	5.0	7.4
122	12.8	7.1	10.7

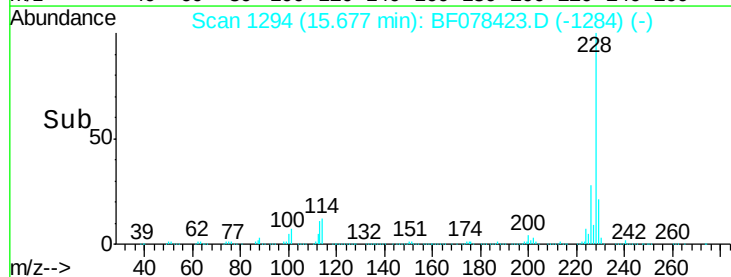
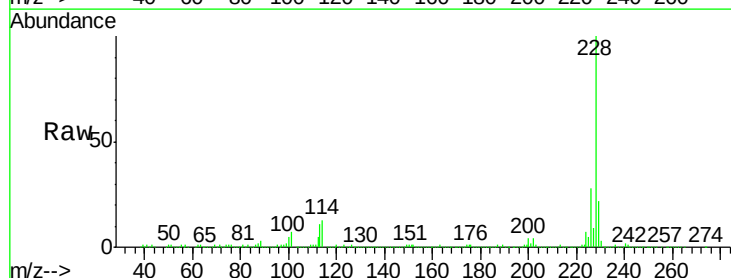
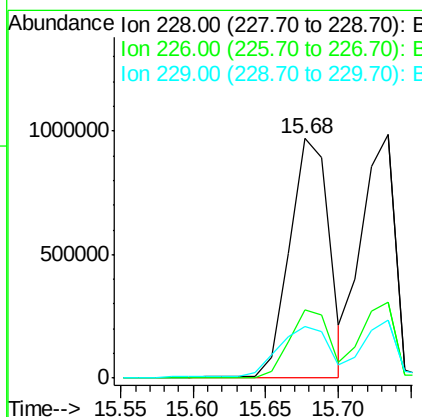
Manual Integrations
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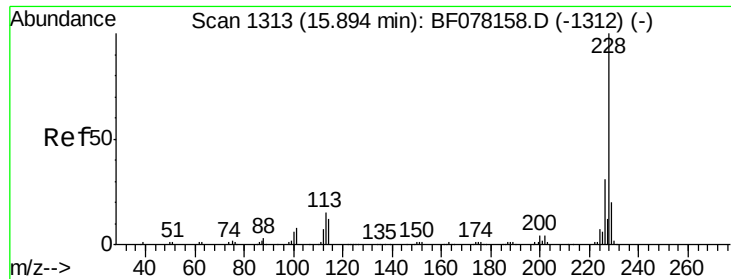
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#80
 Benzo(a)anthracene
 Concen: 228.63 ng
 RT: 15.68 min Scan# 1294
 Delta R.T. 0.01 min
 Lab File: BF078423.D
 Acq: 11 Apr 2015 5:05

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	28.5	21.3	31.9
229	21.7	15.4	23.2





#82

Chrysene

Concen: 209.55 ng m

RT: 15.73 min Scan# 1299

Delta R.T. 0.02 min

Lab File: BF078423.D

Acq: 11 Apr 2015 5:05

Instrument :

BNA_F

ClientSampled :

