

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM022015\  
 Data File : BM000564.D  
 Acq On : 20 Feb 2015 17:19  
 Operator : TP/IZ  
 Sample : MDL-05-W  
 Misc : MDL-WATER-3PPM-SOM0  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-05-W

Quant Time: Feb 21 02:50:31 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM01.2-EPA-MA-BM022015.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Feb 21 00:39:15 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.67  | 152  | 106272   | 20.00 | ng/ul | 0.00     |
| 16) Naphthalene-d8        | 10.46 | 136  | 467241   | 20.00 | ng/ul | 0.00     |
| 33) Acenaphthene-d10      | 14.32 | 164  | 316887   | 20.00 | ng/ul | 0.00     |
| 59) Phenanthrene-d10      | 17.07 | 188  | 746541   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.26 | 240  | 669221   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.47 | 264  | 468560   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) Phenol-d5                   | 6.85  | 99  | 244595  | 31.62 | ng/ul | 0.00 |
| 5) Bis-(2-Chloroethyl)ether-d  | 7.01  | 67  | 159895  | 34.97 | ng/ul | 0.00 |
| 7) 2-Chlorophenol-d4           | 7.20  | 132 | 210897  | 32.04 | ng/ul | 0.00 |
| 11) 4-Methylphenol-d8          | 8.38  | 113 | 214054  | 32.64 | ng/ul | 0.00 |
| 17) Nitrobenzene-d5            | 8.83  | 128 | 107175  | 34.18 | ng/ul | 0.00 |
| 20) 2-Nitrophenol-d4           | 9.55  | 143 | 125783  | 34.65 | ng/ul | 0.00 |
| 24) 2,4-Dichlorophenol-d3      | 10.09 | 165 | 235283  | 30.60 | ng/ul | 0.00 |
| 27) 4-Chloroaniline-d4         | 10.60 | 131 | 334296  | 48.74 | ng/ul | 0.00 |
| 41) Dimethylphthalate-d6       | 13.74 | 166 | 859717  | 37.48 | ng/ul | 0.00 |
| 44) Acenaphthylene-d8          | 14.02 | 160 | 1045026 | 34.01 | ng/ul | 0.00 |
| 49) 4-Nitrophenol-d4           | 14.53 | 143 | 122477  | 33.39 | ng/ul | 0.00 |
| 55) Fluorene-d10               | 15.32 | 176 | 787360  | 35.13 | ng/ul | 0.00 |
| 60) 4,6-Dinitro-2-methylphenol | 15.44 | 200 | 110357  | 25.44 | ng/ul | 0.00 |
| 68) Anthracene-d10             | 17.17 | 188 | 1238548 | 35.08 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.47 | 212 | 1316127 | 33.79 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.34 | 264 | 775838  | 35.32 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |       |      | Qvalue |     |
|--------------------------------|-------|-----|-------|------|--------|-----|
| 2) Benzaldehyde                | 6.85  | 77  | 234   | 0.05 | ng/ul# | 2   |
| 6) Bis(2-Chloroethyl)ether     | 7.10  | 93  | 739   | 0.12 | ng/ul# | 50  |
| 13) N-Nitroso-di-n-propylamine | 8.38  | 70  | 5856  | 1.16 | ng/ul# | 1   |
| 18) Nitrobenzene               | 8.83  | 77  | 730   | 0.09 | ng/ul# | 40  |
| 19) Isophorone                 | 9.55  | 82  | 13961 | 1.00 | ng/ul# | 69  |
| 42) Dimethylphthalate          | 13.74 | 163 | 510   | 0.02 | ng/ul# | 1   |
| 43) 2,6-Dinitrotoluene         | 13.74 | 165 | 6279  | 1.41 | ng/ul# | 30  |
| 50) 4-Nitrophenol              | 14.54 | 109 | 478   | 0.12 | ng/ul# | 1   |
| 56) Fluorene                   | 15.32 | 166 | 1557  | 0.06 | ng/ul# | 7   |
| 58) 4-Nitroaniline             | 15.44 | 138 | 228   | 0.05 | ng/ul# | 1   |
| 61) 4,6-Dinitro-2-methylphenol | 15.45 | 198 | 134   | 0.03 | ng/ul# | 1   |
| 62) N-Nitrosodiphenylamine     | 15.44 | 169 | 754   | 0.03 | ng/ul# | 10  |
| 69) Anthracene                 | 17.17 | 178 | 239   | 0.01 | ng/ul# | 1   |
| 70) 1,2,3,4-Tetrachlorobenzene | 13.12 | 216 | 20859 | 1.89 | ng/ul  | 95  |
| 71) Pentachlorobenzene         | 14.64 | 250 | 42625 | 4.02 | ng/ul  | 96  |
| 77) Pyrene                     | 19.47 | 202 | 1302  | 0.03 | ng/ul# | 1   |
| 78) Butylbenzylphthalate       | 20.41 | 149 | 114   | 0.01 | ng/ul# | 25  |
| 80) Benzo(a)anthracene         | 21.26 | 228 | 1888  | 0.05 | ng/ul# | 69  |
| 81) Bis(2-ethylhexyl)phthalate | 21.17 | 149 | 465   | 0.02 | ng/ul# | 50  |
| 82) Chrysene                   | 21.26 | 228 | 1888  | 0.05 | ng/ul# | 66  |
| 84) Di-n-octyl phthalate       | 22.05 | 149 | 213   | 0.01 | ng/ul  | 100 |
| 85) Benzo(b)fluoranthene       | 22.79 | 252 | 225   | 0.01 | ng/ul# | 1   |
| 86) Benzo(k)fluoranthene       | 22.97 | 252 | 426   | 0.02 | ng/ul# | 1   |
| 88) Benzo(a)pyrene             | 23.38 | 252 | 158   | 0.01 | ng/ul# | 1   |

