

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM040715\
 Data File : BM000891.D
 Acq On : 07 Apr 2015 22:59
 Operator : TP/IZ
 Sample : PB82421BL
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PB82421BL

Quant Time: Apr 08 01:15:52 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIM-BM040715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 07 15:59:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	20726	5.00	ng	-0.04
11) Naphthalene-d8	10.39	136	103768	5.00	ng	0.00
19) Acenaphthene-d10	14.26	164	56220	5.00	ng	0.00
26) Phenanthrene-d10	17.00	188	144626	5.00	ng	0.00
30) Chrysene-d12	21.19	240	106483	5.00	ng	0.00
34) Perylene-d12	23.39	264	97356	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.21	112	67111	9.65	ng	0.00
5) Phenol-d6	6.77	99	113814	8.03	ng	0.00
12) Nitrobenzene-d5	8.73	82	30316	5.86	ng	-0.04
20) 2,4,6-Tribromophenol	15.77	330	18573	7.94	ng	0.02
23) 2-Fluorobiphenyl	12.87	172	134685	7.77	ng	0.00
32) Terphenyl-d14	19.65	244	128557	9.79	ng	0.00

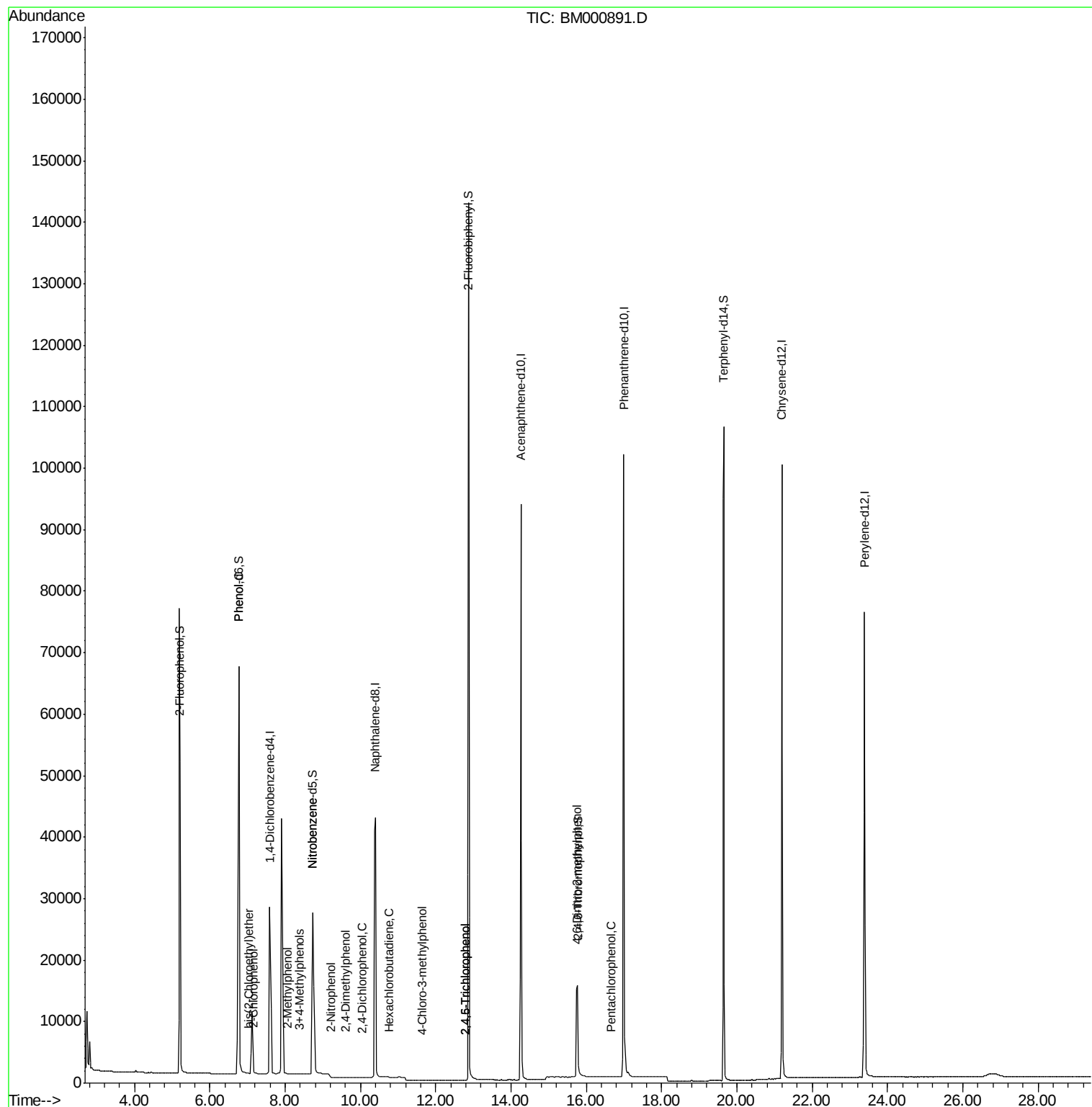
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) 2-Chlorophenol	7.17	128	56	0.17	ng	# 1
7) Phenol	6.77	94	98	0.01	ng	# 1
8) bis(2-Chloroethyl)ether	7.02	93	21	0.20	ng	99
9) 2-Methylphenol	8.06	107	13	0.00	ng	# 12
10) 3+4-Methylphenols	8.38	107	90	0.23	ng	# 28
13) Nitrobenzene	8.73	77	126	0.02	ng	# 40
14) 2-Nitrophenol	9.22	139	436	0.26	ng	# 1
15) 2,4-Dimethylphenol	9.60	122	64	0.01	ng	# 46
16) 2,4-Dichlorophenol	10.04	162	10	0.23	ng	# 35
17) Hexachlorobutadiene	10.75	225	26	0.01	ng	# 48
18) 4-Chloro-3-methylphenol	11.64	107	13	0.22	ng	# 70
21) 2,4,6-Trichlorophenol	12.79	196	6	0.24	ng	# 62
22) 2,4,5-Trichlorophenol	12.79	196	6	0.20	ng	84
27) 4,6-Dinitro-2-methylphenol	15.75	198	64	0.20	ng	# 1
28) Hexachlorobenzene	16.33	284	6	Below Cal	#	1
29) Pentachlorophenol	16.67	266	2	0.51 ng	#	70
31) Benzidine	19.30	184	76	Below Cal	#	1
33) 3,3'-Dichlorobenzidine	21.13	252	25	Below Cal	#	29

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.59 min Scan# 261

Delta R.T. -0.04 min

Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

Instrument :

BNA_M

ClientSampleId :

PB82421BL

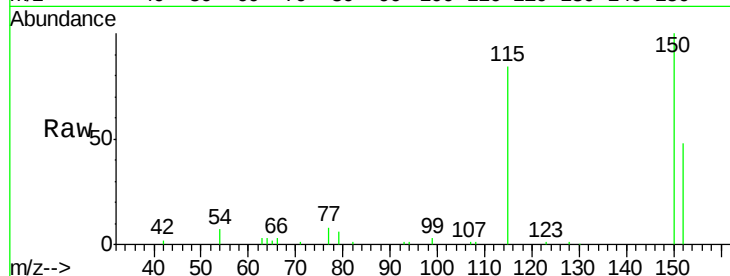
Tgt Ion:152 Resp: 20726

Ion Ratio Lower Upper

152 100

150 208.8 96.5 144.7#

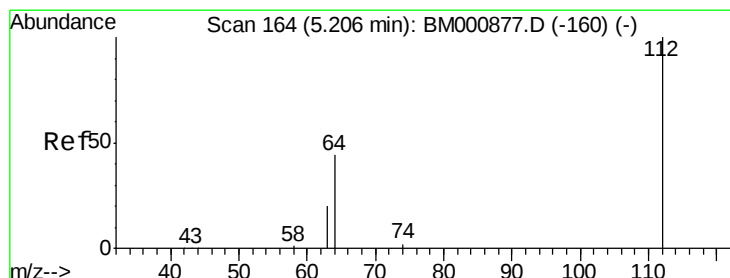
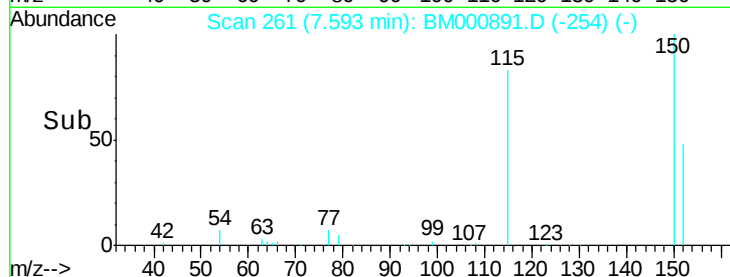
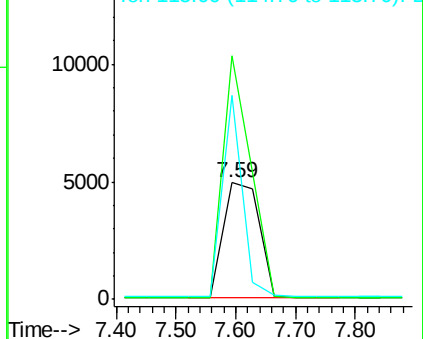
115 175.3 11.9 17.9#



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



#4

2-Fluorophenol

Concen: 9.65 ng

RT: 5.21 min Scan# 164

Delta R.T. 0.00 min

Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

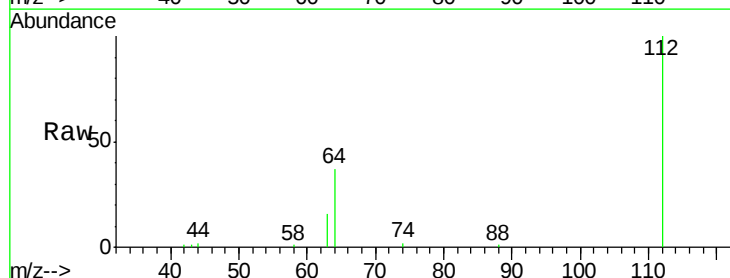
Tgt Ion:112 Resp: 67111

Ion Ratio Lower Upper

112 100

64 36.7 35.7 53.5

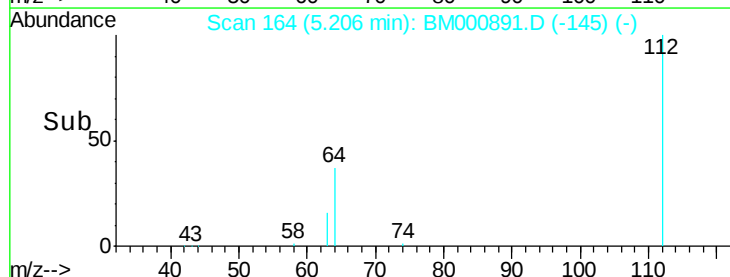
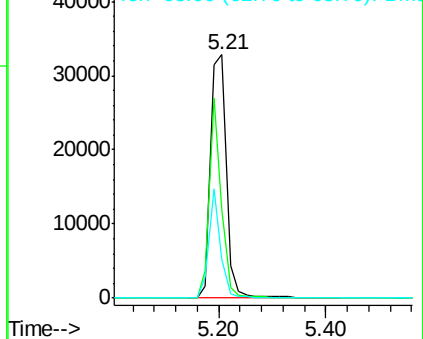
63 15.7 17.0 25.4#

