

Data Path : Z:\HPCHEM1\BNA M\DATA\BM040315\
 Data File : BM000824.D
 Acq On : 03 Apr 2015 01:44
 Operator : TP/IZ
 Sample : MDL-04-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-04-S

Quant Time: Apr 03 18:35:45 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	27539	5.00	ng	0.00
11) Naphthalene-d8	10.39	136	131031	5.00	ng	0.00
19) Acenaphthene-d10	14.28	164	64962	5.00	ng	0.00
26) Phenanthrene-d10	17.00	188	134684	5.00	ng	0.00
30) Chrysene-d12	21.21	240	125135	5.00	ng	0.00
34) Perylene-d12	23.39	264	115407	5.00	ng	-0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.21	112	86651	11.42	ng	0.00
5) Phenol-d6	6.77	99	148185	10.20	ng	0.00
12) Nitrobenzene-d5	8.77	82	39263	6.42	ng	0.00
20) 2,4,6-Tribromophenol	15.77	330	21831	7.96	ng	0.00
23) 2-Fluorobiphenyl	12.87	172	170115	8.50	ng	0.00
32) Terphenyl-d14	19.65	244	137715	9.14	ng	0.00

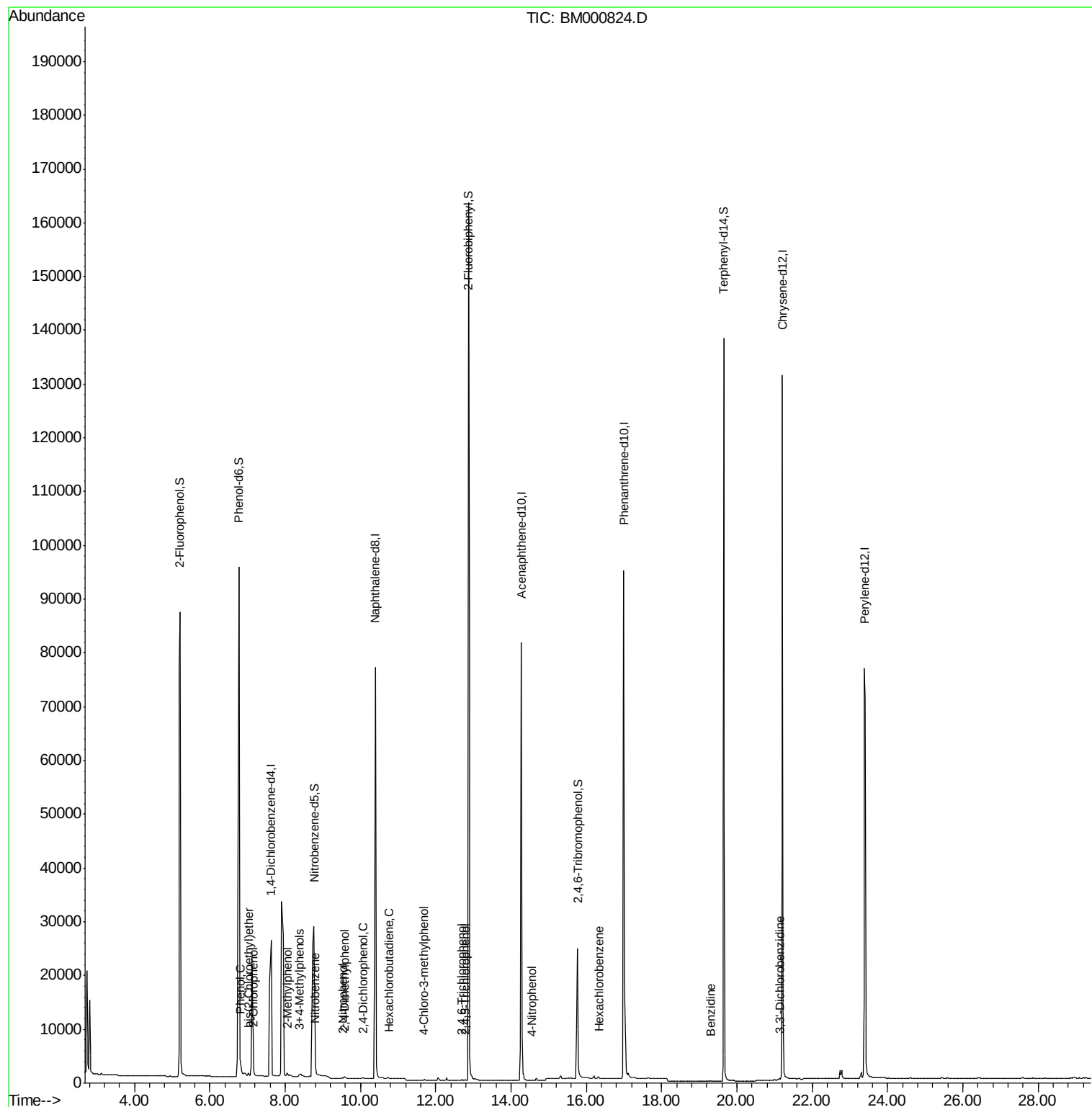
Target Compounds						Qvalue
6) 2-Chlorophenol	7.17	128	661	0.26	ng	81
7) Phenol	6.81	94	812	0.07	ng	# 56
8) bis(2-Chloroethyl)ether	7.02	93	549m	0.26	ng	
9) 2-Methylphenol	8.06	107	494	0.21	ng	# 73
10) 3+4-Methylphenols	8.38	107	498	0.17	ng	# 71
13) Nitrobenzene	8.80	77	641	0.09	ng	# 82
14) 2-Nitrophenol	9.52	139	387	0.24	ng	# 1
15) 2,4-Dimethylphenol	9.58	122	350	0.05	ng	# 75
16) 2,4-Dichlorophenol	10.07	162	360	0.26	ng	# 78
17) Hexachlorobutadiene	10.75	225	351	0.07	ng	# 88
18) 4-Chloro-3-methylphenol	11.69	107	363	0.06	ng	# 87
21) 2,4,6-Trichlorophenol	12.70	196	154	0.16	ng	# 57
22) 2,4,5-Trichlorophenol	12.79	196	216	0.09	ng	# 67
25) 4-Nitrophenol	14.56	139	52m	0.25	ng	
28) Hexachlorobenzene	16.33	284	552	0.13	ng	# 68
31) Benzidine	19.30	184	474	0.18	ng	100
33) 3,3'-Dichlorobenzidine	21.14	252	476	0.24	ng	# 69

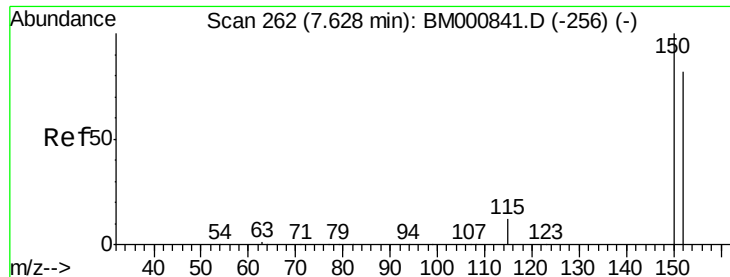
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 15 Sample Multiplier: 1

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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: BM000824.D

Acq: 03 Apr 2015 01:44

Instrument :

BNA_M

ClientSampled :

MDL-04-S

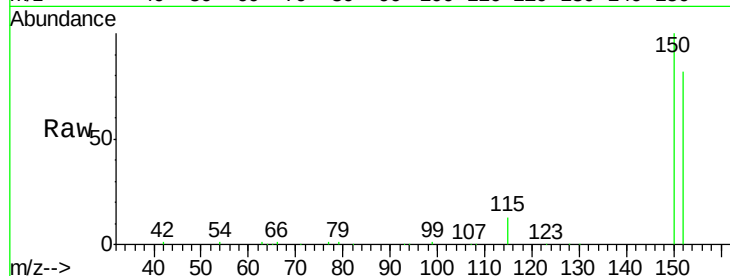
Tot Ion:152 Resp: 27539

Ion Ratio Lower Upper

152 100

150 122.1 99.8 149.6

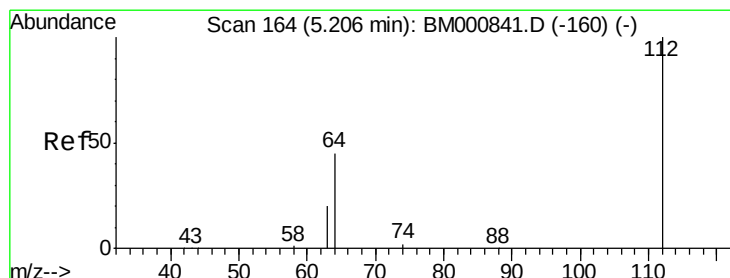
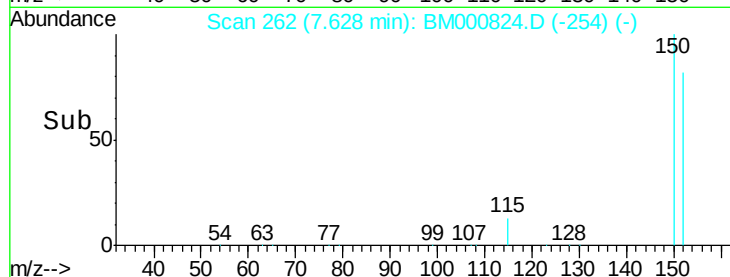
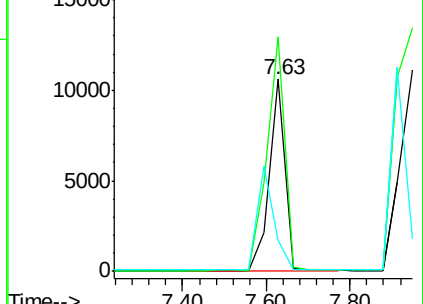
115 16.0 13.5 20.3



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: 11.42 ng

RT: 5.21 min Scan# 164

Delta R.T. 0.00 min

Lab File: BM000824.D

Acq: 03 Apr 2015 01:44

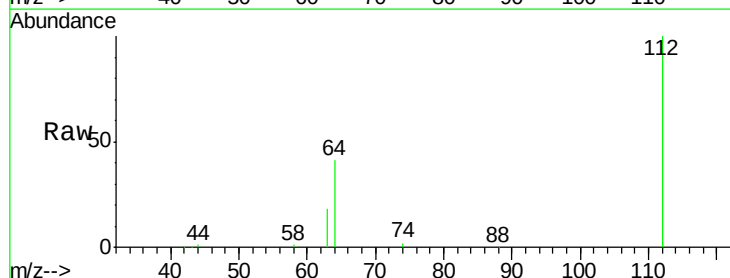
Tgt Ion:112 Resp: 86651

Ion Ratio Lower Upper

112 100

64 41.5 40.3 60.5

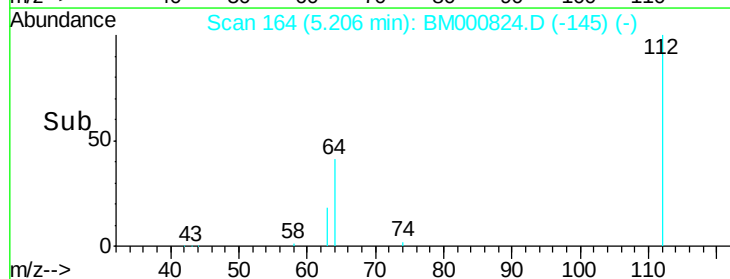
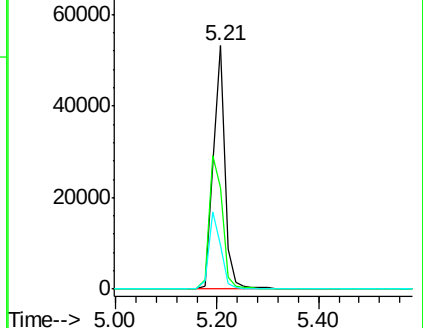
63 18.1 19.0 28.4#

