

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041015\
 Data File : BF078424.D
 Acq On : 11 Apr 2015 5:33
 Operator : TP/IZ
 Sample : G1823-05
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-3

Manual Integrations
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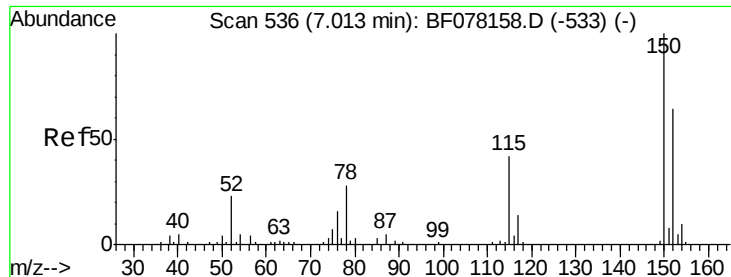
Quant Time: Apr 11 05:25:04 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Apr 11 04:47:05 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	37514	20.00	ng	0.00
21) Naphthalene-d8	8.43	136	157756	20.00	ng	-0.01
38) Acenaphthene-d10	10.59	164	84047	20.00	ng	0.00
63) Phenanthrene-d10	12.42	188	166599	20.00	ng	0.00
75) Chrysene-d12	15.70	240	156995	20.00	ng	0.02
86) Perylene-d12	17.35	264	173735	20.00	ng	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.12	112	225687	99.19	ng	0.01
7) Phenol-d6	6.46	99	298731	104.77	ng	0.01
23) Nitrobenzene-d5	7.56	82	188635	72.48	ng	0.00
41) 2,4,6-Tribromophenol	11.57	330	80840	115.97	ng	0.01
44) 2-Fluorobiphenyl	9.78	172	396384	67.41	ng	0.00
78) Terphenyl-d14	14.42	244	475634	68.46	ng	0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.48	94	8979	2.63	ng	83
31) Naphthalene	8.46	128	59539	7.25	ng	99
37) 2-Methylnaphthalene	9.32	142	30843	5.53	ng	99
45) 1,1'-Biphenyl	9.89	154	15165	2.21	ng	96
48) Acenaphthylene	10.42	152	38478	4.41	ng	97
49) Dimethylphthalate	10.29	163	27994	4.43	ng	97
51) Acenaphthene	10.64	154	180569	36.72	ng	99
54) Dibenzofuran	10.84	168	131646	17.53	ng	99
57) Fluorene	11.27	166	150449	24.71	ng	99
70) Phenanthrene	12.45	178	1783230	185.04	ng	96
71) Anthracene	12.51	178	563220	59.31	ng	99
72) Carbazole	12.73	167	245475	27.58	ng	99
74) Fluoranthene	13.94	202	3341168	328.76	ng	94
77) Pyrene	14.21	202	2857620	289.95	ng	93
80) Benzo(a)anthracene	15.69	228	2055243	220.03	ng	96
82) Chrysene	15.73	228	1371860m	156.31	ng	
83) Bis(2-ethylhexyl)phthalate	15.77	149	43604	7.40	ng	97
85) Indeno(1,2,3-cd)pyrene	18.59	276	1191929m	119.69	ng	
87) Benzo(b)fluoranthene	16.95	252	2583869m	240.64	ng	
88) Benzo(k)fluoranthene	16.97	252	429543m	45.02	ng	
89) Benzo(a)pyrene	17.30	252	1557690	166.23	ng	# 90
90) Dibenzo(a,h)anthracene	18.60	278	299005	31.87	ng	94
91) Benzo(g,h,i)perylene	18.96	276	1032995m	109.82	ng	

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



#1

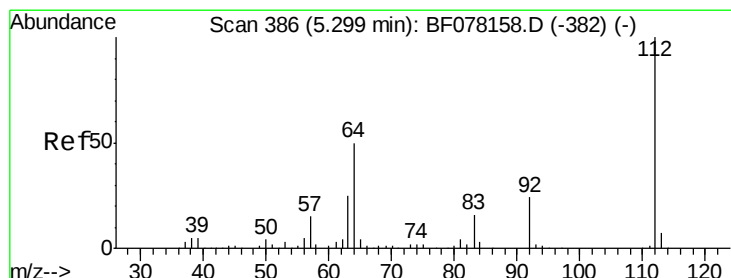
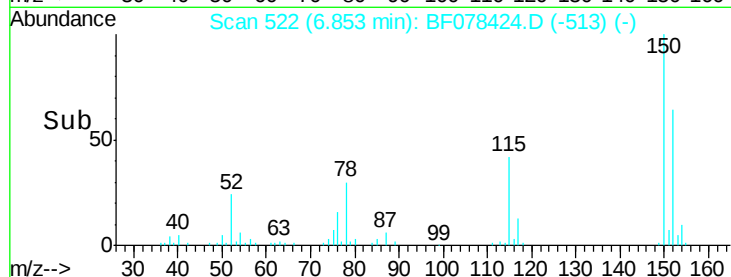
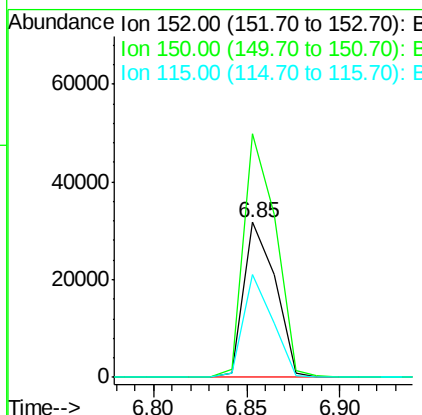
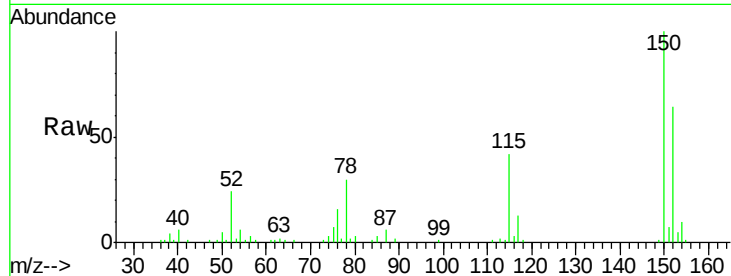
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.85 min Scan# 522
 Delta R.T. 0.00 min
 Lab File: BF078424.D
 Acq: 11 Apr 2015 5:33

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 ClientSampleId :
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Tgt Ion	Ratio	Resp	Lower	Upper
152	100	37514		
150	157.3	125.9	188.9	
115	66.2	52.7	79.1	

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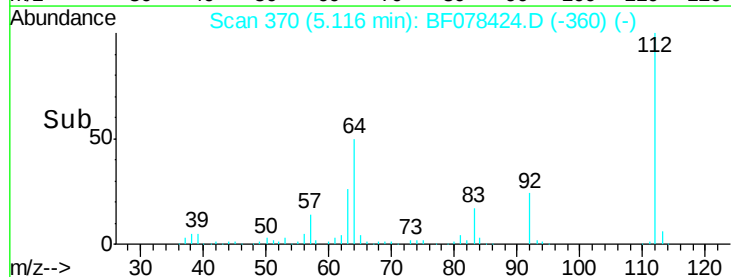
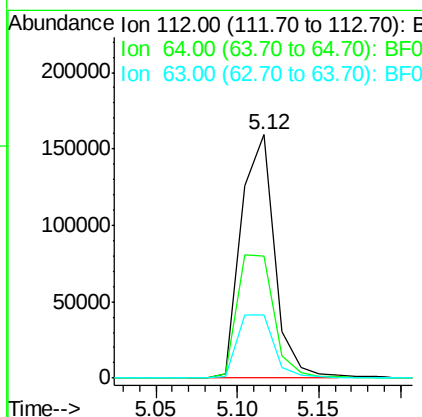
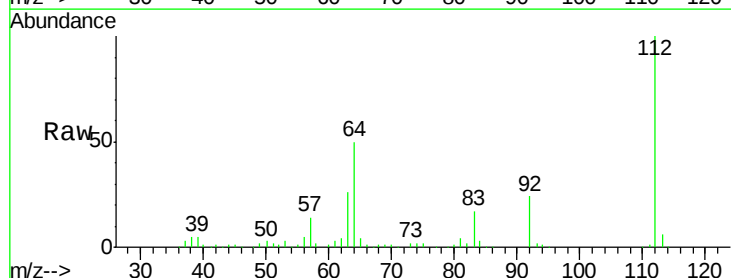
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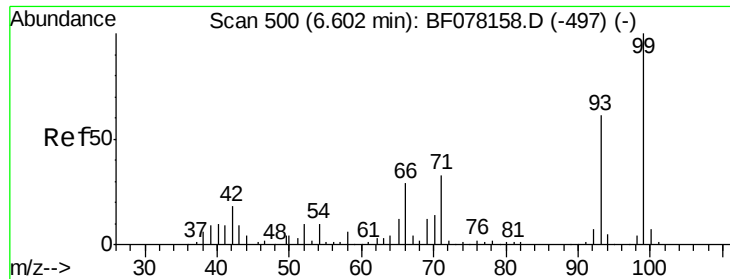


#5

2-Fluorophenol
 Concen: 99.19 ng
 RT: 5.12 min Scan# 370
 Delta R.T. 0.01 min
 Lab File: BF078424.D
 Acq: 11 Apr 2015 5:33

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	225687		
64	50.2	39.9	59.9	
63	25.9	20.2	30.4	





#7

Phenol-d6

Concen: 104.77 ng

RT: 6.46 min Scan# 488

Delta R.T. 0.01 min

Lab File: BF078424.D

Acq: 11 Apr 2015 5:33

Instrument :

BNA_F

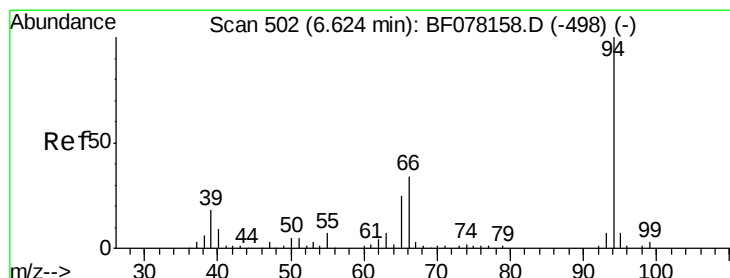
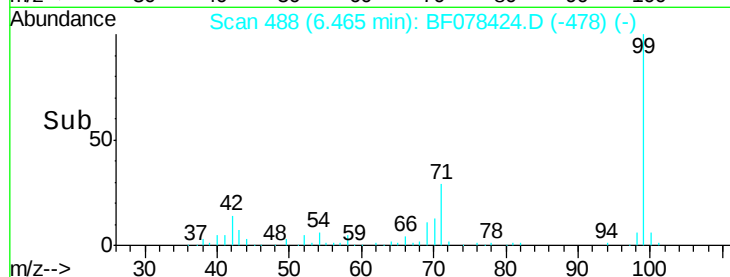
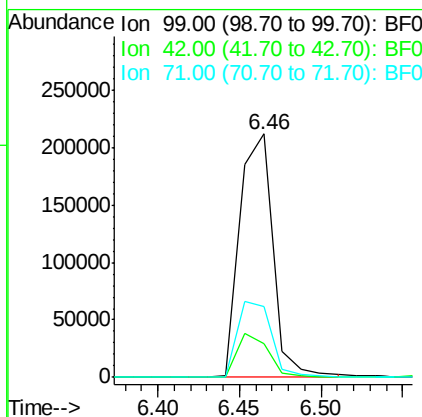
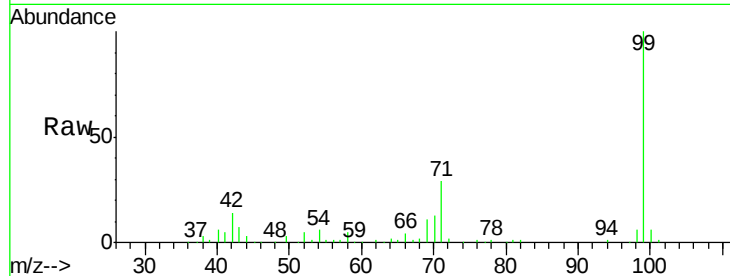
ClientSampled :

SP-3

Tgt Ion:	99	Resp:	298731
Ion Ratio	Lower	Upper	
99	100		
42	14.0	14.8	22.2#
71	29.0	26.6	39.8