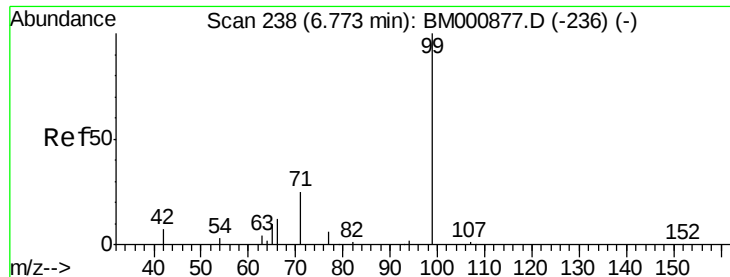


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#5

Phenol-d6

Concen: 8.03 ng

RT: 6.77 min Scan# 238

Delta R.T. 0.00 min

Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

Instrument :

BNA_M

ClientSampleId :

PB82421BL

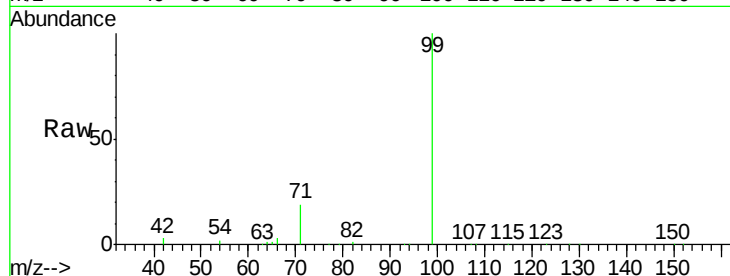
Tgt Ion: 99 Resp: 113814

Ion Ratio Lower Upper

99 100

42 3.4 7.5 11.3#

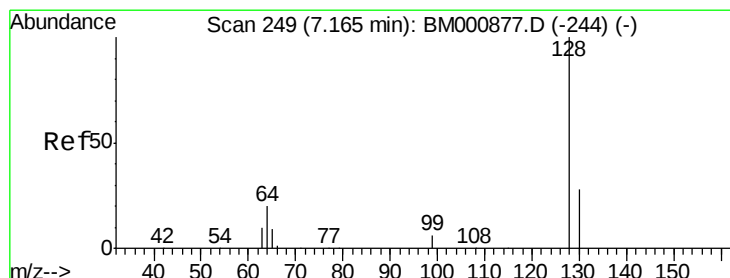
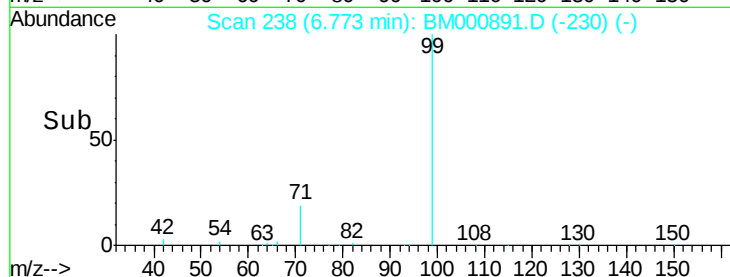
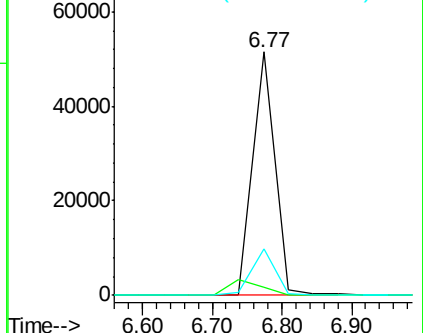
71 18.9 21.3 31.9#



Abundance Ion 99.00 (98.70 to 99.70): BM000877.D (-236) (-)

Ion 42.00 (41.70 to 42.70): BM000877.D (-236) (-)

Ion 71.00 (70.70 to 71.70): BM000877.D (-236) (-)



#6

2-Chlorophenol

Concen: 0.17 ng

RT: 7.17 min Scan# 249

Delta R.T. 0.00 min

Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

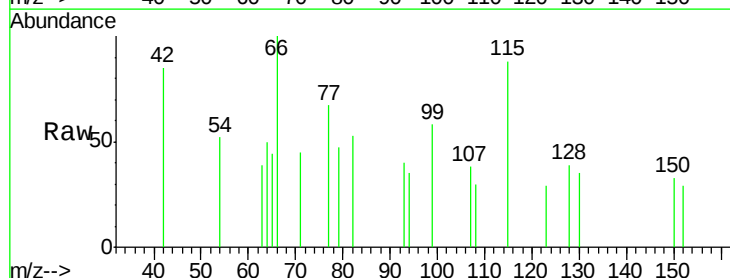
Tgt Ion: 128 Resp: 56

Ion Ratio Lower Upper

128 100

130 88.1 9.4 49.4#

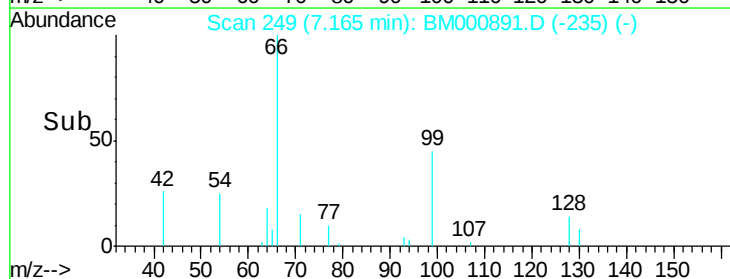
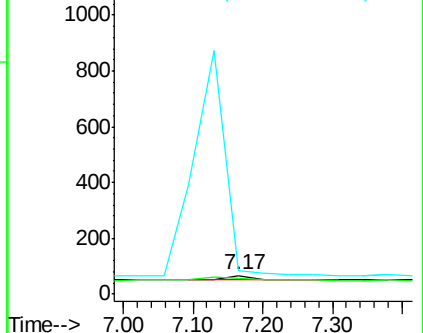
64 128.4 2.1 42.1#

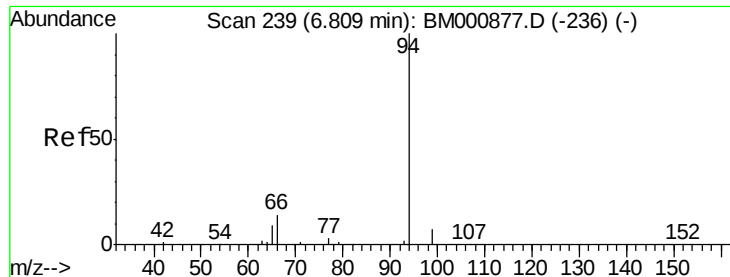


Abundance Ion 128.00 (127.70 to 128.70): BM000877.D (-244) (-)

Ion 130.00 (129.70 to 130.70): BM000877.D (-244) (-)

Ion 64.00 (63.70 to 64.70): BM000877.D (-244) (-)





#7

Phenol

Concen: 0.01 ng

RT: 6.77 min Scan# 238

Delta R.T. -0.04 min

Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

Instrument :

BNA_M

ClientSampleId :

PB82421BL

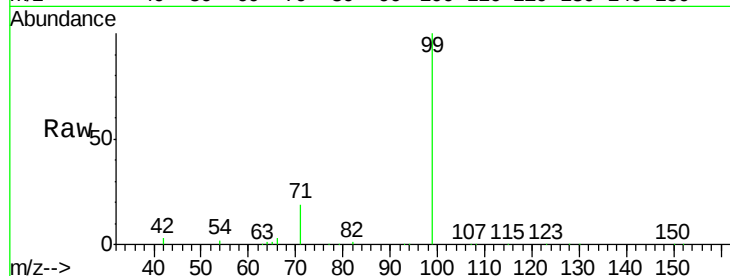
Tgt Ion: 94 Resp: 98

Ion Ratio Lower Upper

94 100

65 374.3 0.0 30.9#

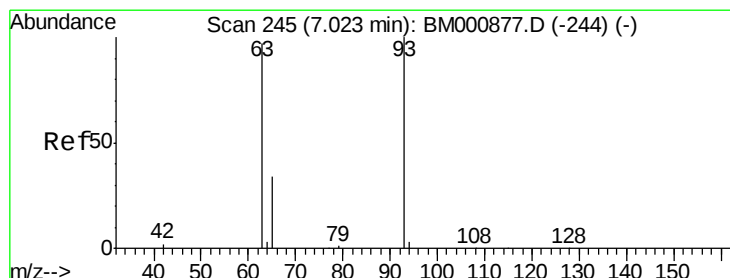
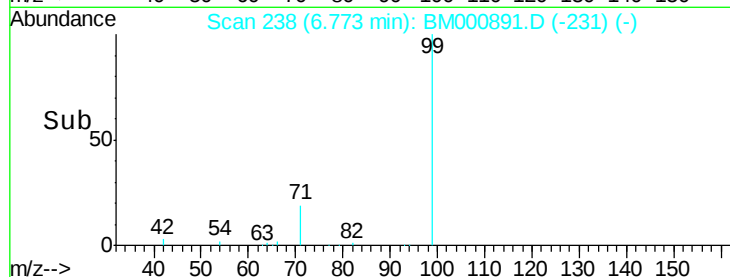
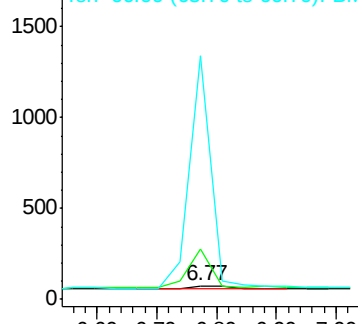
66 1810.8 0.0 35.8#



Abundance Ion 94.00 (93.70 to 94.70): BM000877.D (-236) (-)

Ion 65.00 (64.70 to 65.70): BM000877.D (-236) (-)

Ion 66.00 (65.70 to 66.70): BM000877.D (-236) (-)



#8

bis(2-Chloroethyl)ether

Concen: 0.20 ng

RT: 7.02 min Scan# 245

Delta R.T. 0.00 min

Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

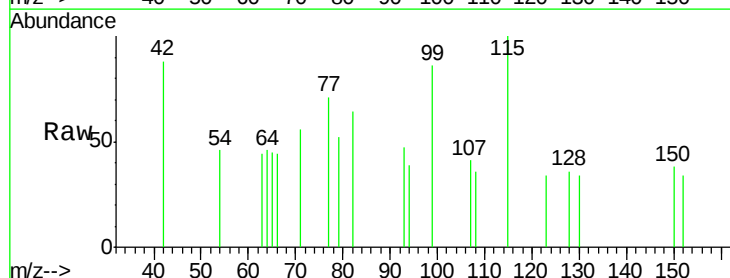
Tgt Ion: 93 Resp: 21

Ion Ratio Lower Upper

93 100

63 94.2 73.3 113.3

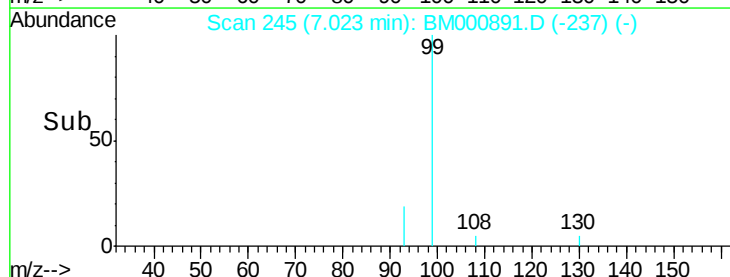
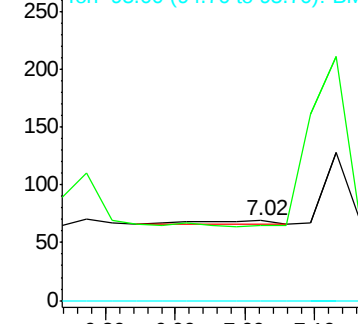
95 0.0 0.0 20.0

