

Data Path : Z:\HPCHEM1\BNA M\DATA\BM040315\
 Data File : BM000826.D
 Acq On : 03 Apr 2015 02:56
 Operator : TP/IZ
 Sample : MDL-06-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-06-S

Quant Time: Apr 03 18:37:53 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SIM-BM040315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 03 18:16:53 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.63	152	28723	5.00	ng	0.00
11) Naphthalene-d8	10.39	136	134642	5.00	ng	0.00
19) Acenaphthene-d10	14.28	164	67929	5.00	ng	0.00
26) Phenanthrene-d10	17.00	188	145328	5.00	ng	0.00
30) Chrysene-d12	21.21	240	130700	5.00	ng	0.00
34) Perylene-d12	23.40	264	120598	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.21	112	102012	12.89	ng	0.00
5) Phenol-d6	6.77	99	172231	11.34	ng	0.00
12) Nitrobenzene-d5	8.77	82	46093	7.34	ng	0.00
20) 2,4,6-Tribromophenol	15.77	330	28226	9.80	ng	0.00
23) 2-Fluorobiphenyl	12.87	172	200888	9.60	ng	0.00
32) Terphenyl-d14	19.65	244	165757	10.54	ng	0.00

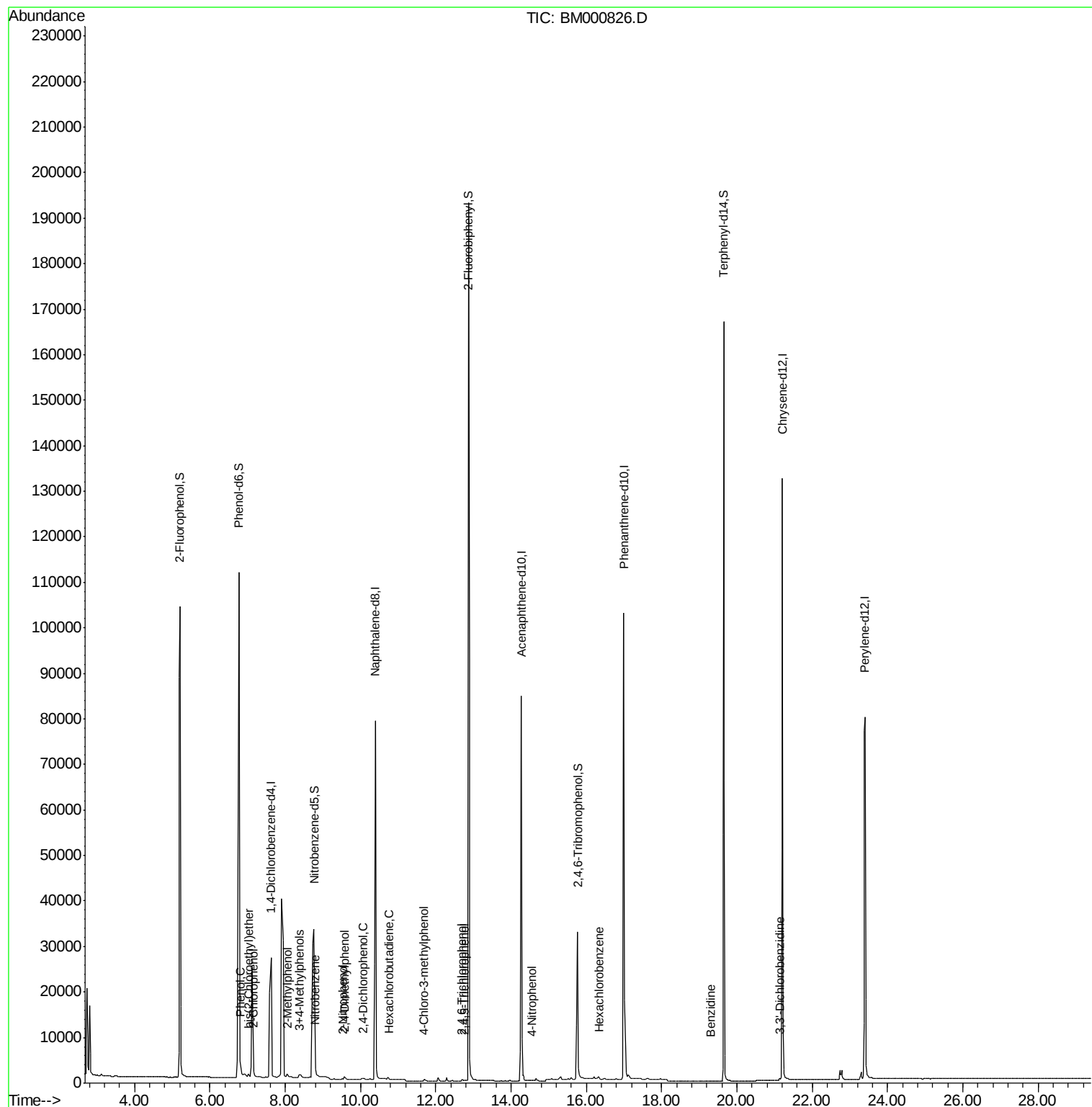
Target Compounds						Qvalue
6) 2-Chlorophenol	7.17	128	797	0.28	ng	87
7) Phenol	6.81	94	973	0.08	ng	63
8) bis(2-Chloroethyl)ether	7.02	93	673m	0.27	ng	
9) 2-Methylphenol	8.06	107	631	0.22	ng	# 78
10) 3+4-Methylphenols	8.38	107	650	0.18	ng	# 76
13) Nitrobenzene	8.80	77	802	0.11	ng	# 80
14) 2-Nitrophenol	9.52	139	356	0.23	ng	# 12
15) 2,4-Dimethylphenol	9.58	122	474	0.06	ng	# 76
16) 2,4-Dichlorophenol	10.07	162	453	0.27	ng	# 82
17) Hexachlorobutadiene	10.75	225	402	0.08	ng	# 89
18) 4-Chloro-3-methylphenol	11.69	107	468	0.07	ng	# 90
21) 2,4,6-Trichlorophenol	12.70	196	213	0.17	ng	# 53
22) 2,4,5-Trichlorophenol	12.77	196	265	0.10	ng	# 82
25) 4-Nitrophenol	14.54	139	78	0.27	ng	# 87
28) Hexachlorobenzene	16.33	284	661	0.14	ng	# 69
31) Benzidine	19.30	184	399	0.13	ng	# 93
33) 3,3'-Dichlorobenzidine	21.14	252	612	0.25	ng	# 69

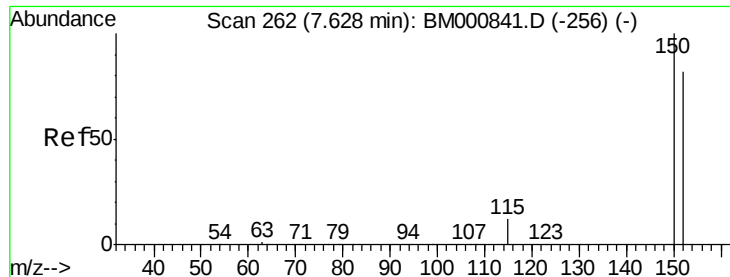
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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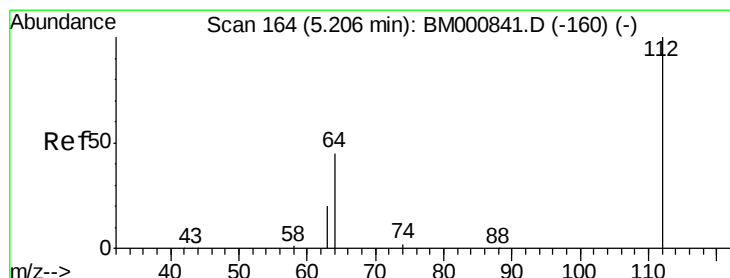
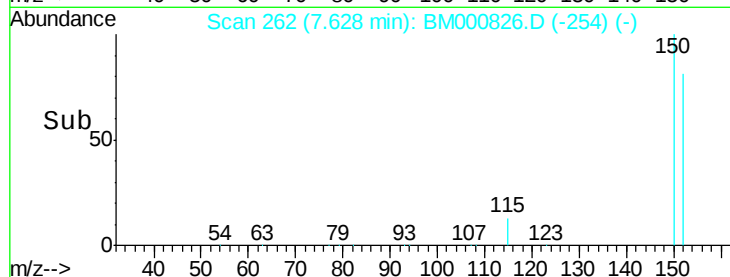
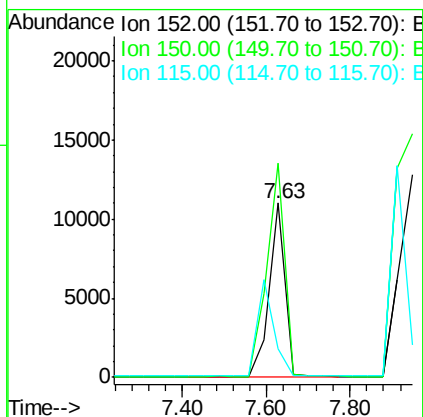
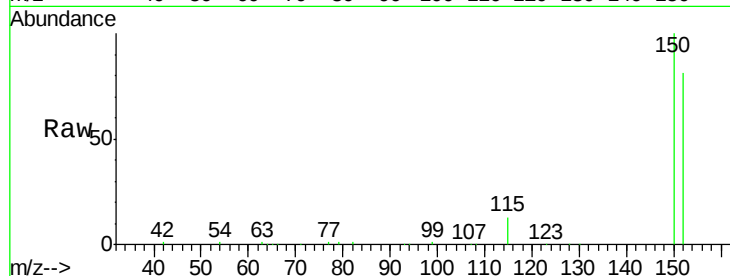


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.63 min Scan# 262
Delta R.T. 0.00 min
Lab File: BM000826.D
Acq: 03 Apr 2015 02:56

Instrument :
BNA_M
ClientSampleId :
MDL-06-S

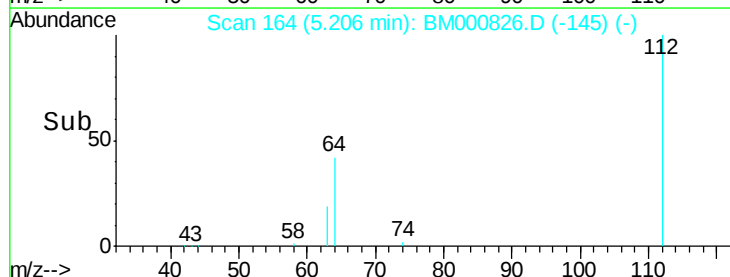
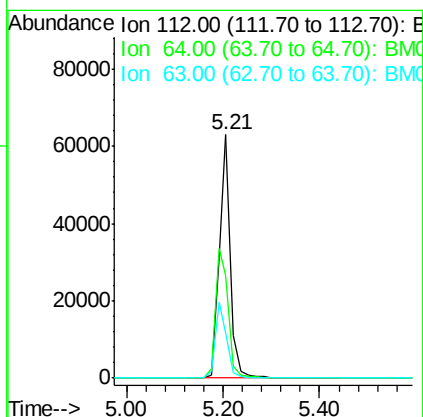
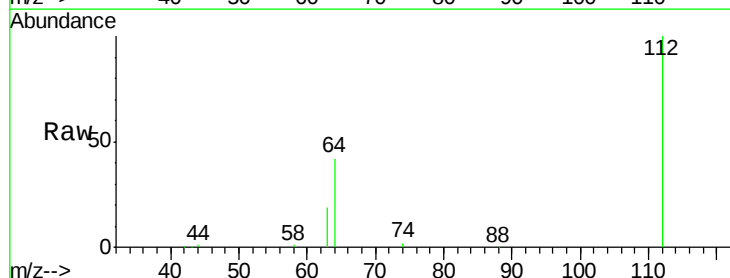
Tot Ion:152 Resp: 28723
Ion Ratio Lower Upper
152 100
150 123.0 99.8 149.6
115 16.1 13.5 20.3