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#10

Phenol

Concen: 2.63 ng

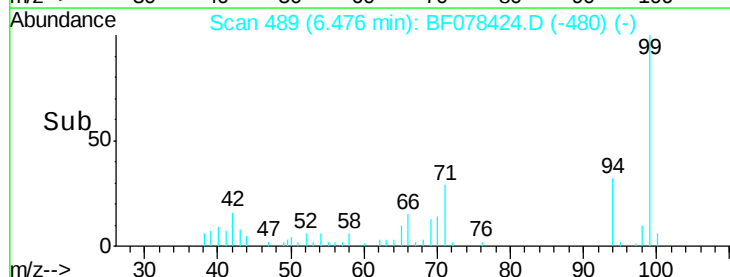
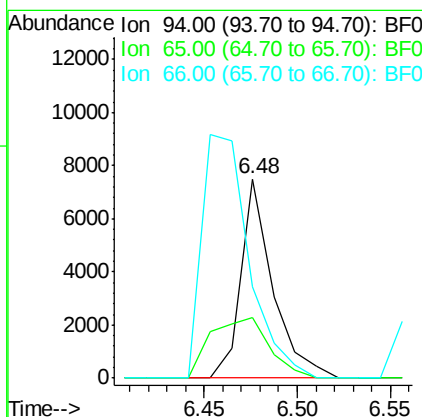
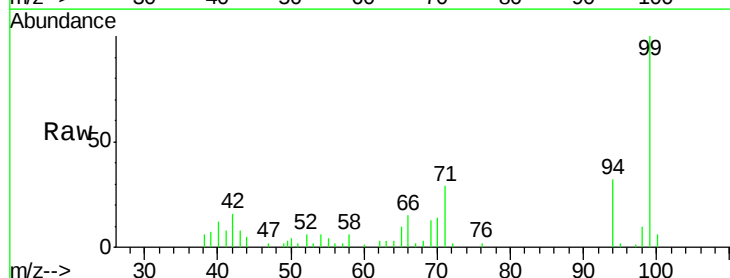
RT: 6.48 min Scan# 489

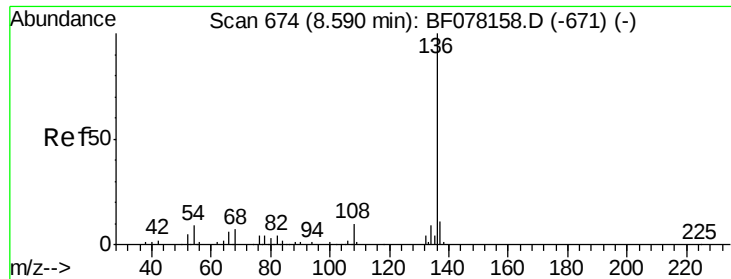
Delta R.T. 0.00 min

Lab File: BF078424.D

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Tgt Ion:	94	Resp:	8979
Ion Ratio	Lower	Upper	
94	100		
65	30.2	4.9	44.9
66	46.0	13.8	53.8





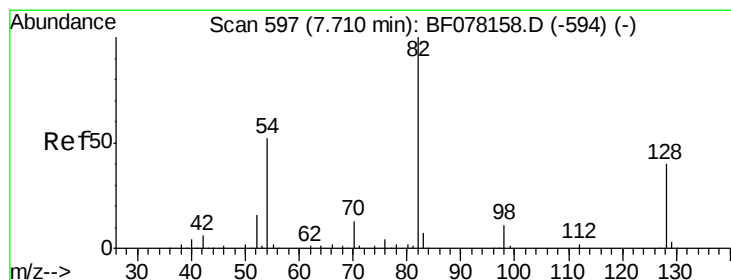
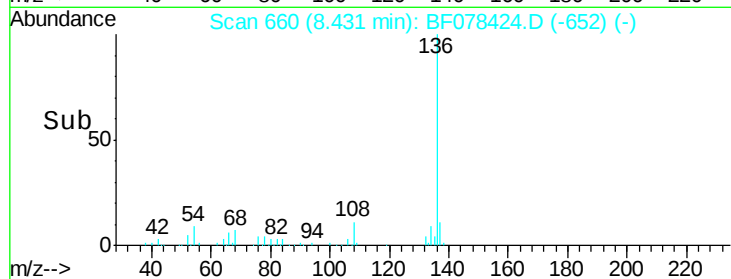
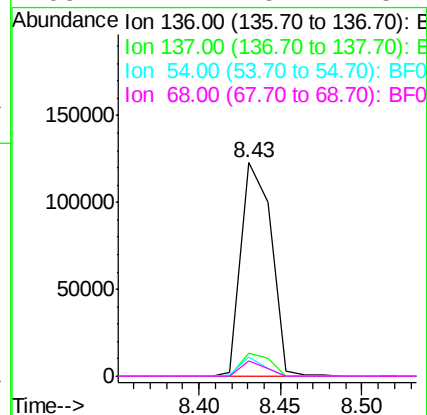
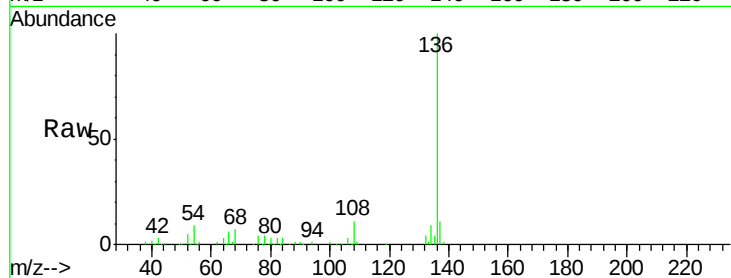
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.43 min Scan# 660
Delta R.T. -0.01 min
Lab File: BF078424.D
Acq: 11 Apr 2015 5:33

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion	Ratio	Resp	Lower	Upper
136	100	157756		
137	11.0	9.0	13.4	
54	8.8	7.0	10.6	
68	7.2	5.4	8.2	

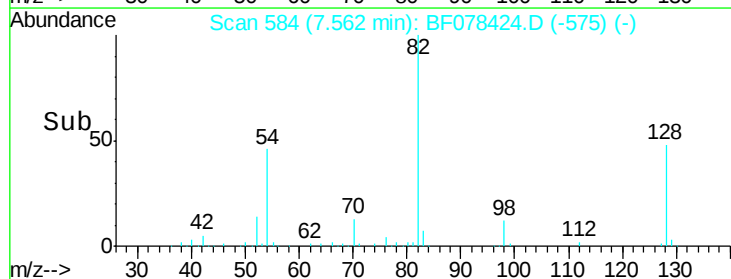
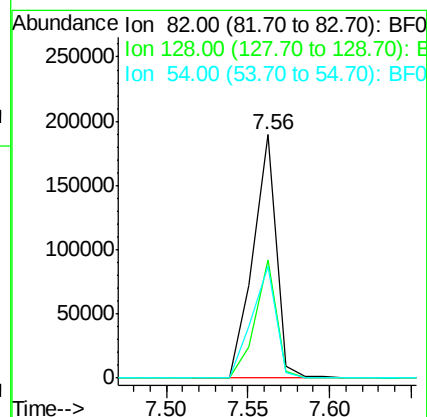
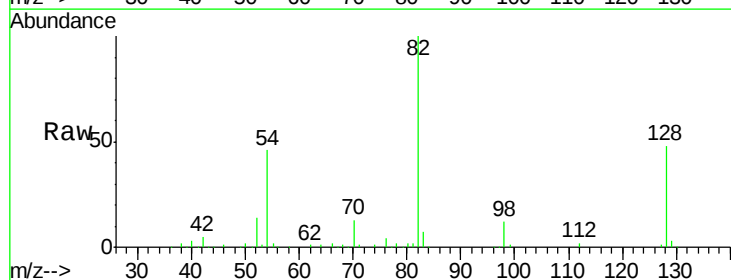
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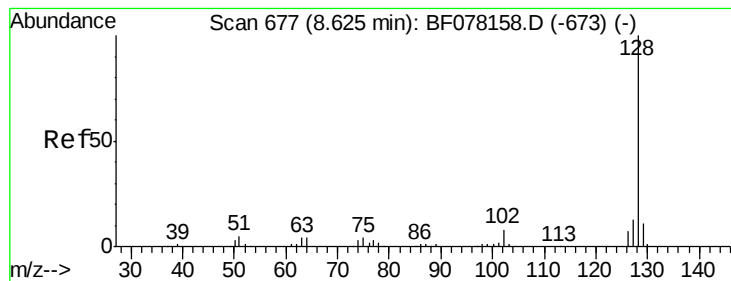
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#23
Nitrobenzene-d5
Concen: 72.48 ng
RT: 7.56 min Scan# 584
Delta R.T. 0.00 min
Lab File: BF078424.D
Acq: 11 Apr 2015 5:33

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	188635		
128	48.3	31.8	47.8#	
54	45.7	41.5	62.3	





#31

Naphthalene

Concen: 7.25 ng

RT: 8.46 min Scan# 663

Delta R.T. 0.00 min

Lab File: BF078424.D

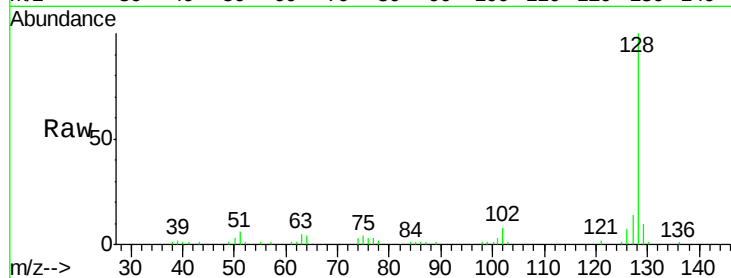
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Instrument :

BNA_F

ClientSampleId :

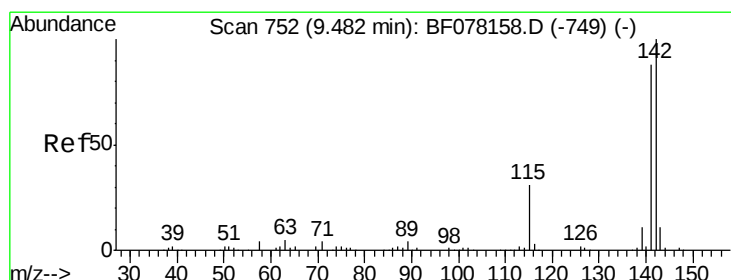
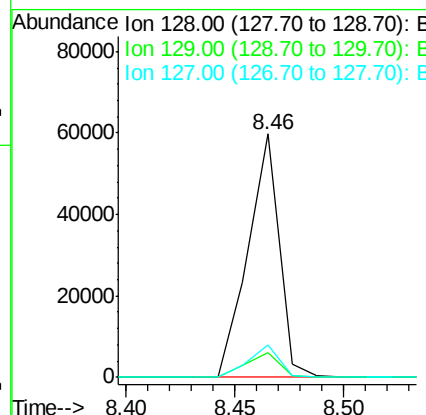
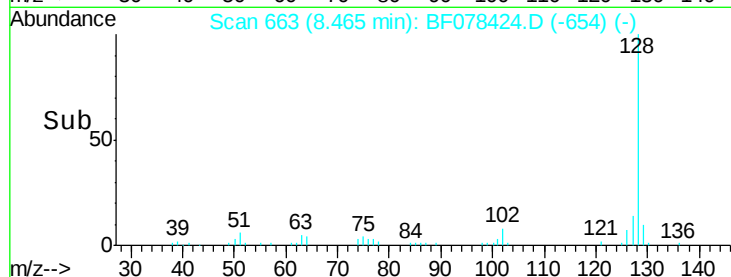
SP-3



Tgt Ion:	128	Resp:	59539
Ion Ratio	Lower	Upper	
128	100		
129	10.3	8.6	12.8
127	13.5	10.7	16.1

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#37

2-Methylnaphthalene

Concen: 5.53 ng

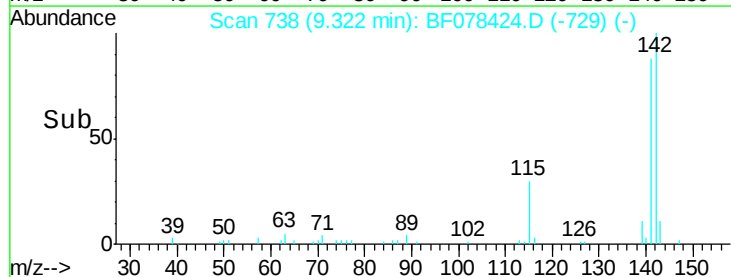
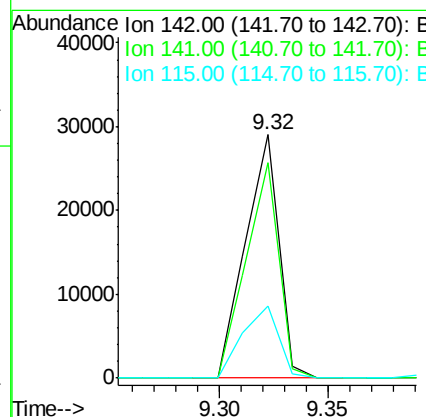
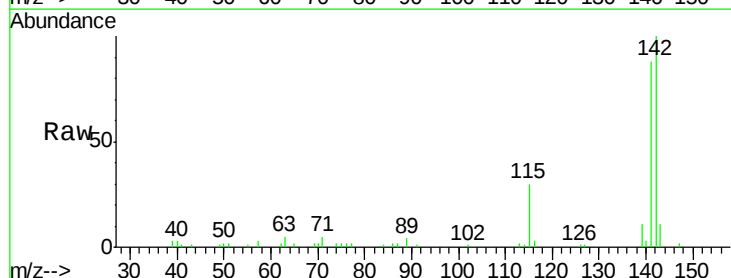
RT: 9.32 min Scan# 738