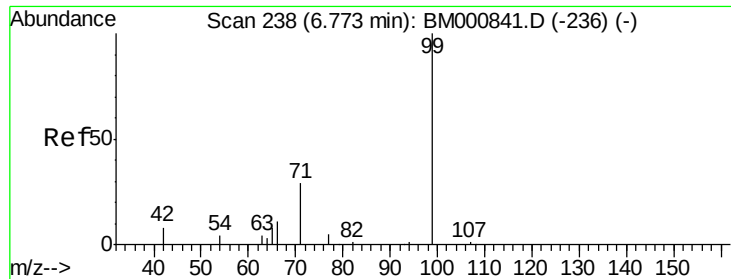


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#5

Phenol-d6

Concen: 10.20 ng

RT: 6.77 min Scan# 238

Delta R.T. 0.00 min

Lab File: BM000824.D

Acq: 03 Apr 2015 01:44

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

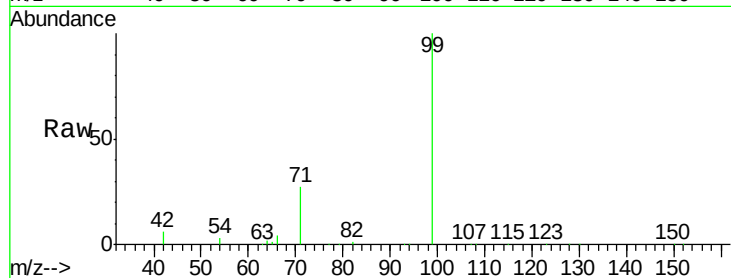
Tot Ion: 99 Resp: 148185

Ion Ratio Lower Upper

99 100

42 5.9 10.2 15.4#

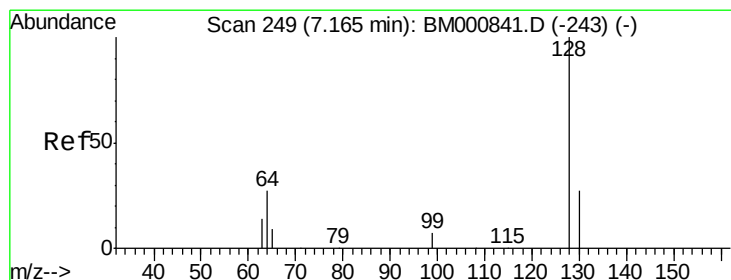
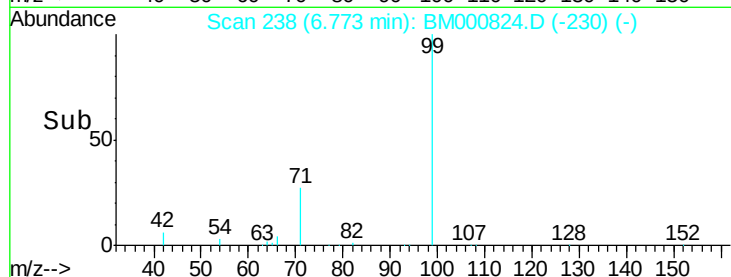
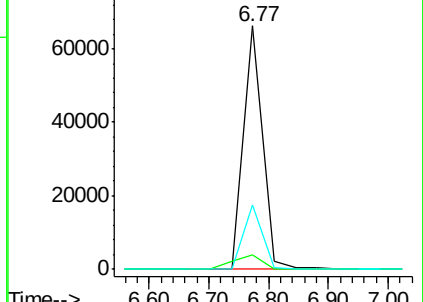
71 26.7 28.6 43.0#



Abundance Ion 99.00 (98.70 to 99.70): BM000824.D (-236) (-)

Ion 42.00 (41.70 to 42.70): BM000824.D (-236) (-)

Ion 71.00 (70.70 to 71.70): BM000824.D (-236) (-)



#6

2-Chlorophenol

Concen: 0.26 ng

RT: 7.17 min Scan# 249

Delta R.T. 0.00 min

Lab File: BM000824.D

Acq: 03 Apr 2015 01:44

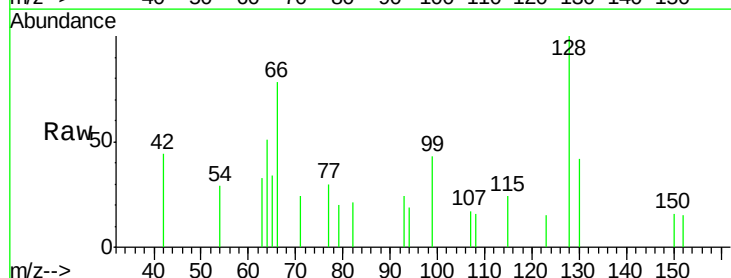
Tgt Ion: 128 Resp: 661

Ion Ratio Lower Upper

128 100

130 42.5 7.6 47.6

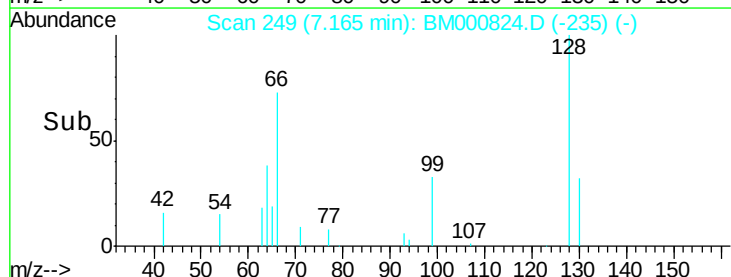
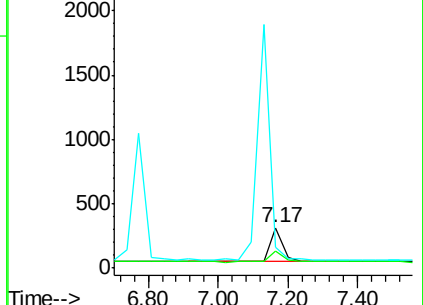
64 51.1 23.1 63.1

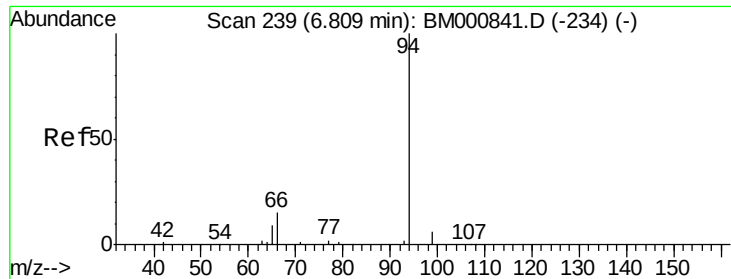


Abundance Ion 128.00 (127.70 to 128.70): BM000824.D (-243) (-)

Ion 130.00 (129.70 to 130.70): BM000824.D (-243) (-)

Ion 64.00 (63.70 to 64.70): BM000824.D (-243) (-)





#7

Phenol

Concen: 0.07 ng

RT: 6.81 min Scan# 239

Delta R.T. 0.00 min

Lab File: BM000824.D

Acq: 03 Apr 2015 01:44

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

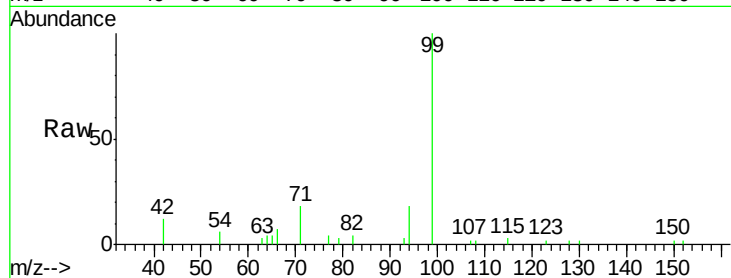
Tot Ion: 94 Resp: 812

Ion Ratio Lower Upper

94 100

65 25.3 0.0 32.0

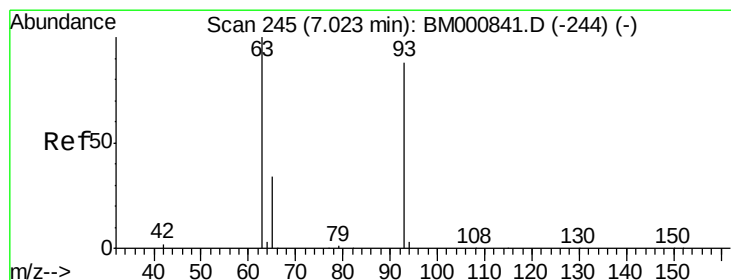
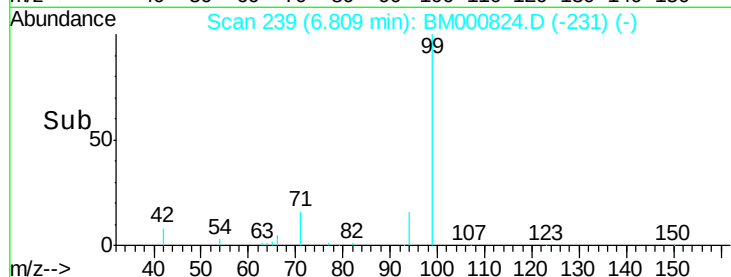
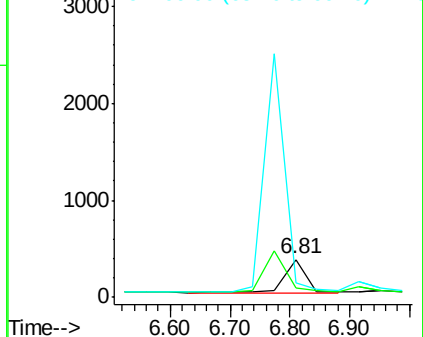
66 39.7 0.0 37.6#



Abundance Ion 94.00 (93.70 to 94.70): BM000824.D (-234) (-)

Ion 65.00 (64.70 to 65.70): BM000824.D (-234) (-)

Ion 66.00 (65.70 to 66.70): BM000824.D (-234) (-)