SP-4

Tgt Ion: 228 Resp: 1570362

Ion Ratio Lower Upper

228 100

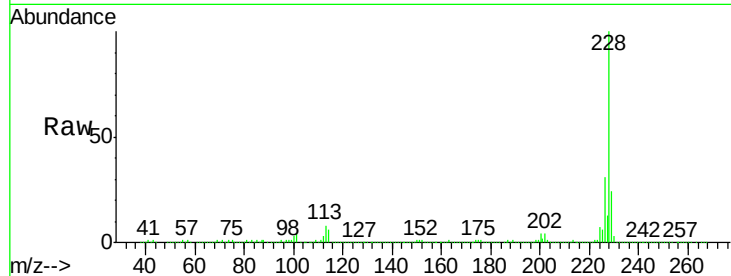
226 31.4 24.2 36.4

229 24.1 15.8 23.8#

Manual Integrations
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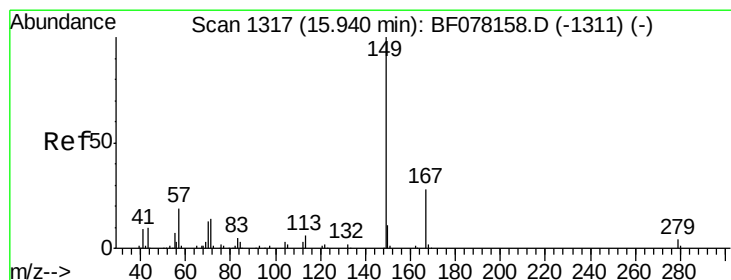
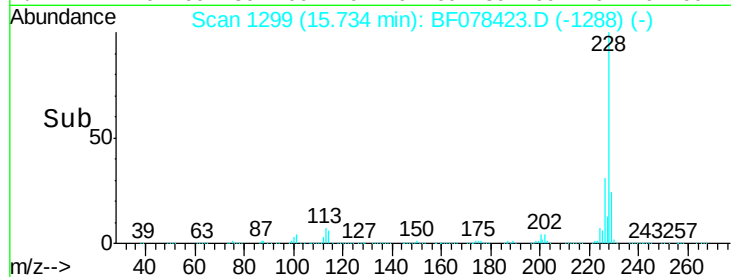
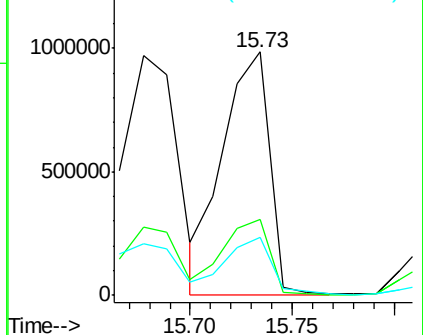
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 5.30 ng

RT: 15.76 min Scan# 1301

Delta R.T. 0.00 min

Lab File: BF078423.D

Acq: 11 Apr 2015 5:05

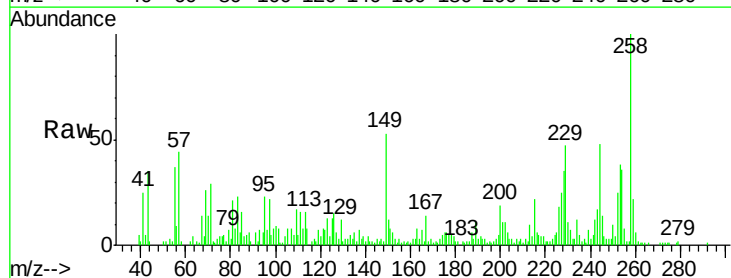
Tgt Ion: 149 Resp: 26673

Ion Ratio Lower Upper

149 100

167 26.8 22.2 33.2

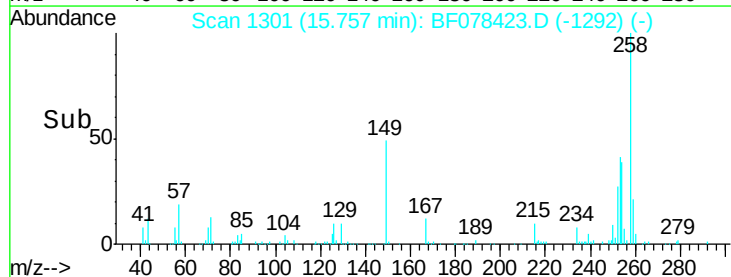
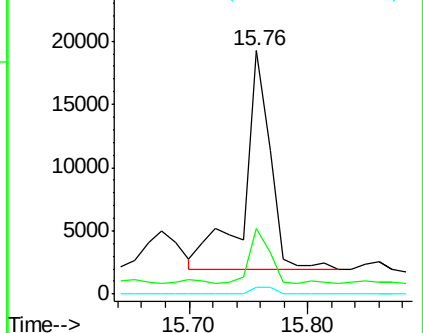
279 3.0 3.2 4.8#