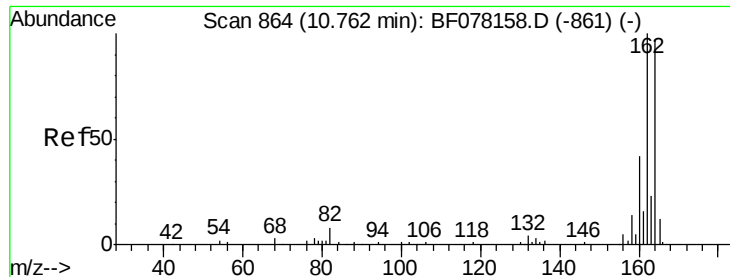
Delta R.T. 0.00 min

Lab File: BF078424.D

Acq: 11 Apr 2015 5:33

Tgt Ion:	142	Resp:	30843
Ion Ratio	Lower	Upper	
142	100		
141	88.3	70.3	105.5
115	29.7	24.6	37.0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.59 min Scan# 849

Delta R.T. 0.00 min

Lab File: BF078424.D

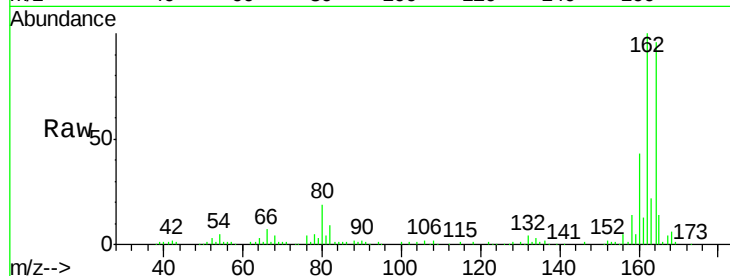
Acq: 11 Apr 2015 5:33

Instrument :

BNA_F

ClientSampleId :

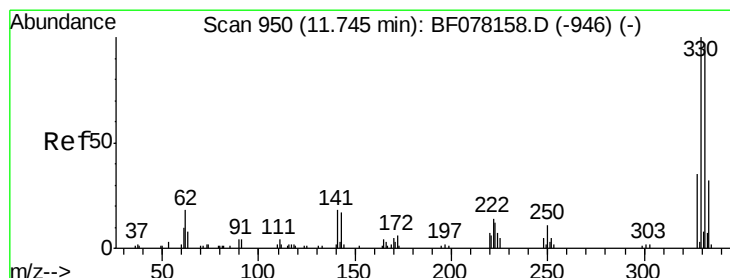
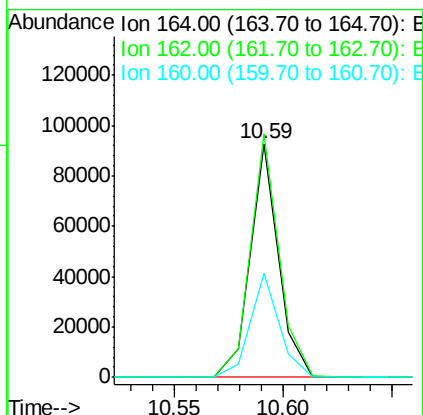
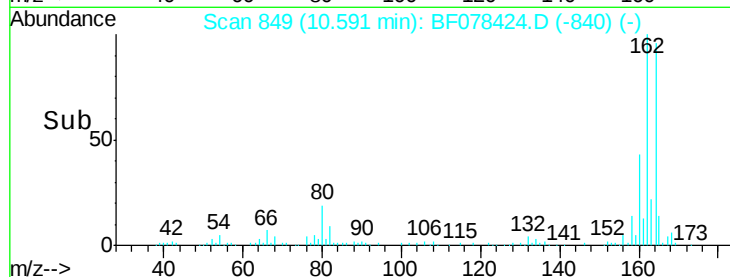
SP-3



Tgt Ion:	164	Resp:	84047
Ion Ratio	Lower	Upper	
164	100		
162	104.3	82.2	123.2
160	44.8	34.7	52.1

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#41

2,4,6-Tribromophenol

Concen: 115.97 ng

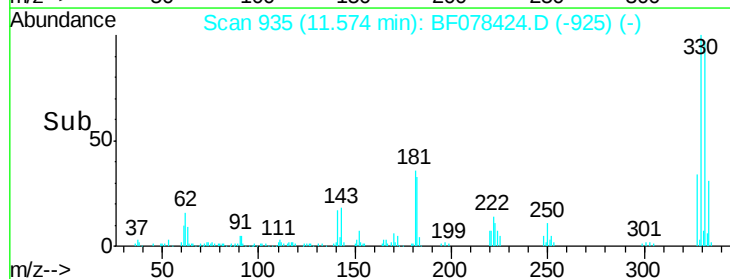
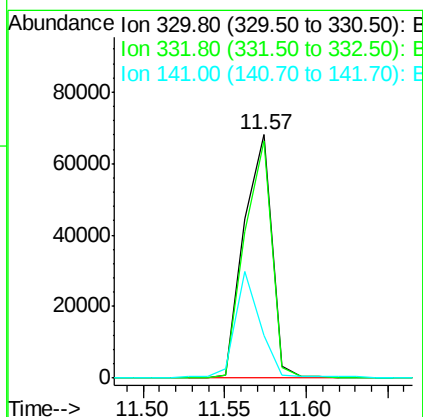
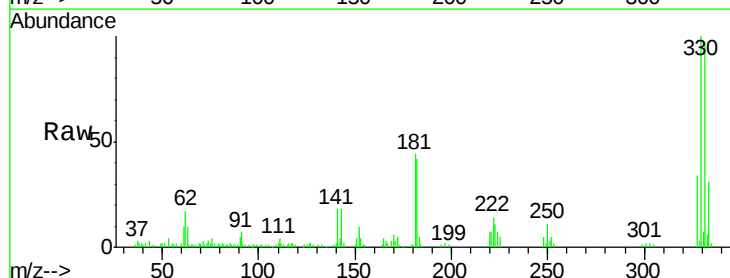
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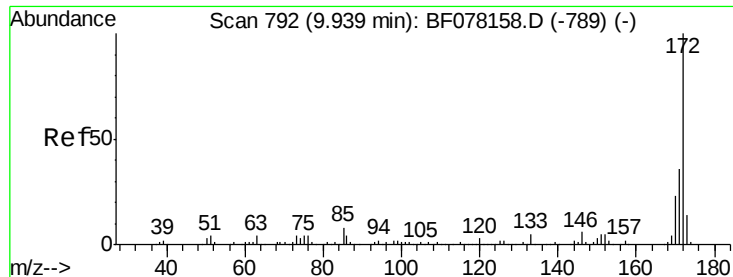
Delta R.T. 0.01 min

Lab File: BF078424.D

Acq: 11 Apr 2015 5:33

Tgt Ion:	330	Resp:	80840
Ion Ratio	Lower	Upper	
330	100		
332	95.1	78.6	117.8
141	39.9	31.2	46.8





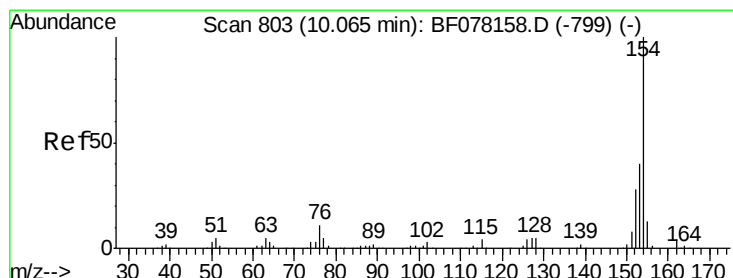
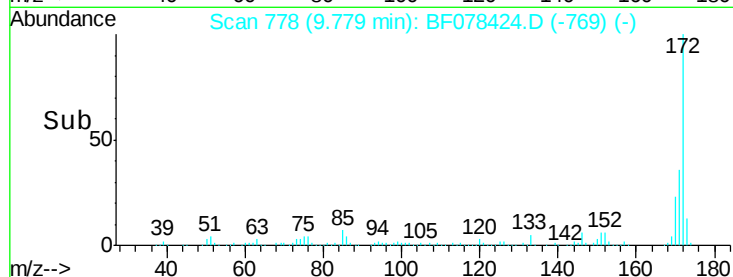
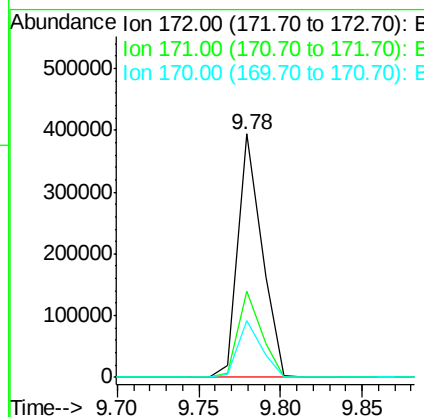
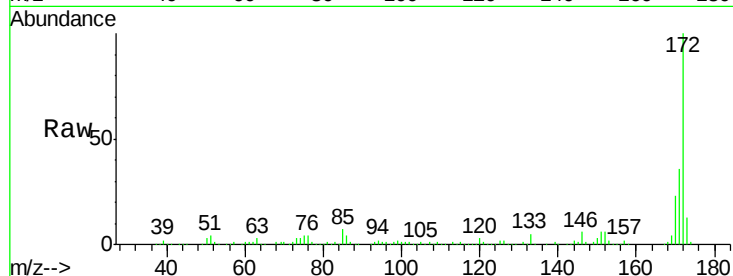
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 2-Fluorobiphenyl
 Concen: 67.41 ng
 RT: 9.78 min Scan# 778
 Delta R.T. 0.00 min
 Lab File: BF078424.D
 Acq: 11 Apr 2015 5:33

Instrument :
 BNA_F
 ClientSampled :
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Tgt Ion:	172	Resp:	396384
Ion Ratio	Lower	Upper	
172	100		
171	35.5	28.6	42.8
170	23.2	18.5	27.7

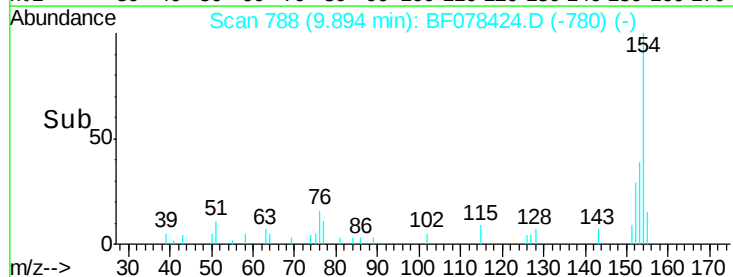
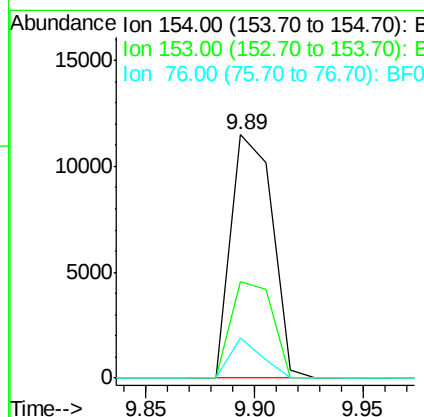
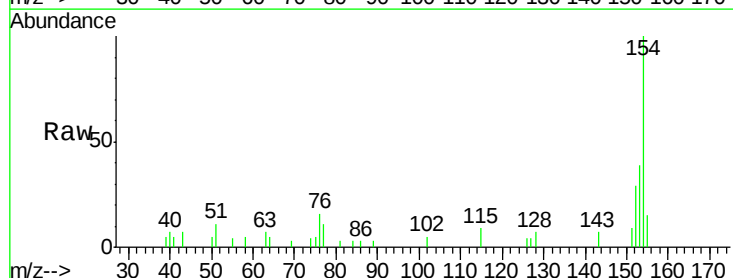
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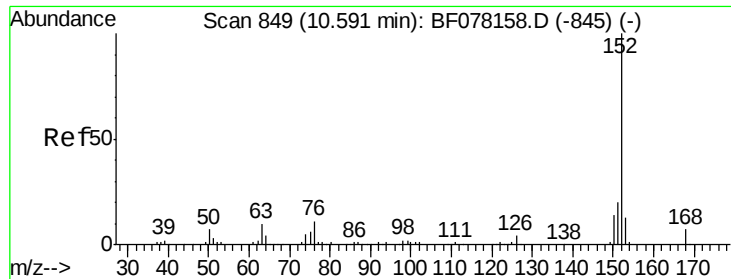
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#45
 1,1'-Biphenyl
 Concen: 2.21 ng
 RT: 9.89 min Scan# 788
 Delta R.T. -0.01 min
 Lab File: BF078424.D
 Acq: 11 Apr 2015 5:33

Tgt Ion:	154	Resp:	15165
Ion Ratio	Lower	Upper	
154	100		
153	39.3	20.0	60.0
76	16.3	0.0	30.6