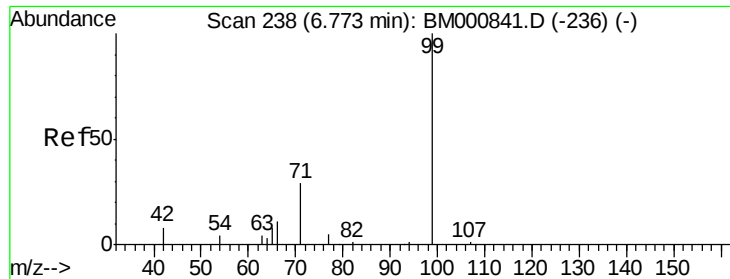


#4

2-Fluorophenol
Concen: 12.89 ng
RT: 5.21 min Scan# 164
Delta R.T. 0.00 min
Lab File: BM000826.D
Acq: 03 Apr 2015 02:56

Tgt Ion:112 Resp: 102012
Ion Ratio Lower Upper
112 100
64 42.4 40.3 60.5
63 18.6 19.0 28.4#





#5

Phenol-d6

Concen: 11.34 ng

RT: 6.77 min Scan# 238

Delta R.T. 0.00 min

Lab File: BM000826.D

Acq: 03 Apr 2015 02:56

Instrument :

BNA_M

ClientSampleId :

MDL-06-S

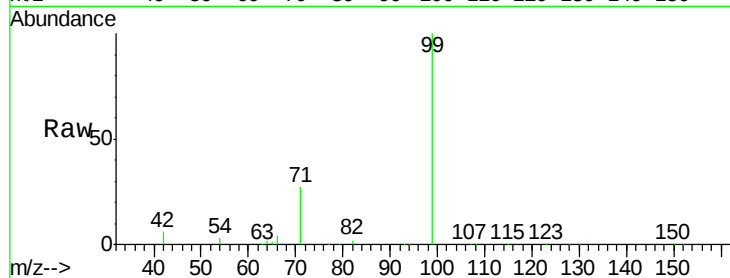
Tot Ion: 99 Resp: 172231

Ion Ratio Lower Upper

99 100

42 5.9 10.2 15.4#

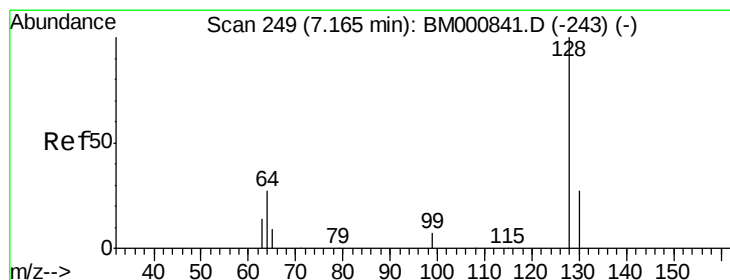
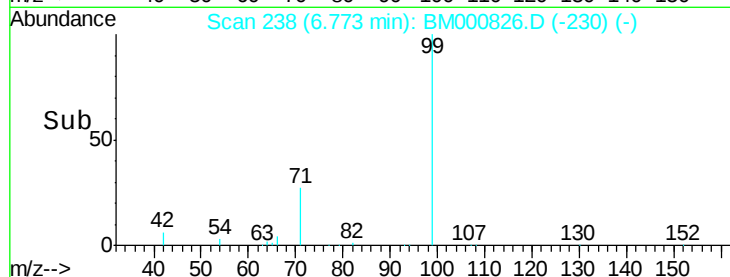
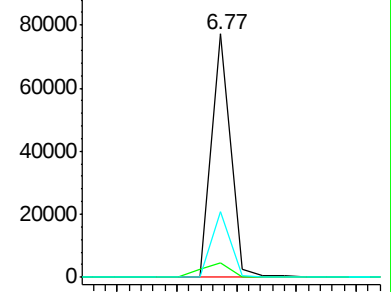
71 27.2 28.6 43.0#



Abundance Ion 99.00 (98.70 to 99.70): BM000826.D (-236) (-)

Ion 42.00 (41.70 to 42.70): BM000826.D (-236) (-)

Ion 71.00 (70.70 to 71.70): BM000826.D (-236) (-)



#6

2-Chlorophenol

Concen: 0.28 ng

RT: 7.17 min Scan# 249

Delta R.T. 0.00 min

Lab File: BM000826.D

Acq: 03 Apr 2015 02:56

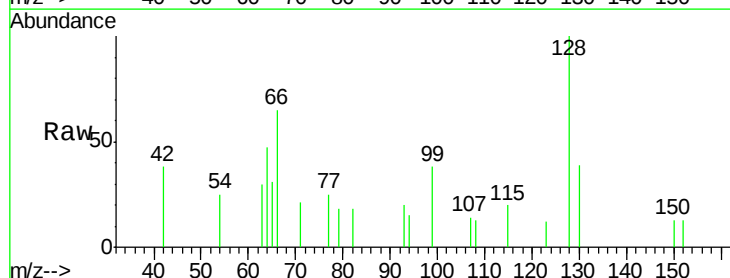
Tgt Ion: 128 Resp: 797

Ion Ratio Lower Upper

128 100

130 39.4 7.6 47.6

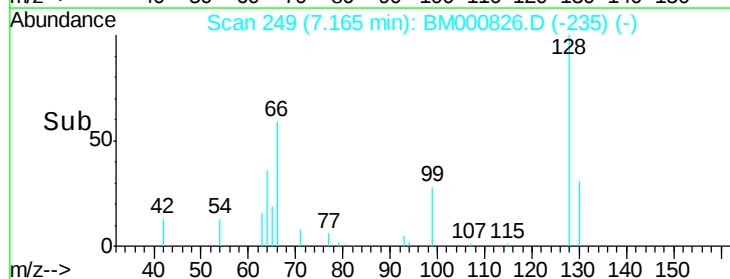
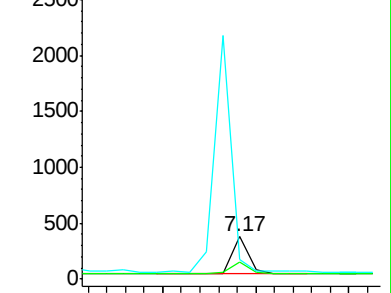
64 47.2 23.1 63.1

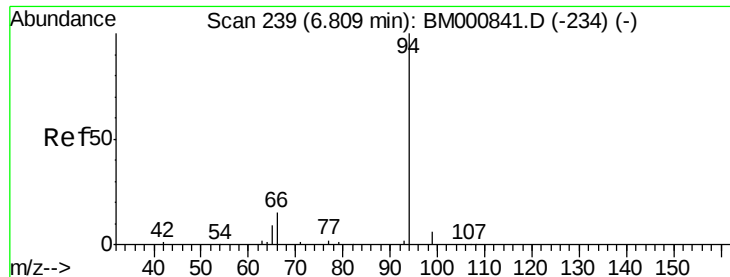


Abundance Ion 128.00 (127.70 to 128.70): BM000826.D (-243) (-)

Ion 130.00 (129.70 to 130.70): BM000826.D (-243) (-)

Ion 64.00 (63.70 to 64.70): BM000826.D (-243) (-)





#7

Phenol

Concen: 0.08 ng

RT: 6.81 min Scan# 239

Delta R.T. 0.00 min

Lab File: BM000826.D

Acq: 03 Apr 2015 02:56

Instrument :

BNA_M

ClientSampleId :

MDL-06-S

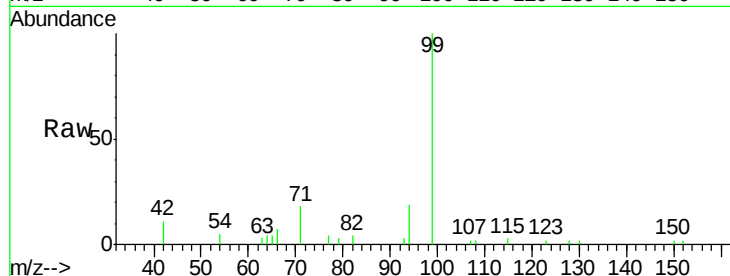
Tot Ion: 94 Resp: 973

Ion Ratio Lower Upper

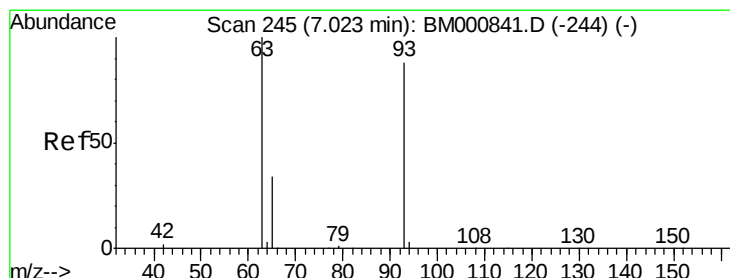
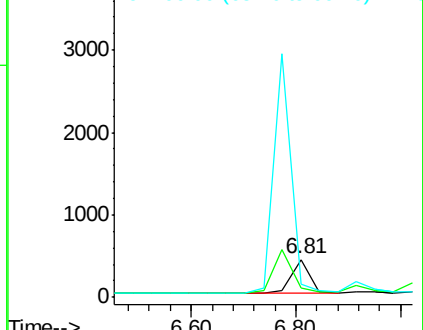
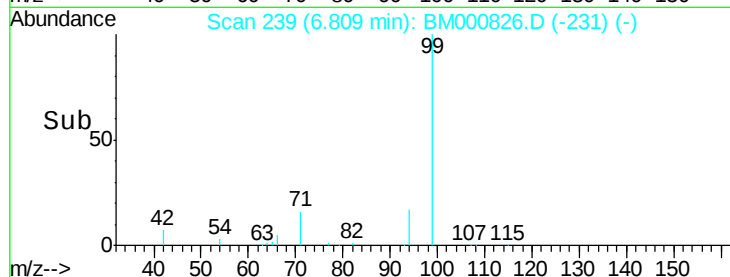
94 100

65 23.4 0.0 32.0

66 36.5 0.0 37.6



Abundance Ion 94.00 (93.70 to 94.70): BM000826.D (-231) (-)