#8

bis(2-Chloroethyl)ether

Concen: 0.26 ng m

RT: 7.02 min Scan# 245

Delta R.T. 0.00 min

Lab File: BM000824.D

Acq: 03 Apr 2015 01:44

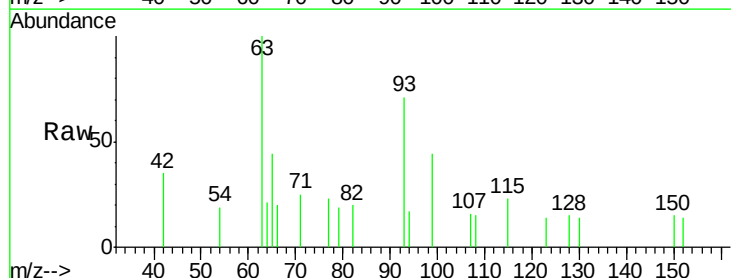
Tgt Ion: 93 Resp: 549

Ion Ratio Lower Upper

93 100

63 139.9 118.9 158.9

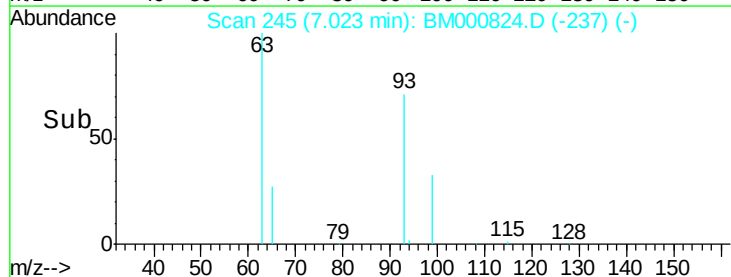
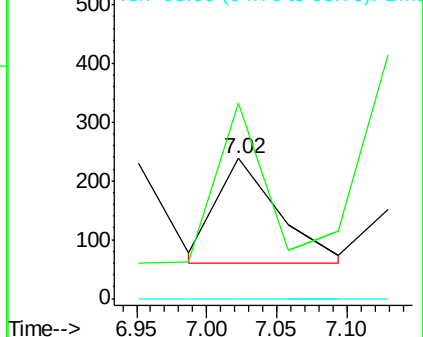
95 0.0 0.0 20.0

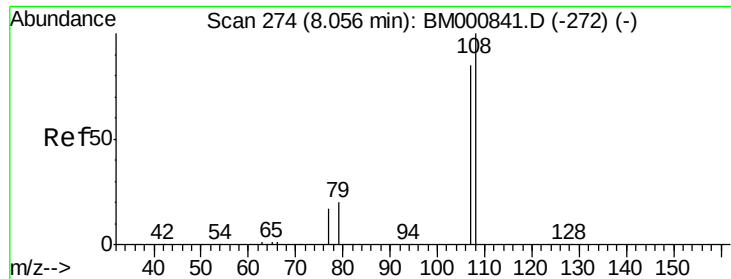


Abundance Ion 93.00 (92.70 to 93.70): BM000824.D (-244) (-)

Ion 63.00 (62.70 to 63.70): BM000824.D (-244) (-)

Ion 95.00 (94.70 to 95.70): BM000824.D (-244) (-)

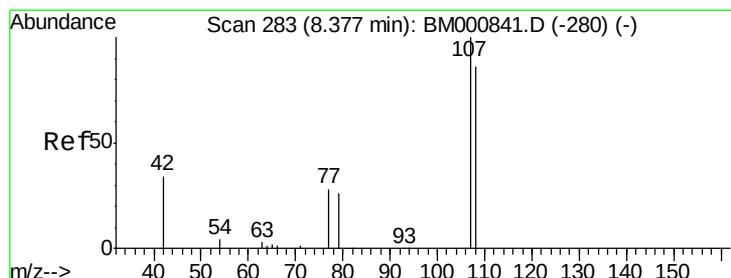
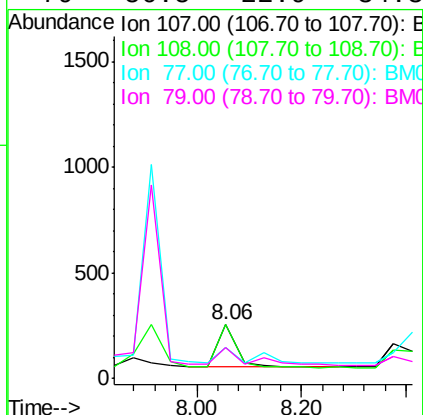
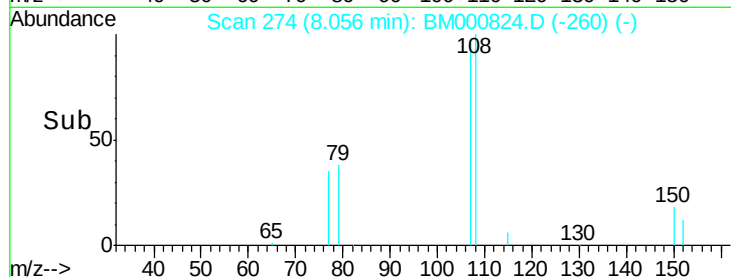
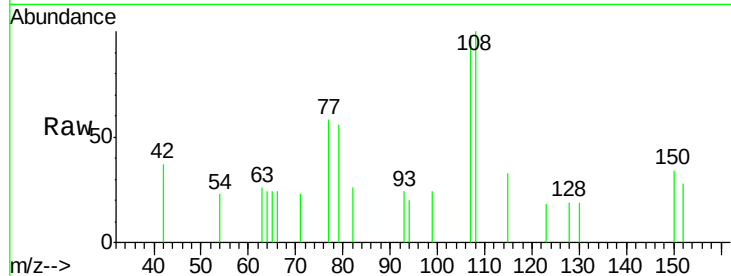




#9
2-Methylphenol
Concen: 0.21 ng
RT: 8.06 min Scan# 274
Delta R.T. 0.00 min
Lab File: BM000824.D
Acq: 03 Apr 2015 01:44

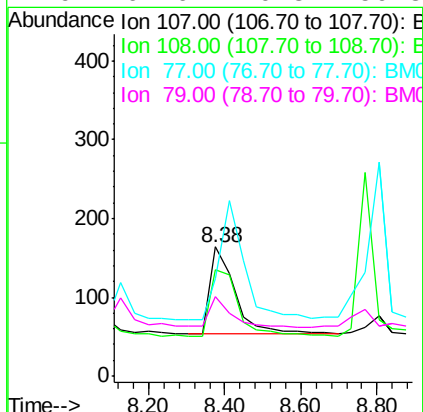
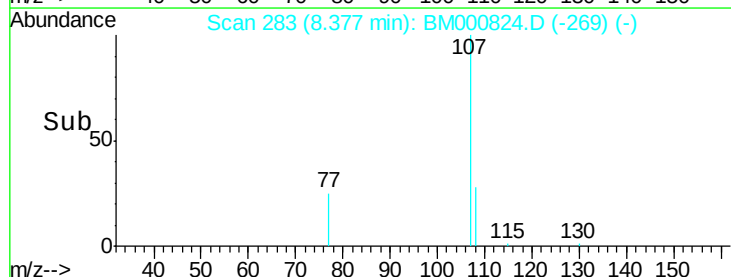
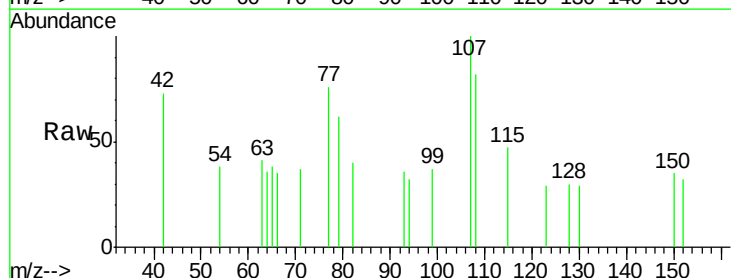
Instrument :
BNA_M
ClientSampleId :
MDL-04-S

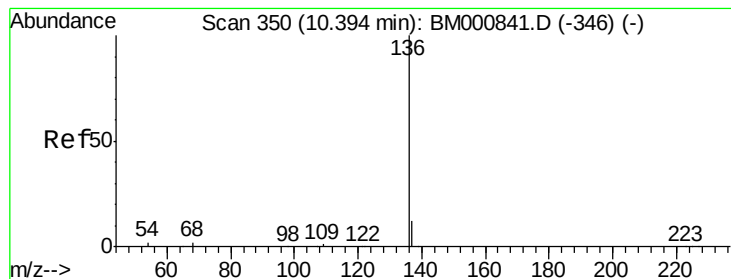
Tot Ion:	107	Resp:	494
Ion	Ratio	Lower	Upper
107	100		
108	101.6	92.0	138.0
77	58.5	20.6	31.0#
79	56.5	22.9	34.3#



#10
3+4-Methylphenols
Concen: 0.17 ng
RT: 8.38 min Scan# 283
Delta R.T. 0.00 min
Lab File: BM000824.D
Acq: 03 Apr 2015 01:44

Tgt Ion:	107	Resp:	498
Ion	Ratio	Lower	Upper
107	100		
108	82.3	62.6	102.6
77	75.6	12.8	52.8#
79	61.6	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: BM000824.D

Acq: 03 Apr 2015 01:44

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

Tot Ion:136 Resp: 131031

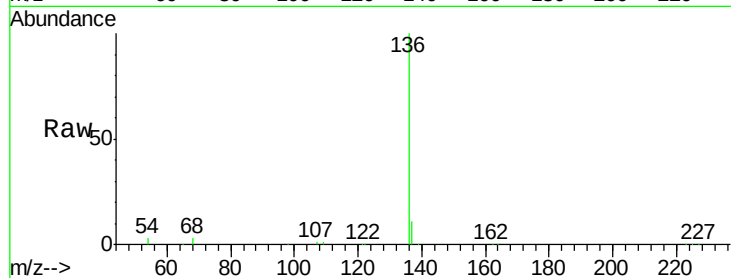
Ion Ratio Lower Upper

136 100

137 11.4 9.1 13.7

54 2.8 2.2 3.4

68 2.7 2.2 3.2

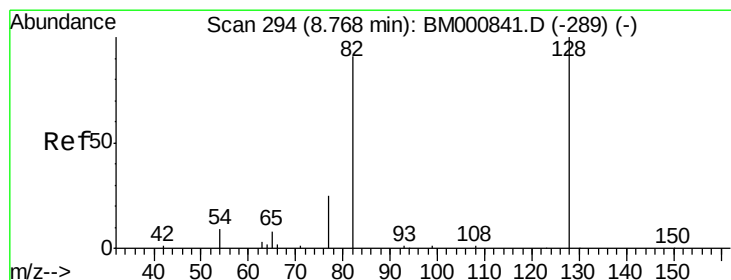
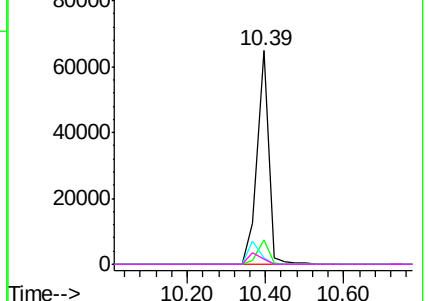
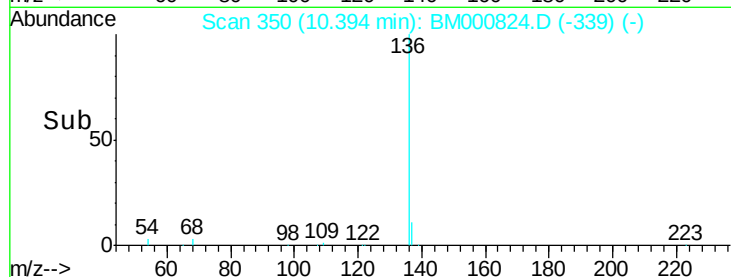