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Sample : MDL-05-W  
Misc : MDL-WATER-3PPM-SOM0  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-05-W

Quant Time: Feb 21 02:50:31 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM01.2-EPA-MA-BM022015.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 21 00:39:15 2015  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

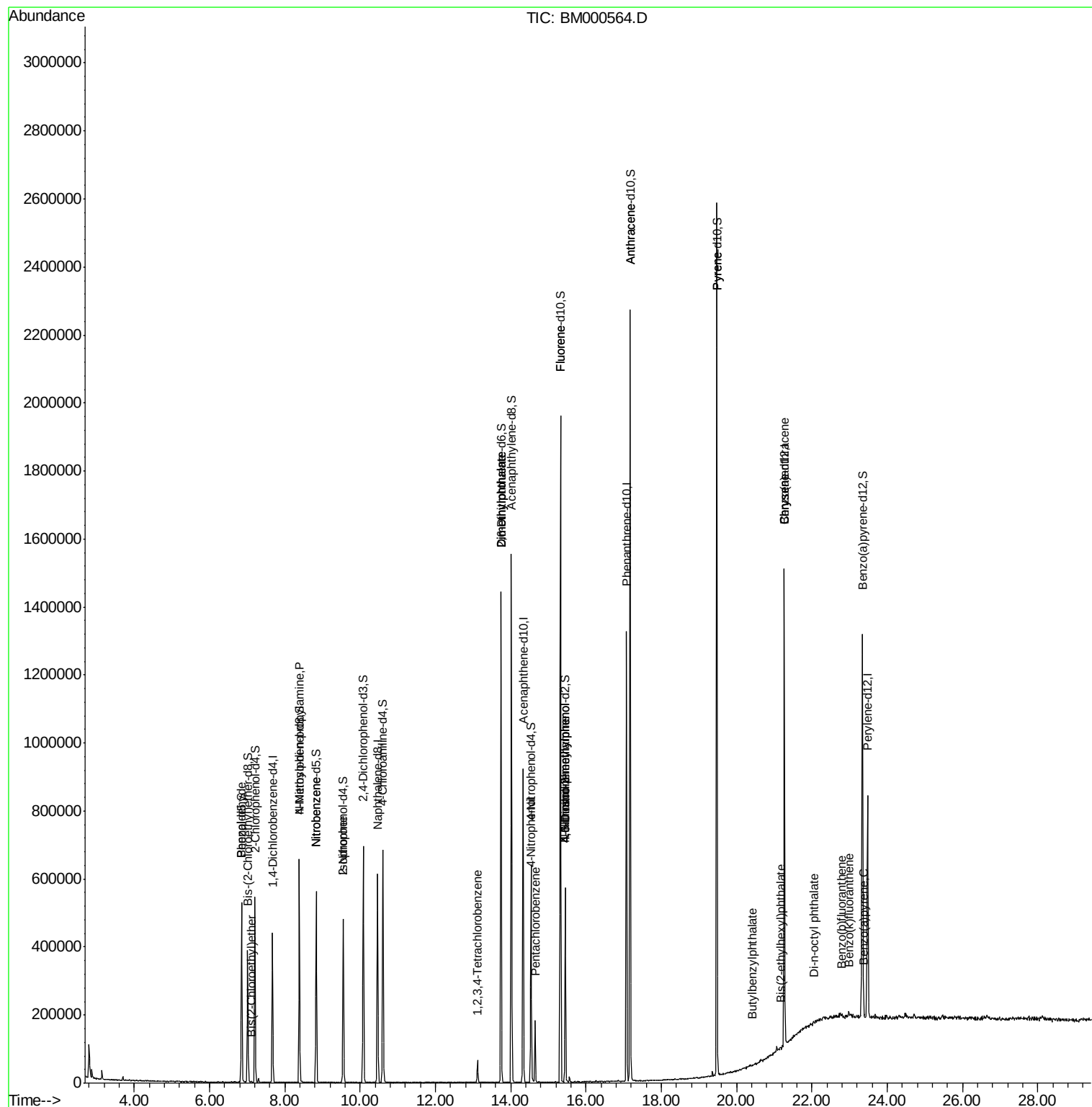
|       |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|
| ----- |  |  |  |  |  |  |
| ----- |  |  |  |  |  |  |