#8

bis(2-Chloroethyl)ether

Concen: 0.27 ng m

RT: 7.02 min Scan# 245

Delta R.T. 0.00 min

Lab File: BM000826.D

Acq: 03 Apr 2015 02:56

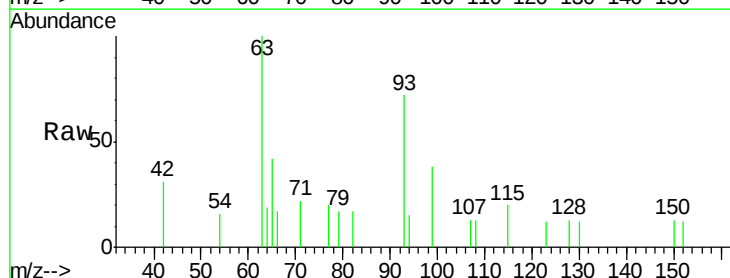
Tgt Ion: 93 Resp: 673

Ion Ratio Lower Upper

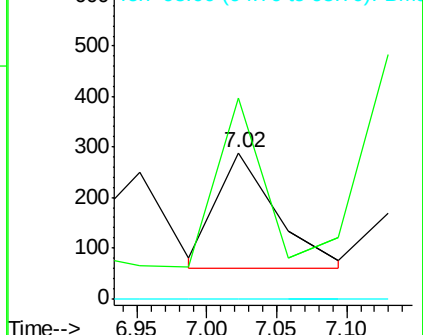
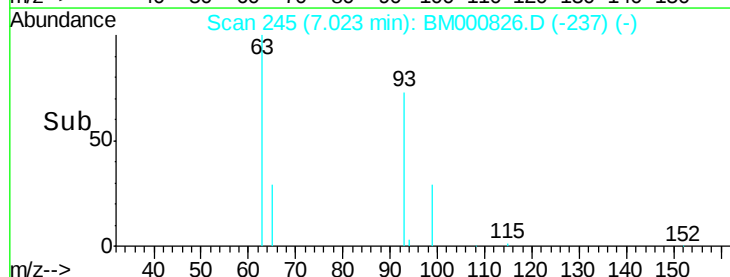
93 100

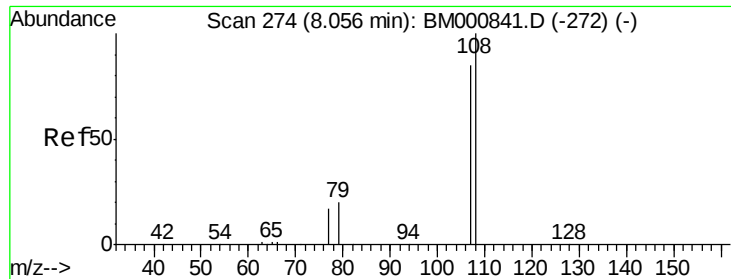
63 138.2 118.9 158.9

95 0.0 0.0 20.0



Abundance Ion 93.00 (92.70 to 93.70): BM000826.D (-237) (-)





#9

2-Methylphenol

Concen: 0.22 ng

RT: 8.06 min Scan# 274

Delta R.T. 0.00 min

Lab File: BM000826.D

Acq: 03 Apr 2015 02:56

Instrument :

BNA_M

ClientSampleID :

MDL-06-S

Tot Ion:107 Resp: 631

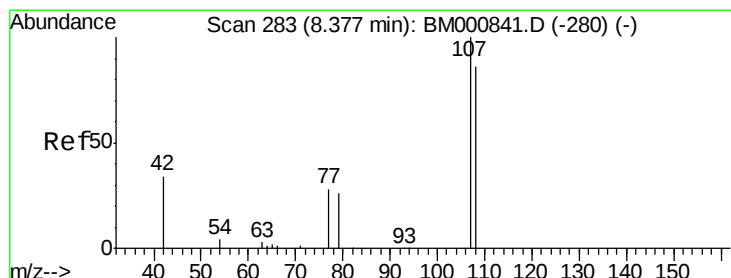
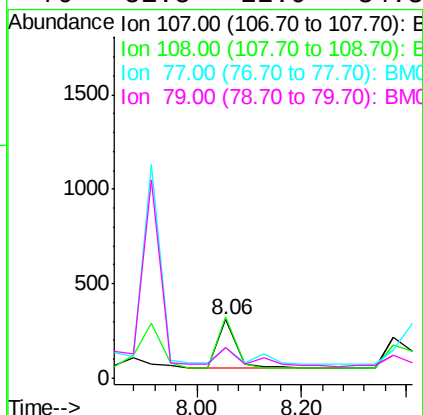
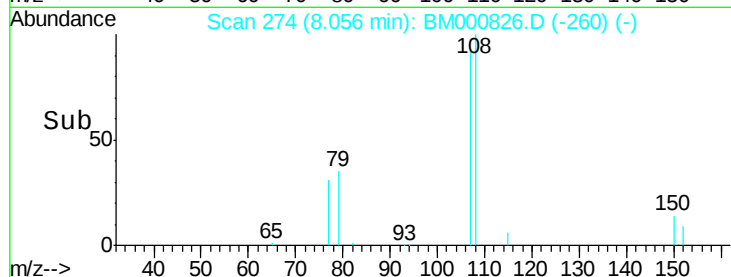
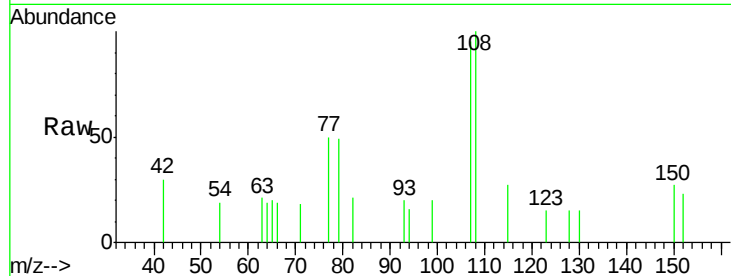
Ion Ratio Lower Upper

107 100

108 104.8 92.0 138.0

77 52.1 20.6 31.0#

79 51.8 22.9 34.3#



#10

3+4-Methylphenols

Concen: 0.18 ng

RT: 8.38 min Scan# 283

Delta R.T. 0.00 min

Lab File: BM000826.D

Acq: 03 Apr 2015 02:56

Tgt Ion:107 Resp: 650

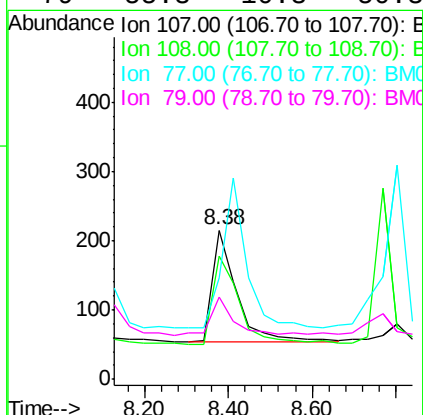
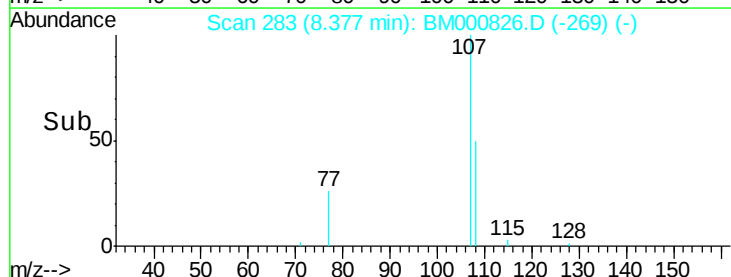
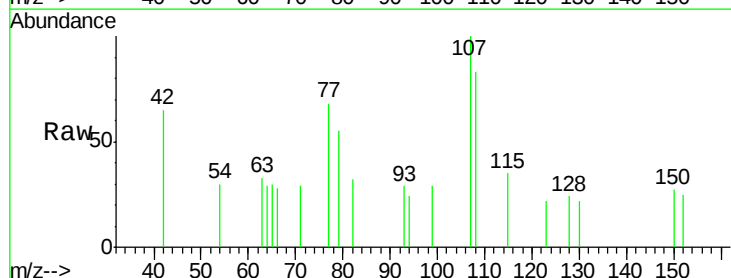
Ion Ratio Lower Upper

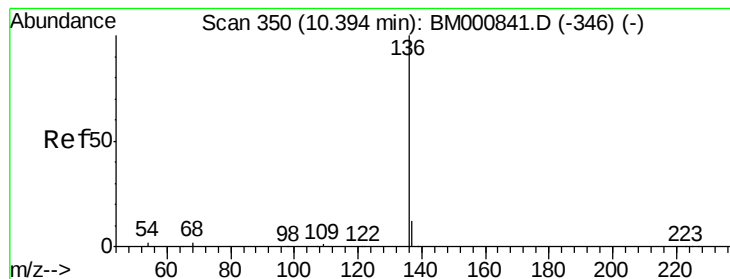
107 100

108 82.8 62.6 102.6

77 67.9 12.8 52.8#

79 55.3 10.3 50.3#





#11

Naphthalene-d8

Concen: 5.00 ng

RT: 10.39 min Scan# 350

Delta R.T. 0.00 min

Lab File: BM000826.D

Acq: 03 Apr 2015 02:56

Instrument :

BNA_M

ClientSampleId :

MDL-06-S

Tot Ion:136 Resp: 134642

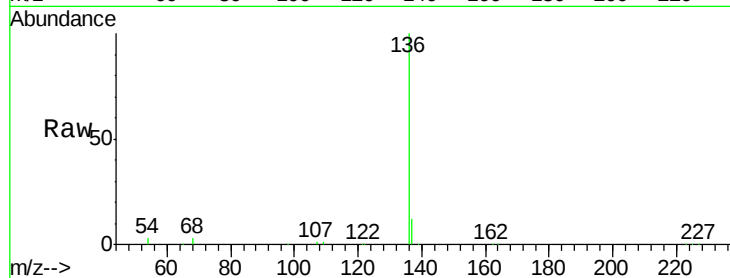
Ion Ratio Lower Upper

136 100

137 11.5 9.1 13.7

54 2.8 2.2 3.4

68 2.7 2.2 3.2

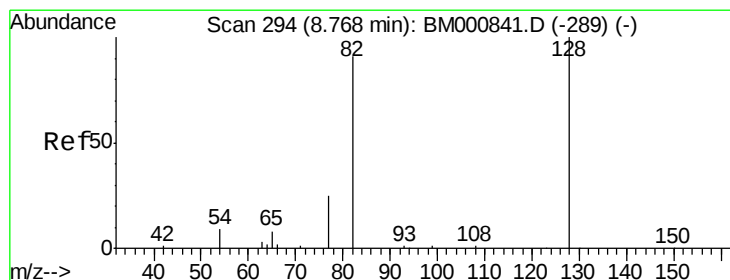
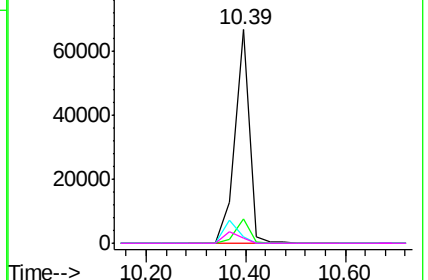
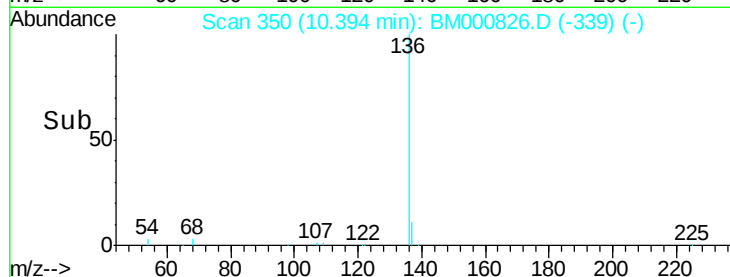