Abundance Ion 136.00 (135.70 to 136.70): E

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: 6.42 ng

RT: 8.77 min Scan# 294

Delta R.T. 0.00 min

Lab File: BM000824.D

Acq: 03 Apr 2015 01:44

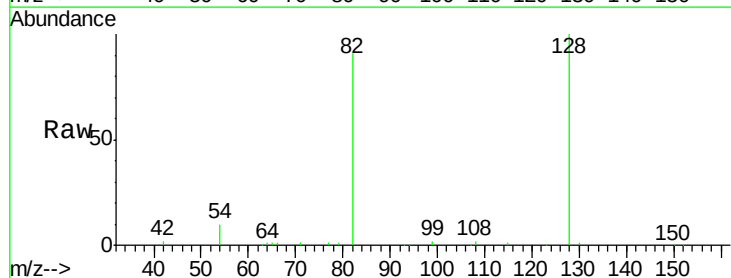
Tgt Ion: 82 Resp: 39263

Ion Ratio Lower Upper

82 100

128 110.4 72.5 108.7#

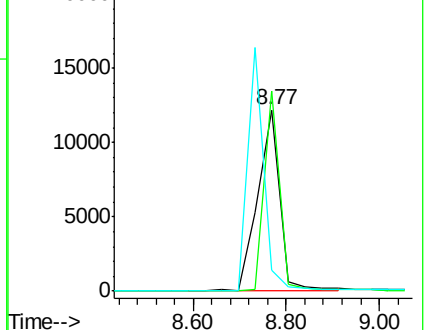
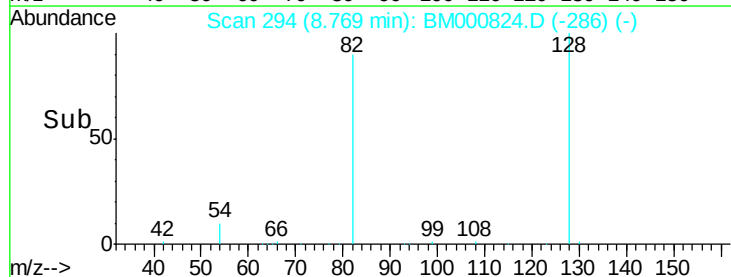
54 11.4 11.8 17.8#

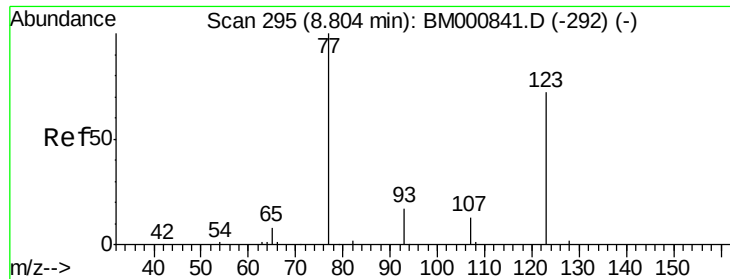


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM

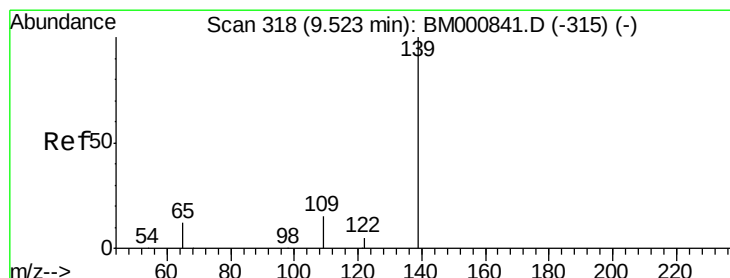
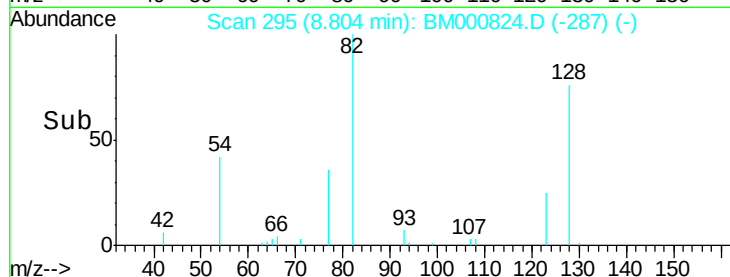
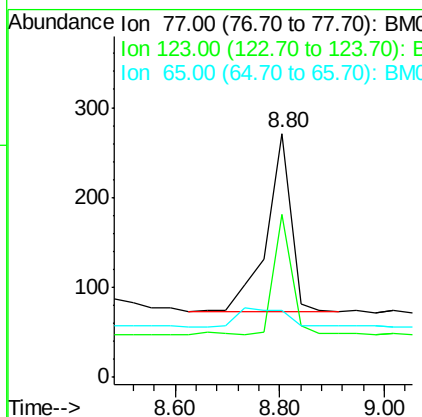
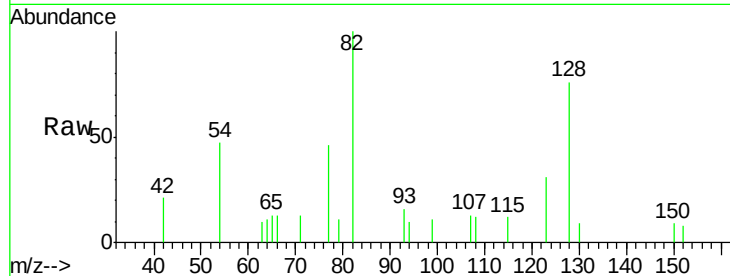




#13
 Nitrobenzene
 Concen: 0.09 ng
 RT: 8.80 min Scan# 295
 Delta R.T. 0.00 min
 Lab File: BM000824.D
 Acq: 03 Apr 2015 01:44

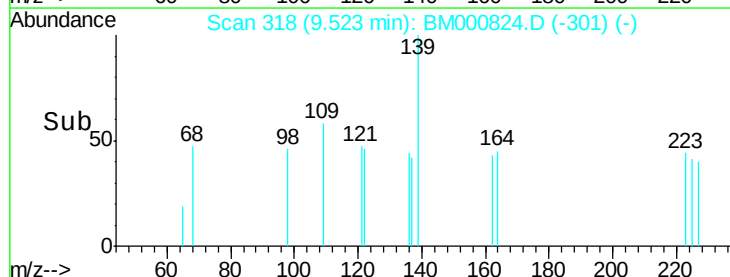
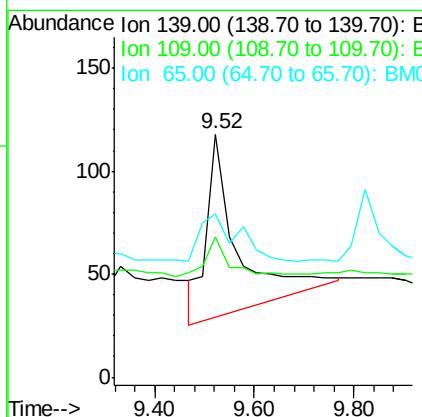
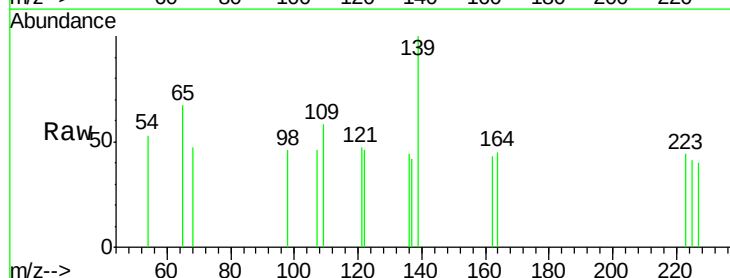
Instrument :
 BNA_M
 ClientSampleId :
 MDL-04-S

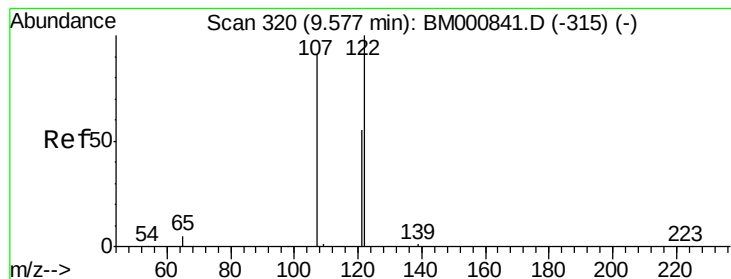
Tot Ion: 77 Resp: 641
 Ion Ratio Lower Upper
 77 100
 123 66.8 45.8 68.6
 65 27.7 8.2 12.4#



#14
 2-Nitrophenol
 Concen: 0.24 ng
 RT: 9.52 min Scan# 318
 Delta R.T. 0.00 min
 Lab File: BM000824.D
 Acq: 03 Apr 2015 01:44

Tgt Ion: 139 Resp: 387
 Ion Ratio Lower Upper
 139 100
 109 57.6 15.0 22.6#
 65 66.9 14.2 21.4#





#15

2,4-Dimethylphenol

Concen: 0.05 ng

RT: 9.58 min Scan# 320

Delta R.T. 0.00 min

Lab File: BM000824.D

Acq: 03 Apr 2015 01:44

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

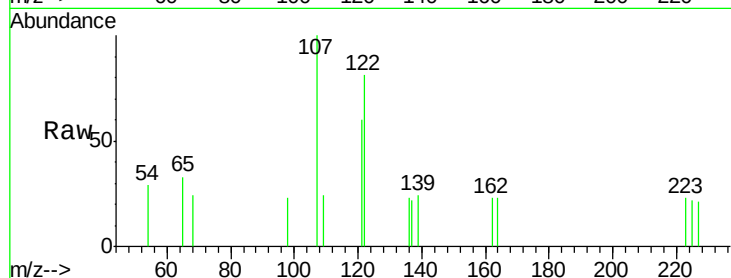
Tot Ion:122 Resp: 350

Ion Ratio Lower Upper

122 100

107 123.2 78.2 117.4#

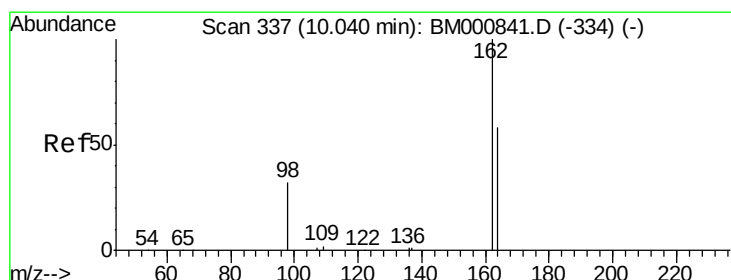
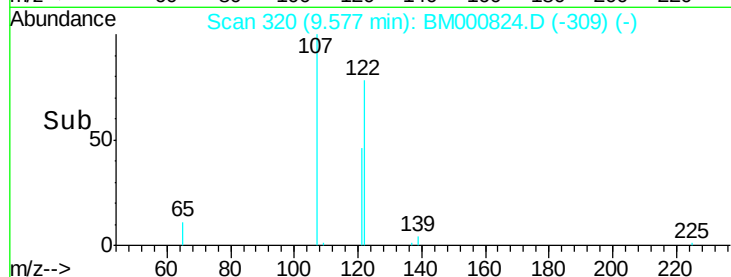
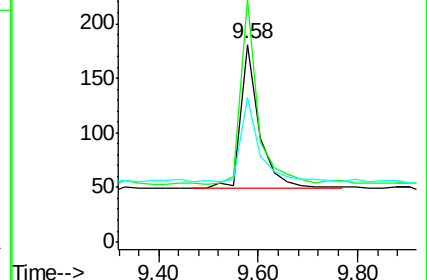
121 73.5 45.4 68.0#