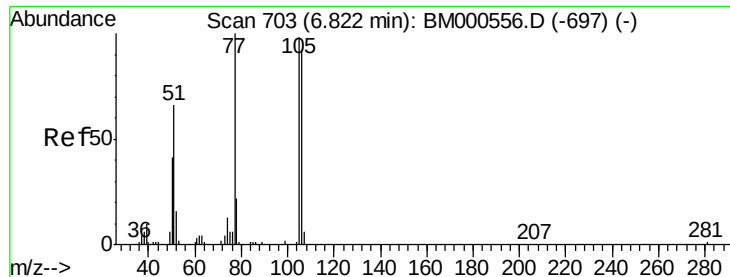
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 21 02:50:31 2015  
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Quant Title : SVOA CALIBRATION  
QLast Update : Sat Feb 21 00:39:15 2015  
Response via : Initial Calibration





#2

Benzaldehyde

Concen: 0.05 ng/ul

RT: 6.85 min Scan# 707

Delta R.T. 0.02 min

Lab File: BM000564.D

Acq: 20 Feb 2015 17:19

Instrument :

BNA\_M

ClientSampleId :

MDL-05-W

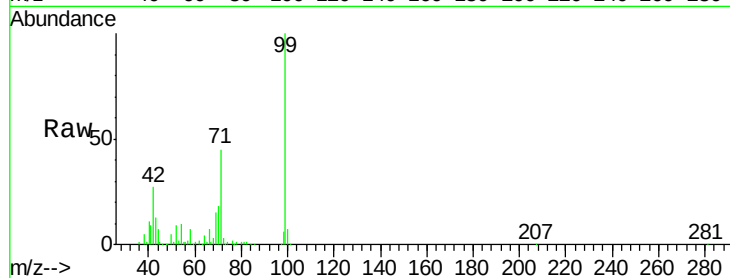
Tgt Ion: 77 Resp: 234

Ion Ratio Lower Upper

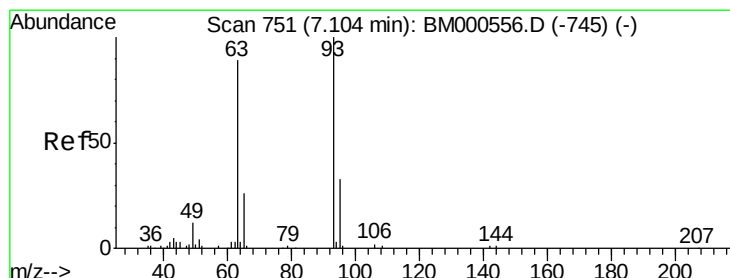
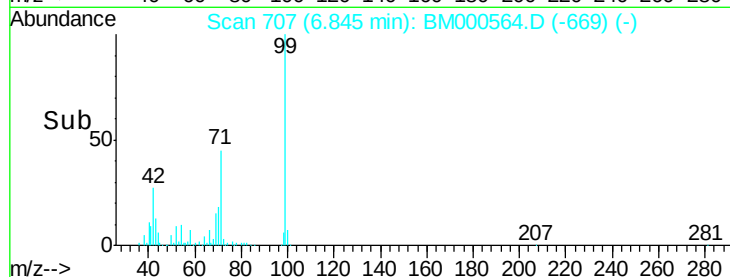
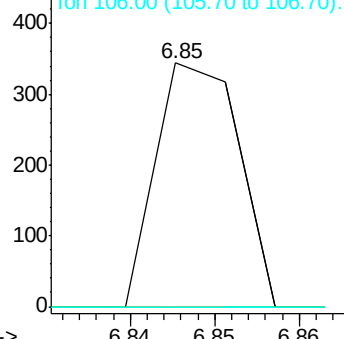
77 100

105 0.0 78.6 117.8#

106 0.0 74.2 111.4#



Abundance Ion 77.00 (76.70 to 77.70): BM000556.D (-697) (-)