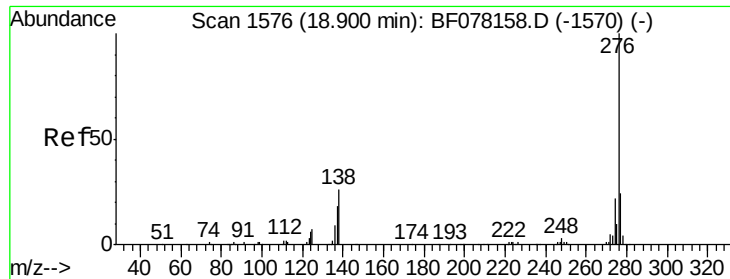


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





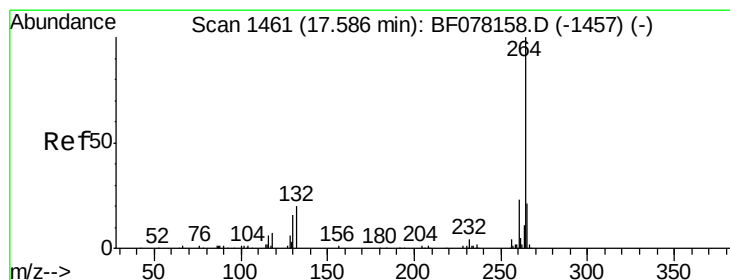
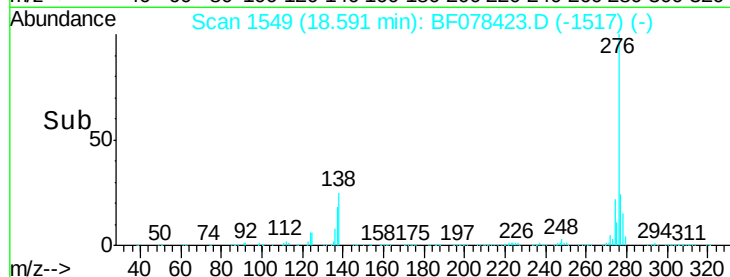
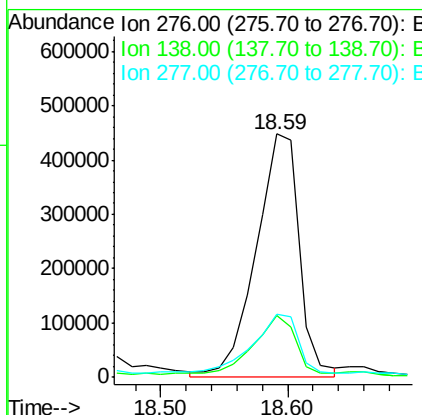
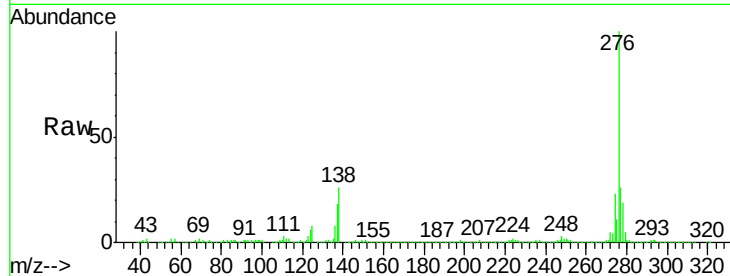
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 125.19 ng m
 RT: 18.59 min Scan# 1549
 Delta R.T. 0.07 min
 Lab File: BF078423.D
 Acq: 11 Apr 2015 5:05