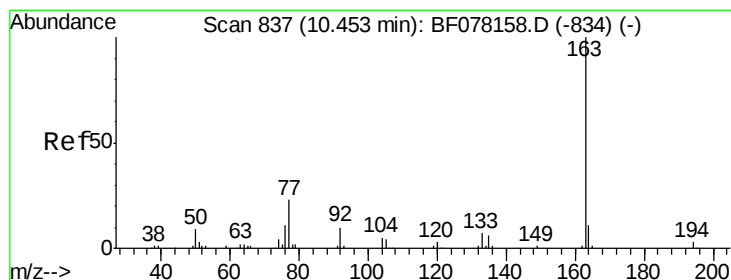
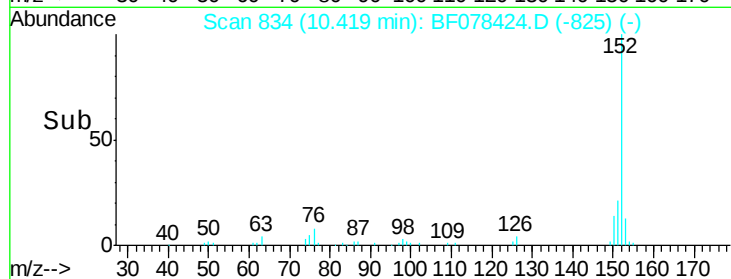
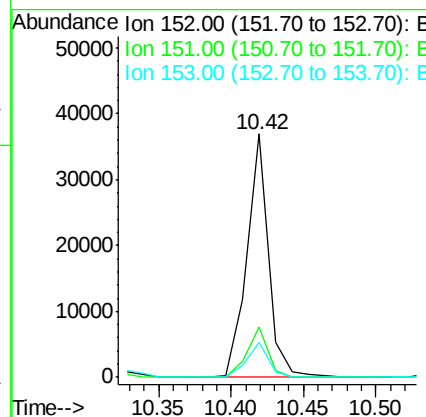
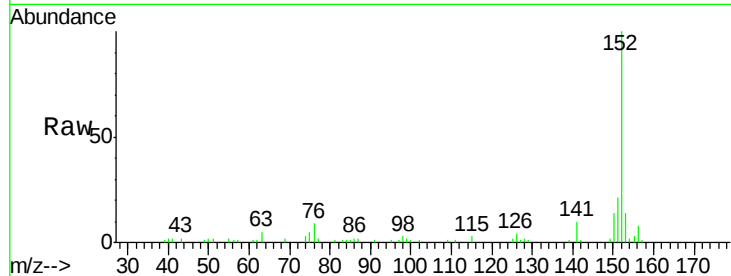
#48
Acenaphthylene
Concen: 4.41 ng
RT: 10.42 min Scan# 834
Delta R.T. 0.00 min
Lab File: BF078424.D
Acq: 11 Apr 2015 5:33

Instrument :
BNA_F
ClientSampleId :
SP-3

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	38478		
151	20.6	15.7	23.5	
153	14.2	10.2	15.2	

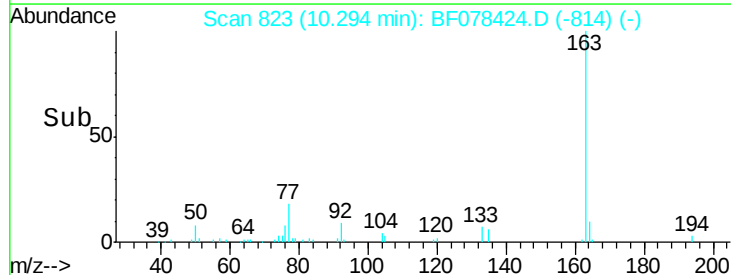
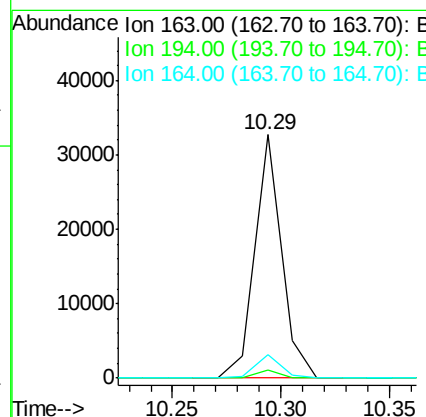
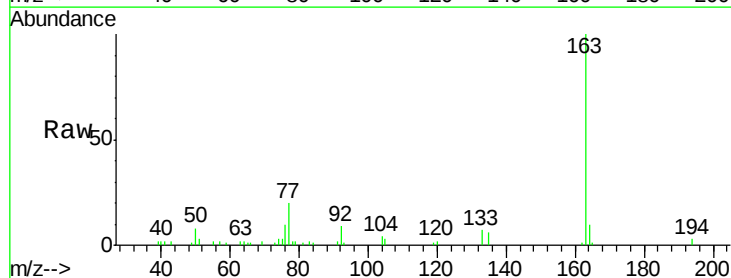
Manual Integrations
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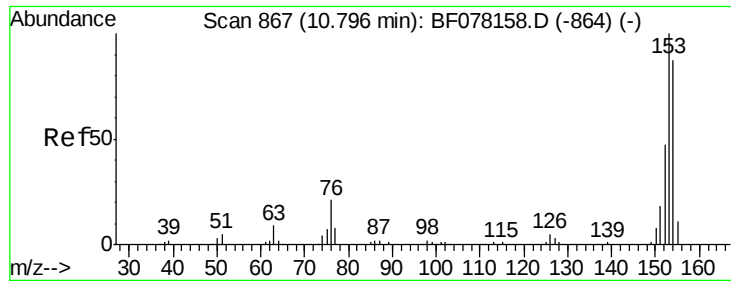
apatel
4/13/2015 4:17:14 PM



#49
Dimethylphthalate
Concen: 4.43 ng
RT: 10.29 min Scan# 823
Delta R.T. 0.00 min
Lab File: BF078424.D
Acq: 11 Apr 2015 5:33

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	27994		
194	3.1	2.3	3.5	
164	9.6	8.6	13.0	





#51

Acenaphthene

Concen: 36.72 ng

RT: 10.64 min Scan# 853

Delta R.T. 0.00 min

Lab File: BF078424.D

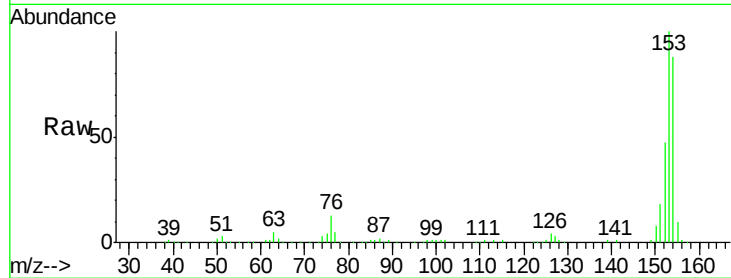
Acq: 11 Apr 2015 5:33

Instrument :

BNA_F

ClientSampleId :

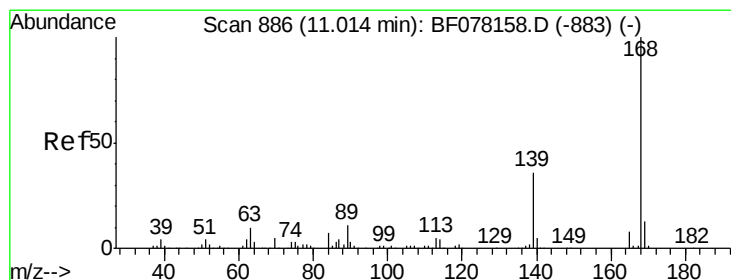
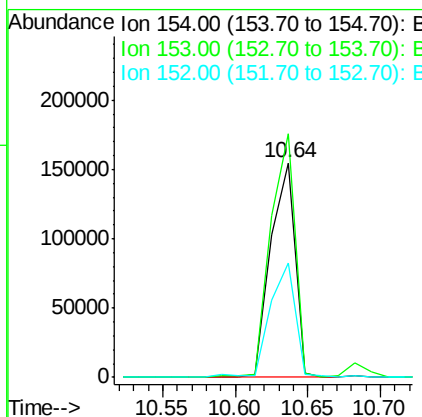
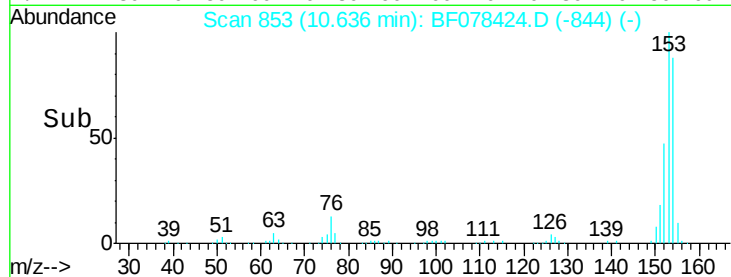
SP-3



Tgt Ion:	154	Resp:	180569
Ion Ratio	Lower	Upper	
154	100		
153	113.6	91.4	137.2
152	53.4	43.0	64.6

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#54

Dibenzofuran

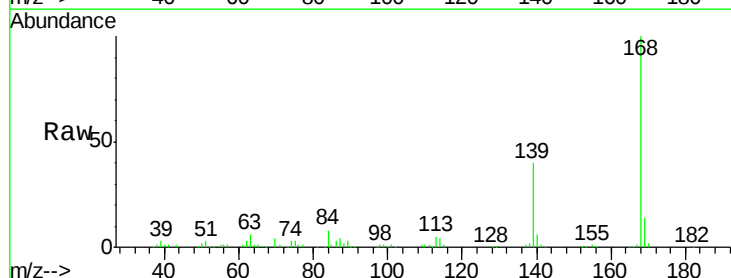
Concen: 17.53 ng

RT: 10.84 min Scan# 871

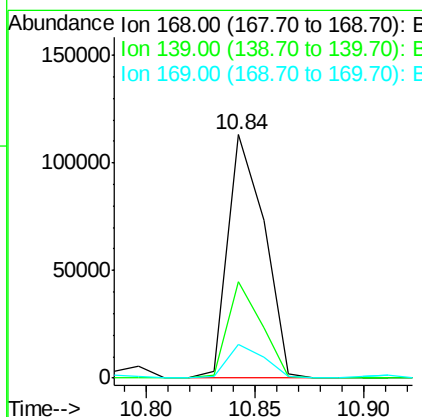
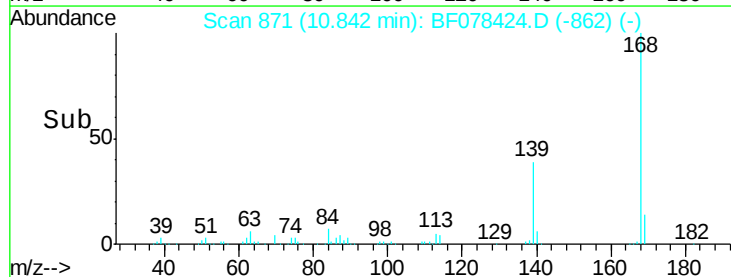
Delta R.T. 0.00 min

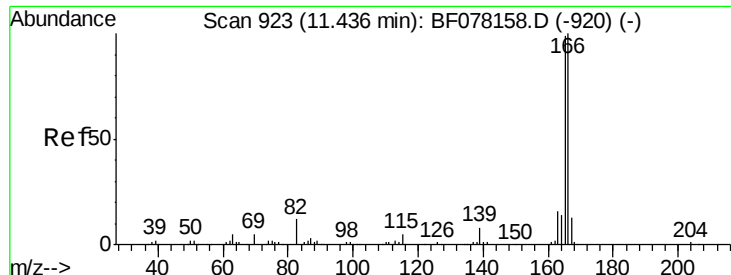
Lab File: BF078424.D

Acq: 11 Apr 2015 5:33



Tgt Ion:	168	Resp:	131646
Ion Ratio	Lower	Upper	
168	100		
139	39.7	31.0	46.4
169	13.8	10.7	16.1





#57

Fluorene

Concen: 24.71 ng

RT: 11.27 min Scan# 908

Delta R.T. 0.00 min

Lab File: BF078424.D

Acq: 11 Apr 2015 5:33

Instrument :