#6

Bis(2-Chloroethyl)ether

Concen: 0.12 ng/ul

RT: 7.10 min Scan# 751

Delta R.T. -0.00 min

Lab File: BM000564.D

Acq: 20 Feb 2015 17:19

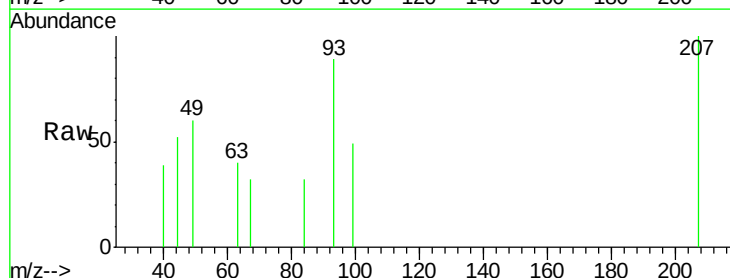
Tgt Ion: 93 Resp: 739

Ion Ratio Lower Upper

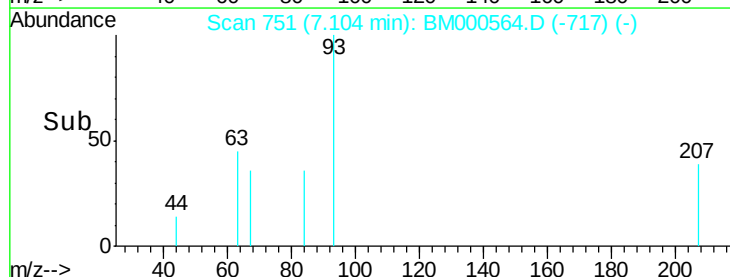
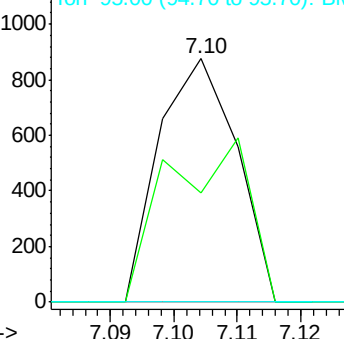
93 100

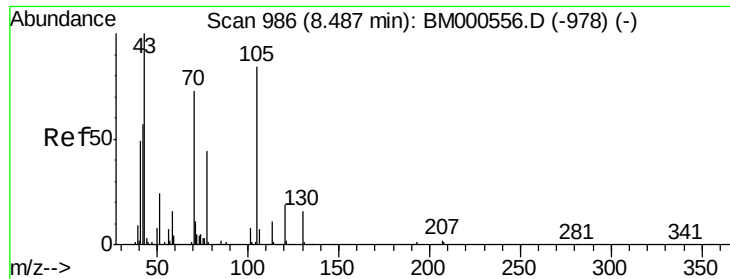
63 45.0 71.2 106.8#

95 0.0 26.1 39.1#



Abundance Ion 93.00 (92.70 to 93.70): BM000556.D (-745) (-)

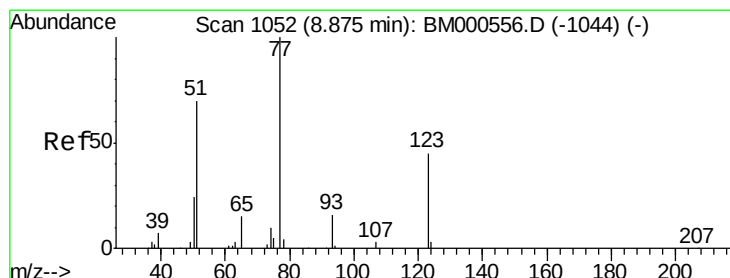
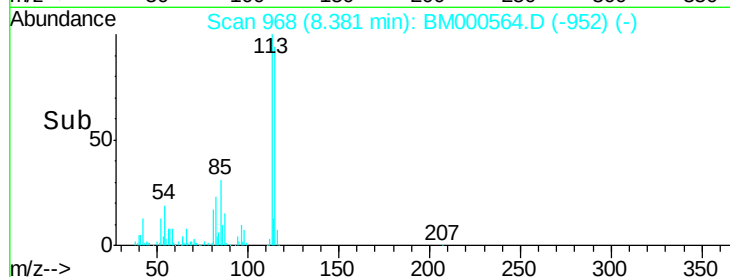
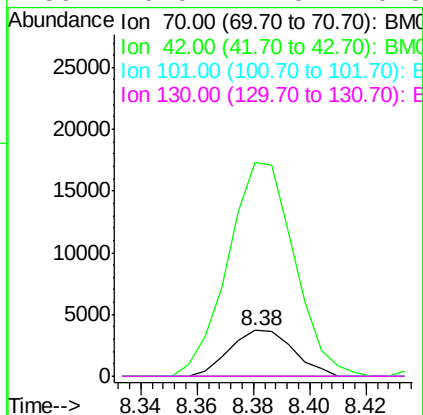
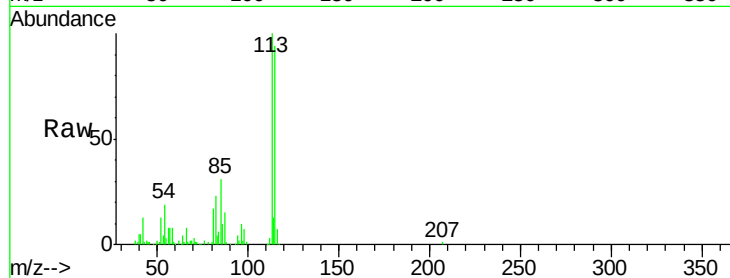