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: 0.26 ng

RT: 10.07 min Scan# 338

Delta R.T. 0.03 min

Lab File: BM000824.D

Acq: 03 Apr 2015 01:44

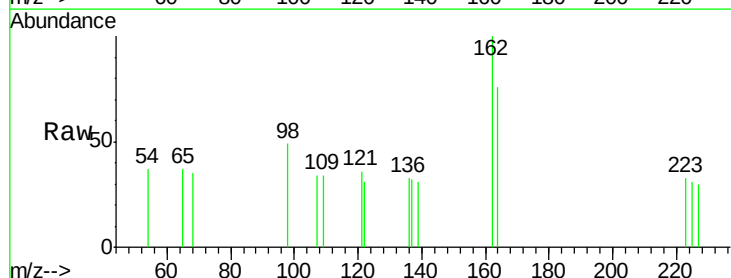
Tgt Ion:162 Resp: 360

Ion Ratio Lower Upper

162 100

164 76.3 37.1 77.1

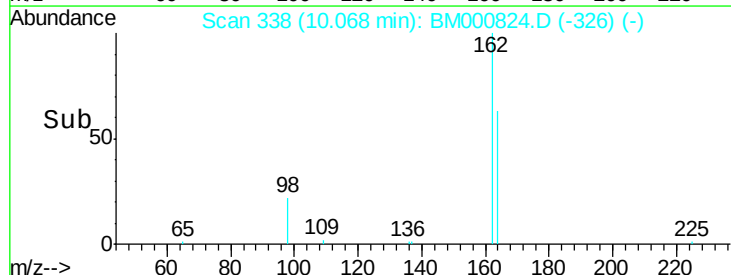
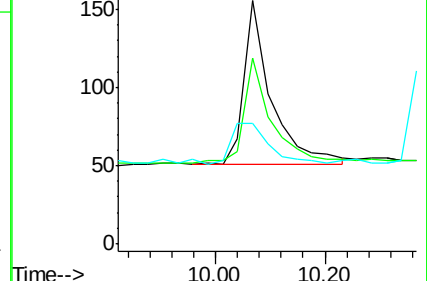
98 49.4 19.5 59.5

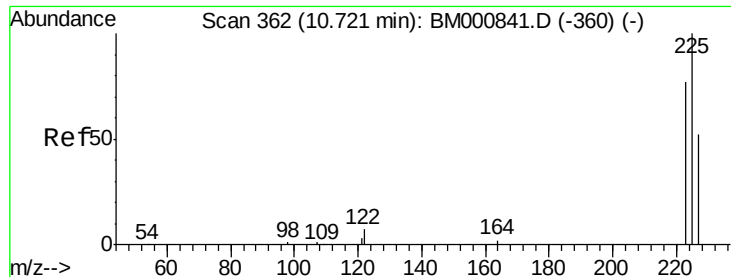


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BM





#17

Hexachlorobutadiene

Concen: 0.07 ng

RT: 10.75 min Scan# 363

Delta R.T. 0.00 min

Lab File: BM000824.D

Acq: 03 Apr 2015 01:44

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

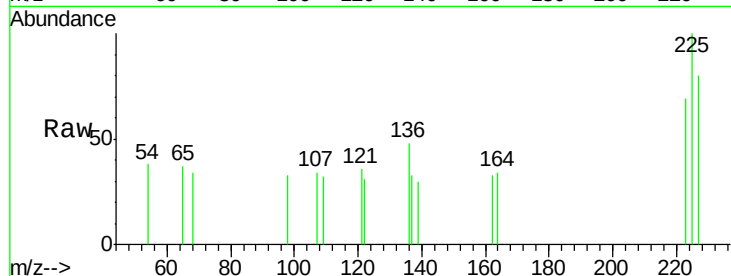
Tot Ion:225 Resp: 351

Ion Ratio Lower Upper

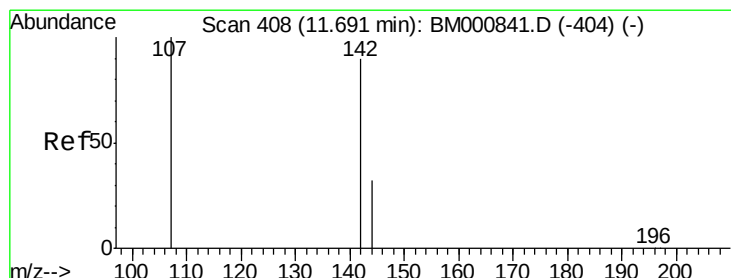
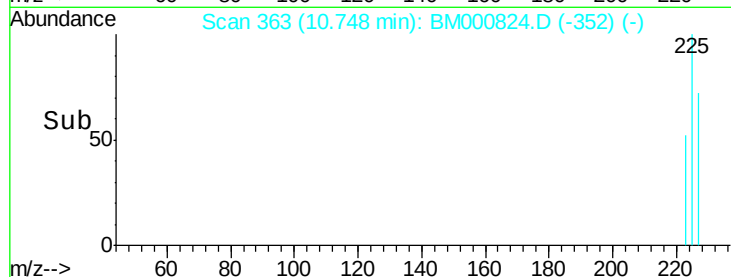
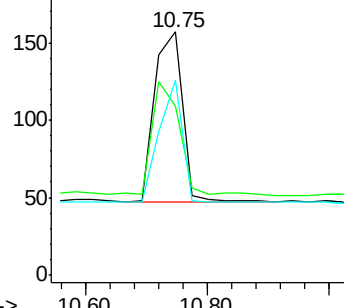
225 100

223 69.4 40.8 61.2#

227 80.3 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: 0.06 ng

RT: 11.69 min Scan# 408

Delta R.T. 0.00 min

Lab File: BM000824.D

Acq: 03 Apr 2015 01:44

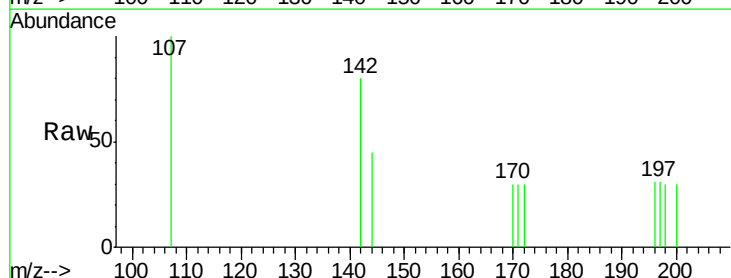
Tgt Ion:107 Resp: 363

Ion Ratio Lower Upper

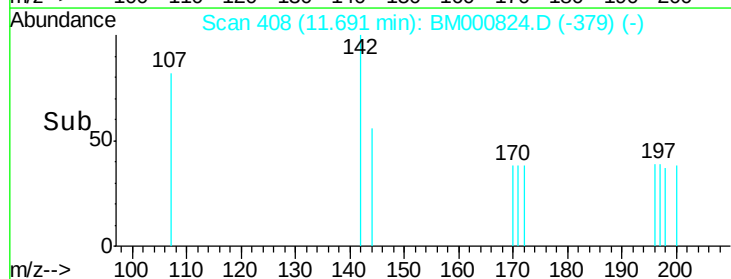
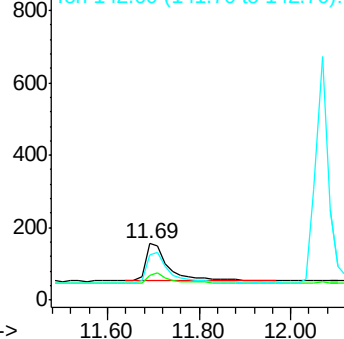
107 100

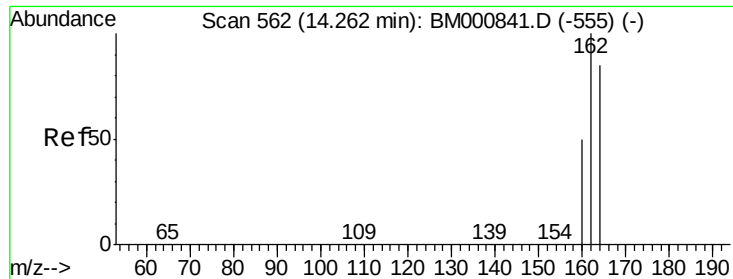
144 45.2 25.8 38.8#

142 80.0 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

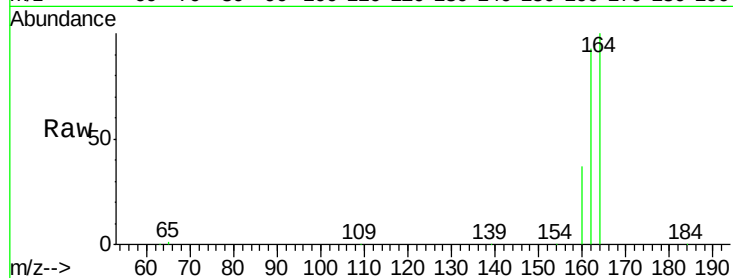




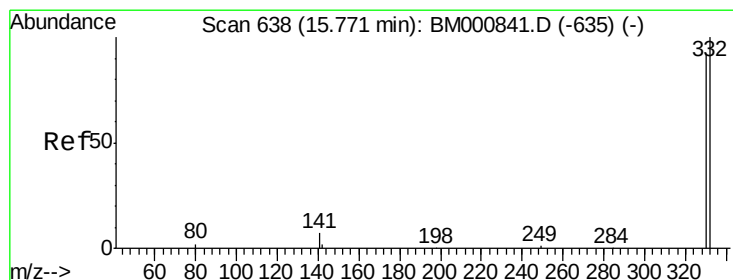
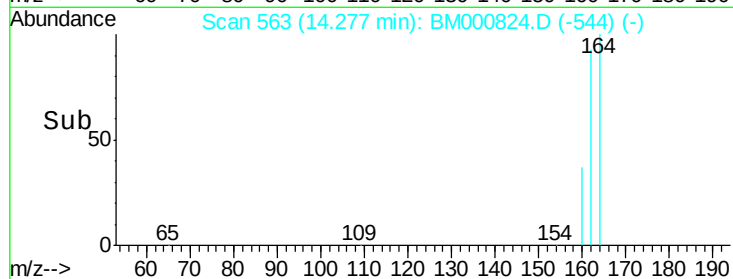
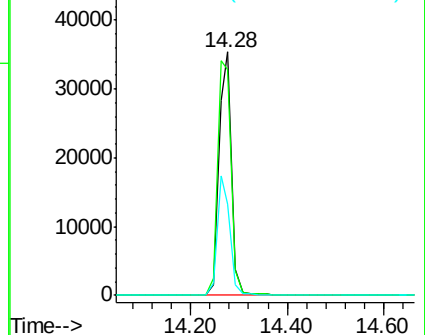
#19
 Acenaphthene-d10
 Concen: 5.00 ng
 RT: 14.28 min Scan# 563
 Delta R.T. 0.00 min
 Lab File: BM000824.D
 Acq: 03 Apr 2015 01:44