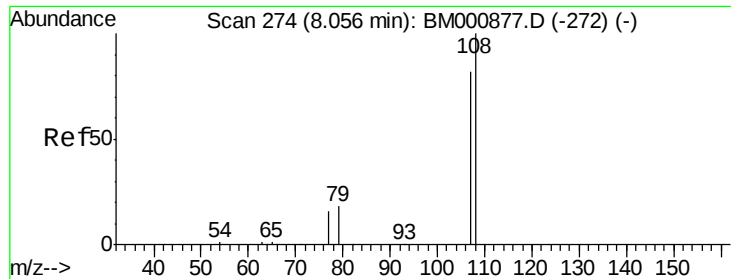


Abundance Ion 93.00 (92.70 to 93.70): BM000877.D (-244) (-)

Ion 63.00 (62.70 to 63.70): BM000877.D (-244) (-)

Ion 95.00 (94.70 to 95.70): BM000877.D (-244) (-)





#9

2-Methylphenol

Concen: 0.00 ng

RT: 8.06 min Scan# 274

Delta R.T. 0.00 min

Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

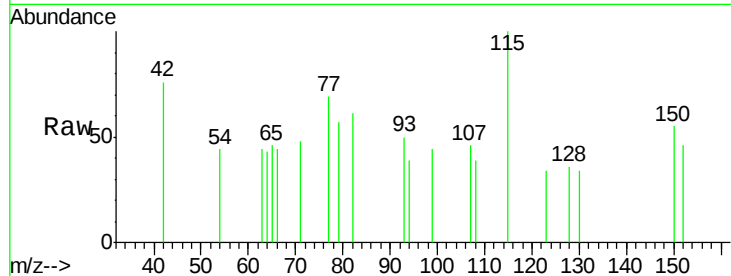
Instrument :

BNA_M

ClientSampleId :

PB82421BL

Tgt Ion:	107	Resp:	13
Ion	Ratio	Lower	Upper
107	100		
108	85.3	96.7	145.1#
77	150.0	18.3	27.5#
79	123.5	19.9	29.9#

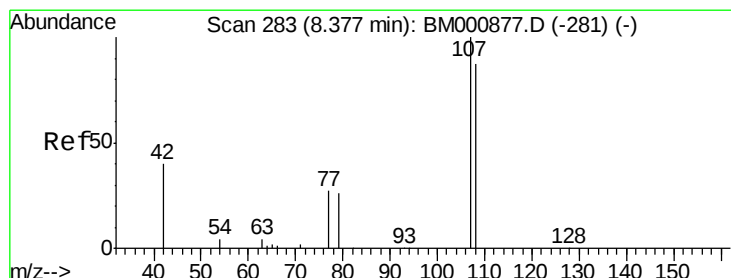
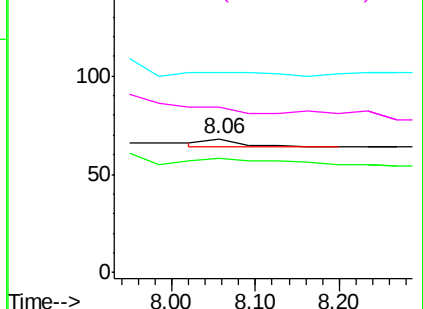
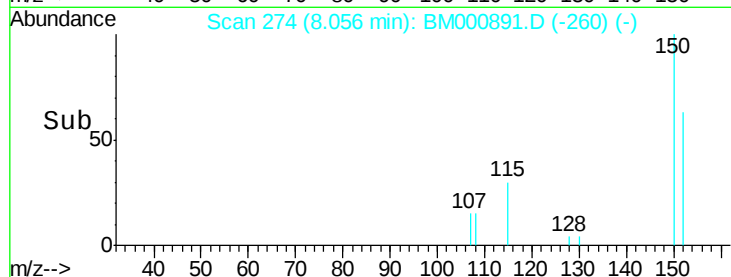


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BMC

Ion 79.00 (78.70 to 79.70): BMC



#10

3+4-Methylphenols

Concen: 0.23 ng

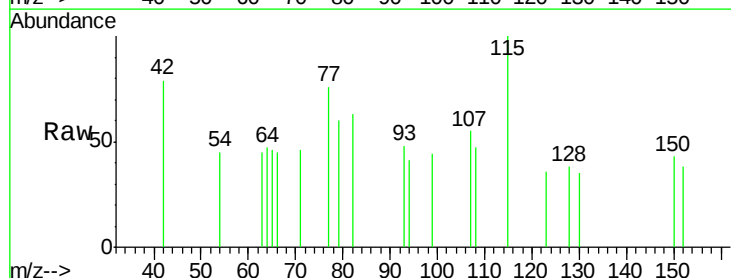
RT: 8.38 min Scan# 283

Delta R.T. 0.00 min

Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

Tgt Ion:	107	Resp:	90
Ion	Ratio	Lower	Upper
107	100		
108	84.4	67.6	107.6
77	136.4	10.0	50.0#
79	107.8	8.4	48.4#

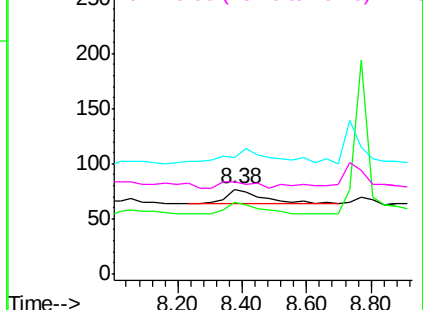
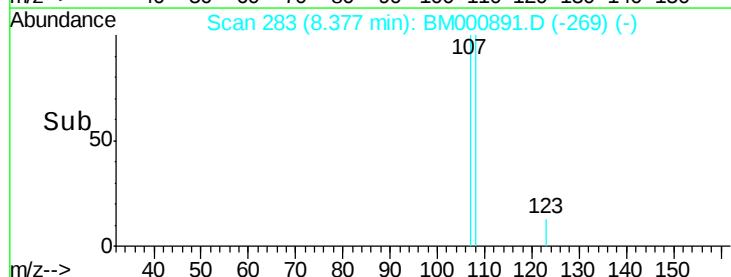


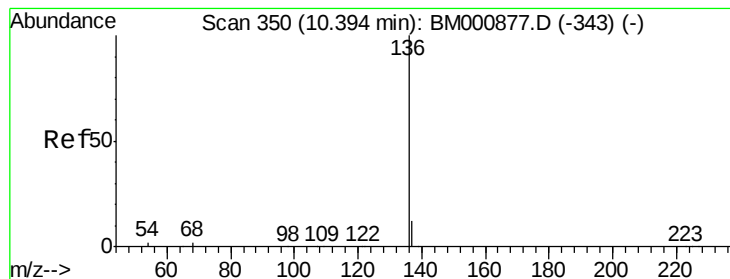
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BMC

Ion 79.00 (78.70 to 79.70): BMC





#11

Naphthalene-d8

Concen: 5.00 ng

RT: 10.39 min Scan# 350

Delta R.T. 0.00 min

Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

Instrument :

BNA_M

ClientSampled :

PB82421BL

Tgt Ion:136 Resp: 103768

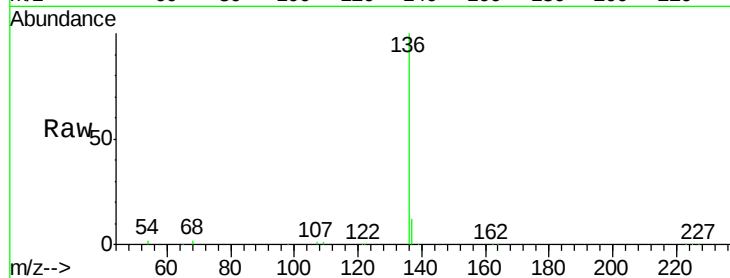
Ion Ratio Lower Upper

136 100

137 12.2 9.6 14.4

54 1.8 1.5 2.3

68 1.8 1.6 2.4

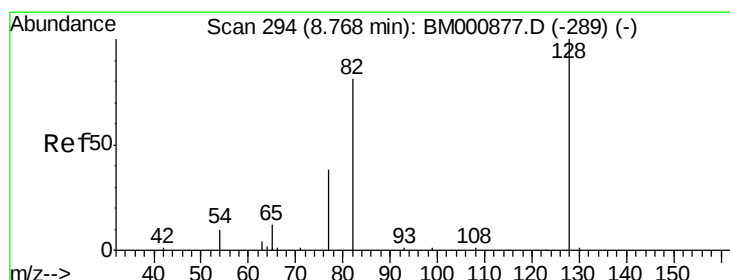
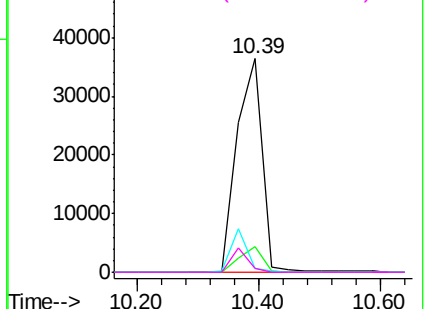
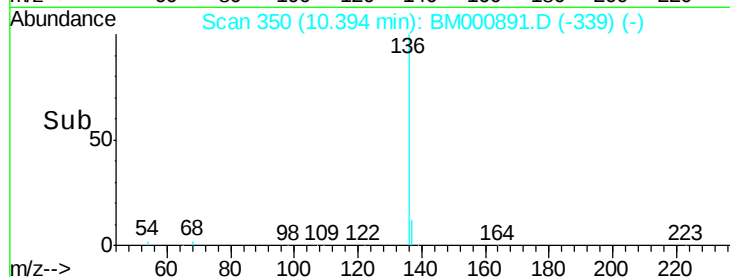


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



#12

Nitrobenzene-d5

Concen: 5.86 ng

RT: 8.73 min Scan# 293

Delta R.T. -0.04 min

Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

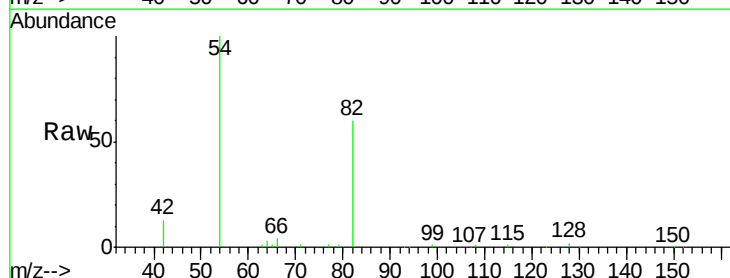
Tgt Ion: 82 Resp: 30316

Ion Ratio Lower Upper

82 100

128 3.4 96.2 144.2#

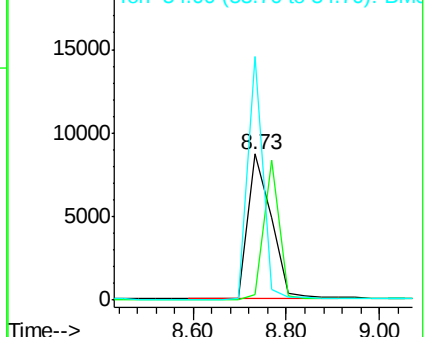
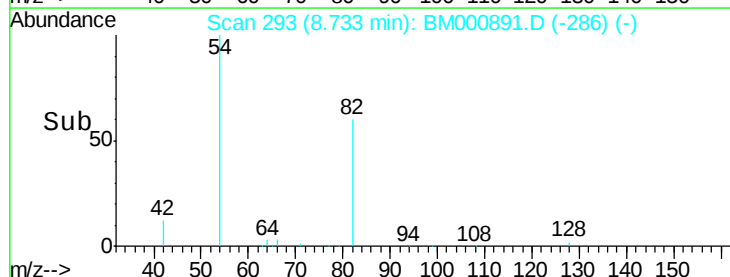
54 166.6 15.0 22.6#