#13  
 N-Nitroso-di-n-propylamine  
 Concen: 1.16 ng/ul  
 RT: 8.38 min Scan# 968  
 Delta R.T. -0.11 min  
 Lab File: BM000564.D  
 Acq: 20 Feb 2015 17:19

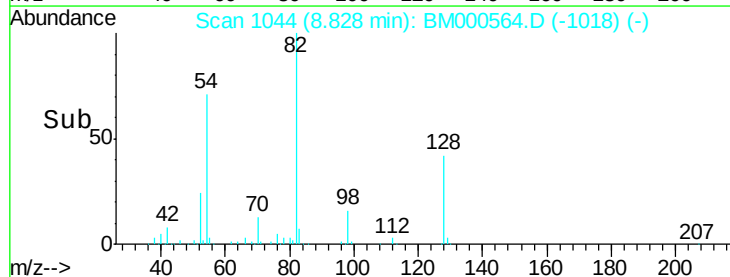
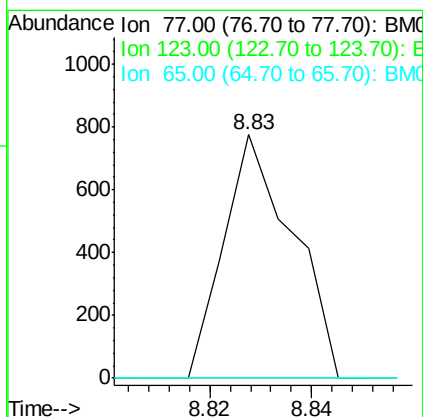
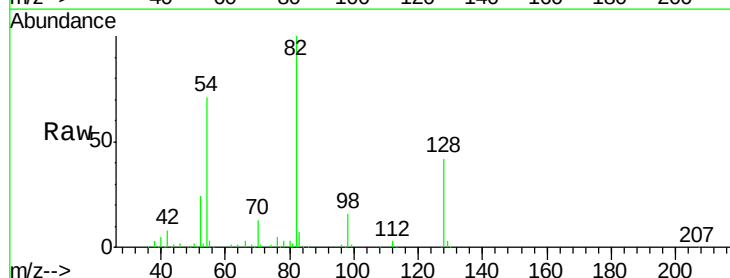
Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-05-W

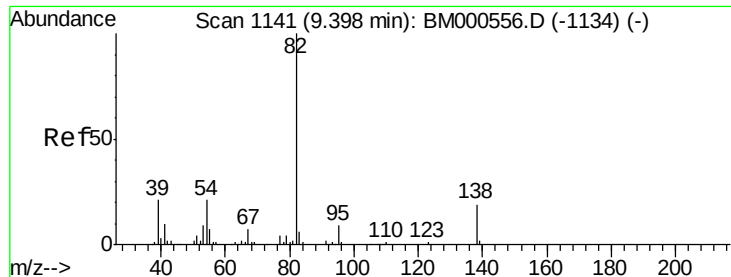
Tgt Ion: 70 Resp: 5856  
 Ion Ratio Lower Upper  
 70 100  
 42 467.3 63.3 94.9#  
 101 0.0 8.2 12.4#  
 130 0.0 17.8 26.8#



#18  
 Nitrobenzene  
 Concen: 0.09 ng/ul  
 RT: 8.83 min Scan# 1044  
 Delta R.T. -0.05 min  
 Lab File: BM000564.D  
 Acq: 20 Feb 2015 17:19

Tgt Ion: 77 Resp: 730  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 35.7 53.5#  
 65 0.0 12.3 18.5#