Instrument :
 BNA_F
 ClientSampleId :
 SP-4

Tgt Ion	Ratio	Lower	Upper
276	100		
138	4.8	16.9	25.3#
277	4.3	15.8	23.6#

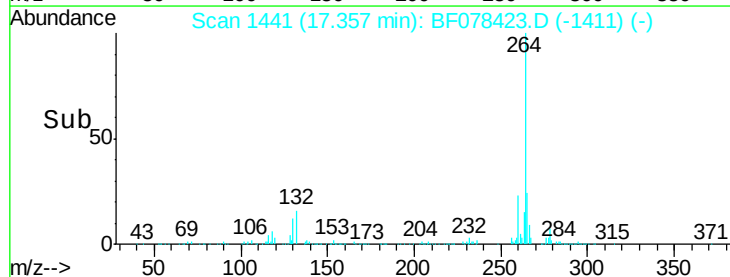
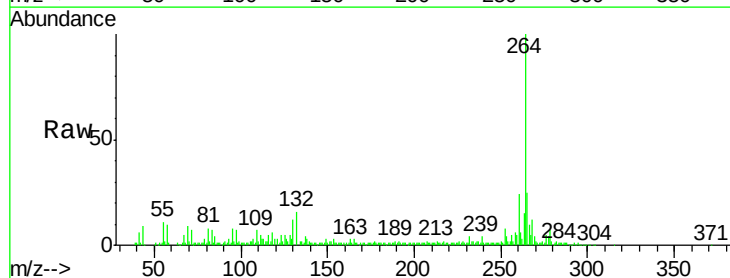
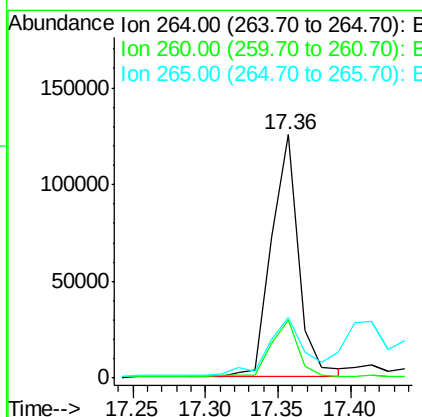
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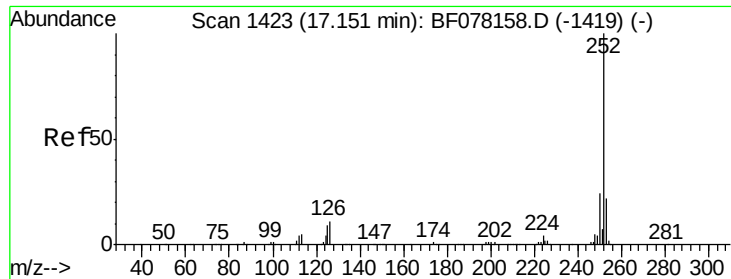
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 17.36 min Scan# 1441
 Delta R.T. 0.05 min
 Lab File: BF078423.D
 Acq: 11 Apr 2015 5:05

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.6	27.8
265	25.0	17.0	25.6





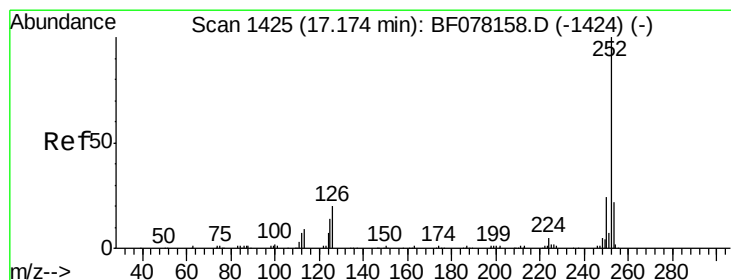
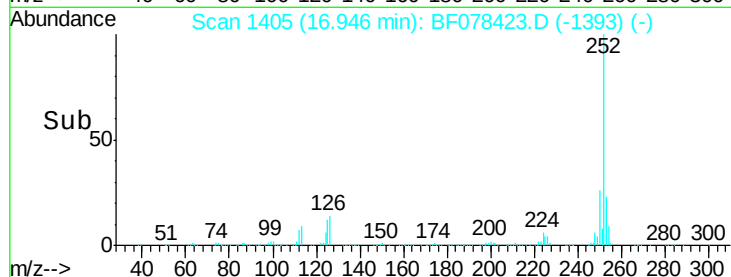
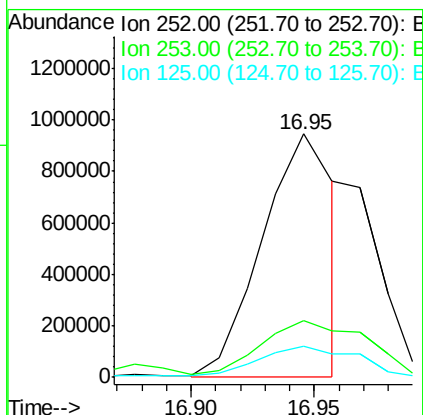
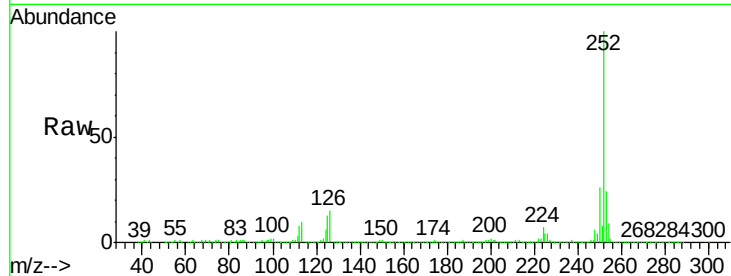
#87
Benzo(b)fluoranthene
Concen: 193.94 ng m
RT: 16.95 min Scan# 1405
Delta R.T. 0.03 min
Lab File: BF078423.D
Acq: 11 Apr 2015 5:05