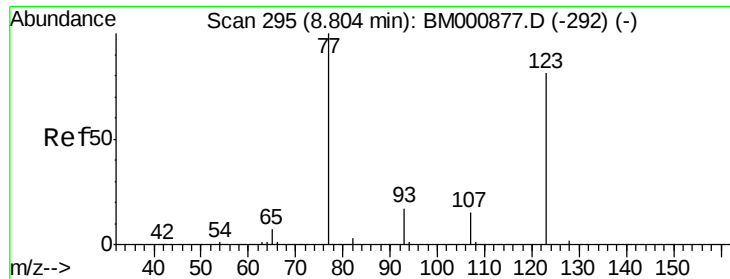


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM

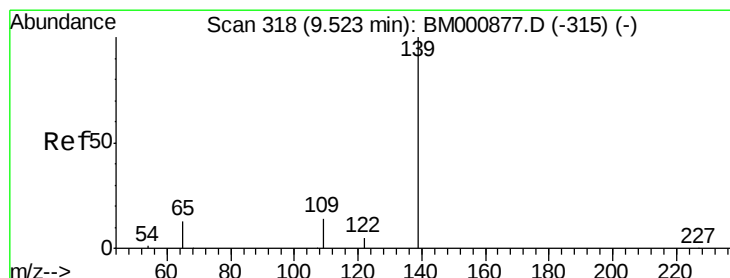
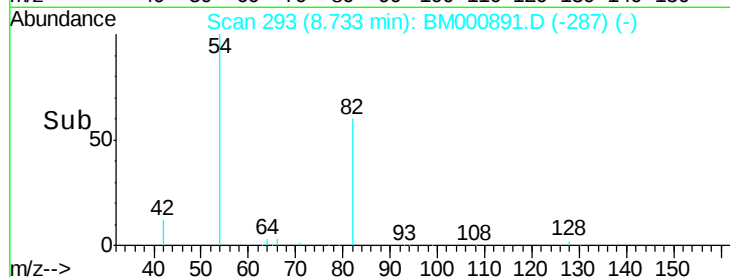
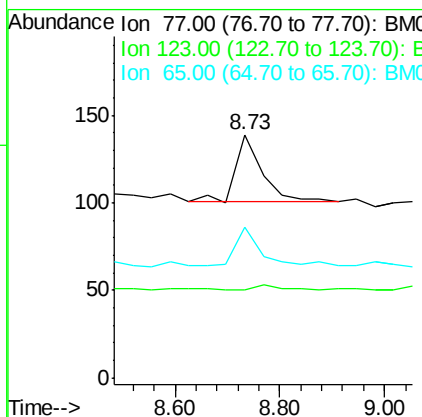
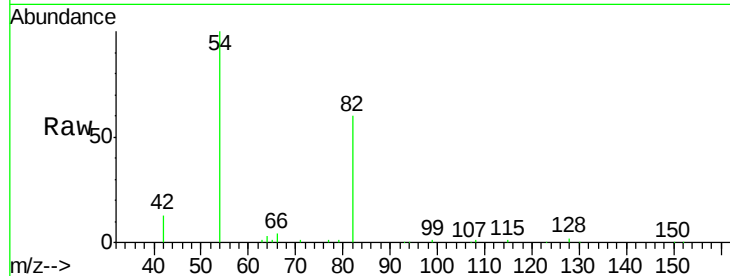




#13
Nitrobenzene
Concen: 0.02 ng
RT: 8.73 min Scan# 293
Delta R.T. -0.07 min
Lab File: BM000891.D
Acq: 07 Apr 2015 22:59

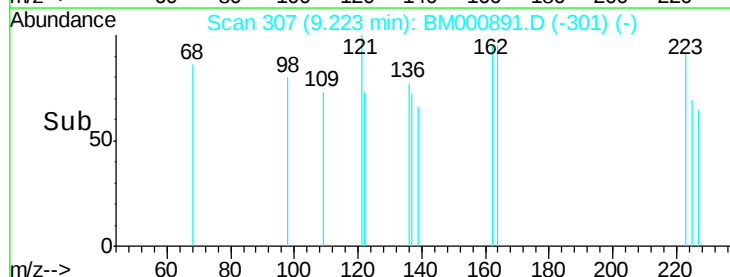
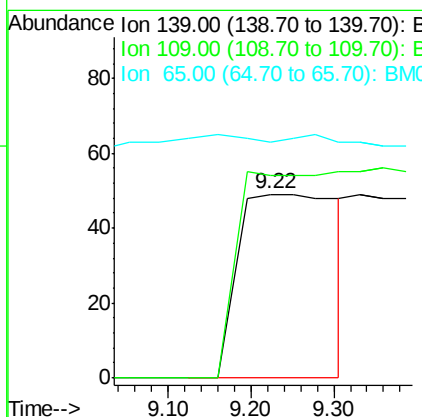
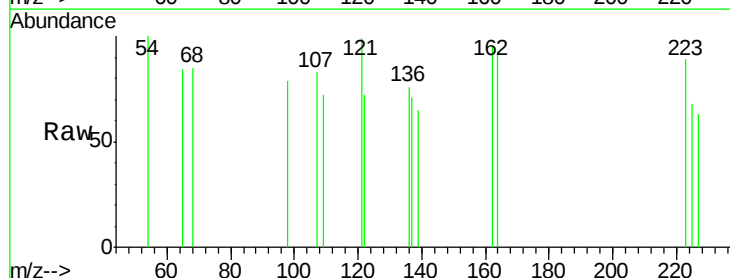
Instrument :
BNA_M
ClientSampleId :
PB82421BL

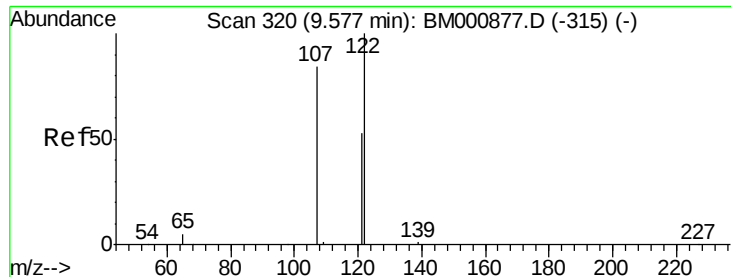
Tgt Ion: 77 Resp: 126
Ion Ratio Lower Upper
77 100
123 36.0 64.0 96.0#
65 61.9 8.7 13.1#



#14
2-Nitrophenol
Concen: 0.26 ng
RT: 9.22 min Scan# 307
Delta R.T. -0.30 min
Lab File: BM000891.D
Acq: 07 Apr 2015 22:59

Tgt Ion: 139 Resp: 436
Ion Ratio Lower Upper
139 100
109 110.2 15.8 23.8#
65 128.6 16.2 24.2#





#15

2,4-Dimethylphenol

Concen: 0.01 ng

RT: 9.60 min Scan# 321

Delta R.T. 0.03 min

Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

Instrument :

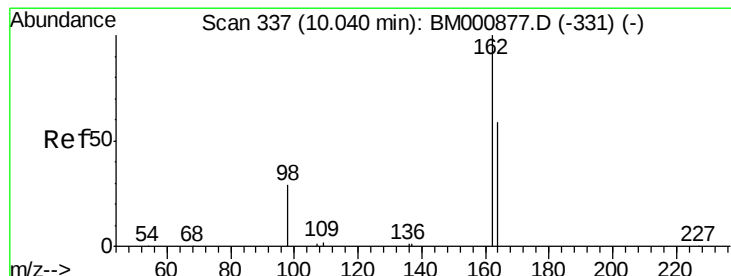
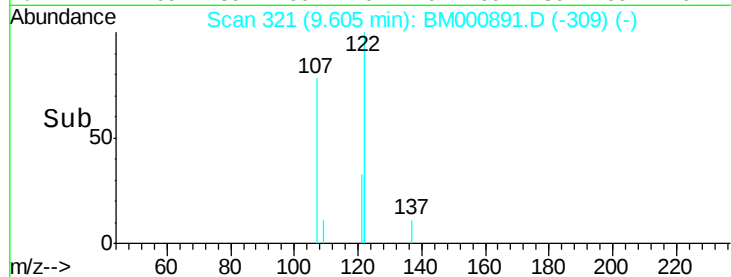
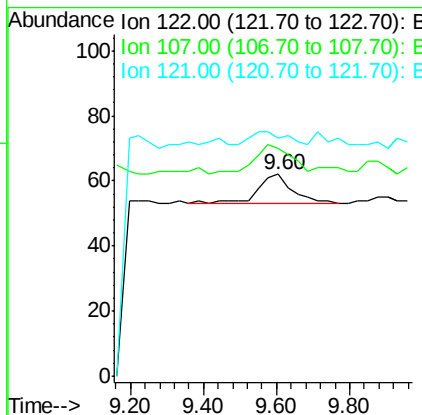
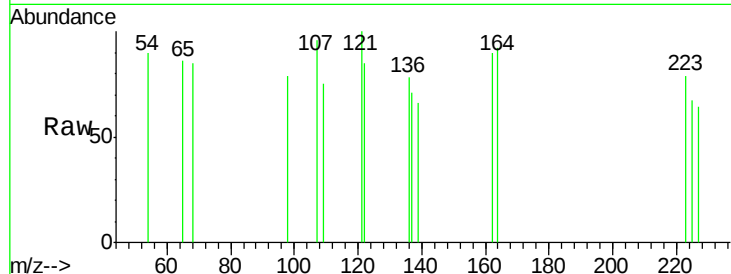
BNA_M

ClientSampleId :

PB82421BL

Tgt Ion:122 Resp: 64

Ion	Ratio	Lower	Upper
122	100		
107	112.9	67.4	101.2#
121	117.7	43.5	65.3#



#16

2,4-Dichlorophenol

Concen: 0.23 ng

RT: 10.04 min Scan# 337

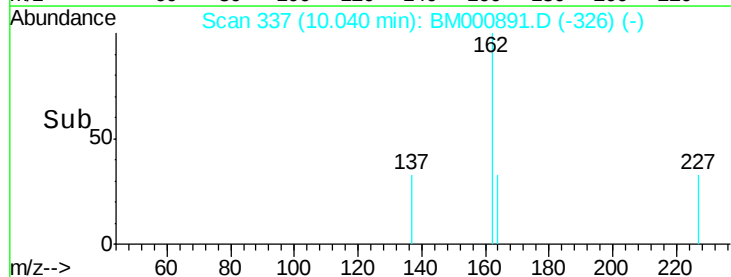
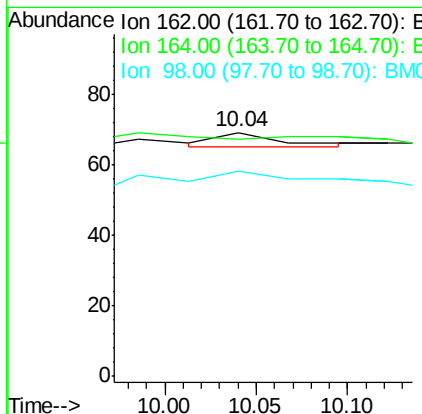
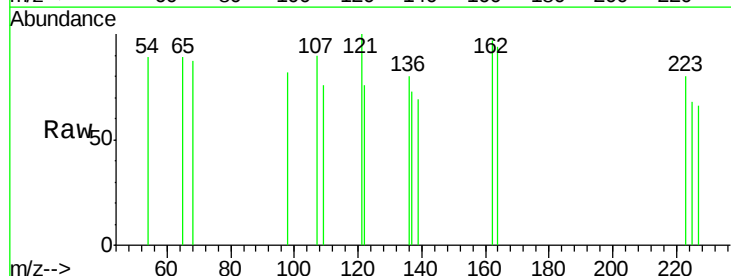
Delta R.T. 0.00 min