BNA_F

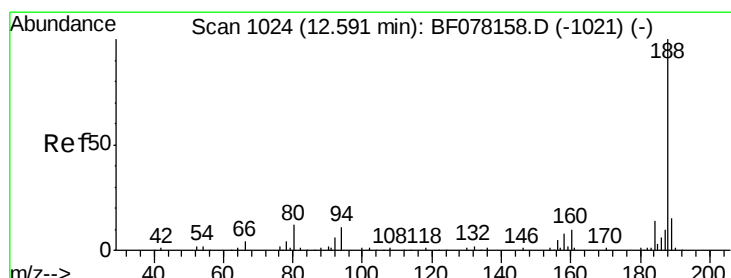
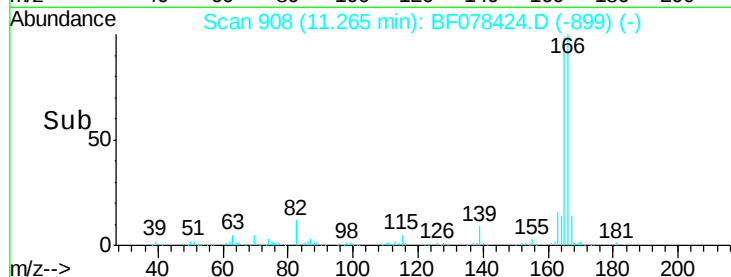
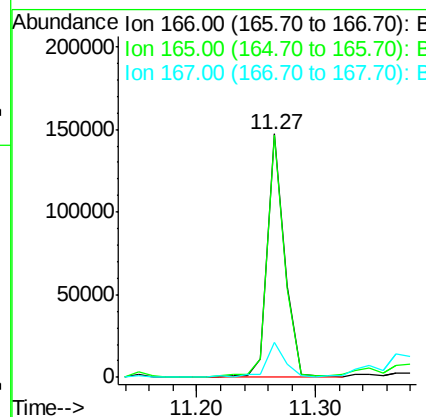
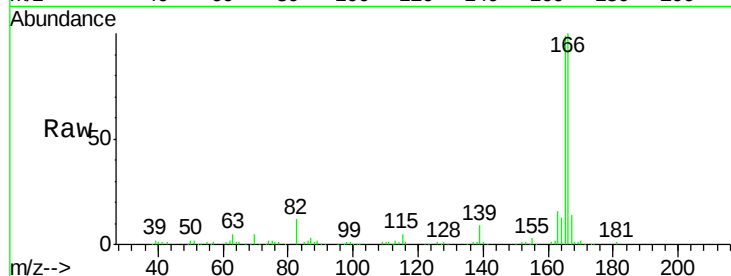
ClientSampleId :

SP-3

Tgt Ion:	166	Resp:	150449
Ion Ratio	Lower	Upper	
166	100		
165	99.5	78.9	118.3
167	14.3	10.7	16.1

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#63

Phenanthrene-d10

Concen: 20.00 ng

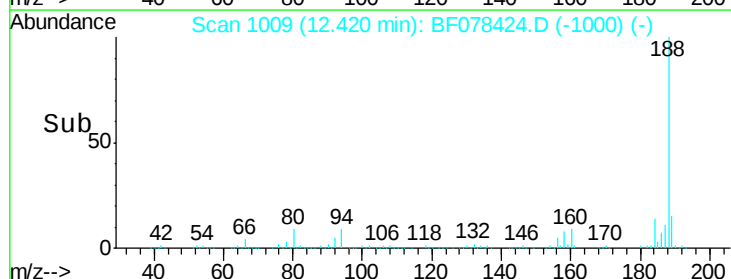
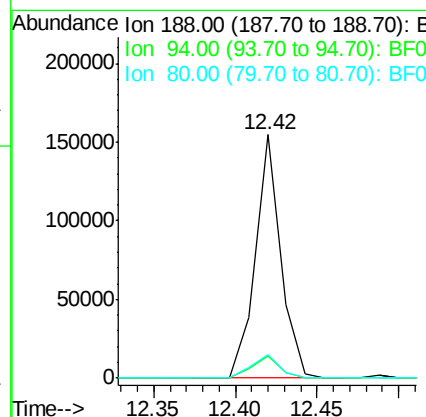
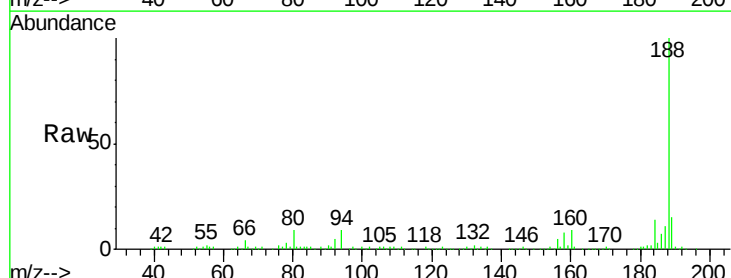
RT: 12.42 min Scan# 1009

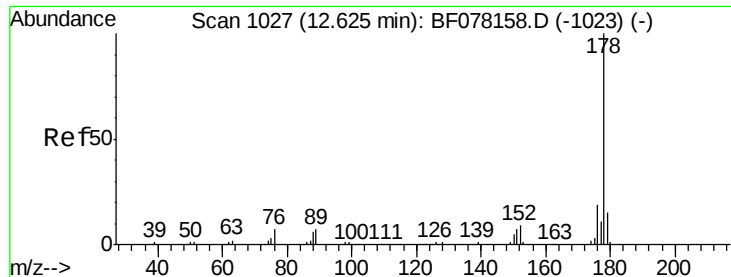
Delta R.T. 0.00 min

Lab File: BF078424.D

Acq: 11 Apr 2015 5:33

Tgt Ion:	188	Resp:	166599
Ion Ratio	Lower	Upper	
188	100		
94	9.3	9.0	13.4
80	9.4	9.5	14.3#





#70

Phenanthrene

Concen: 185.04 ng

RT: 12.45 min Scan# 1012

Delta R.T. 0.01 min

Lab File: BF078424.D

Acq: 11 Apr 2015 5:33

Instrument :

BNA_F

ClientSampleId :

SP-3

Tgt Ion:178 Resp: 1783230

Ion Ratio Lower Upper

178 100

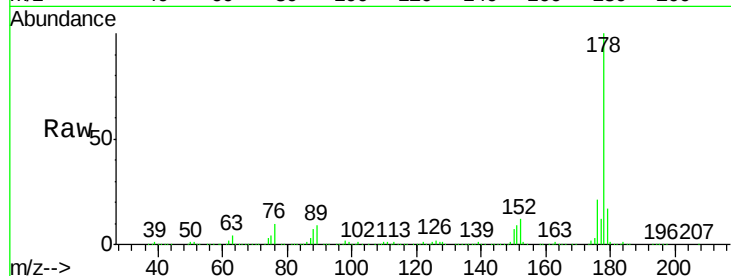
176 21.0 15.4 23.0

179 16.5 12.2 18.2

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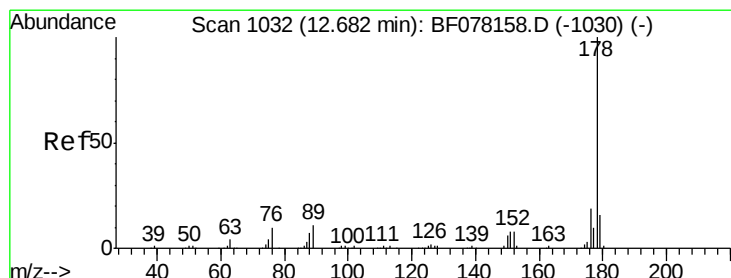
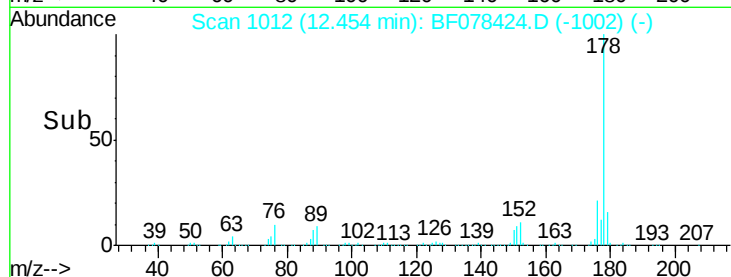
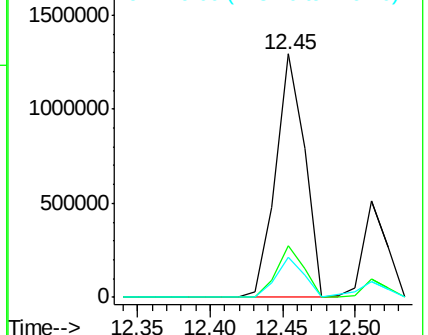
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 59.31 ng

RT: 12.51 min Scan# 1017

Delta R.T. 0.00 min

Lab File: BF078424.D

Acq: 11 Apr 2015 5:33

Tgt Ion:178 Resp: 563220

Ion Ratio Lower Upper

178 100

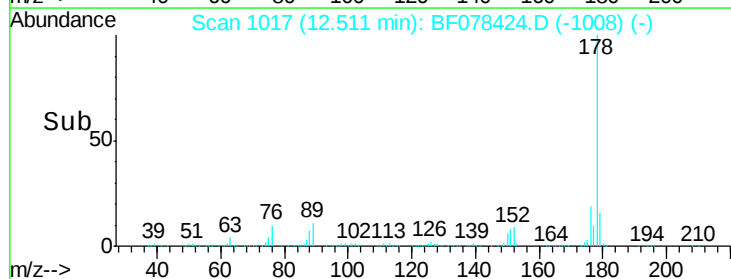
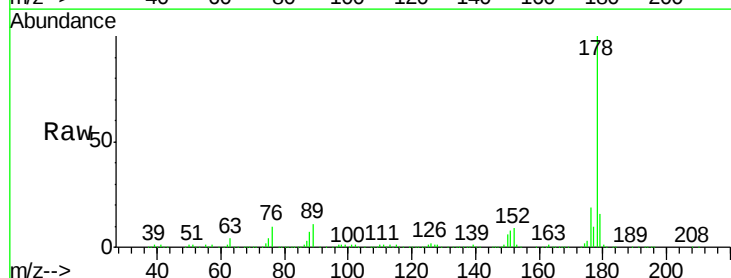
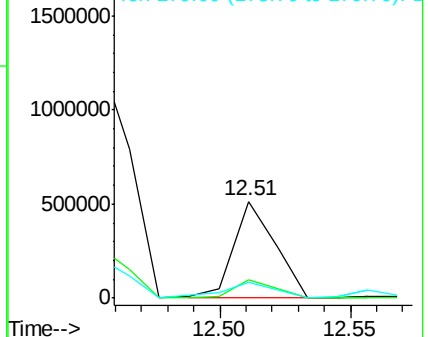
176 18.8 14.8 22.2

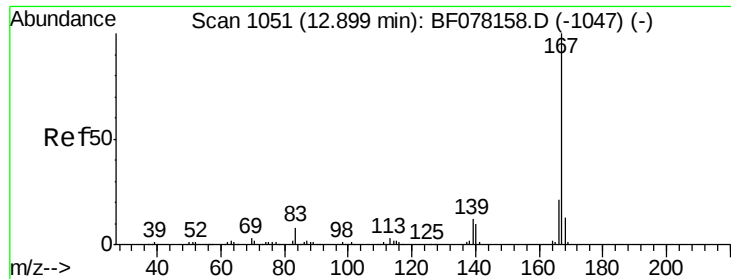
179 16.3 12.4 18.6

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: 27.58 ng

RT: 12.73 min Scan# 1036

Delta R.T. 0.00 min

Lab File: BF078424.D

Acq: 11 Apr 2015 5:33

Instrument :

BNA_F

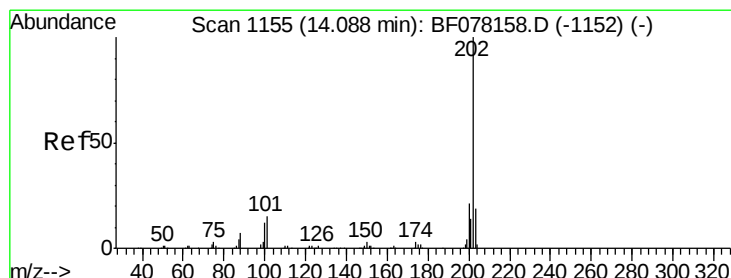
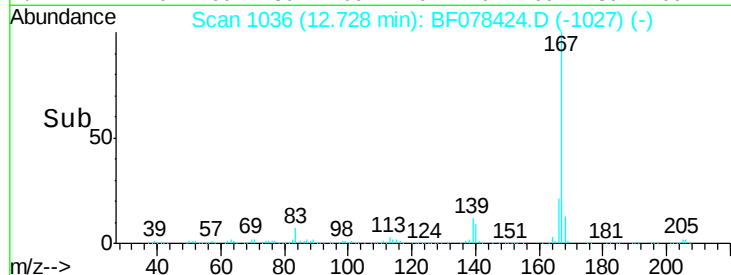
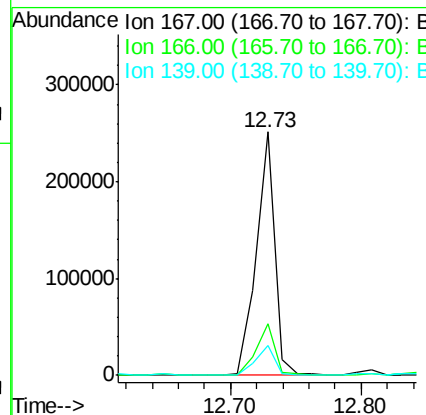
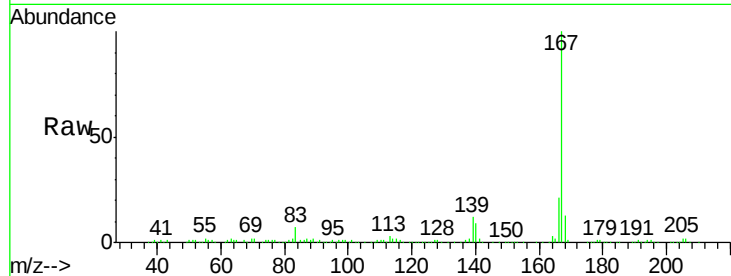
ClientSampleId :