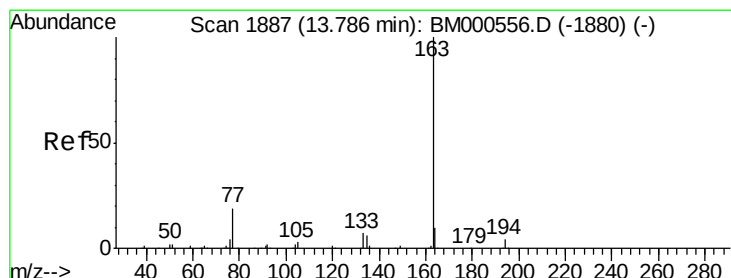
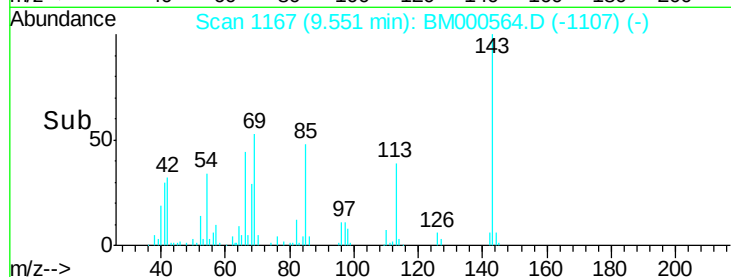
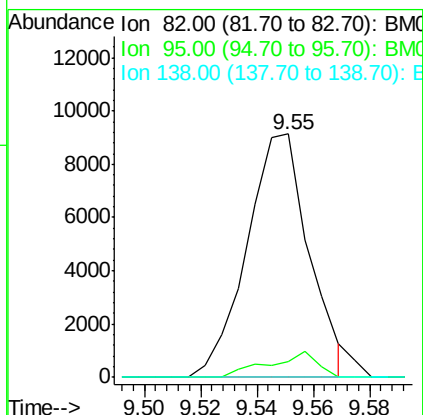
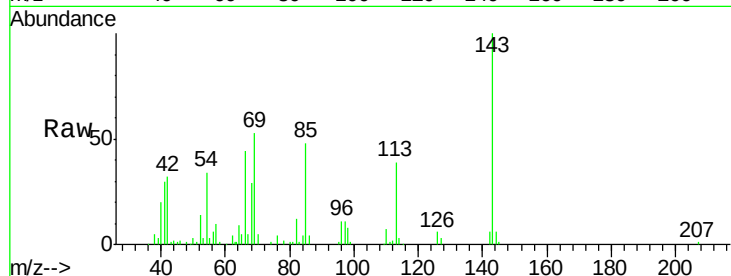




#19  
Isophorone  
Concen: 1.00 ng/ul  
RT: 9.55 min Scan# 1167  
Delta R.T. 0.15 min  
Lab File: BM000564.D  
Acq: 20 Feb 2015 17:19

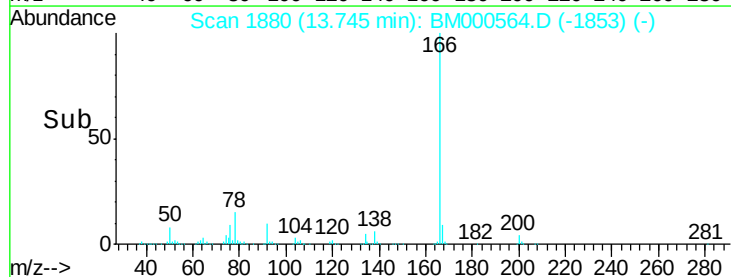
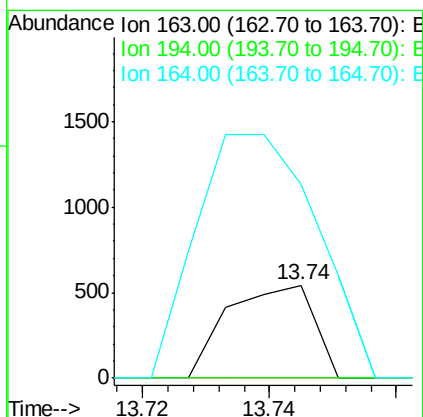
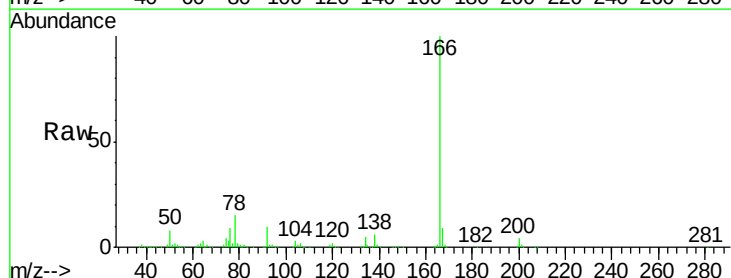
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-05-W

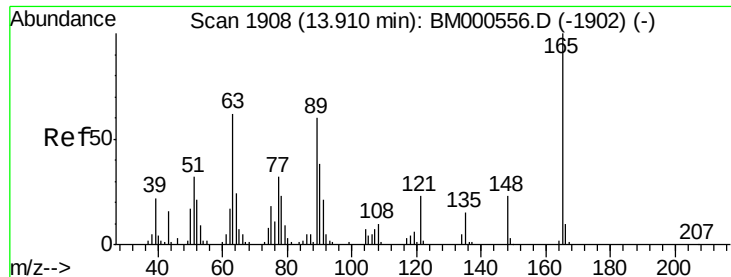
Tgt Ion: 82 Resp: 13961  
Ion Ratio Lower Upper  
82 100  
95 6.3 7.0 10.4#  
138 0.0 15.1 22.7#



#42  
Dimethylphthalate  
Concen: 0.02 ng/ul  
RT: 13.74 min Scan# 1880  
Delta R.T. -0.04 min  
Lab File: BM000564.D  
Acq: 20 Feb 2015 17:19

Tgt Ion: 163 Resp: 510  
Ion Ratio Lower Upper  
163 100  
194 0.0 3.3 4.9#  
164 209.4 7.9 11.9#