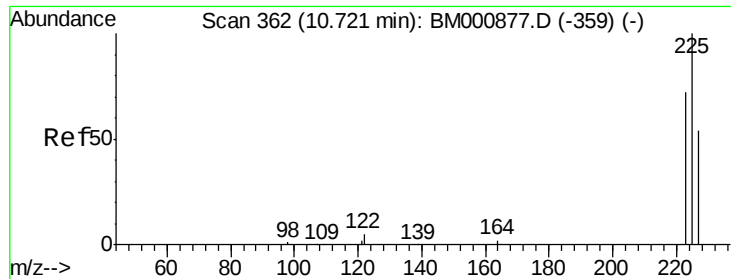
Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

Tgt Ion:162 Resp: 10

Ion	Ratio	Lower	Upper
162	100		
164	97.1	39.9	79.9#
98	84.1	11.3	51.3#

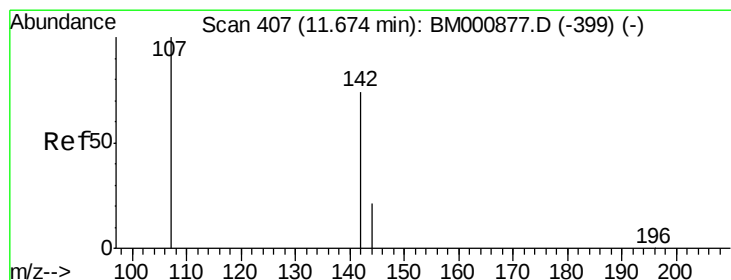
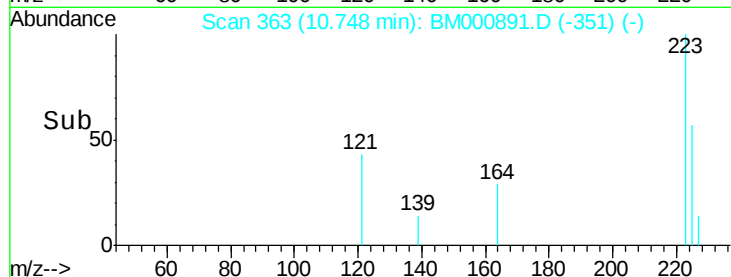
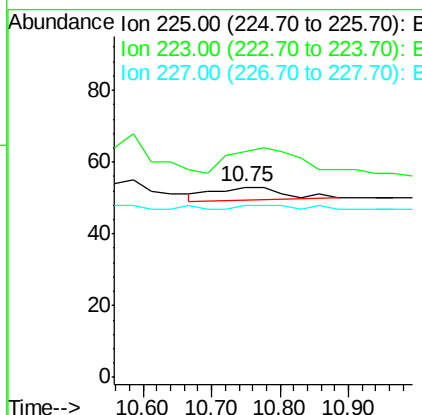
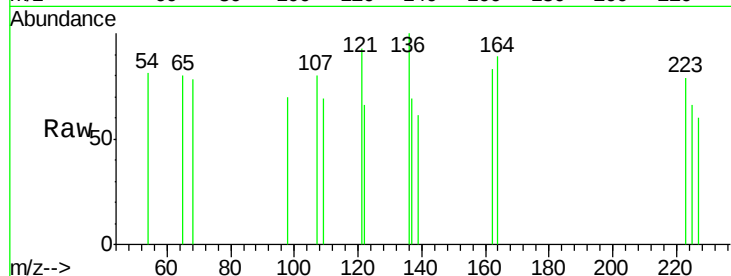




#17
Hexachlorobutadiene
Concen: 0.01 ng
RT: 10.75 min Scan# 363
Delta R.T. 0.03 min
Lab File: BM000891.D
Acq: 07 Apr 2015 22:59

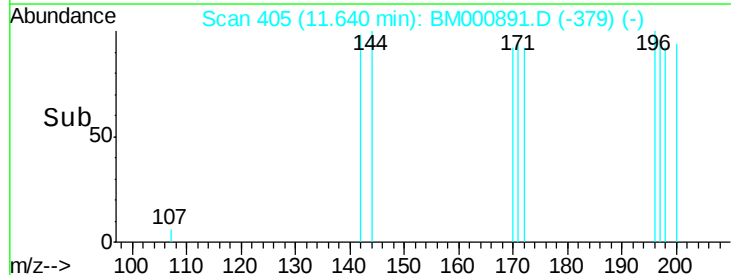
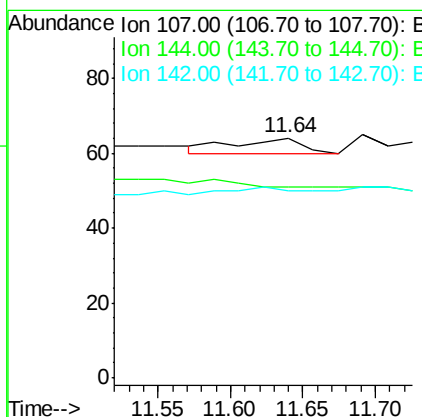
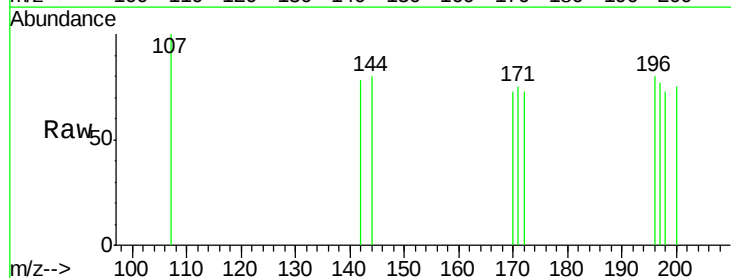
Instrument :
BNA_M
ClientSampleId :
PB82421BL

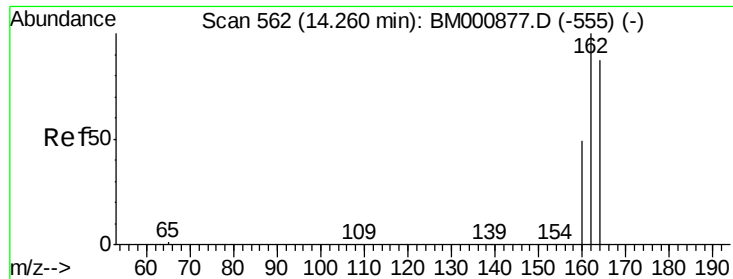
Tgt Ion: 225 Resp: 26
Ion Ratio Lower Upper
225 100
223 118.9 58.3 87.5#
227 90.6 44.5 66.7#



#18
4-Chloro-3-methylphenol
Concen: 0.22 ng
RT: 11.64 min Scan# 405
Delta R.T. -0.03 min
Lab File: BM000891.D
Acq: 07 Apr 2015 22:59

Tgt Ion: 107 Resp: 13
Ion Ratio Lower Upper
107 100
144 79.7 18.4 27.6#
142 78.1 59.9 89.9

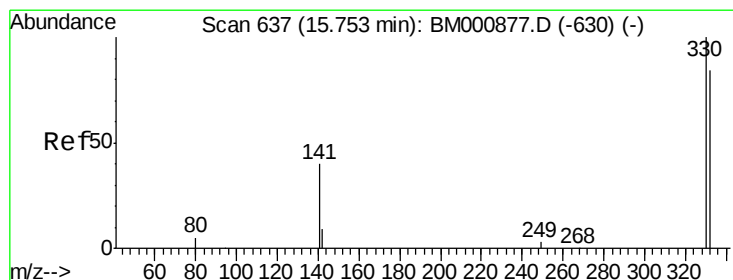
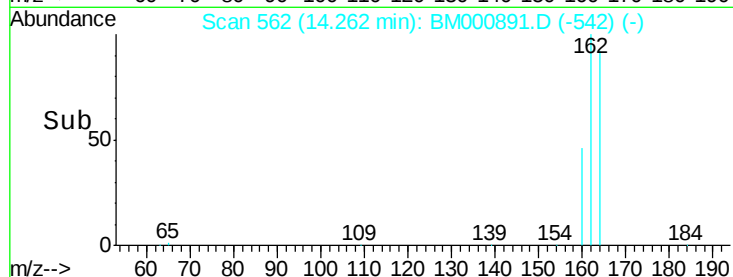
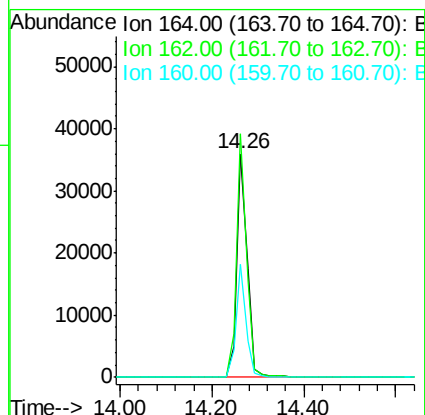
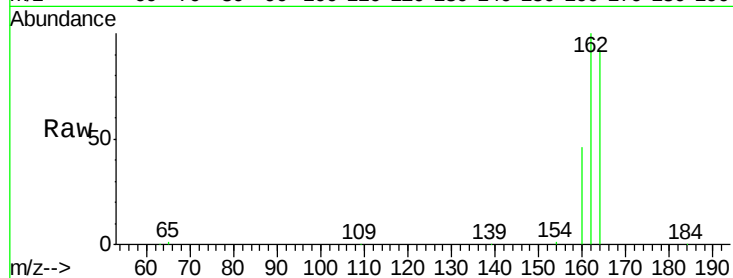




#19
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.26 min Scan# 562
Delta R.T. 0.00 min
Lab File: BM000891.D
Acq: 07 Apr 2015 22:59