SP-3

Tgt Ion:	167	Resp:	245475
Ion Ratio	Lower	Upper	
167	100		
166	21.3	16.8	25.2
139	12.4	10.0	15.0

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#74

Fluoranthene

Concen: 328.76 ng

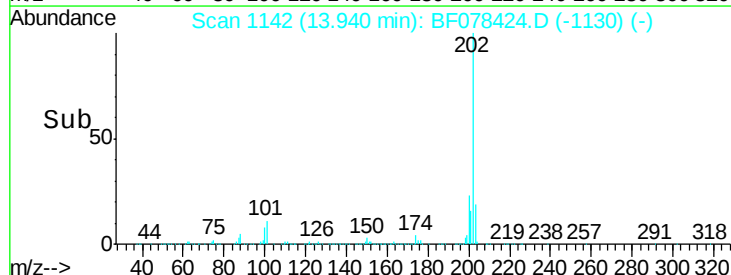
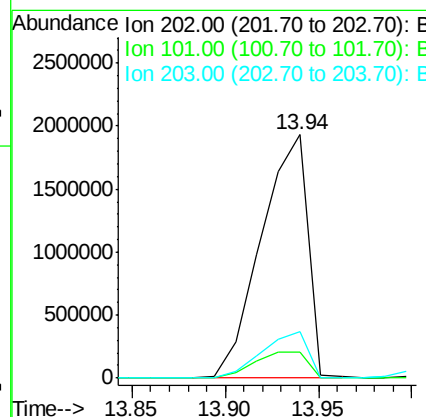
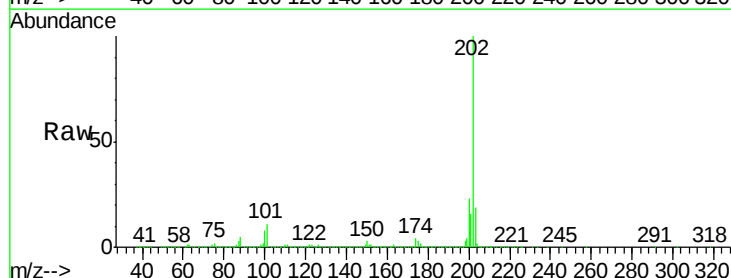
RT: 13.94 min Scan# 1142

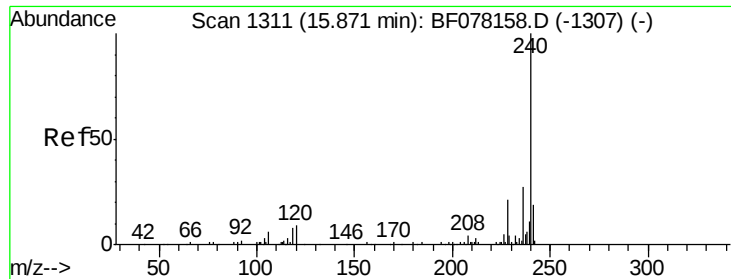
Delta R.T. 0.03 min

Lab File: BF078424.D

Acq: 11 Apr 2015 5:33

Tgt Ion:	202	Resp:	3341168
Ion Ratio	Lower	Upper	
202	100		
101	10.8	0.0	35.2
203	19.3	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: BF078424.D

Acq: 11 Apr 2015 5:33

Instrument :

BNA_F

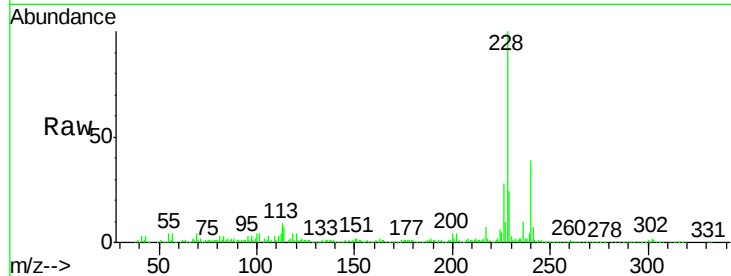
ClientSampled :

SP-3

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	156995		
120	11.2	7.1	10.7#	
236	26.3	21.4	32.2	

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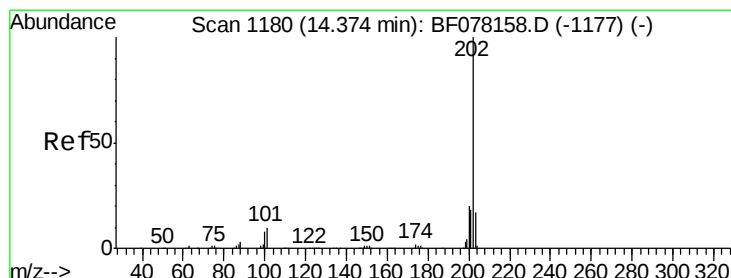
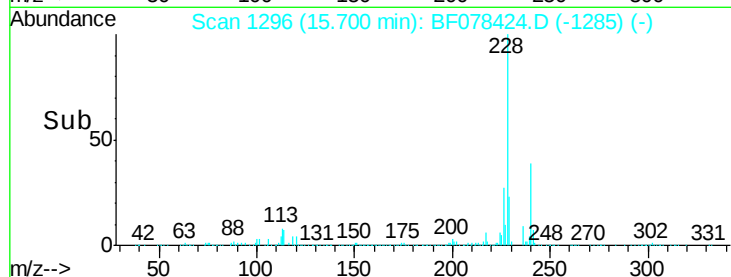
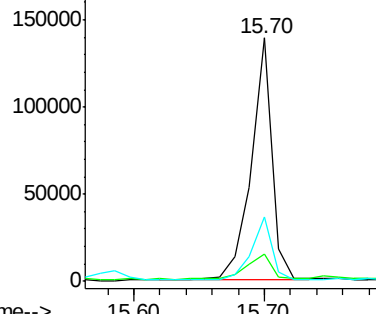
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 289.95 ng

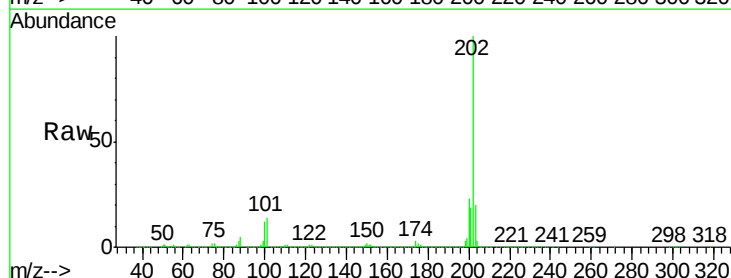
RT: 14.21 min Scan# 1166

Delta R.T. 0.03 min

Lab File: BF078424.D

Acq: 11 Apr 2015 5:33

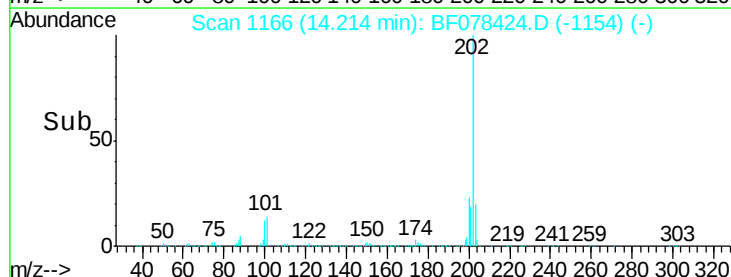
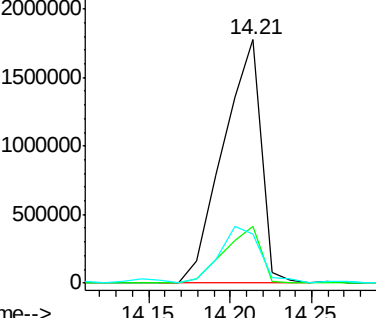
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	2857620		
200	23.5	16.3	24.5	
203	20.0	13.8	20.6	

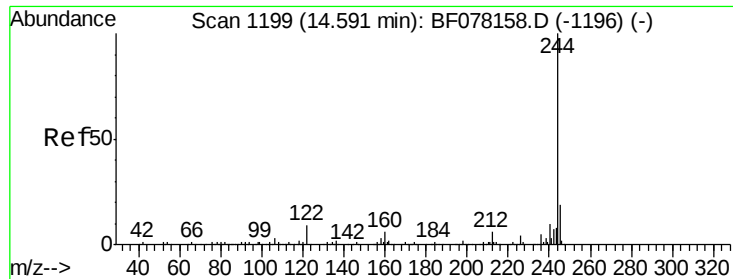


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





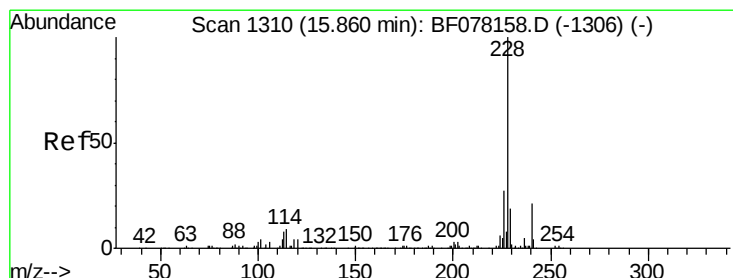
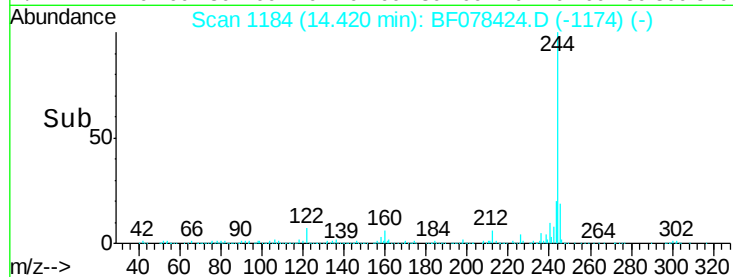
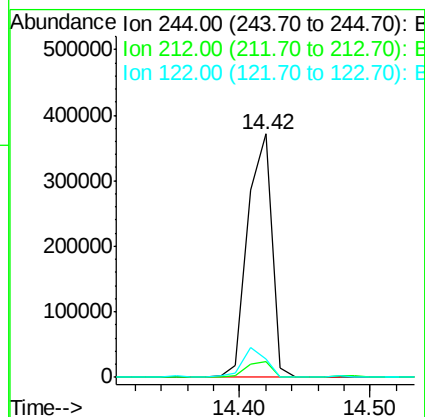
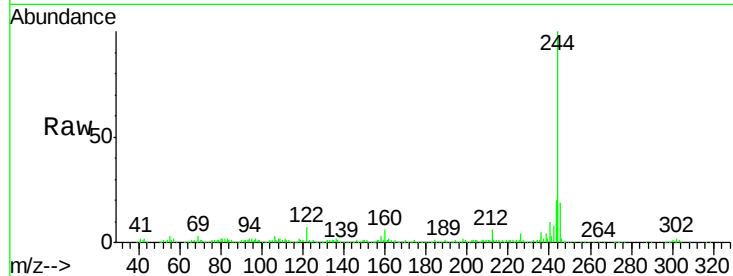
#78
 Terphenyl-d14
 Concen: 68.46 ng
 RT: 14.42 min Scan# 1184
 Delta R.T. 0.01 min
 Lab File: BF078424.D
 Acq: 11 Apr 2015 5:33

Instrument :
 BNA_F
 ClientSampled :
 SP-3

Tgt Ion:	244	Resp:	475634
Ion Ratio	Lower	Upper	
244	100		
212	6.3	5.0	7.4
122	7.4	7.1	10.7