Instrument :
 BNA_M
 ClientSampleId :
 MDL-04-S

Tot Ion:164 Resp: 64962
 Ion Ratio Lower Upper
 164 100
 162 92.5 74.2 111.2
 160 37.3 30.4 45.6

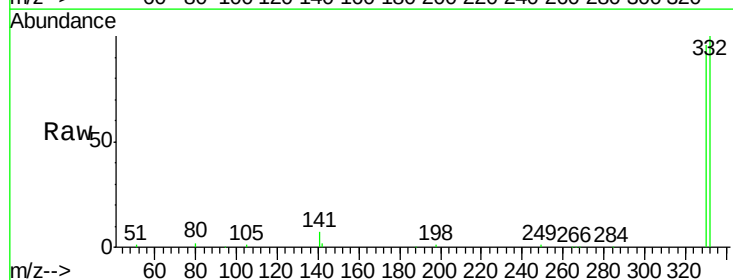


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

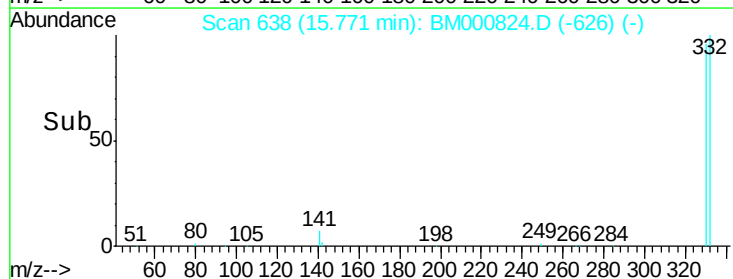
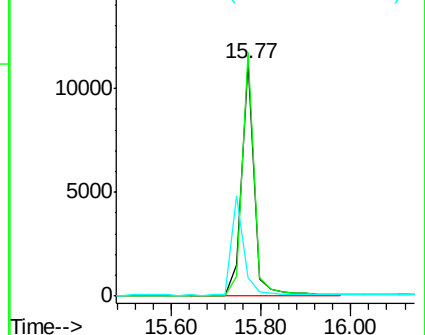


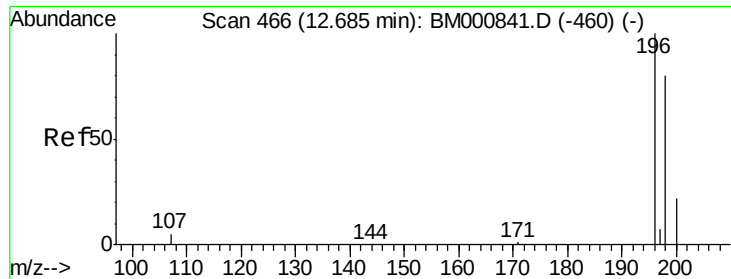
#20
 2,4,6-Tribromophenol
 Concen: 7.96 ng
 RT: 15.77 min Scan# 638
 Delta R.T. 0.00 min
 Lab File: BM000824.D
 Acq: 03 Apr 2015 01:44

Tgt Ion:330 Resp: 21831
 Ion Ratio Lower Upper
 330 100
 332 100.3 78.7 118.1
 141 0.0 0.0 0.0



Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E





#21

2,4,6-Trichlorophenol

Concen: 0.16 ng

RT: 12.70 min Scan# 467

Delta R.T. 0.02 min

Lab File: BM000824.D

Acq: 03 Apr 2015 01:44

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

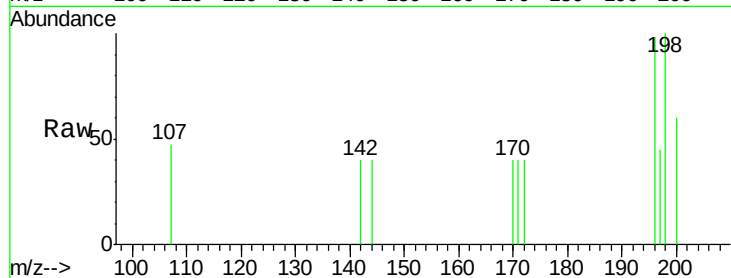
Tot Ion:196 Resp: 154

Ion Ratio Lower Upper

196 100

198 101.7 59.5 89.3#

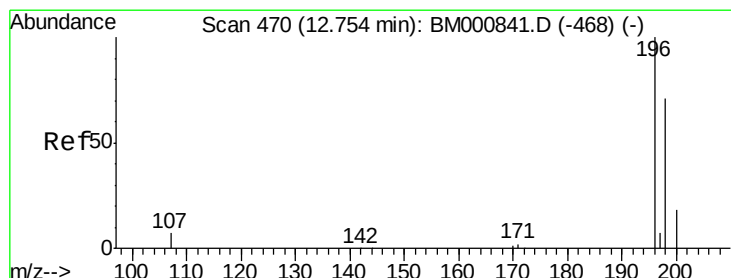
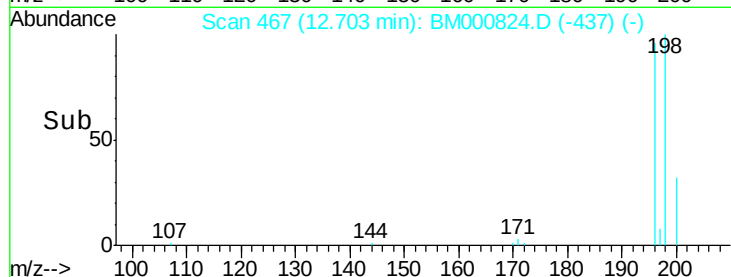
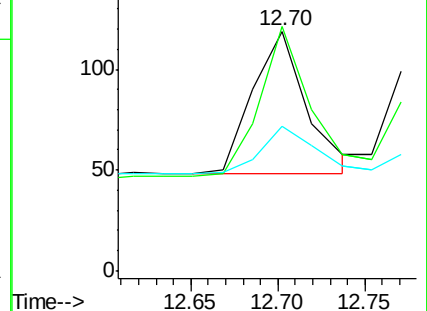
200 60.5 17.4 26.0#



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: 0.09 ng

RT: 12.79 min Scan# 472

Delta R.T. 0.04 min

Lab File: BM000824.D

Acq: 03 Apr 2015 01:44

Tgt Ion:196 Resp: 216

Ion Ratio Lower Upper

196 100

198 100.0 57.9 86.9#

97 0.0 0.0 0.0

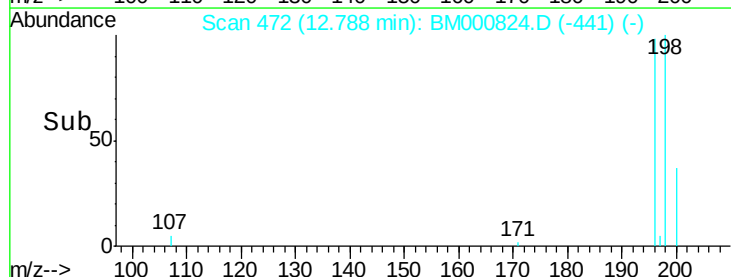
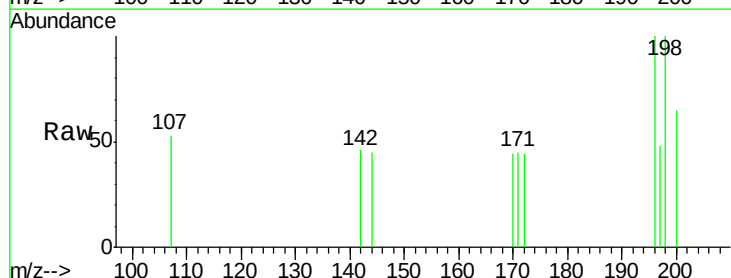
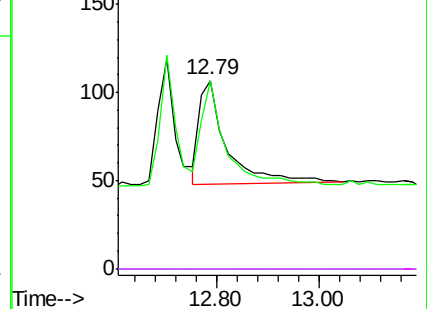
132 0.0 0.0 0.0

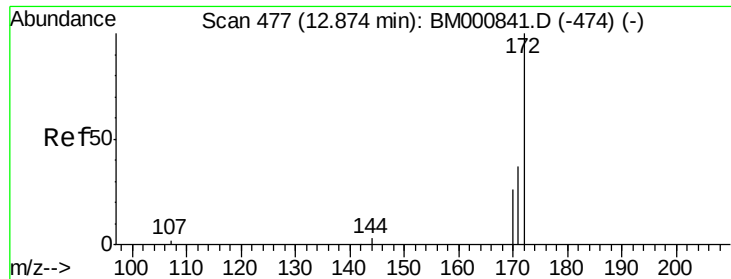
Abundance Ion 196.00 (195.70 to 196.70): E

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

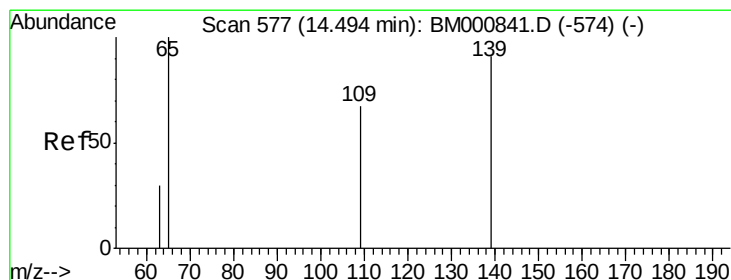
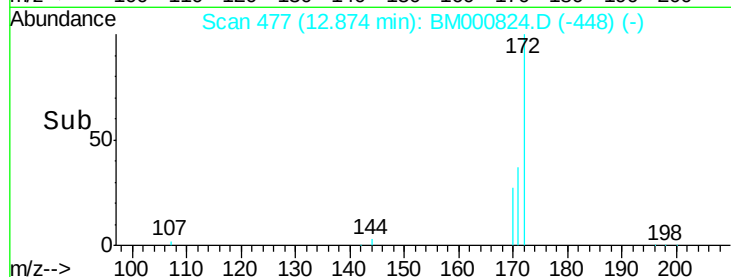
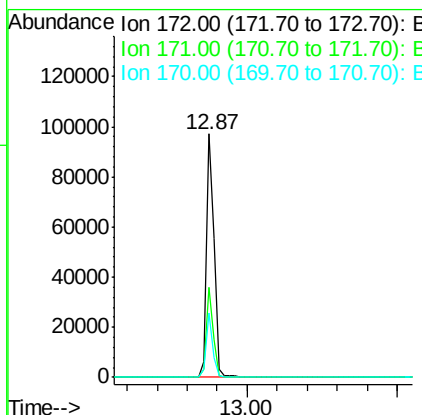
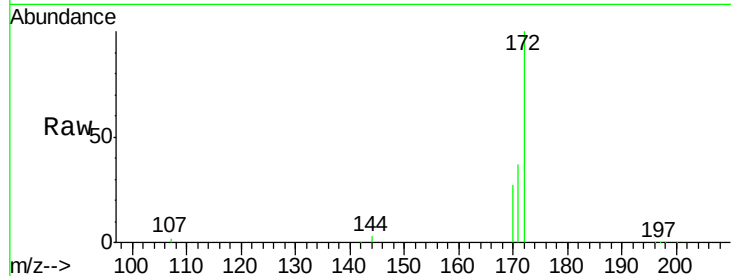