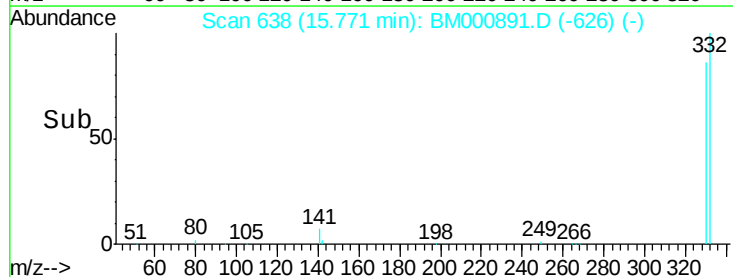
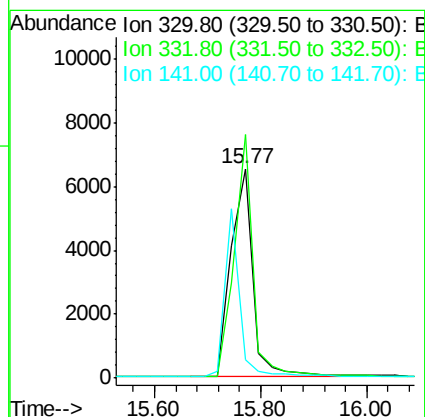
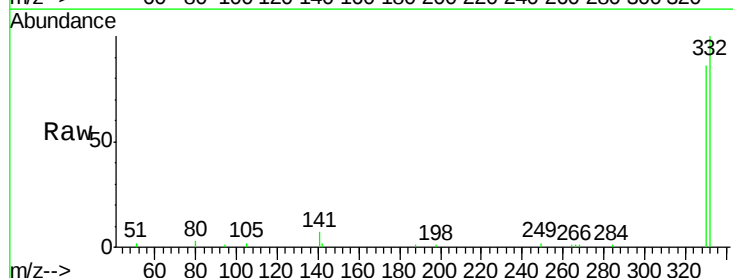
Instrument :
BNA_M
ClientSampleId :
PB82421BL

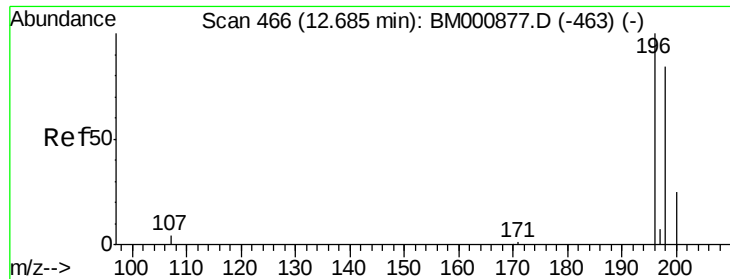
Tgt Ion:164 Resp: 56220
Ion Ratio Lower Upper
164 100
162 109.1 91.8 137.6
160 50.6 44.6 67.0



#20
2,4,6-Tribromophenol
Concen: 7.94 ng
RT: 15.77 min Scan# 638
Delta R.T. 0.02 min
Lab File: BM000891.D
Acq: 07 Apr 2015 22:59

Tgt Ion:330 Resp: 18573
Ion Ratio Lower Upper
330 100
332 99.5 72.6 109.0
141 0.0 29.8 44.6#

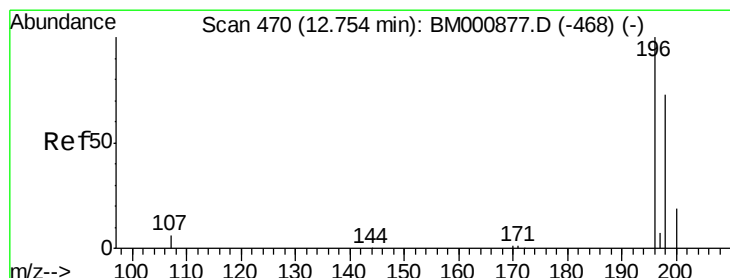
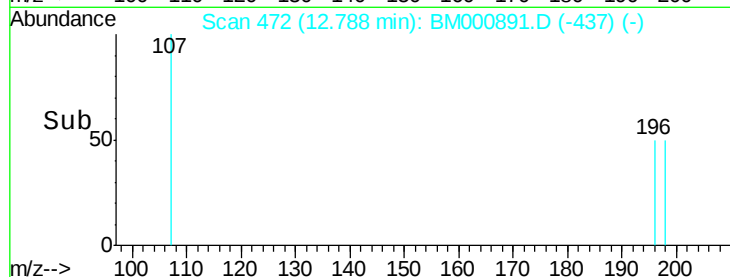
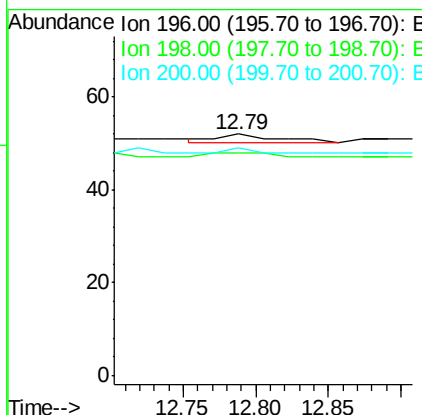
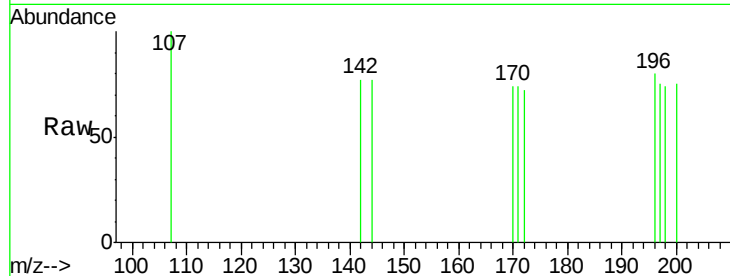




#21
 2,4,6-Trichlorophenol
 Concen: 0.24 ng
 RT: 12.79 min Scan# 472
 Delta R.T. 0.10 min
 Lab File: BM000891.D
 Acq: 07 Apr 2015 22:59

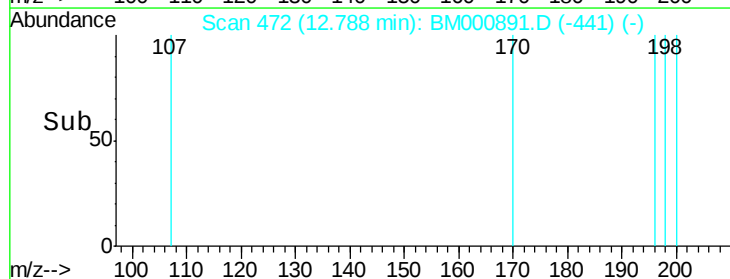
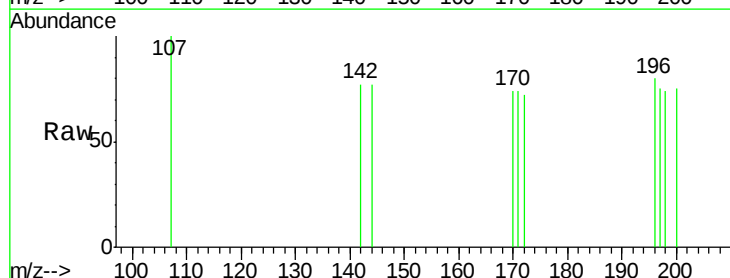
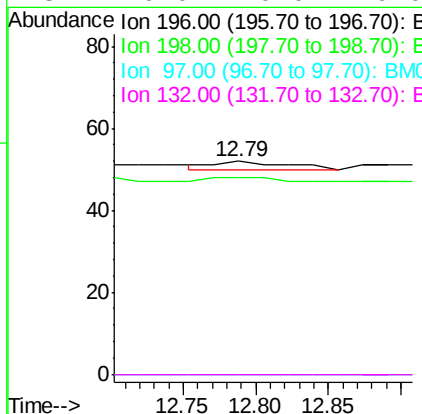
Instrument :
 BNA_M
 ClientSampleId :
 PB82421BL

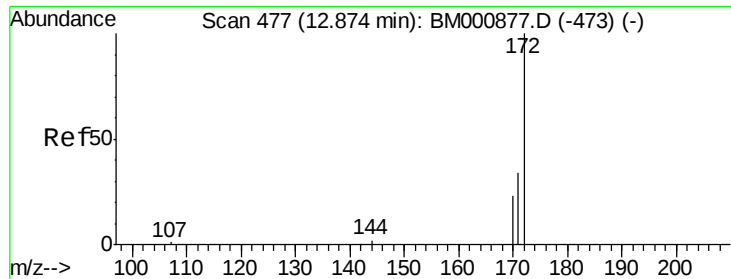
Tgt Ion:196 Resp: 6
 Ion Ratio Lower Upper
 196 100
 198 92.3 67.5 101.3
 200 94.2 22.1 33.1#



#22
 2,4,5-Trichlorophenol
 Concen: 0.20 ng
 RT: 12.79 min Scan# 472
 Delta R.T. 0.04 min
 Lab File: BM000891.D
 Acq: 07 Apr 2015 22:59

Tgt Ion:196 Resp: 6
 Ion Ratio Lower Upper
 196 100
 198 92.3 62.7 94.1
 97 0.0 0.0 0.0
 132 0.0 0.0 0.0

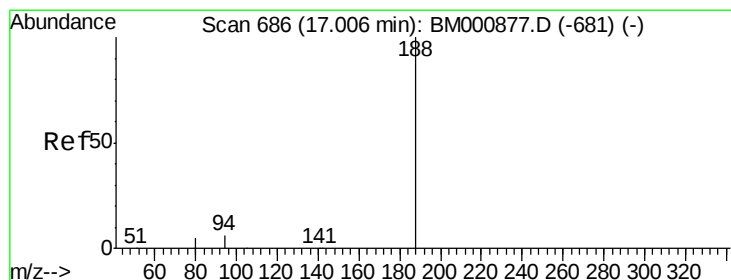
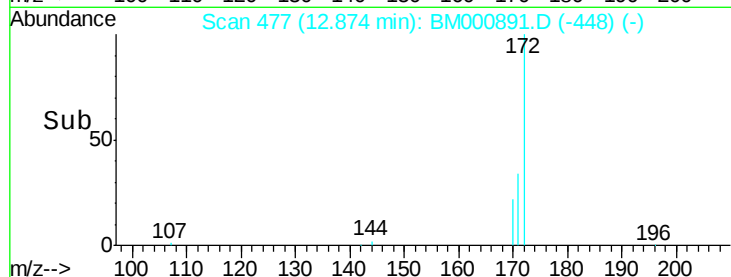
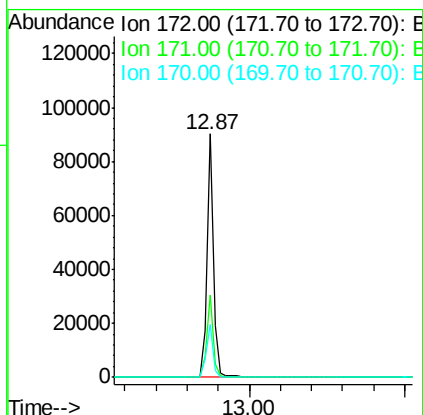
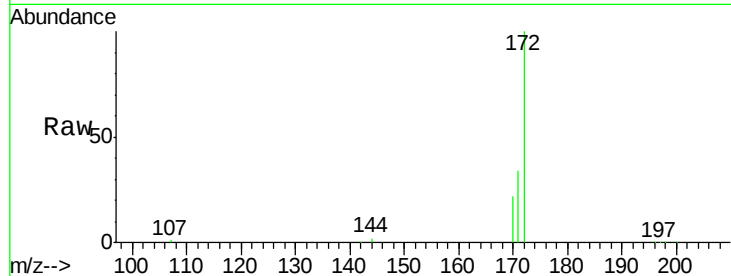




#23
 2-Fluorobiphenyl
 Concen: 7.77 ng
 RT: 12.87 min Scan# 477
 Delta R.T. 0.00 min
 Lab File: BM000891.D
 Acq: 07 Apr 2015 22:59