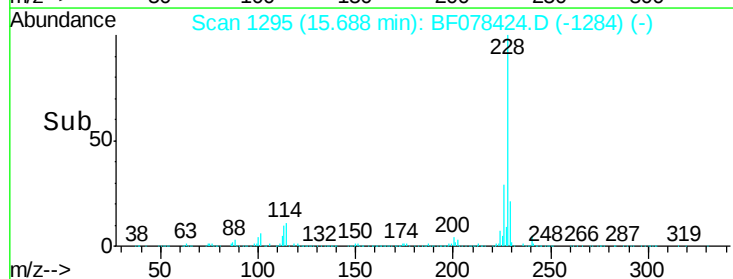
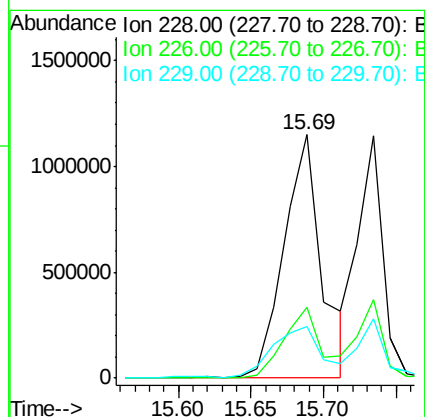
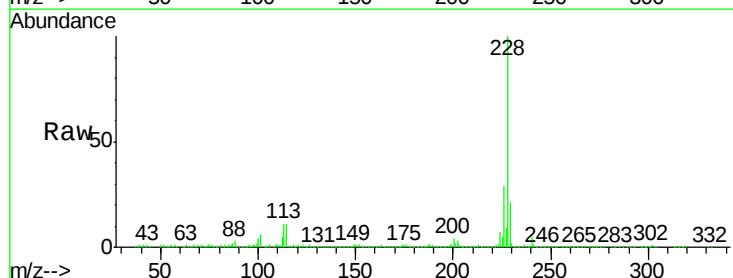
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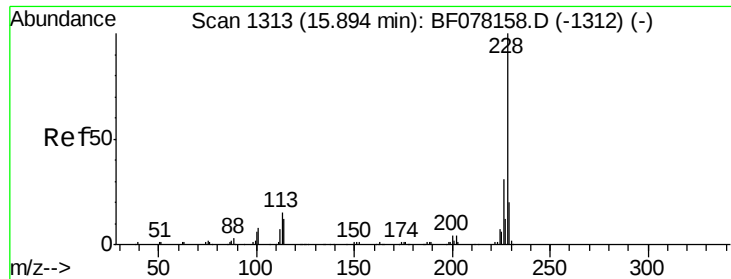
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#80
 Benzo(a)anthracene
 Concen: 220.03 ng
 RT: 15.69 min Scan# 1295
 Delta R.T. 0.02 min
 Lab File: BF078424.D
 Acq: 11 Apr 2015 5:33

Tgt Ion:	228	Resp:	2055243
Ion Ratio	Lower	Upper	
228	100		
226	28.9	21.3	31.9
229	21.4	15.4	23.2





#82

Chrysene

Concen: 156.31 ng m

RT: 15.73 min Scan# 1299

Delta R.T. 0.02 min

Lab File: BF078424.D

Acq: 11 Apr 2015 5:33

Instrument :

BNA_F

ClientSampled :

SP-3

Tgt Ion:228 Resp: 1371860

Ion Ratio Lower Upper

228 100

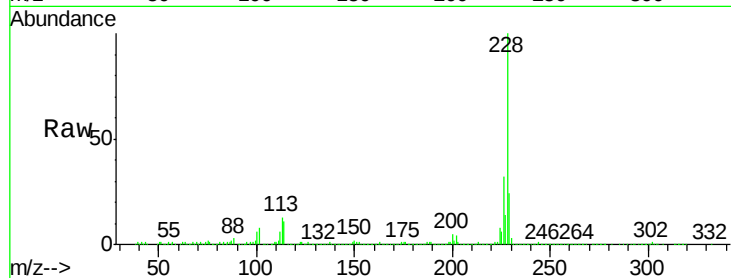
226 32.1 24.2 36.4

229 24.2 15.8 23.8#

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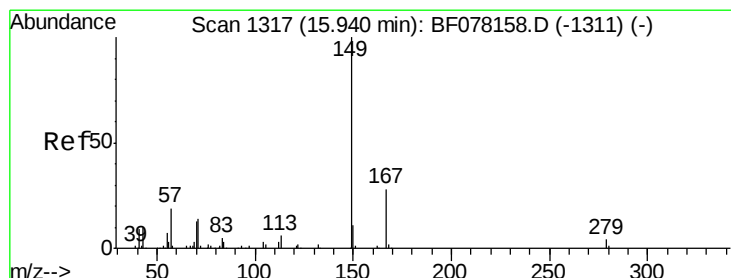
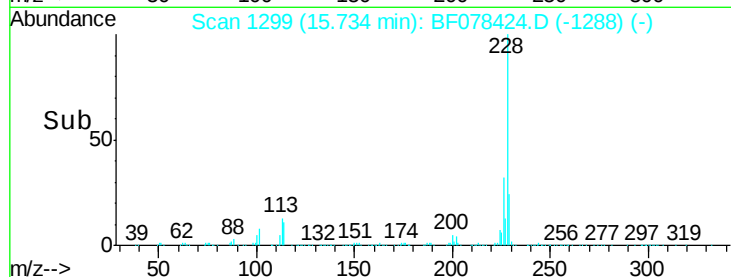
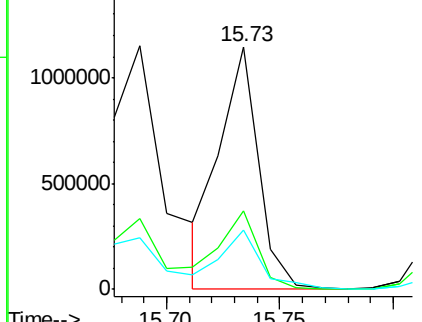
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 7.40 ng

RT: 15.77 min Scan# 1302

Delta R.T. 0.01 min

Lab File: BF078424.D

Acq: 11 Apr 2015 5:33

Tgt Ion:149 Resp: 43604

Ion Ratio Lower Upper

149 100

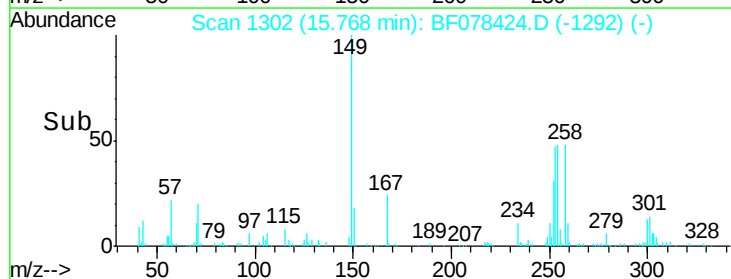
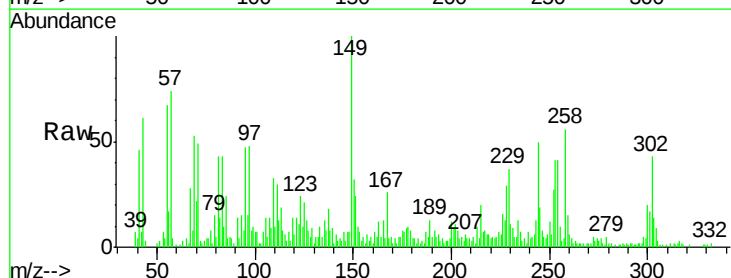
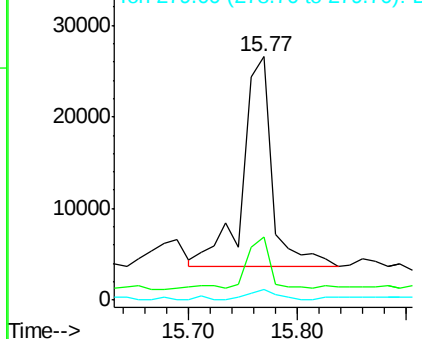
167 26.0 22.2 33.2

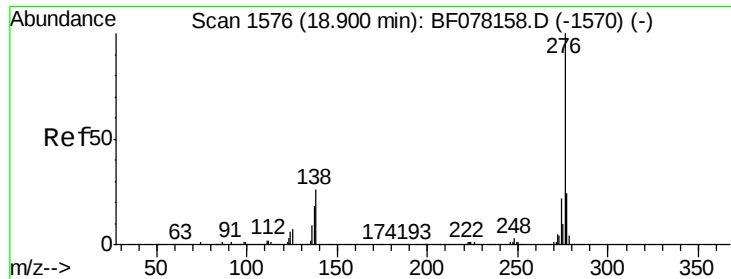
279 4.6 3.2 4.8

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





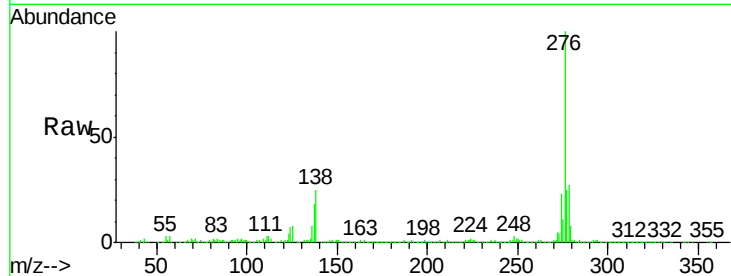
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 119.69 ng m
 RT: 18.59 min Scan# 1549
 Delta R.T. 0.07 min
 Lab File: BF078424.D
 Acq: 11 Apr 2015 5:33

Instrument :
 BNA_F
 ClientSampleId :
 SP-3

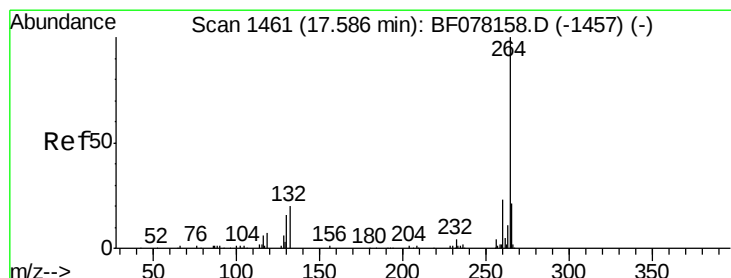
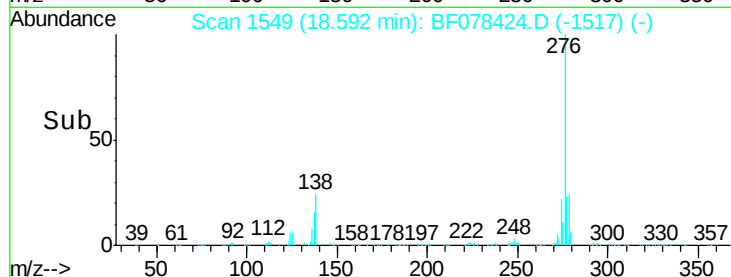
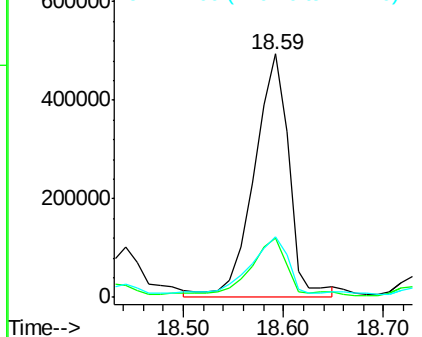
Tgt Ion	Ratio	Lower	Upper
276	100		
138	4.8	16.9	25.3#
277	4.4	15.8	23.6#

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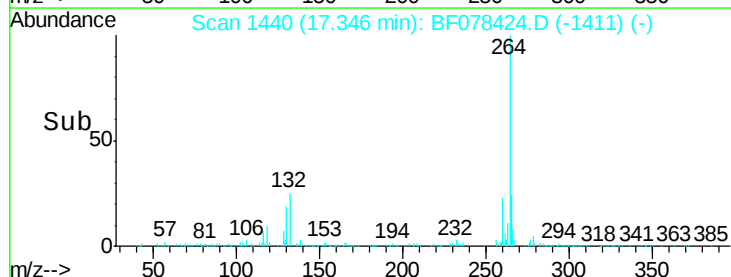
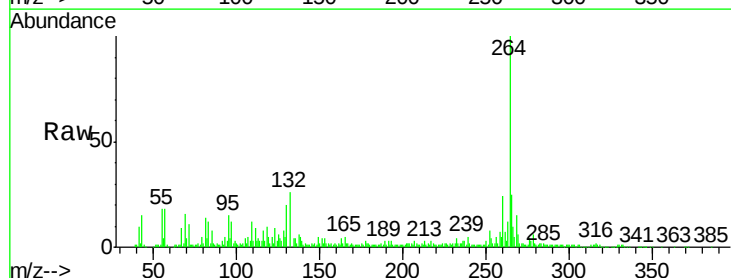
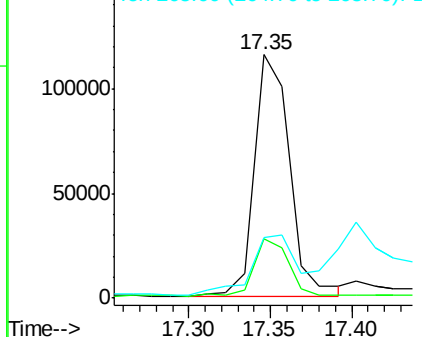
Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

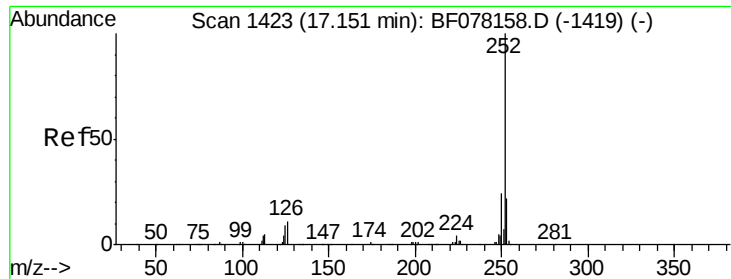


#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 17.35 min Scan# 1440
 Delta R.T. 0.03 min
 Lab File: BF078424.D
 Acq: 11 Apr 2015 5:33