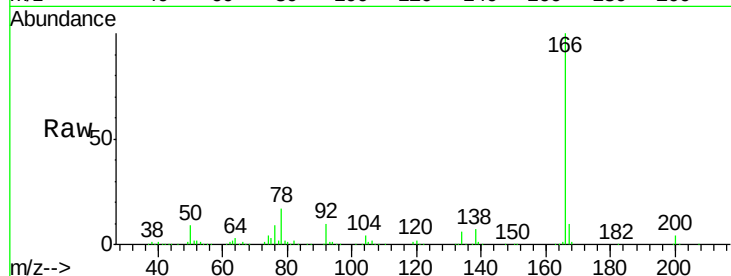




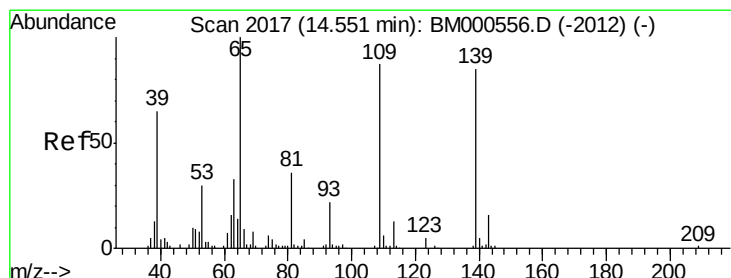
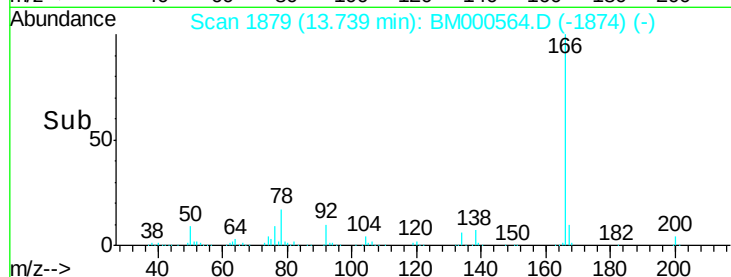
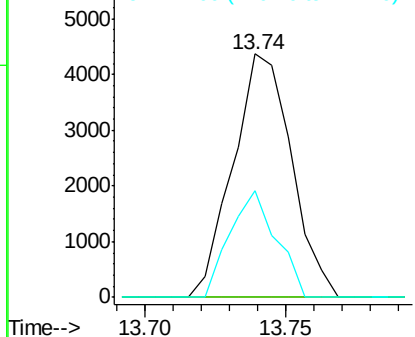
#43  
 2,6-Dinitrotoluene  
 Concen: 1.41 ng/ul  
 RT: 13.74 min Scan# 1879  
 Delta R.T. -0.17 min  
 Lab File: BM000564.D  
 Acq: 20 Feb 2015 17:19

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-05-W

Tgt Ion:165 Resp: 6279  
 Ion Ratio Lower Upper  
 165 100  
 89 0.0 47.8 71.8#  
 121 43.8 18.1 27.1#

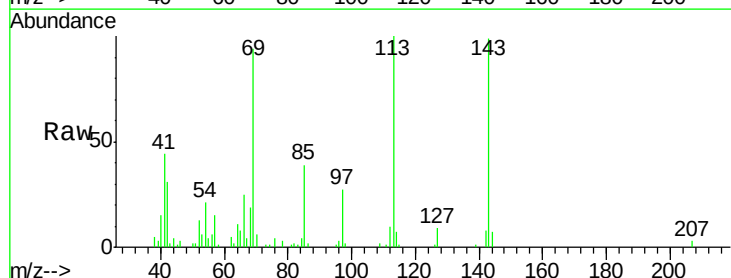


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 89.00 (88.70 to 89.70): BM0  
 Ion 121.00 (120.70 to 121.70): E

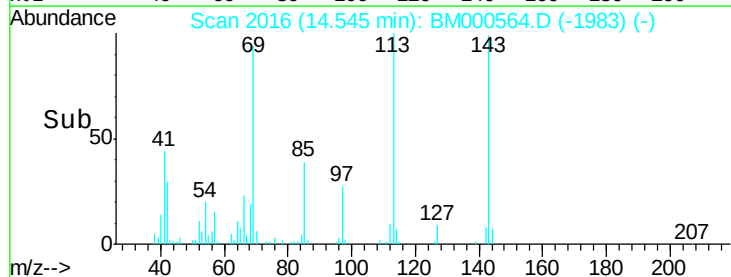
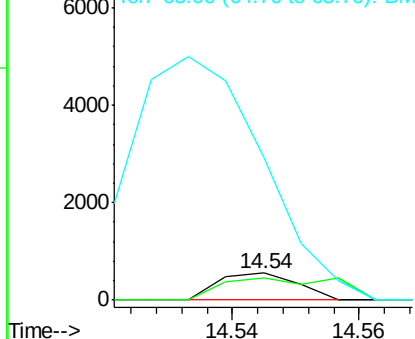