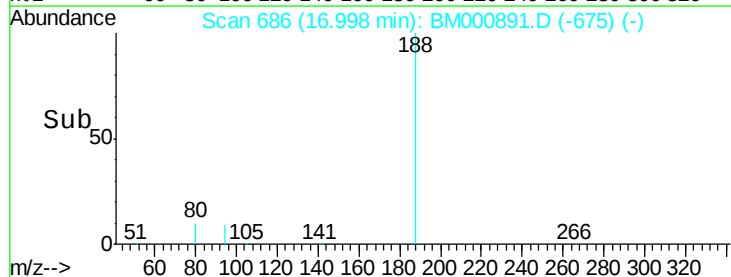
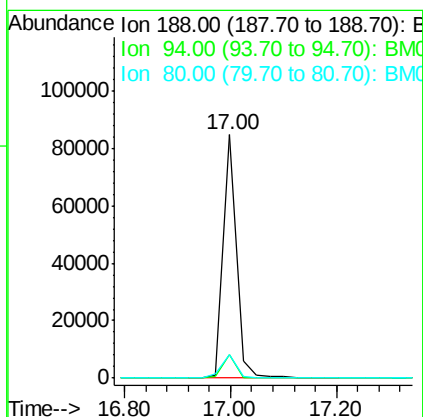
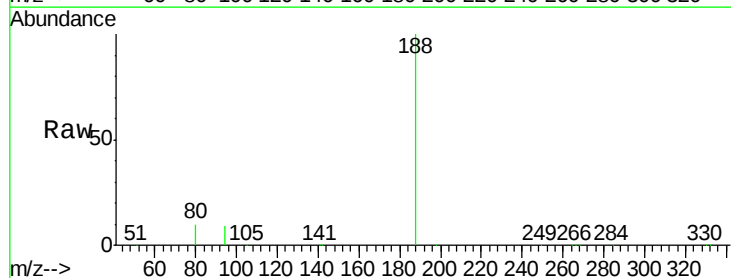
Instrument :
 BNA_M
 ClientSampleId :
 PB82421BL

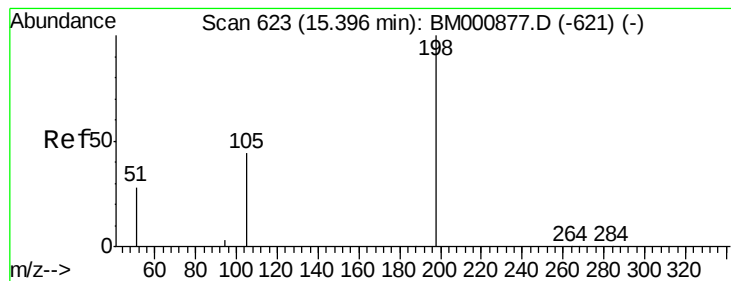
Tgt Ion:172 Resp: 134685
 Ion Ratio Lower Upper
 172 100
 171 33.6 27.8 41.8
 170 21.6 19.0 28.6



#26
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.00 min Scan# 686
 Delta R.T. -0.01 min
 Lab File: BM000891.D
 Acq: 07 Apr 2015 22:59

Tgt Ion:188 Resp: 144626
 Ion Ratio Lower Upper
 188 100
 94 9.5 4.9 7.3#
 80 9.6 4.4 6.6#





#27

4,6-Dinitro-2-methylphenol

Concen: 0.20 ng

RT: 15.75 min Scan# 637

Delta R.T. 0.35 min

Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

Instrument :

BNA_M

ClientSampleId :

PB82421BL

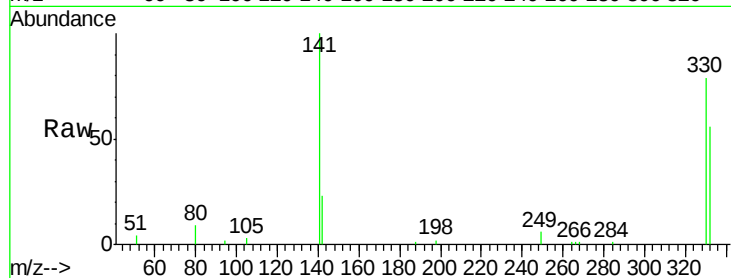
Tgt Ion:198 Resp: 64

Ion Ratio Lower Upper

198 100

51 237.3 44.6 84.6#

105 221.7 36.0 76.0#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BM0

Ion 105.00 (104.70 to 105.70): E

250

200

150

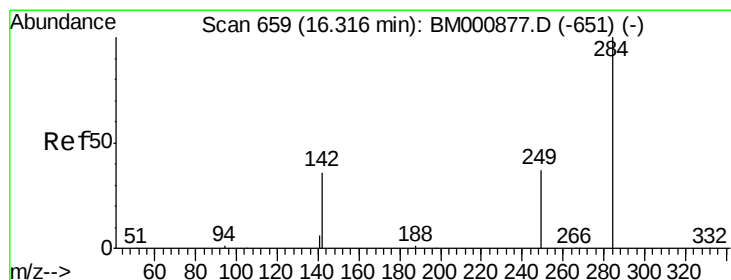
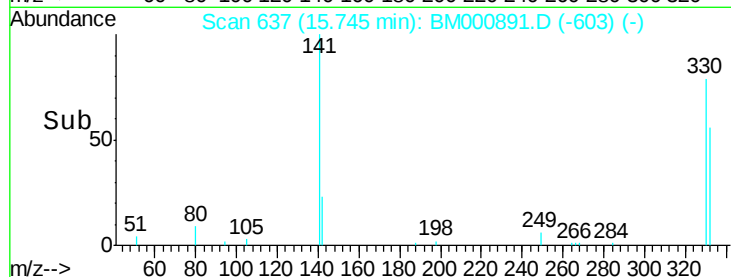
100

50

0

15.65 15.70 15.75 15.80

15.75



#28

Hexachlorobenzene

Concen: Below Cal

RT: 16.33 min Scan# 660

Delta R.T. 0.02 min

Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

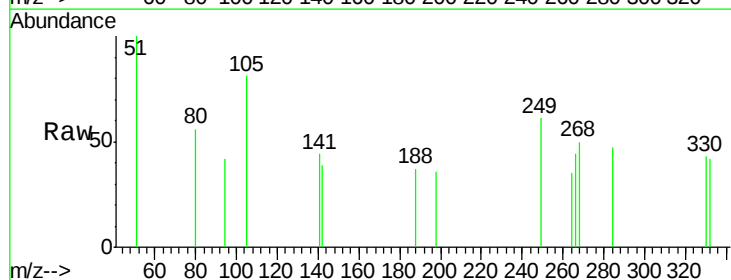
Tgt Ion:284 Resp: 6

Ion Ratio Lower Upper

284 100

142 84.1 29.8 44.8#

249 131.7 31.0 46.4#



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

120

100

80

60

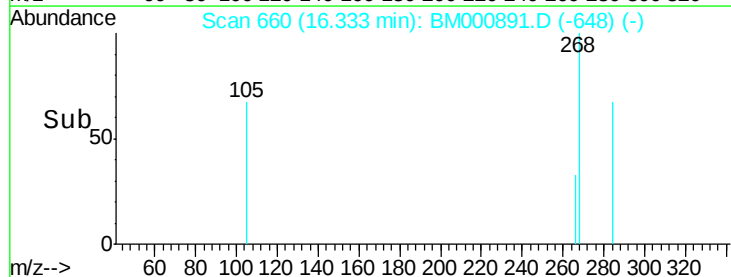
40

20

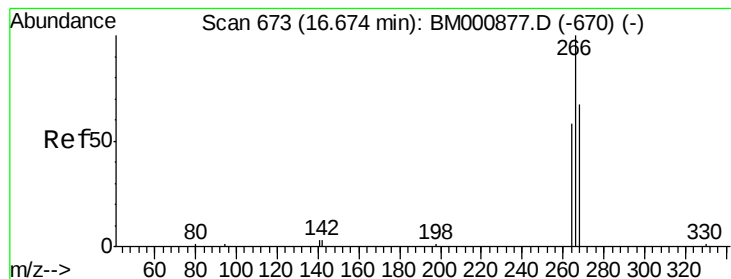
0

16.20 16.30 16.40

16.33



Time-->



#29

Pentachlorophenol

Concen: 0.51 ng

RT: 16.67 min Scan# 673

Delta R.T. -0.01 min

Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

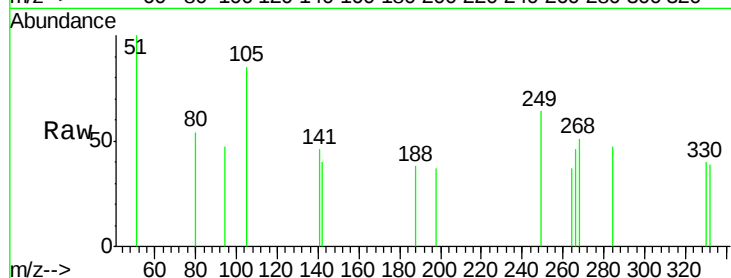
Instrument :

BNA_M

ClientSampleId :

PB82421BL

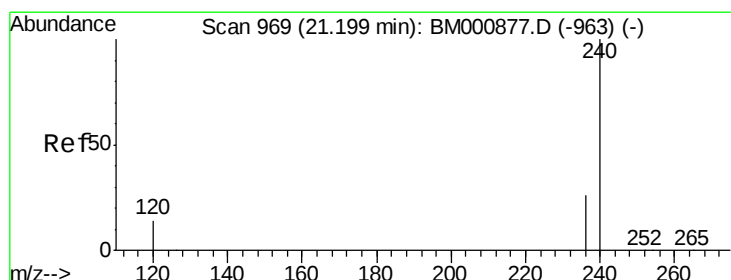
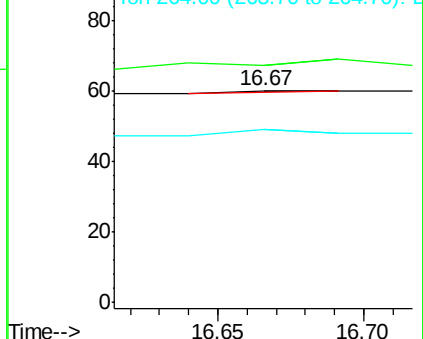
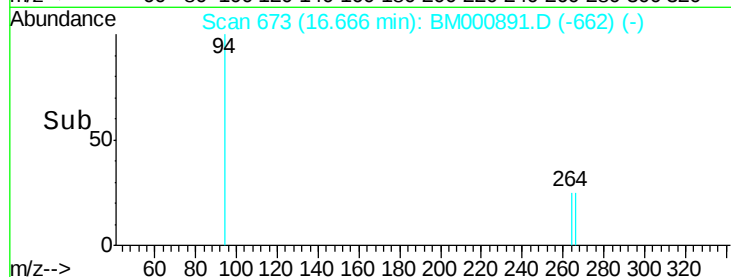
Tgt Ion:	266	Resp:	2
Ion	Ratio	Lower	Upper
266	100		
268	111.7	61.8	92.8#
264	81.7	53.8	80.6#