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	18.6	27.8
265	25.1	17.0	25.6

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: 240.64 ng m

RT: 16.95 min Scan# 1405

Delta R.T. 0.03 min

Lab File: BF078424.D

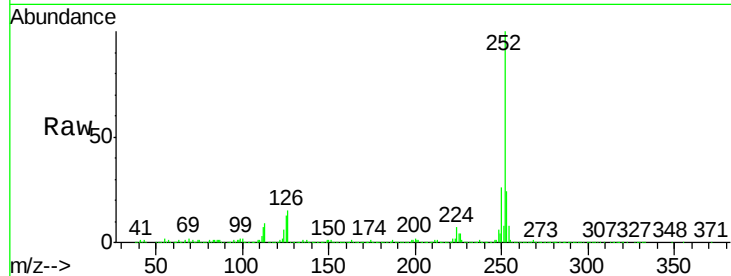
Acq: 11 Apr 2015 5:33

Instrument :

BNA_F

ClientSampled :

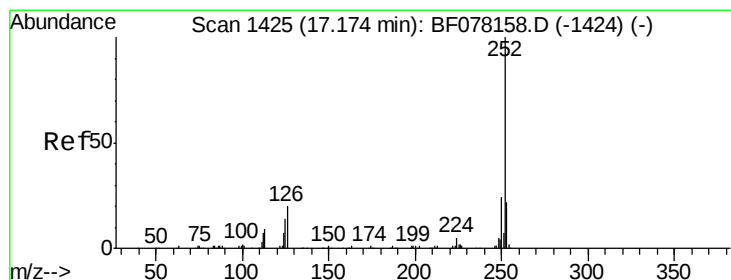
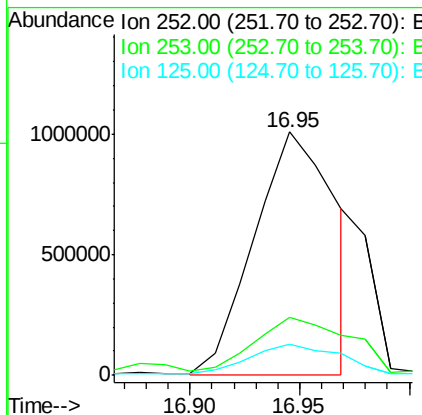
SP-3



Tgt Ion:	252	Resp:	2583869
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.2	25.8
125	12.9	7.0	10.4

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#88

Benzo(k)fluoranthene

Concen: 45.02 ng m

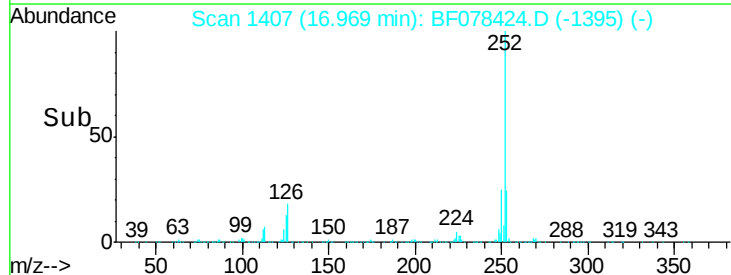
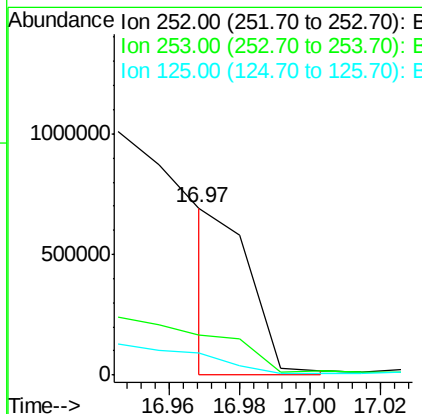
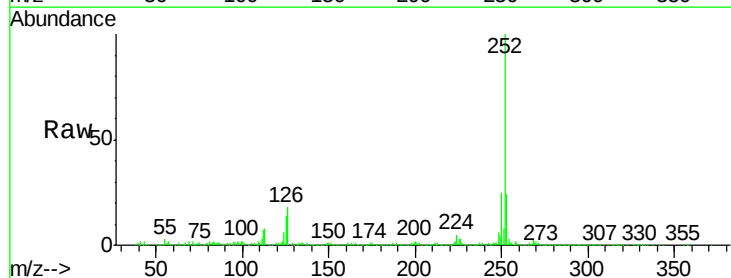
RT: 16.97 min Scan# 1407

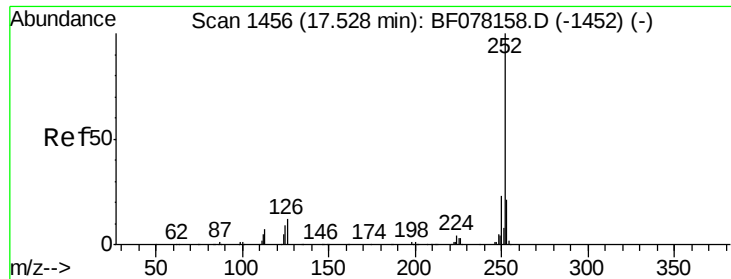
Delta R.T. 0.03 min

Lab File: BF078424.D

Acq: 11 Apr 2015 5:33

Tgt Ion:	252	Resp:	429543
Ion Ratio	Lower	Upper	
252	100		
253	24.2	17.5	26.3
125	13.5	11.6	17.4





#89

Benzo(a)pyrene

Concen: 166.23 ng

RT: 17.30 min Scan# 1436

Delta R.T. 0.05 min

Lab File: BF078424.D

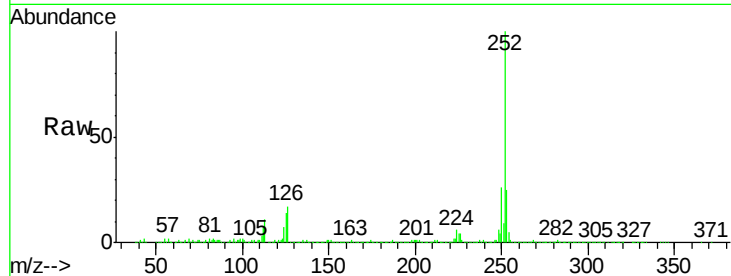
Acq: 11 Apr 2015 5:33

Instrument :

BNA_F

ClientSampled :

SP-3



Tgt Ion:252 Resp: 1557690

Ion Ratio Lower Upper

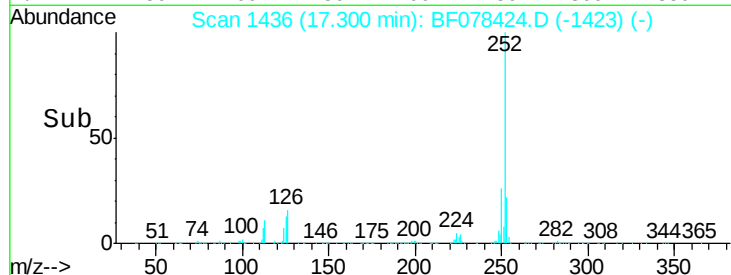
252 100

253 24.9 16.8 25.2

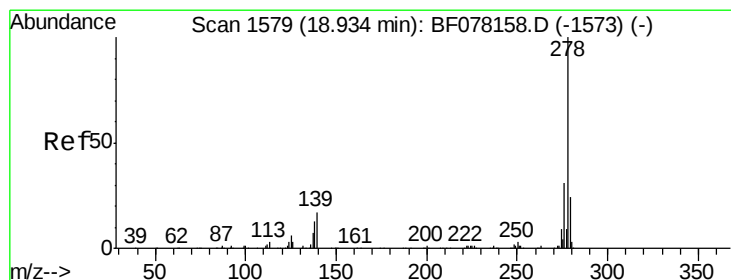
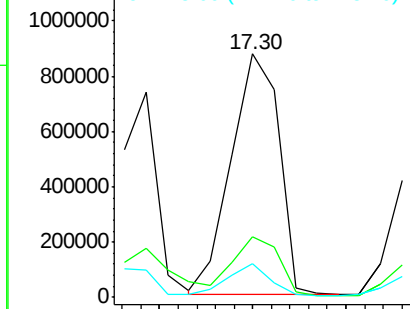
125 13.7 7.4 11.0#

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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



#90

Dibenzo(a,h)anthracene

Concen: 31.87 ng

RT: 18.60 min Scan# 1550

Delta R.T. 0.05 min

Lab File: BF078424.D

Acq: 11 Apr 2015 5:33

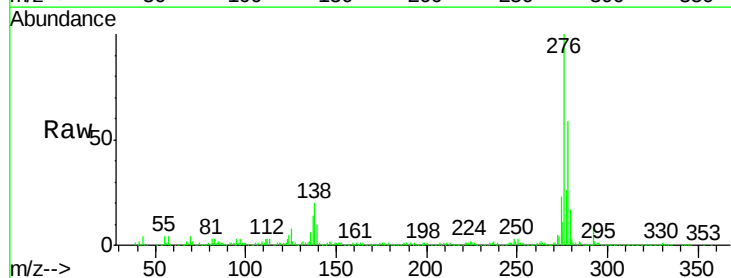
Tgt Ion:278 Resp: 299005

Ion Ratio Lower Upper

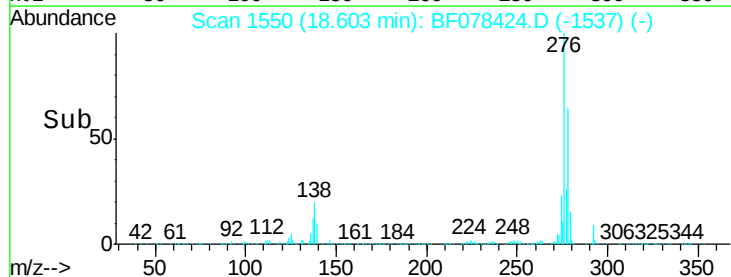
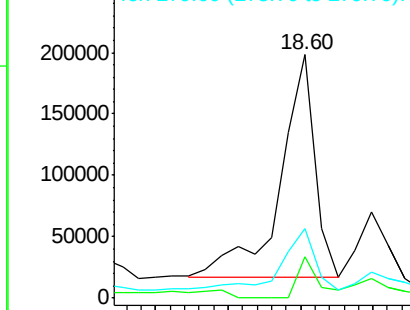
278 100

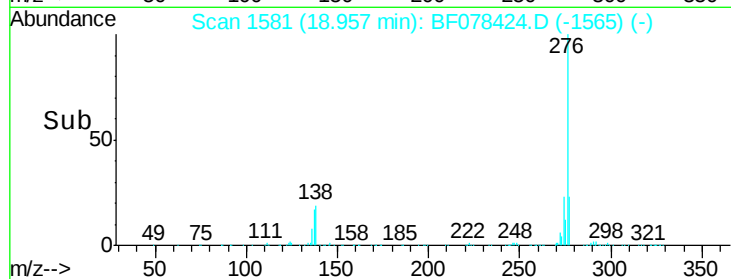
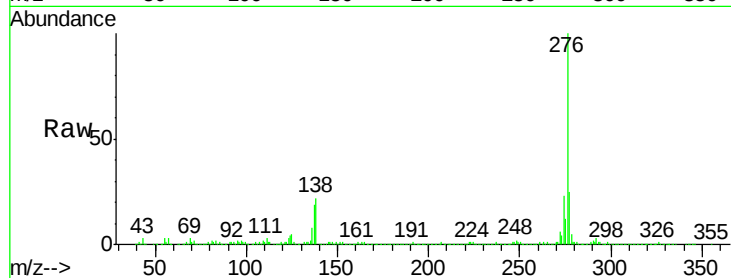
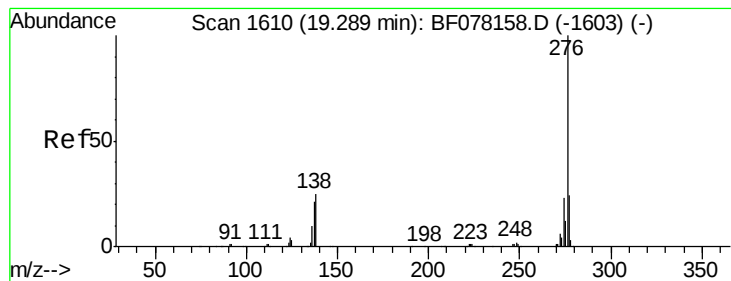
139 16.9 13.6 20.4

279 28.5 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: 109.82 ng m

RT: 18.96 min Scan# 1581

Delta R.T. 0.08 min

Lab File: BF078424.D

Acq: 11 Apr 2015 5:33

Tgt Ion: 276 Resp: 1032995

Ion Ratio Lower Upper

276 100

277 25.3 19.0 28.4

138 22.2 19.9 29.9

Instrument :

BNA_F

ClientSampleId :

SP-3

Manual Integrations
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