Instrument :
BNA_F
ClientSampleId :
SP-4

Tgt Ion:252 Resp: 1945708
Ion Ratio Lower Upper
252 100
253 23.6 17.2 25.8
125 12.7 7.0 10.4#

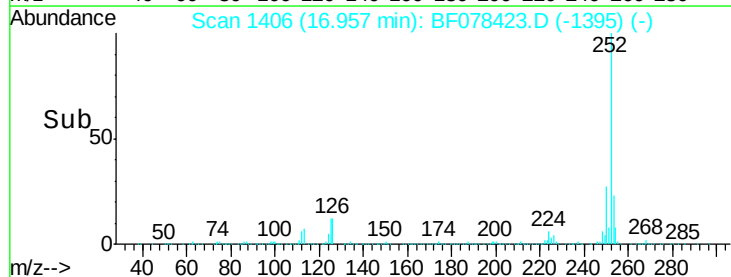
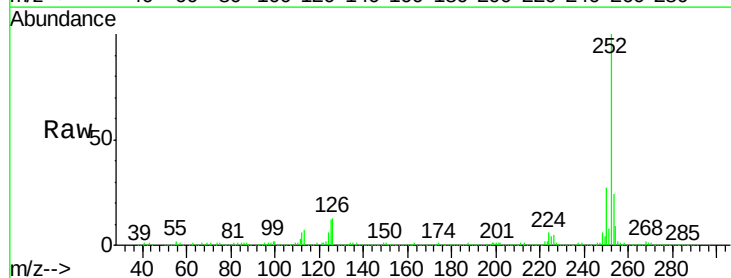
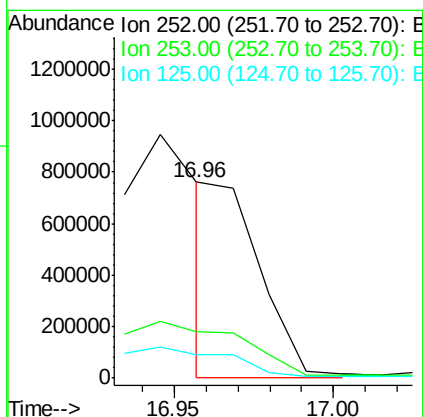
Manual Integrations
APPROVED

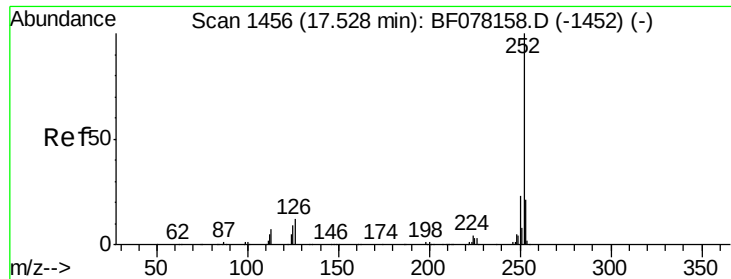
apatel
4/13/2015 4:17:08 PM



#88
Benzo(k)fluoranthene
Concen: 85.21 ng m
RT: 16.96 min Scan# 1406
Delta R.T. 0.02 min
Lab File: BF078423.D
Acq: 11 Apr 2015 5:05