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#30

Chrysene-d12

Concen: 5.00 ng

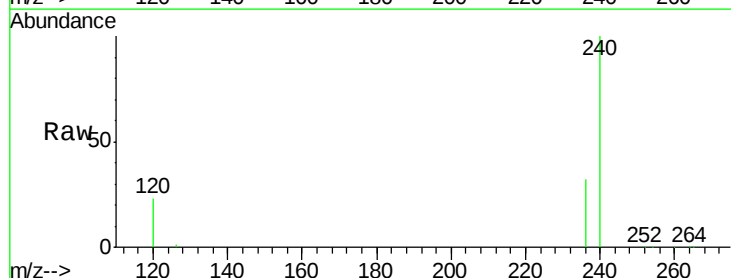
RT: 21.19 min Scan# 969

Delta R.T. -0.01 min

Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

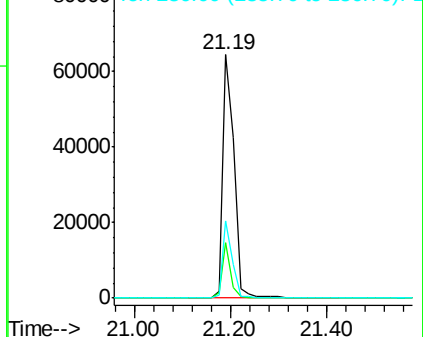
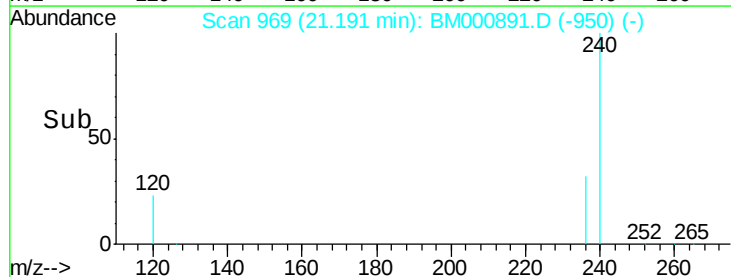
Tgt Ion:	240	Resp:	106483
Ion	Ratio	Lower	Upper
240	100		
120	22.8	11.1	16.7#
236	31.9	20.9	31.3#

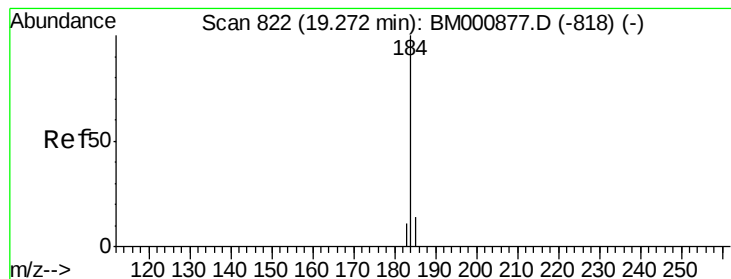


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#31

Benzidine

Concen: Below Cal

RT: 19.30 min Scan# 825

Delta R.T. 0.03 min

Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

Instrument :

BNA_M

ClientSampleId :

PB82421BL

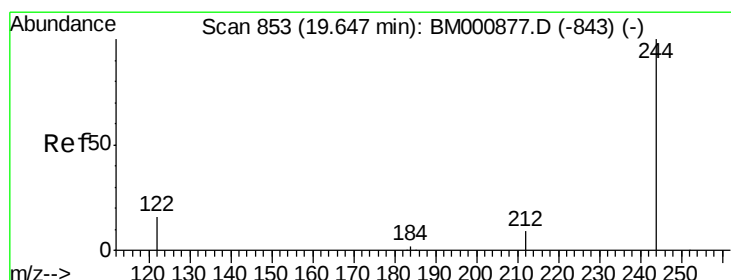
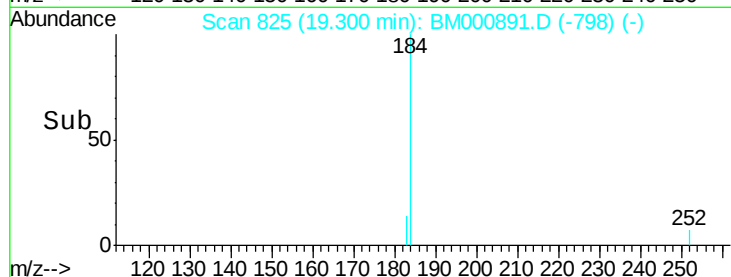
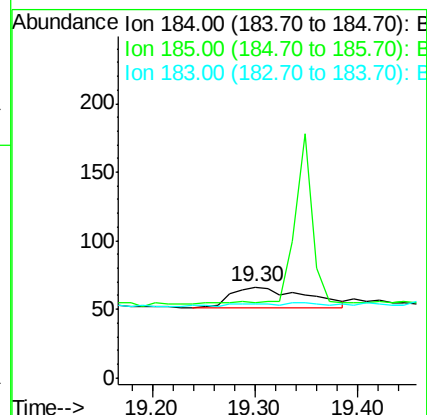
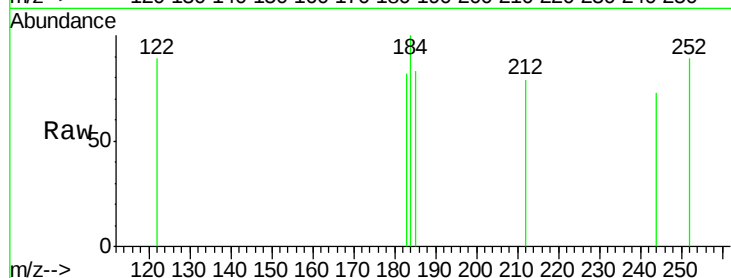
Tgt Ion:184 Resp: 76

Ion Ratio Lower Upper

184 100

185 83.3 14.4 21.6#

183 81.8 12.6 19.0#



#32

Terphenyl-d14

Concen: 9.79 ng

RT: 19.65 min Scan# 854

Delta R.T. 0.00 min

Lab File: BM000891.D

Acq: 07 Apr 2015 22:59

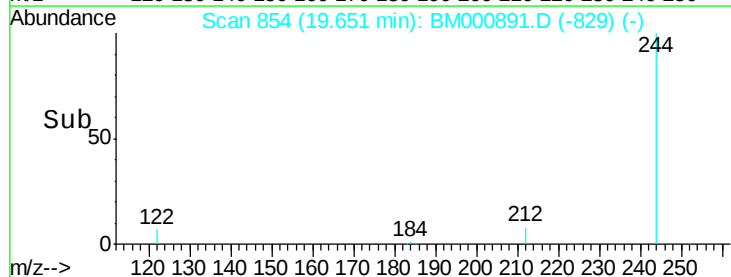
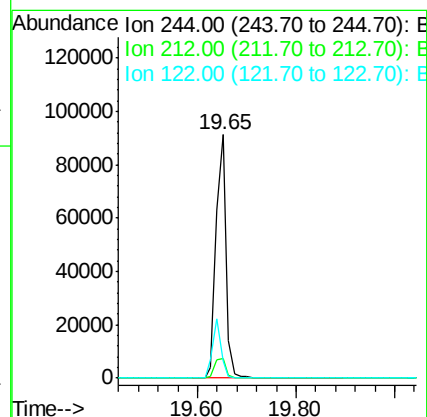
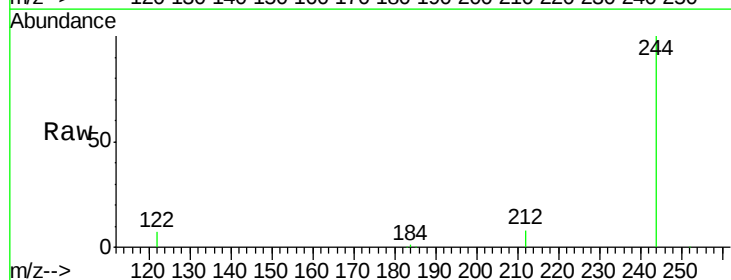
Tgt Ion:244 Resp: 128557

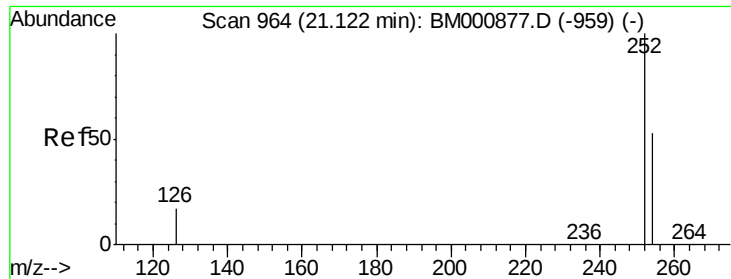
Ion Ratio Lower Upper

244 100

212 8.1 8.1 12.1

122 6.9 13.6 20.4#

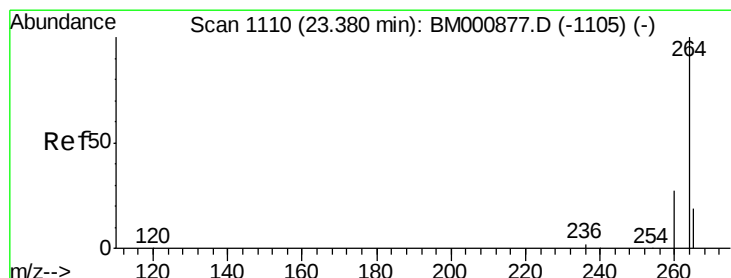
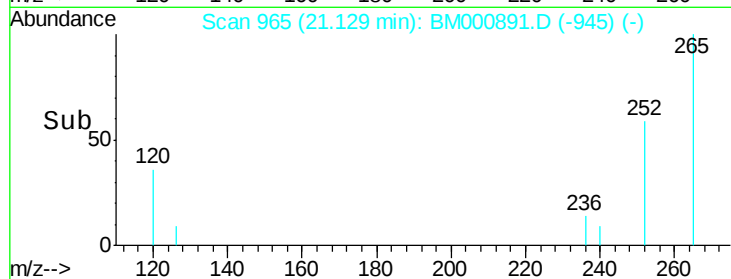
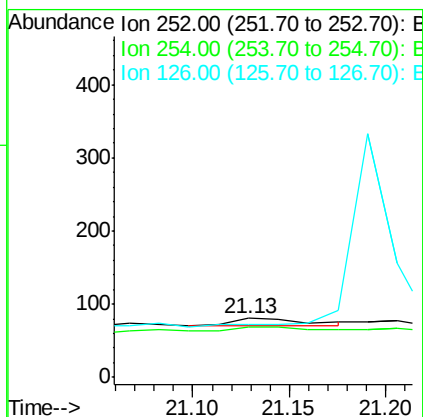
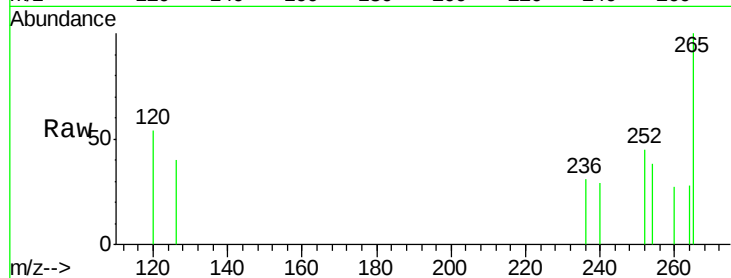




#33
 3,3'-Dichlorobenzidine
 Concen: Below Cal
 RT: 21.13 min Scan# 965
 Delta R.T. 0.01 min
 Lab File: BM000891.D
 Acq: 07 Apr 2015 22:59

Instrument :
 BNA_M
 ClientSampleId :
 PB82421BL

Tgt Ion: 252 Resp: 25
 Ion Ratio Lower Upper
 252 100
 254 84.0 43.2 64.8#
 126 88.9 15.5 23.3#



#34
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.39 min Scan# 1111
 Delta R.T. 0.01 min
 Lab File: BM000891.D
 Acq: 07 Apr 2015 22:59

Tgt Ion: 264 Resp: 97356
 Ion Ratio Lower Upper
 264 100
 260 24.2 21.6 32.4
 265 21.9 16.1 24.1