Abundance Ion 136.00 (135.70 to 136.70): E

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: 7.34 ng

RT: 8.77 min Scan# 294

Delta R.T. 0.00 min

Lab File: BM000826.D

Acq: 03 Apr 2015 02:56

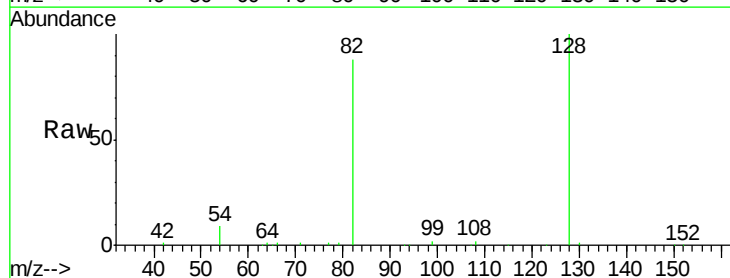
Tgt Ion: 82 Resp: 46093

Ion Ratio Lower Upper

82 100

128 114.0 72.5 108.7#

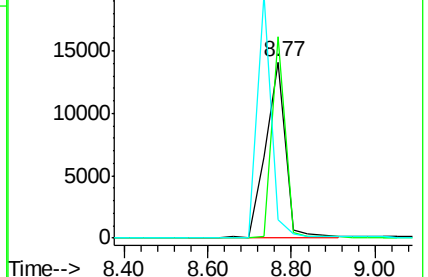
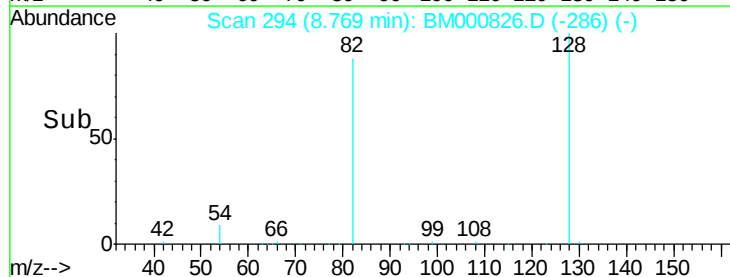
54 10.4 11.8 17.8#

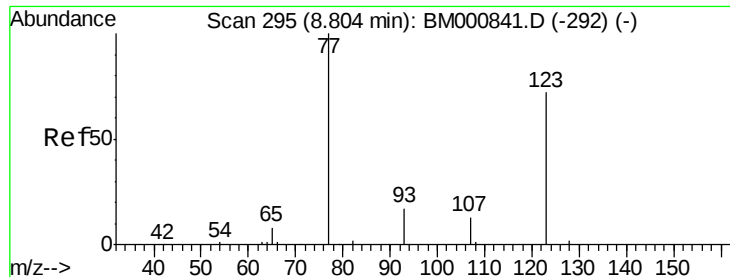


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM

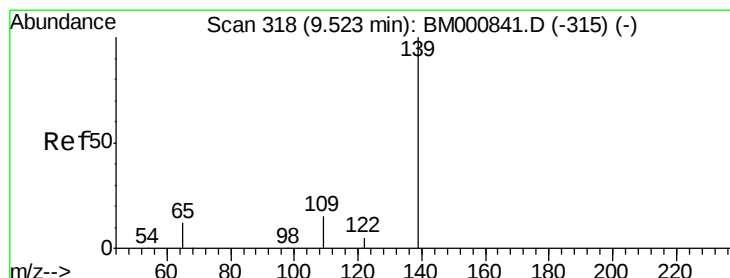
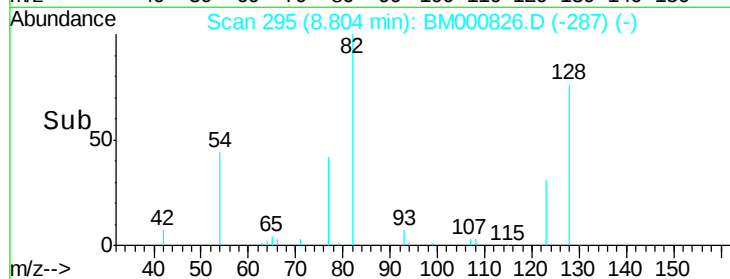
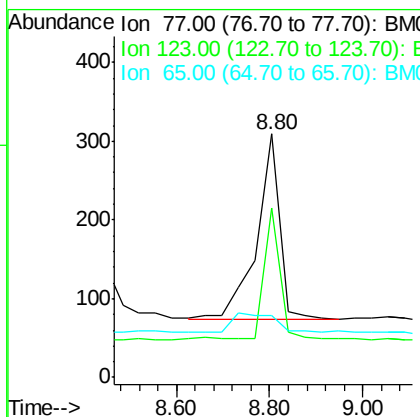
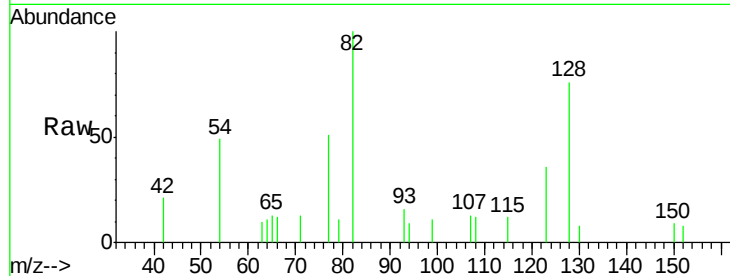




#13
Nitrobenzene
Concen: 0.11 ng
RT: 8.80 min Scan# 295
Delta R.T. 0.00 min
Lab File: BM000826.D
Acq: 03 Apr 2015 02:56

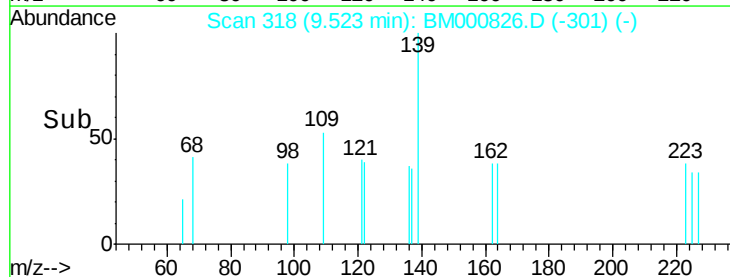
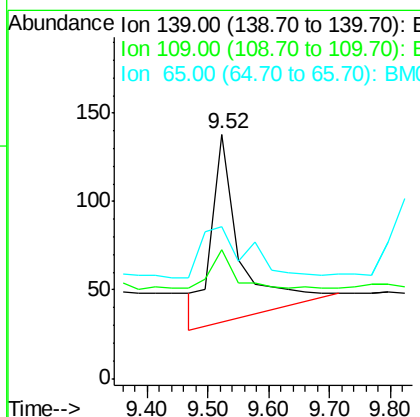
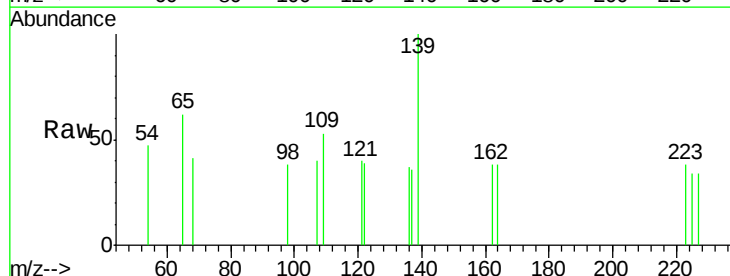
Instrument :
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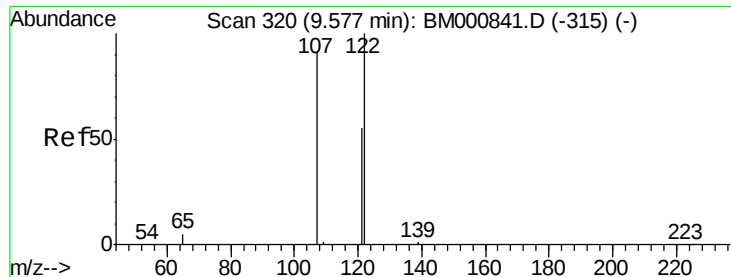
Tot Ion: 77 Resp: 802
Ion Ratio Lower Upper
77 100
123 69.6 45.8 68.6#
65 25.6 8.2 12.4#



#14
2-Nitrophenol
Concen: 0.23 ng
RT: 9.52 min Scan# 318
Delta R.T. 0.00 min
Lab File: BM000826.D
Acq: 03 Apr 2015 02:56

Tgt Ion: 139 Resp: 356
Ion Ratio Lower Upper
139 100
109 52.9 15.0 22.6#
65 62.3 14.2 21.4#





#15

2,4-Dimethylphenol

Concen: 0.06 ng

RT: 9.58 min Scan# 320

Delta R.T. 0.00 min

Lab File: BM000826.D

Acq: 03 Apr 2015 02:56

Instrument :

BNA_M

ClientSampleId :

MDL-06-S

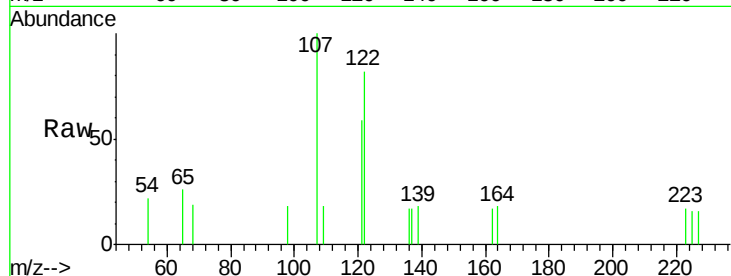
Tot Ion:122 Resp: 474

Ion Ratio Lower Upper

122 100

107 122.6 78.2 117.4#

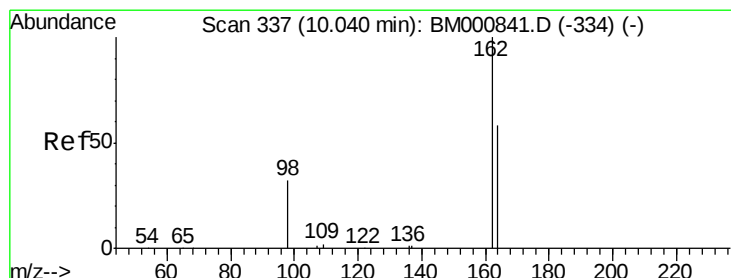
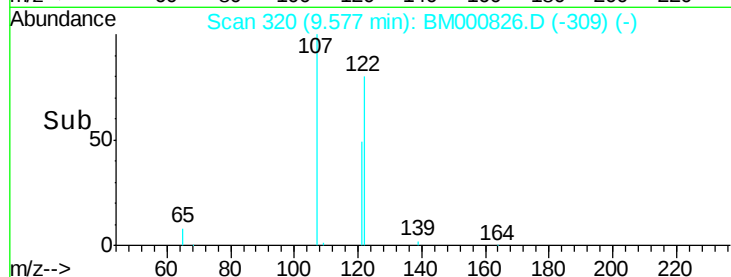
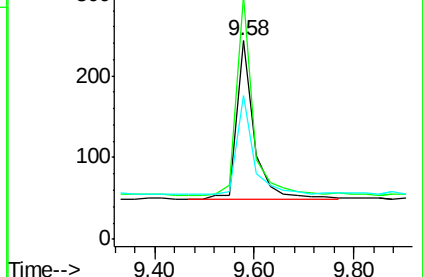
121 72.4 45.4 68.0#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#16