Tgt Ion:252 Resp: 759667
Ion Ratio Lower Upper
252 100
253 23.7 17.5 26.3
125 12.0 11.6 17.4





#89

Benzo(a)pyrene

Concen: 166.71 ng

RT: 17.31 min Scan# 1437

Delta R.T. 0.06 min

Lab File: BF078423.D

Acq: 11 Apr 2015 5:05

Instrument :

BNA_F

ClientSampled :

SP-4

Tgt Ion:252 Resp: 1459661

Ion Ratio Lower Upper

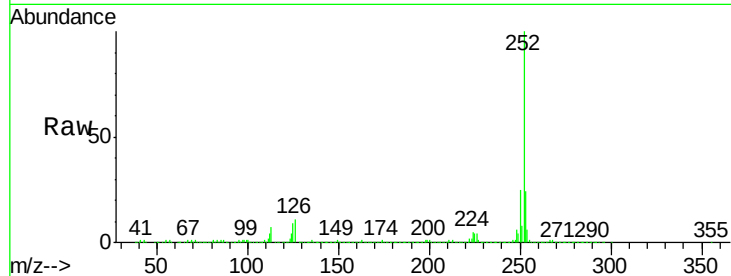
252 100

253 24.4 16.8 25.2

125 8.8 7.4 11.0

Manual Integrations
APPROVED

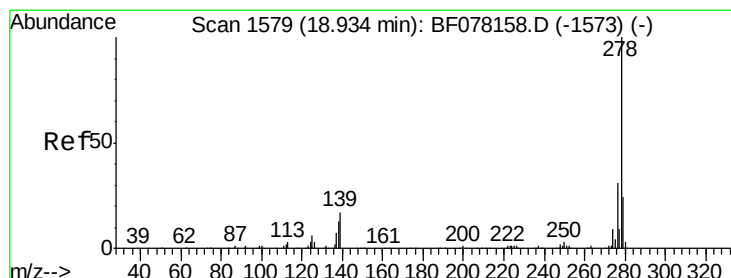
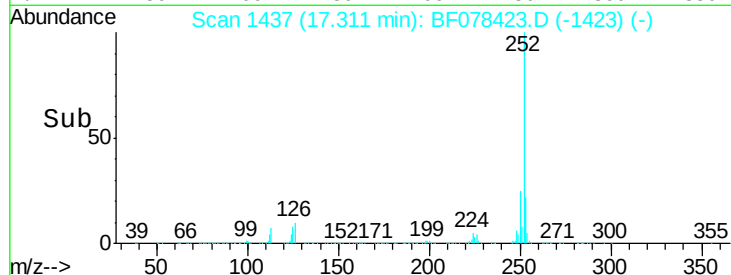
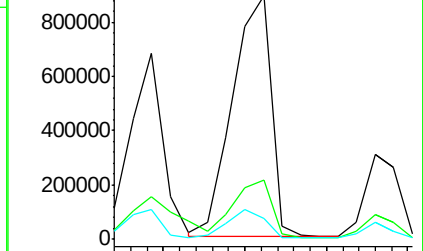
apatel
4/13/2015 4:17:08 PM