#23
2-Fluorobiphenyl
Concen: 8.50 ng
RT: 12.87 min Scan# 477
Delta R.T. -0.00 min
Lab File: BM000824.D
Acq: 03 Apr 2015 01:44

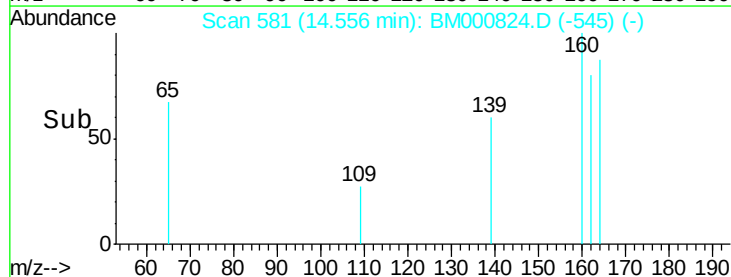
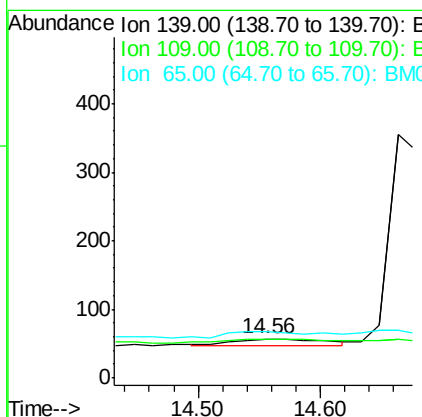
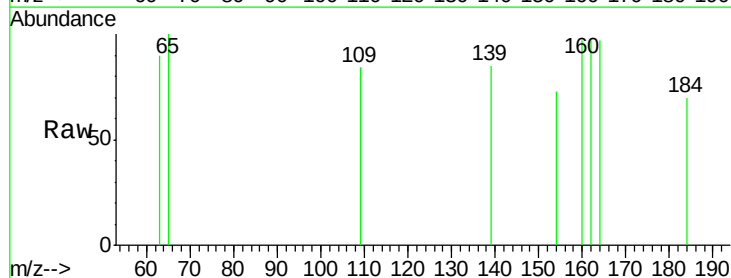
Instrument :
BNA_M
ClientSampleId :
MDL-04-S

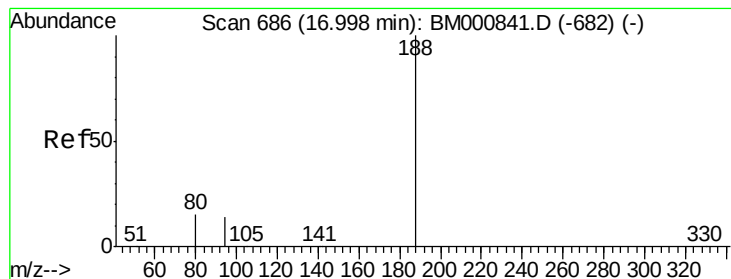
Tot Ion:172 Resp: 170115
Ion Ratio Lower Upper
172 100
171 37.2 30.6 46.0
170 26.5 22.2 33.2



#25
4-Nitrophenol
Concen: 0.25 ng m
RT: 14.56 min Scan# 581
Delta R.T. 0.06 min
Lab File: BM000824.D
Acq: 03 Apr 2015 01:44

Tgt Ion:139 Resp: 52
Ion Ratio Lower Upper
139 100
109 98.2 58.2 98.2#
65 117.5 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: BM000824.D

Acq: 03 Apr 2015 01:44

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

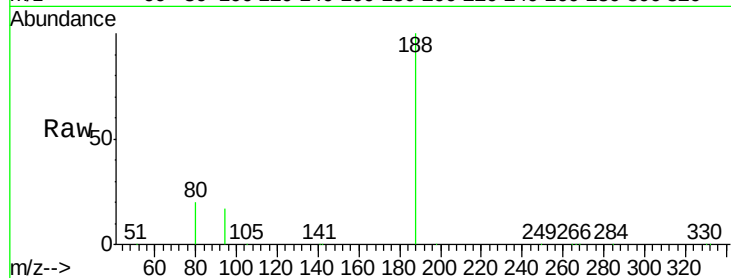
Tot Ion:188 Resp: 134684

Ion Ratio Lower Upper

188 100

94 17.2 13.0 19.6

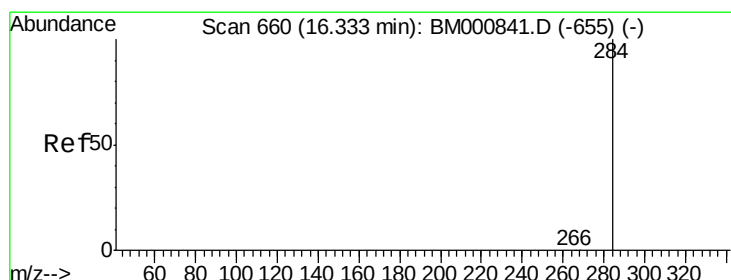
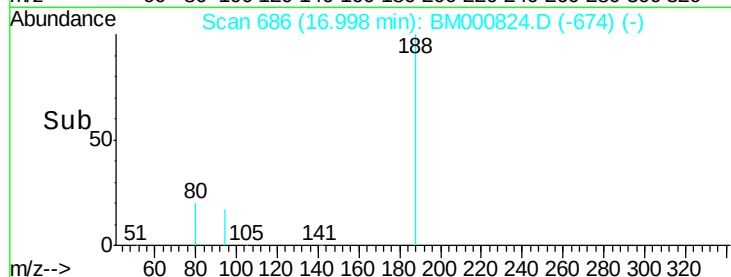
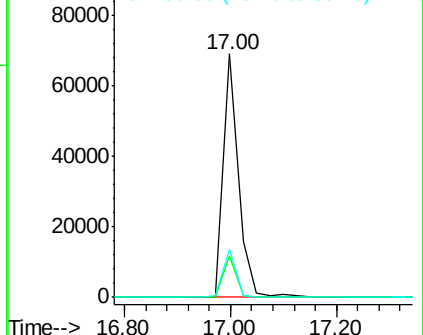
80 19.6 14.7 22.1



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: 0.13 ng

RT: 16.33 min Scan# 660

Delta R.T. 0.00 min

Lab File: BM000824.D

Acq: 03 Apr 2015 01:44

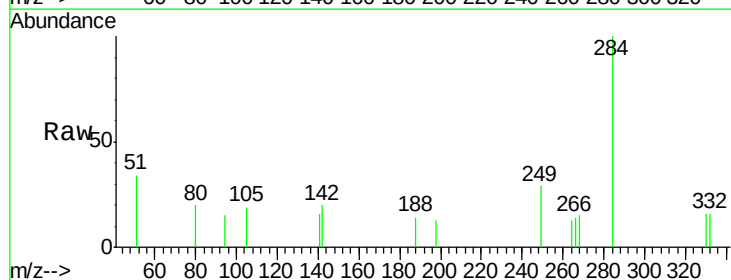
Tgt Ion:284 Resp: 552

Ion Ratio Lower Upper

284 100

142 20.2 6.5 9.7#

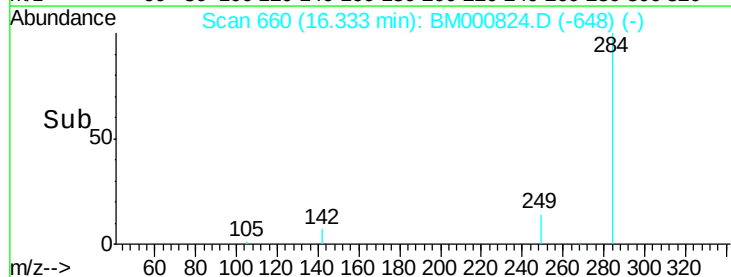
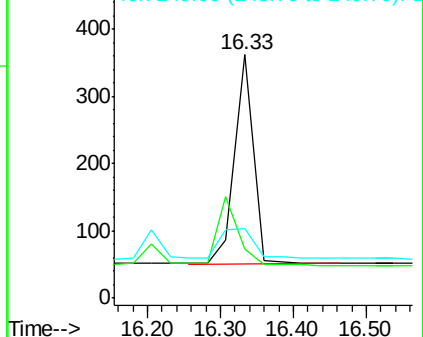
249 28.7 12.6 18.8#

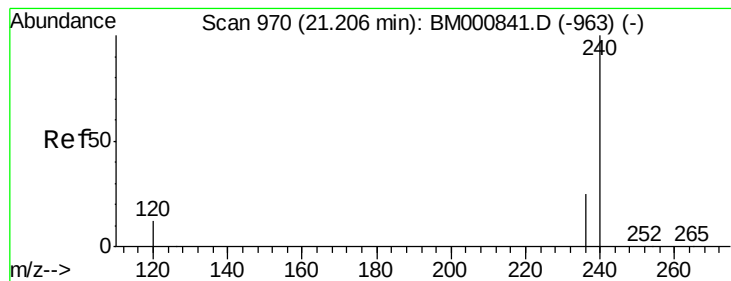


Abundance Ion 283.80 (283.50 to 284.50): E

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: BM000824.D

Acq: 03 Apr 2015 01:44

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

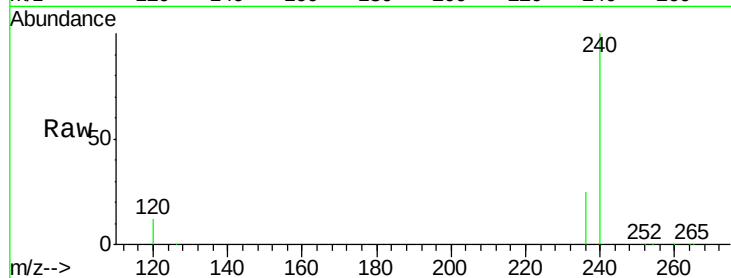
Tot Ion:240 Resp: 125135

Ion Ratio Lower Upper

240 100

120 11.7 11.3 16.9

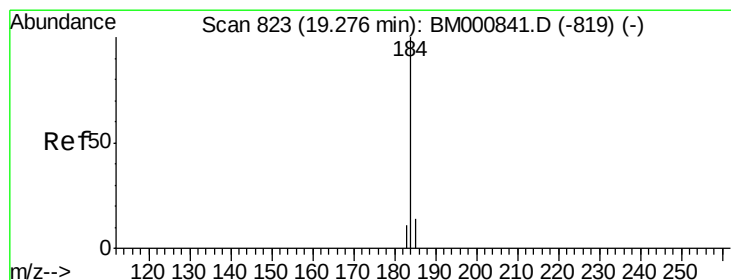
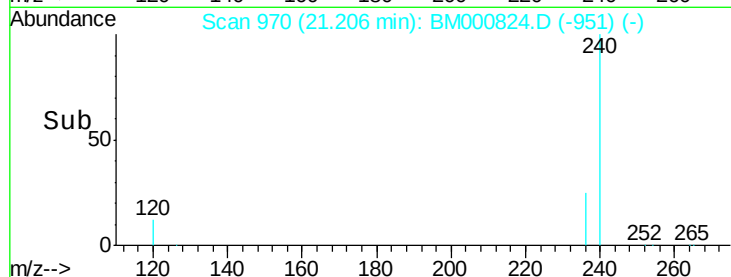
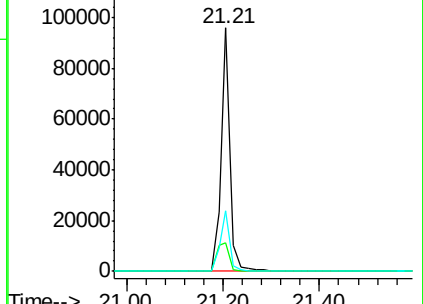
236 24.9 21.1 31.7