2,4-Dichlorophenol

Concen: 0.27 ng

RT: 10.07 min Scan# 338

Delta R.T. 0.03 min

Lab File: BM000826.D

Acq: 03 Apr 2015 02:56

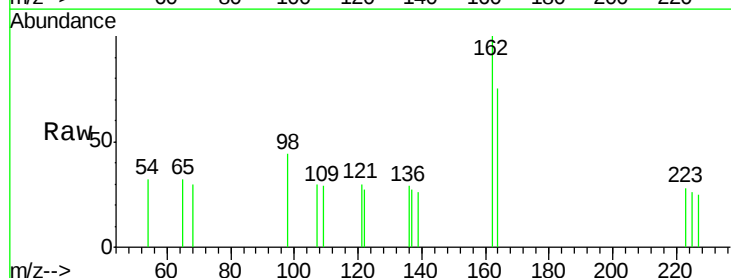
Tgt Ion:162 Resp: 453

Ion Ratio Lower Upper

162 100

164 75.1 37.1 77.1

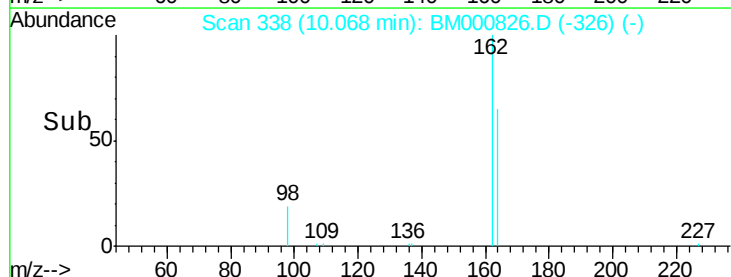
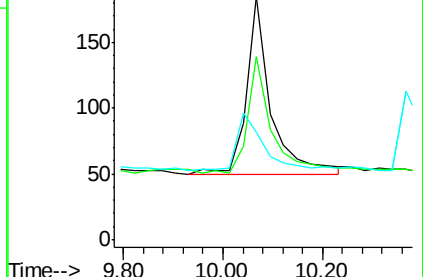
98 44.3 19.5 59.5

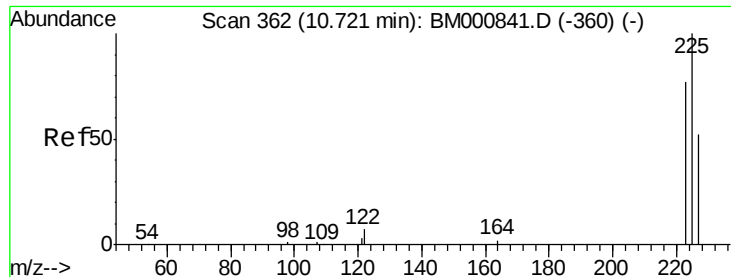


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BM

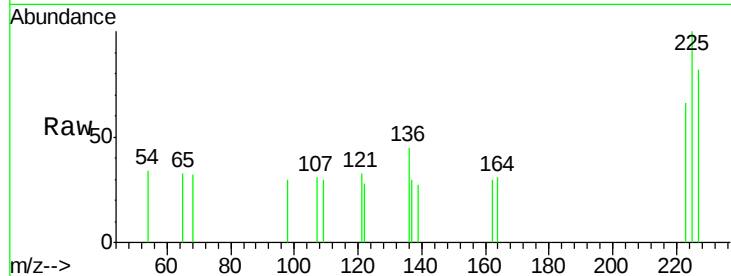




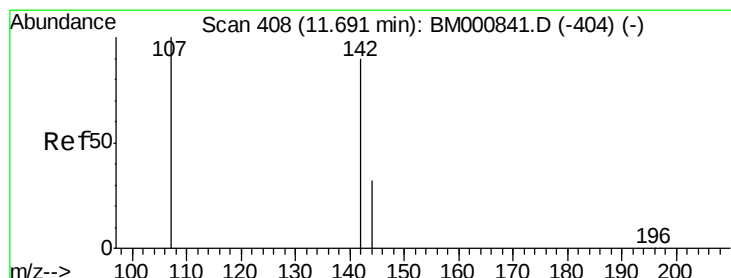
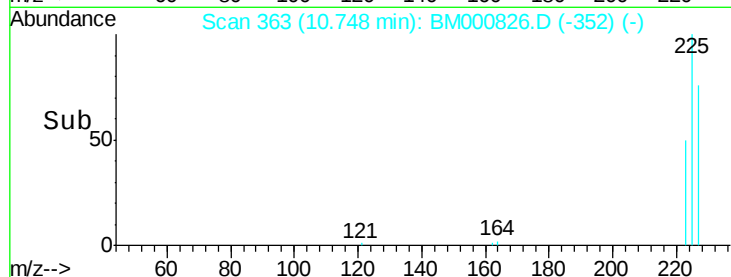
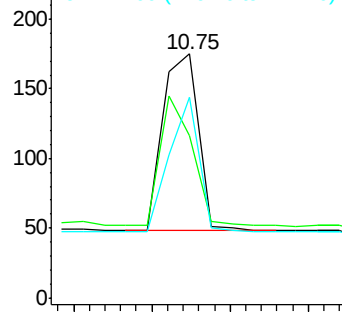
#17
Hexachlorobutadiene
Concen: 0.08 ng
RT: 10.75 min Scan# 363
Delta R.T. 0.00 min
Lab File: BM000826.D
Acq: 03 Apr 2015 02:56

Instrument :
BNA_M
ClientSampleId :
MDL-06-S

Tot Ion:225 Resp: 402
Ion Ratio Lower Upper
225 100
223 66.3 40.8 61.2#
227 82.3 62.8 94.2

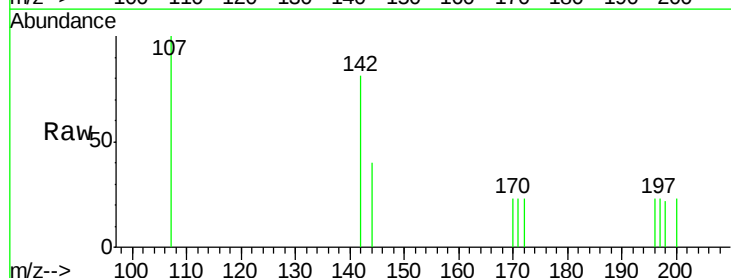


Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E

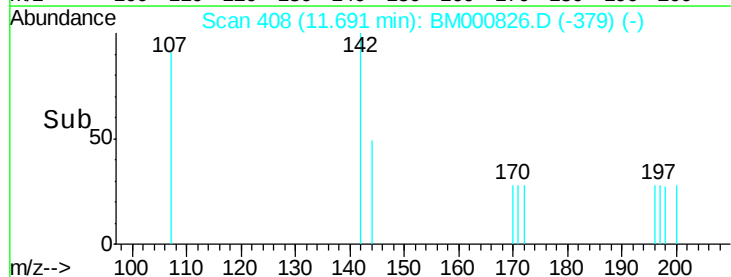
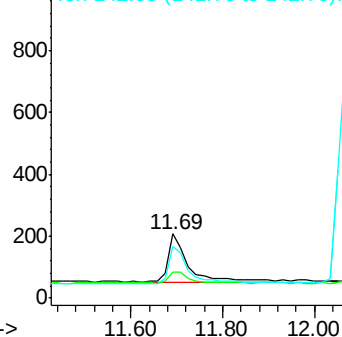


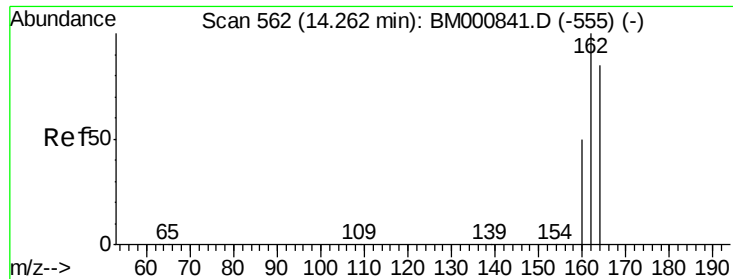
#18
4-Chloro-3-methylphenol
Concen: 0.07 ng
RT: 11.69 min Scan# 408
Delta R.T. 0.00 min
Lab File: BM000826.D
Acq: 03 Apr 2015 02:56

Tgt Ion:107 Resp: 468
Ion Ratio Lower Upper
107 100
144 40.1 25.8 38.8#
142 81.2 71.3 106.9



Abundance Ion 107.00 (106.70 to 107.70): E
Ion 144.00 (143.70 to 144.70): E
Ion 142.00 (141.70 to 142.70): E

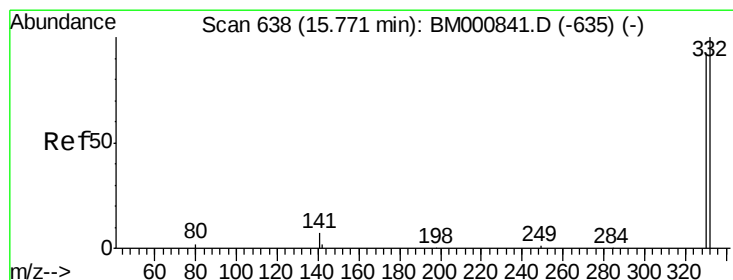
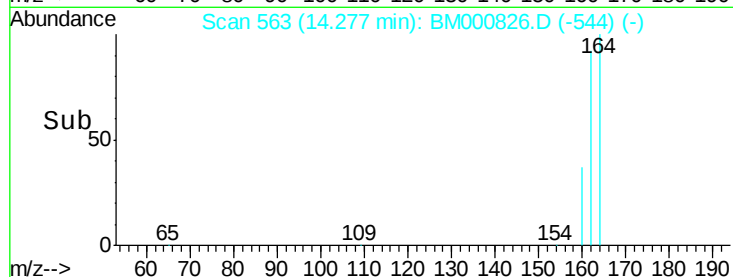
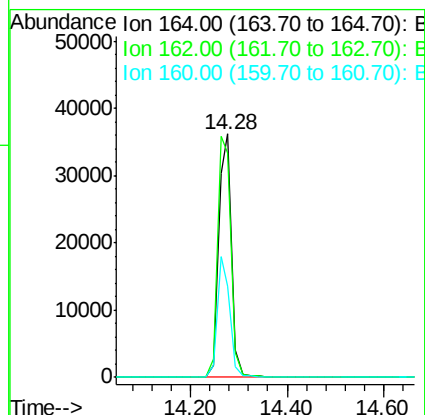
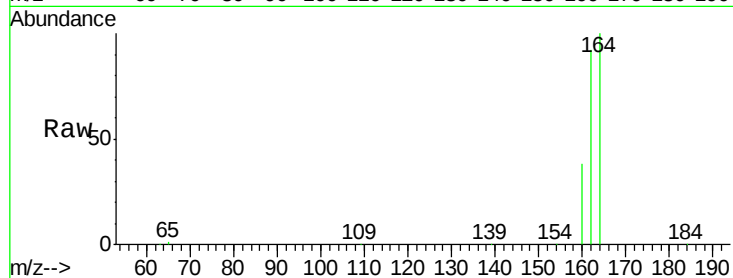




#19
 Acenaphthene-d10
 Concen: 5.00 ng
 RT: 14.28 min Scan# 563
 Delta R.T. 0.00 min
 Lab File: BM000826.D
 Acq: 03 Apr 2015 02:56