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 29.58 ng

RT: 18.60 min Scan# 1550

Delta R.T. 0.05 min

Lab File: BF078423.D

Acq: 11 Apr 2015 5:05

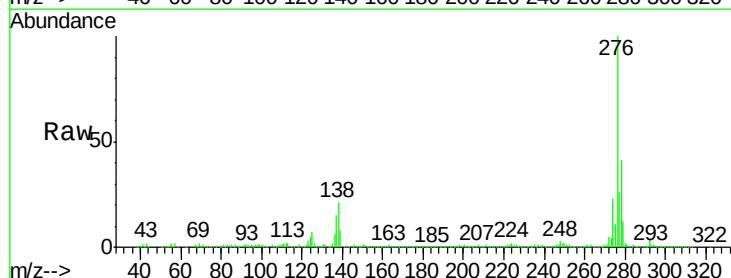
Tgt Ion:278 Resp: 259295

Ion Ratio Lower Upper

278 100

139 19.9 13.6 20.4

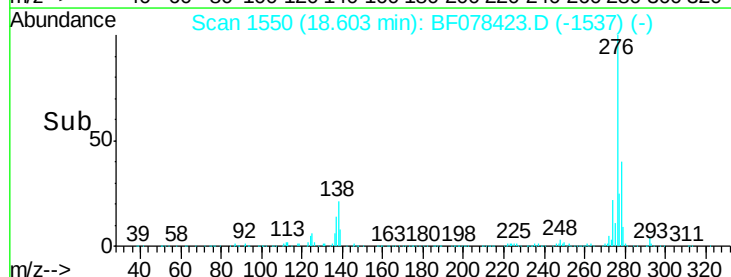
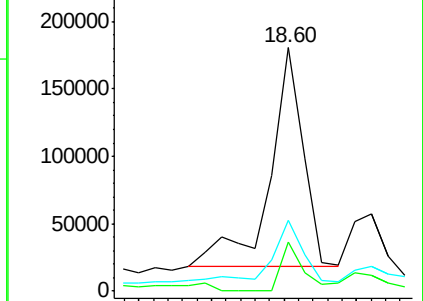
279 29.1 19.0 28.6#

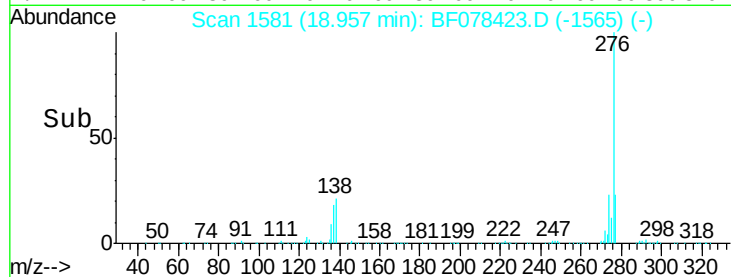
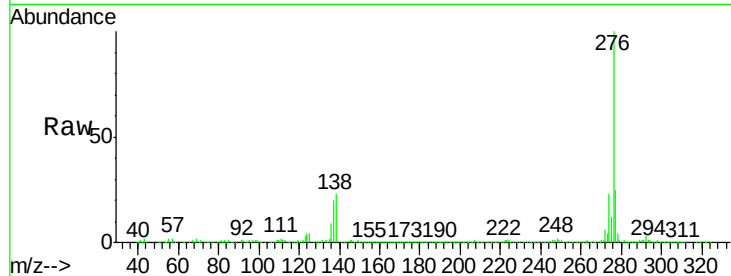
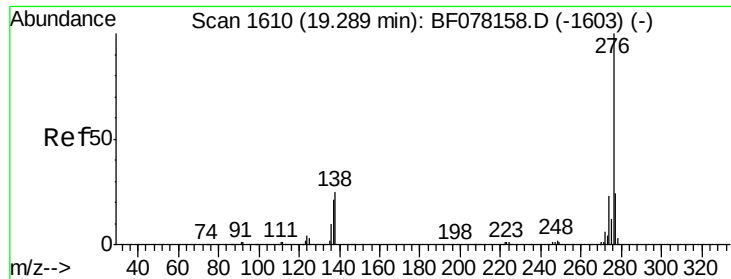


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 111.10 ng m

RT: 18.96 min Scan# 1581

Delta R.T. 0.08 min

Lab File: BF078423.D

Acq: 11 Apr 2015 5:05

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	976455		
277	25.0		19.0	28.4
138	23.2		19.9	29.9

Instrument :

BNA_F

ClientSampleId :

SP-4

Manual Integrations
APPROVED

apatel
4/13/2015 4:17:08 PM