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: 0.18 ng

RT: 19.30 min Scan# 825

Delta R.T. 0.00 min

Lab File: BM000824.D

Acq: 03 Apr 2015 01:44

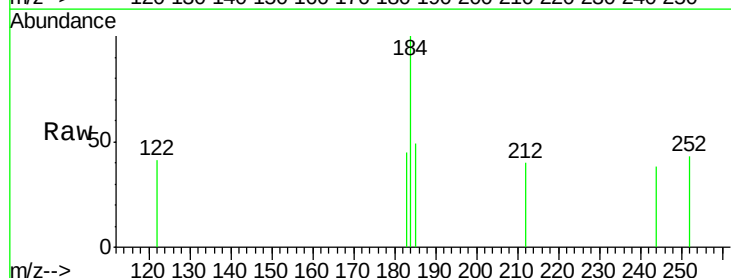
Tgt Ion:184 Resp: 474

Ion Ratio Lower Upper

184 100

185 49.2 39.1 58.7

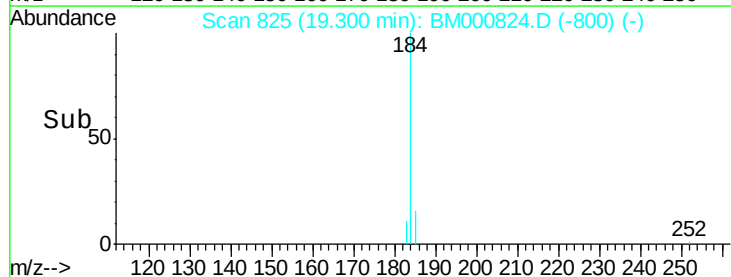
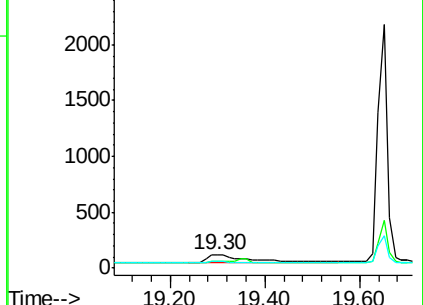
183 45.2 36.1 54.1

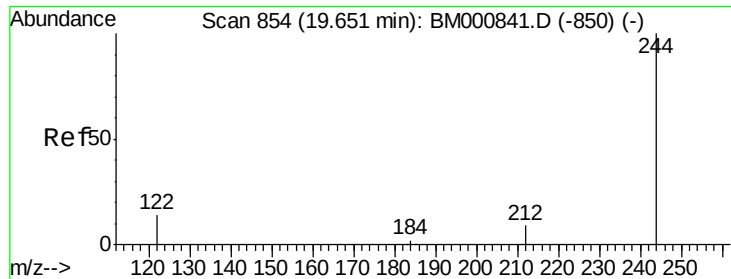


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#32

Terphenyl-d14

Concen: 9.14 ng

RT: 19.65 min Scan# 854

Delta R.T. 0.00 min

Lab File: BM000824.D

Acq: 03 Apr 2015 01:44

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

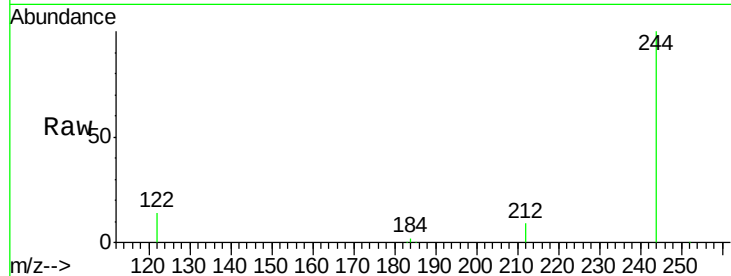
Tot Ion:244 Resp: 137715

Ion Ratio Lower Upper

244 100

212 9.2 8.0 12.0

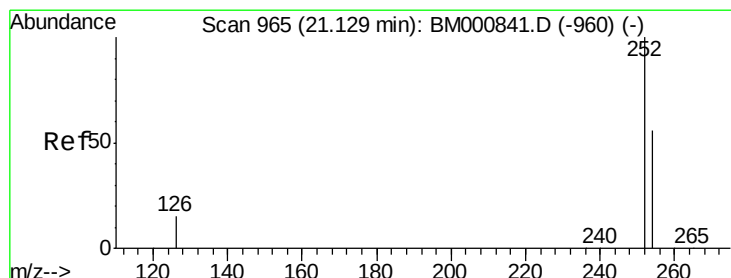
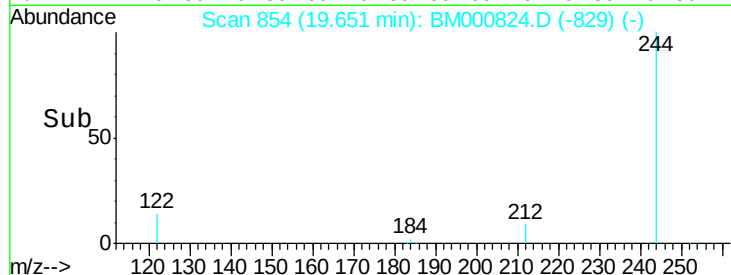
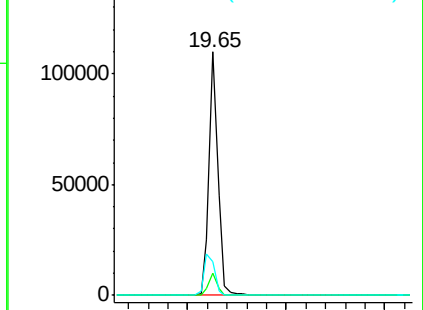
122 14.1 14.7 22.1#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#33

3,3'-Dichlorobenzidine

Concen: 0.24 ng

RT: 21.14 min Scan# 966

Delta R.T. 0.02 min

Lab File: BM000824.D

Acq: 03 Apr 2015 01:44

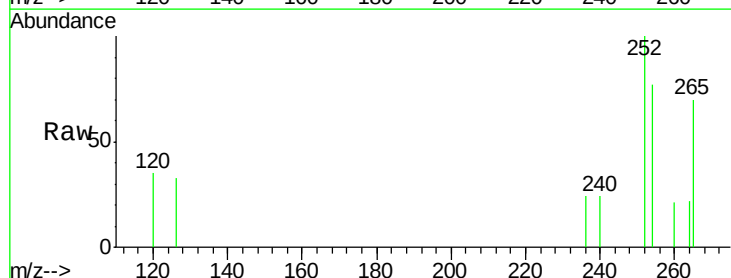
Tgt Ion:252 Resp: 476

Ion Ratio Lower Upper

252 100

254 77.2 44.5 66.7#

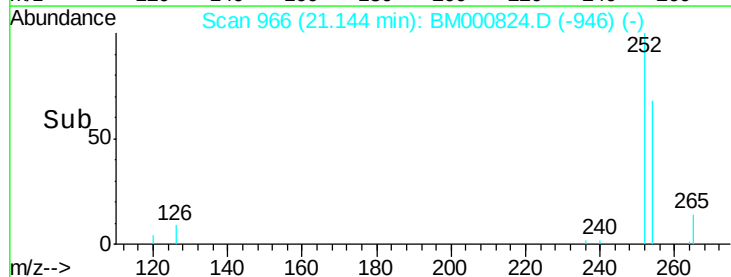
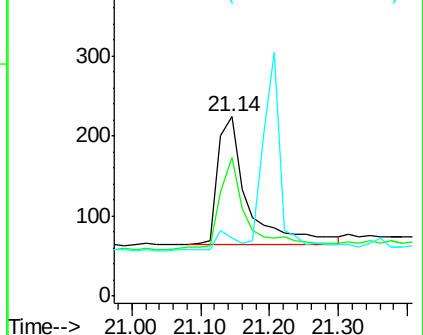
126 32.6 13.6 20.4#

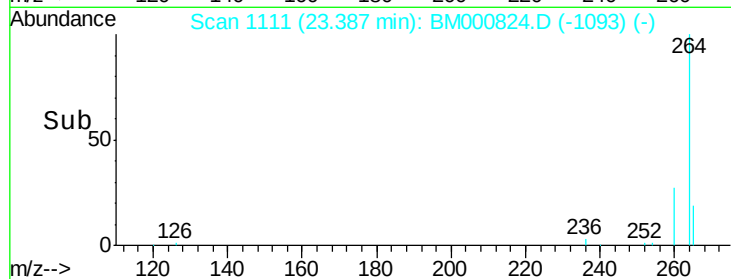
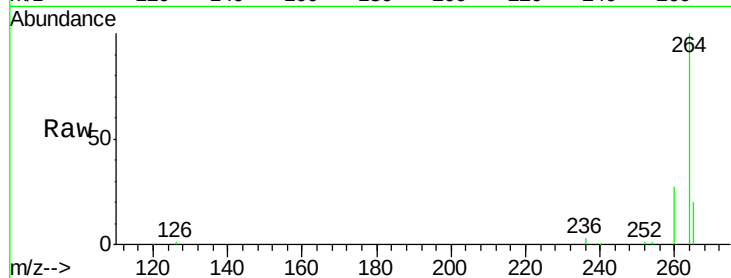
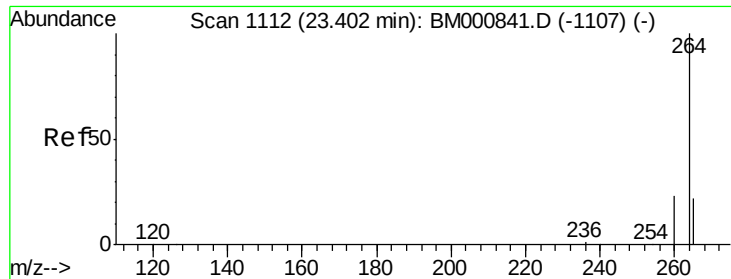


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#34

Pervlene-d12

Concen: 5.00 ng

RT: 23.39 min Scan# 1111

Delta R.T. -0.02 min

Lab File: BM000824.D

Acq: 03 Apr 2015 01:44

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

Tot Ion: 264 Resp: 115407

Ion Ratio Lower Upper

264 100

260 27.3 19.1 28.7

265 19.6 17.5 26.3