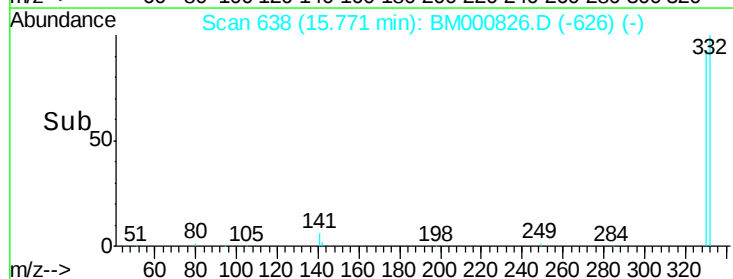
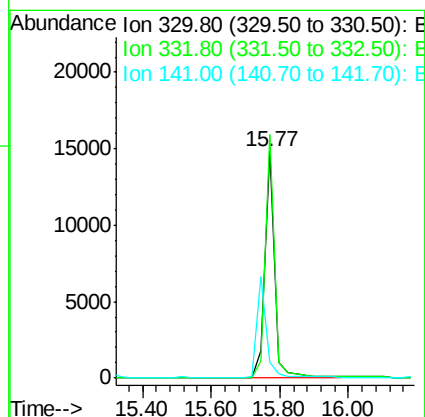
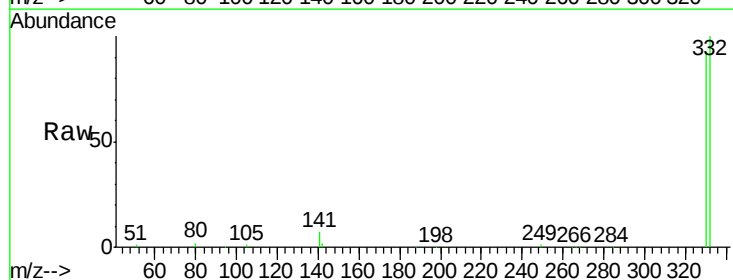
Instrument :
 BNA_M
 ClientSampleID :
 MDL-06-S

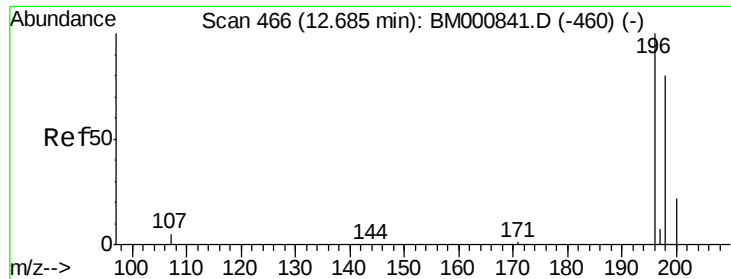
Tot Ion:164 Resp: 67929
 Ion Ratio Lower Upper
 164 100
 162 92.2 74.2 111.2
 160 37.6 30.4 45.6



#20
 2,4,6-Tribromophenol
 Concen: 9.80 ng
 RT: 15.77 min Scan# 638
 Delta R.T. 0.00 min
 Lab File: BM000826.D
 Acq: 03 Apr 2015 02:56

Tgt Ion:330 Resp: 28226
 Ion Ratio Lower Upper
 330 100
 332 103.0 78.7 118.1
 141 0.0 0.0 0.0





#21

2,4,6-Trichlorophenol

Concen: 0.17 ng

RT: 12.70 min Scan# 467

Delta R.T. 0.02 min

Lab File: BM000826.D

Acq: 03 Apr 2015 02:56

Instrument :

BNA_M

ClientSampleId :

MDL-06-S

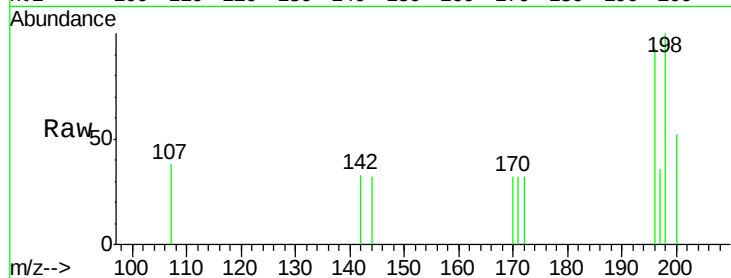
Tot Ion:196 Resp: 213

Ion Ratio Lower Upper

196 100

198 107.8 59.5 89.3#

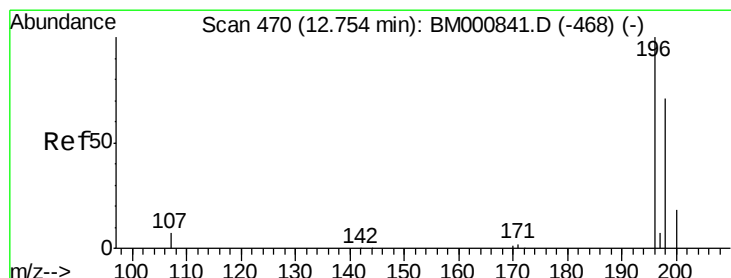
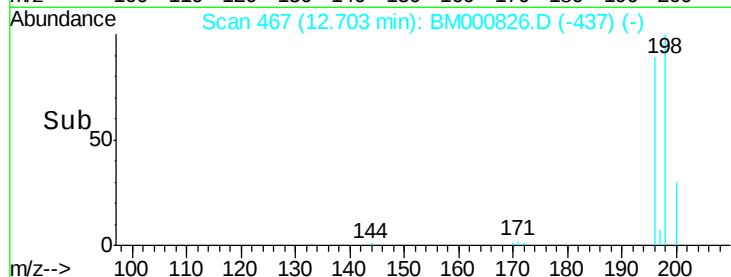
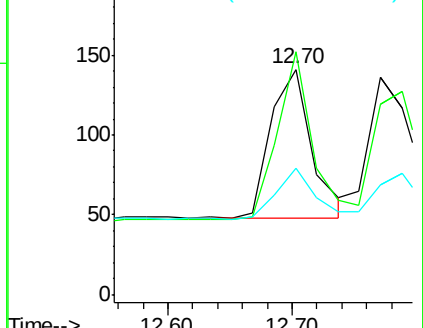
200 56.0 17.4 26.0#



Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 200.00 (199.70 to 200.70): E



#22

2,4,5-Trichlorophenol

Concen: 0.10 ng

RT: 12.77 min Scan# 471

Delta R.T. 0.02 min

Lab File: BM000826.D

Acq: 03 Apr 2015 02:56

Tgt Ion:196 Resp: 265

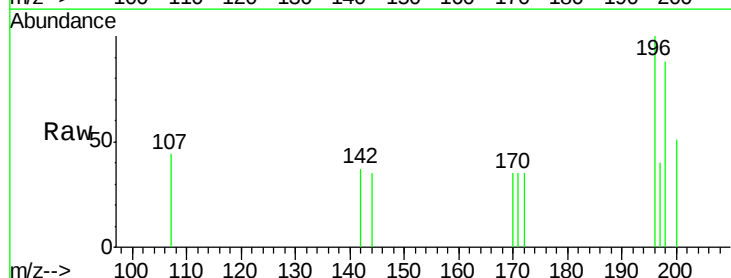
Ion Ratio Lower Upper

196 100

198 87.5 57.9 86.9#

97 0.0 0.0 0.0

132 0.0 0.0 0.0

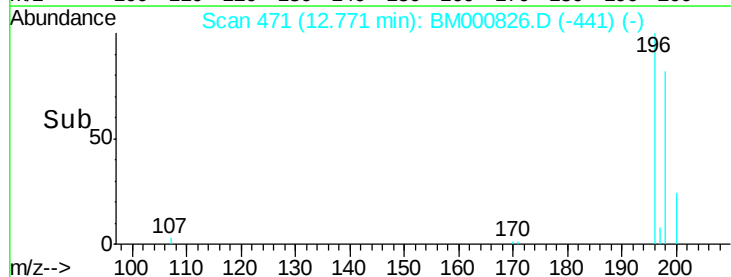
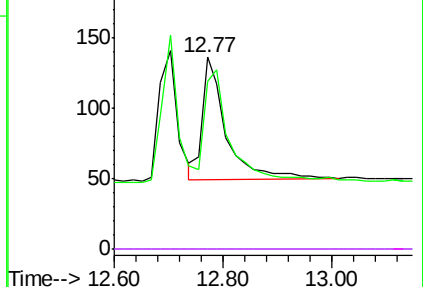


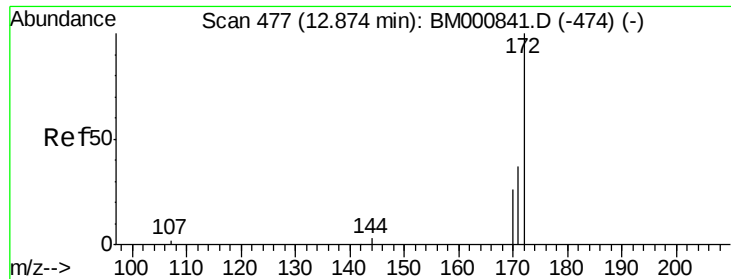
Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 97.00 (96.70 to 97.70): BM

Ion 132.00 (131.70 to 132.70): E

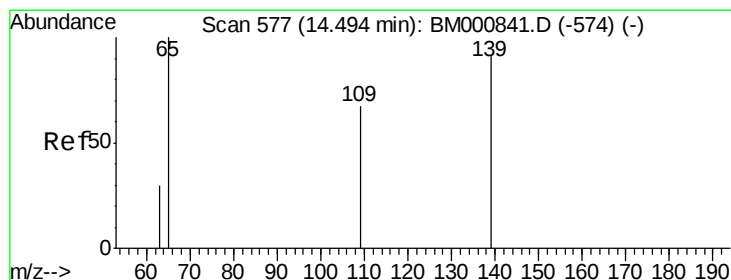
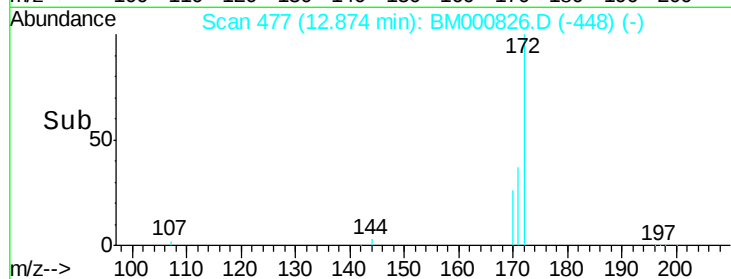
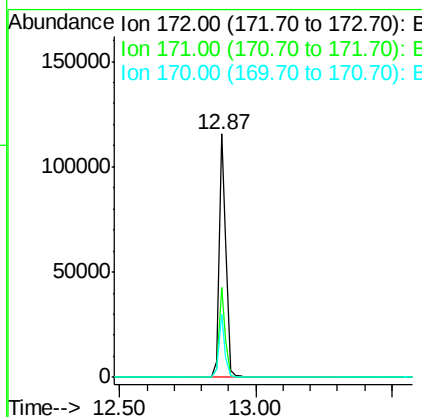
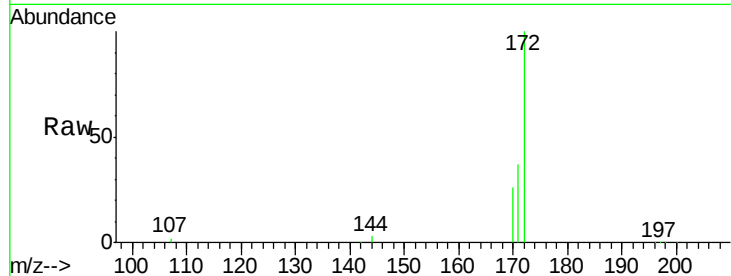




#23
2-Fluorobiphenyl
Concen: 9.60 ng
RT: 12.87 min Scan# 477
Delta R.T. 0.00 min
Lab File: BM000826.D
Acq: 03 Apr 2015 02:56

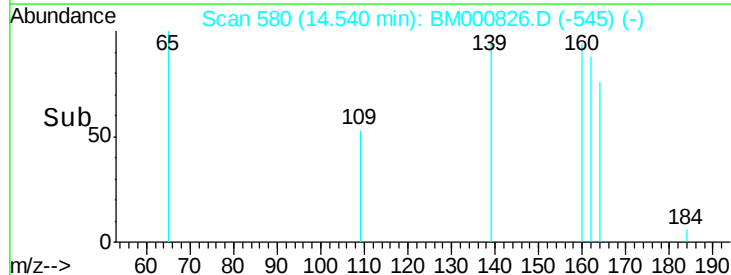
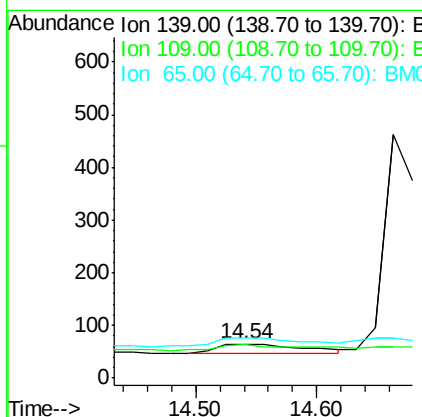
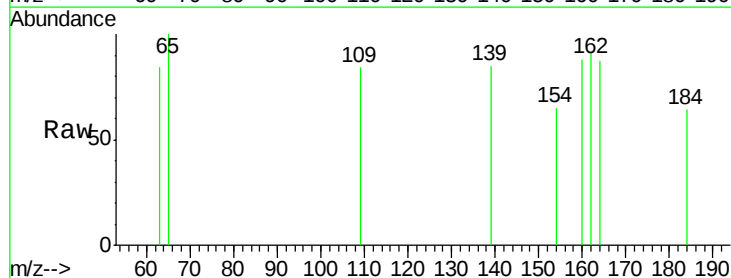
Instrument :
BNA_M
ClientSampleId :
MDL-06-S

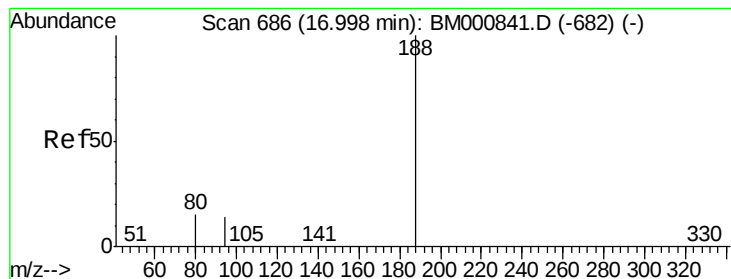
Tot Ion:172 Resp: 200888
Ion Ratio Lower Upper
172 100
171 36.8 30.6 46.0
170 25.9 22.2 33.2



#25
4-Nitrophenol
Concen: 0.27 ng
RT: 14.54 min Scan# 580
Delta R.T. 0.05 min
Lab File: BM000826.D
Acq: 03 Apr 2015 02:56

Tgt Ion:139 Resp: 78
Ion Ratio Lower Upper
139 100
109 98.4 58.2 98.2#
65 117.2 90.4 130.4





#26

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.00 min Scan# 686

Delta R.T. 0.00 min

Lab File: BM000826.D

Acq: 03 Apr 2015 02:56

Instrument :

BNA_M

ClientSampleId :

MDL-06-S

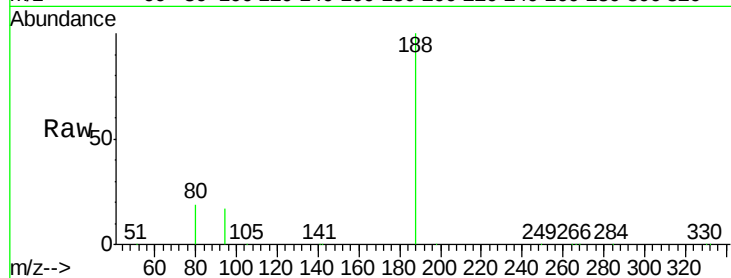
Tot Ion:188 Resp: 145328

Ion Ratio Lower Upper

188 100

94 16.6 13.0 19.6

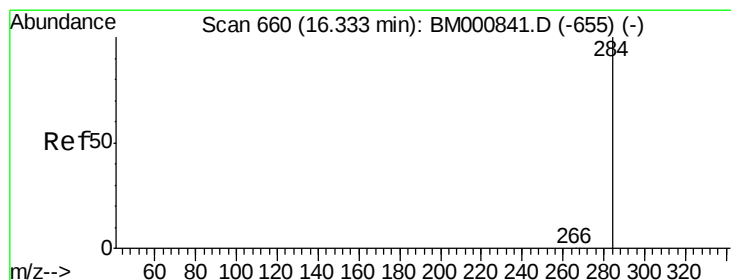
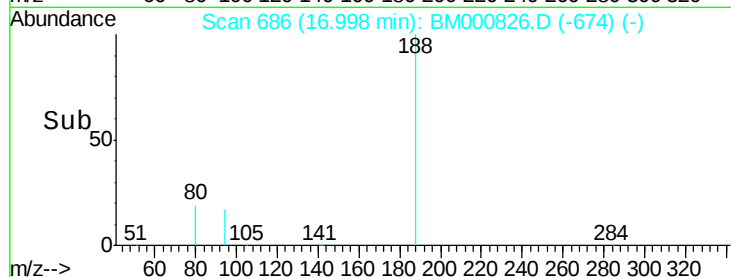
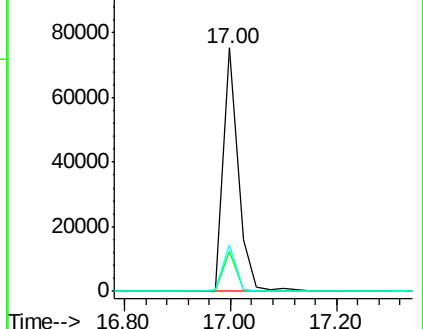
80 18.9 14.7 22.1



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM



#28

Hexachlorobenzene

Concen: 0.14 ng

RT: 16.33 min Scan# 660

Delta R.T. 0.00 min

Lab File: BM000826.D

Acq: 03 Apr 2015 02:56

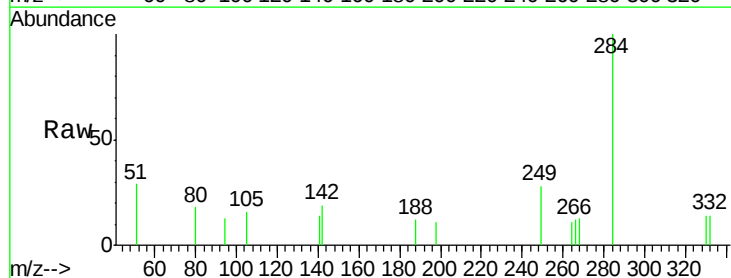
Tgt Ion:284 Resp: 661

Ion Ratio Lower Upper

284 100

142 19.4 6.5 9.7#

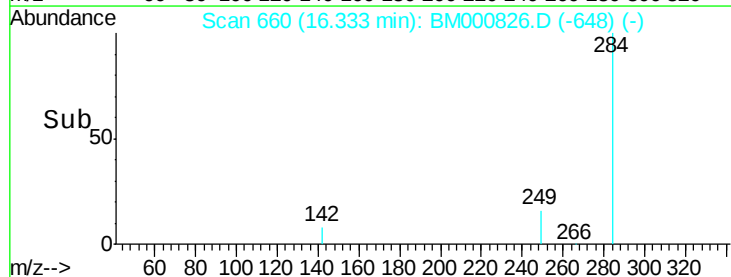
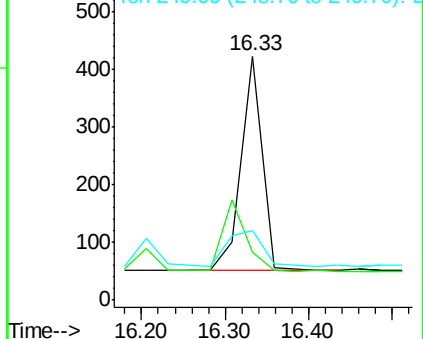
249 28.4 12.6 18.8#

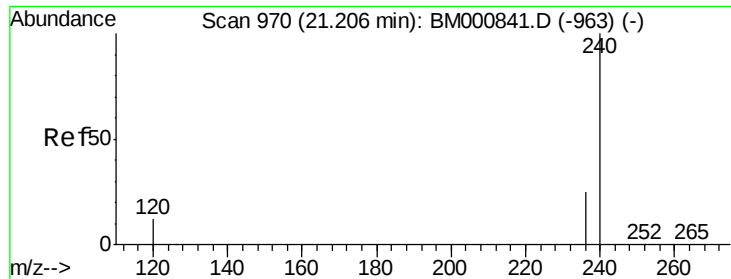


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

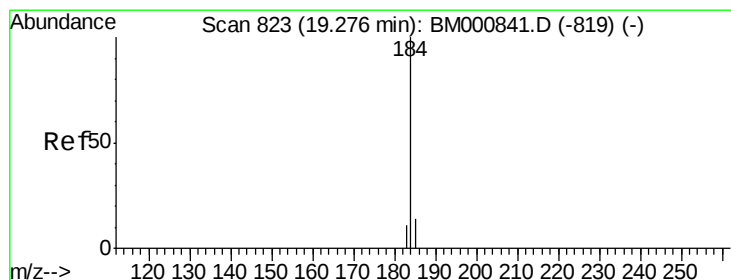
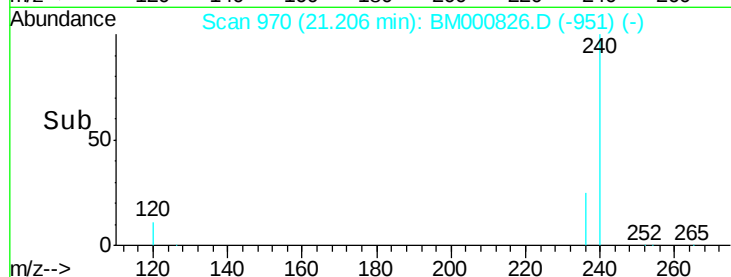
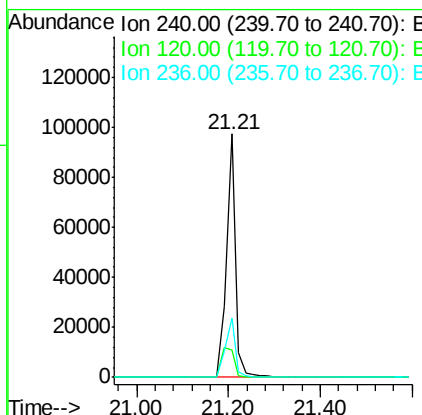
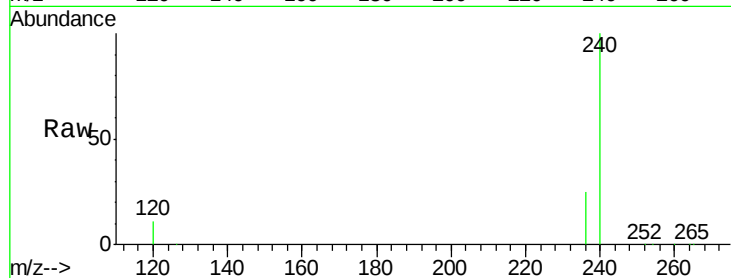




#30
Chrysene-d12
Concen: 5.00 ng
RT: 21.21 min Scan# 970
Delta R.T. 0.00 min
Lab File: BM000826.D
Acq: 03 Apr 2015 02:56

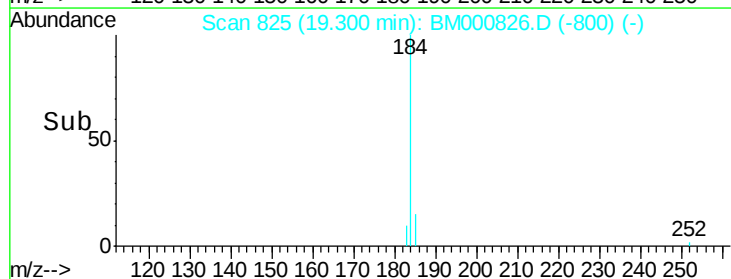
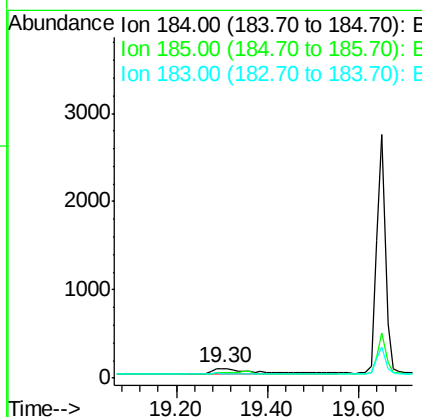
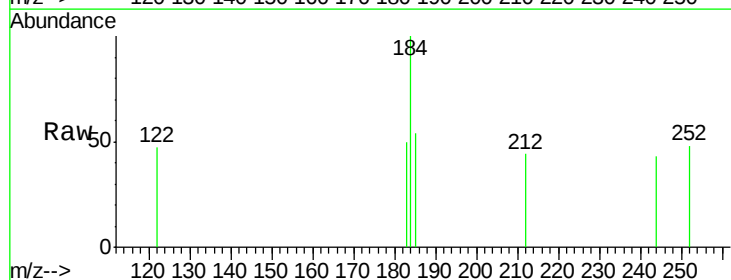
Instrument :
BNA_M
ClientSampleId :
MDL-06-S

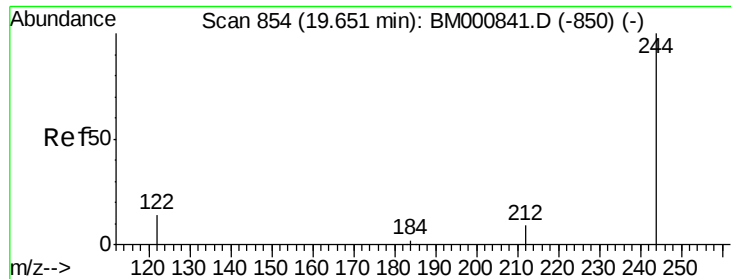
Tot Ion:240 Resp: 130700
Ion Ratio Lower Upper
240 100
120 11.0 11.3 16.9#
236 24.6 21.1 31.7



#31
Benzidine
Concen: 0.13 ng
RT: 19.30 min Scan# 825
Delta R.T. 0.00 min
Lab File: BM000826.D
Acq: 03 Apr 2015 02:56

Tgt Ion:184 Resp: 399
Ion Ratio Lower Upper
184 100
185 53.6 39.1 58.7
183 50.0 36.1 54.1

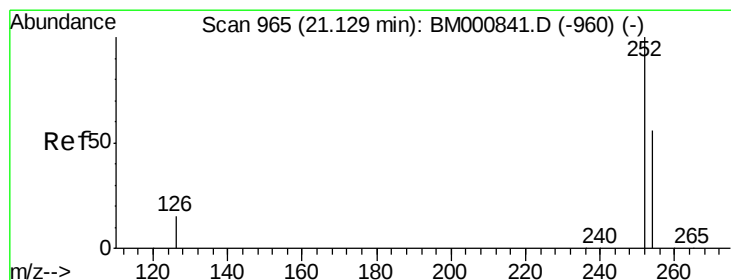
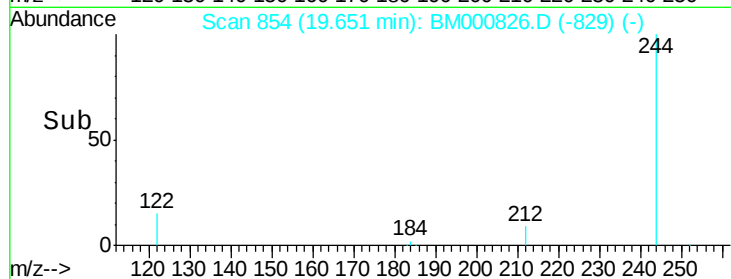
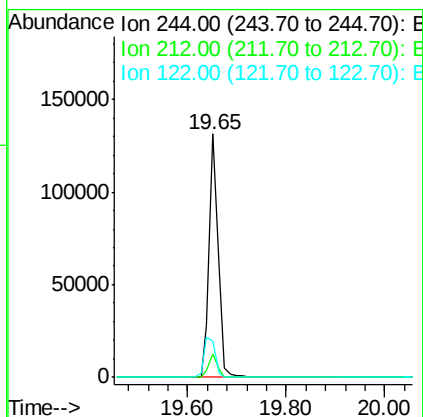
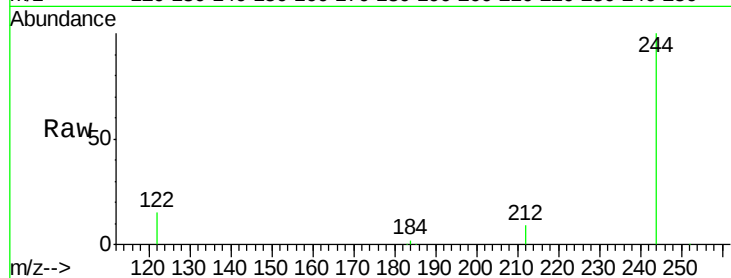




#32
 Terphenyl-d14
 Concen: 10.54 ng
 RT: 19.65 min Scan# 854
 Delta R.T. 0.00 min
 Lab File: BM000826.D
 Acq: 03 Apr 2015 02:56

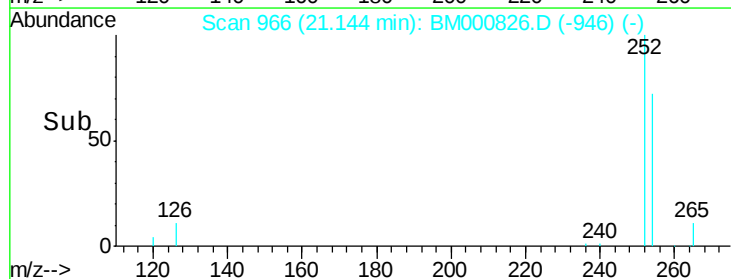
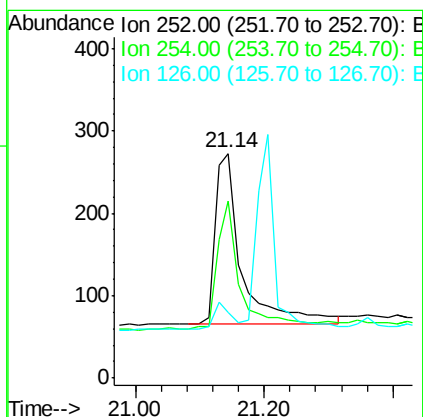
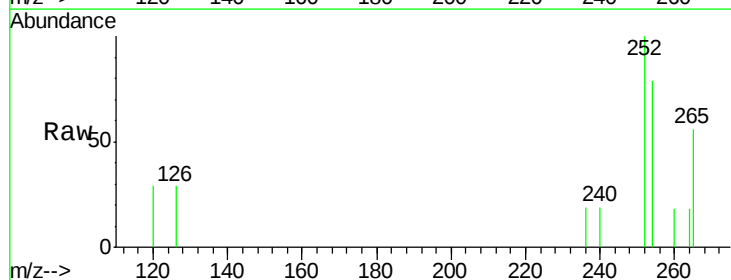
Instrument :
 BNA_M
 ClientSampleId :
 MDL-06-S

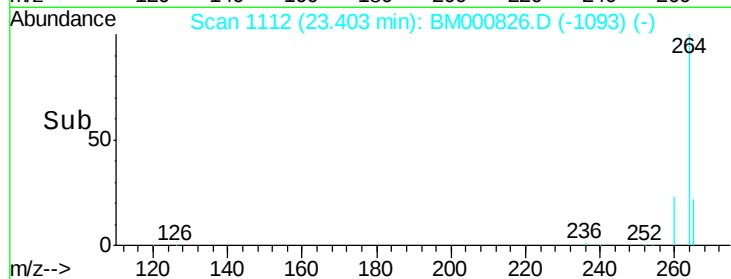
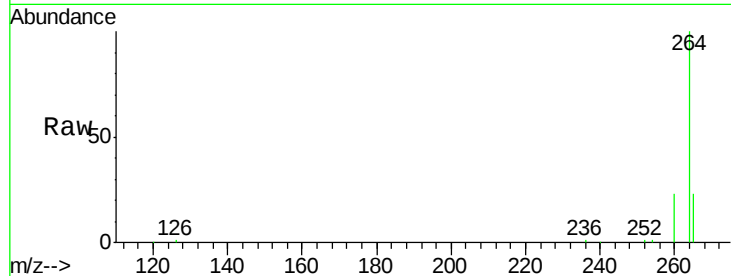
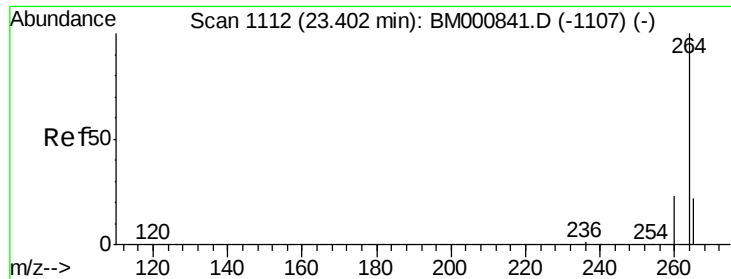
Tot Ion:244 Resp: 165757
 Ion Ratio Lower Upper
 244 100
 212 9.5 8.0 12.0
 122 15.0 14.7 22.1



#33
 3,3'-Dichlorobenzidine
 Concen: 0.25 ng
 RT: 21.14 min Scan# 966
 Delta R.T. 0.02 min
 Lab File: BM000826.D
 Acq: 03 Apr 2015 02:56

Tgt Ion:252 Resp: 612
 Ion Ratio Lower Upper
 252 100
 254 78.8 44.5 66.7#
 126 28.9 13.6 20.4#





#34

Pervlene-d12

Concen: 5.00 ng

RT: 23.40 min Scan# 1112

Delta R.T. 0.00 min

Lab File: BM000826.D

Acq: 03 Apr 2015 02:56

Instrument :

BNA_M

ClientSampleId :

MDL-06-S

Tot Ion:264 Resp: 120598

Ion Ratio Lower Upper

264 100

260 22.9 19.1 28.7

265 22.8 17.5 26.3