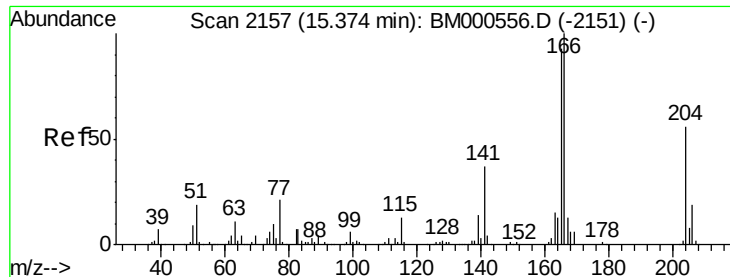
#50  
 4-Nitrophenol  
 Concen: 0.12 ng/ul  
 RT: 14.54 min Scan# 2016  
 Delta R.T. -0.01 min  
 Lab File: BM000564.D  
 Acq: 20 Feb 2015 17:19

Tgt Ion:109 Resp: 478  
 Ion Ratio Lower Upper  
 109 100  
 139 80.1 78.2 117.4  
 65 524.5 93.7 140.5#



Abundance Ion 109.00 (108.70 to 109.70): E  
 Ion 139.00 (138.70 to 139.70): E  
 Ion 65.00 (64.70 to 65.70): BM0

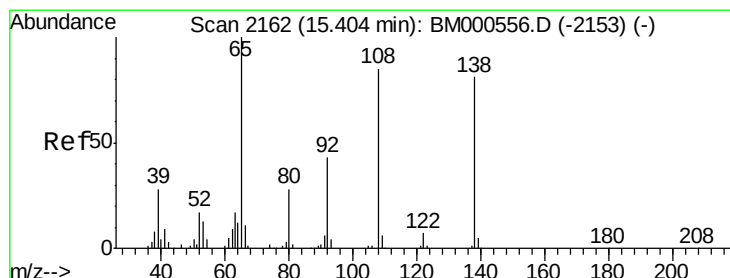
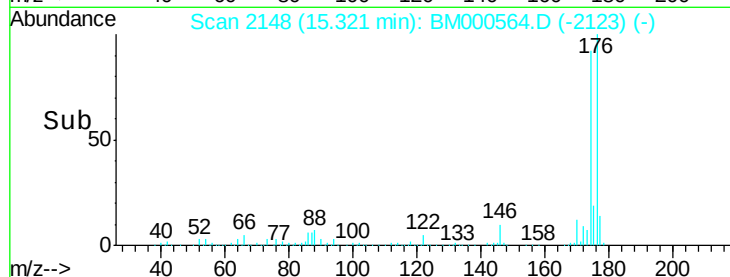
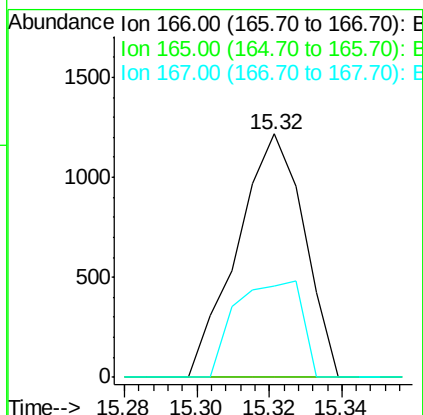
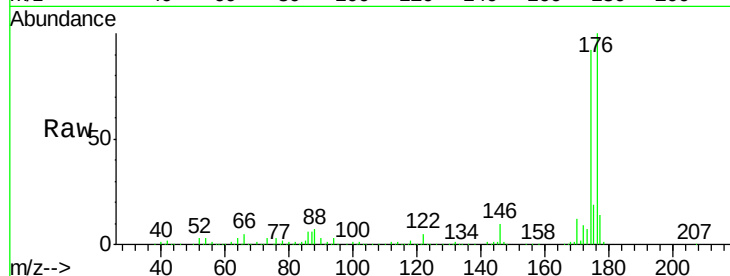




#56  
 Fluorene  
 Concen: 0.06 ng/ul  
 RT: 15.32 min Scan# 2148  
 Delta R.T. -0.05 min  
 Lab File: BM000564.D  
 Acq: 20 Feb 2015 17:19

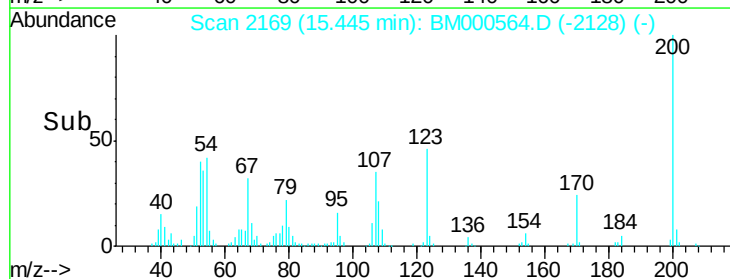
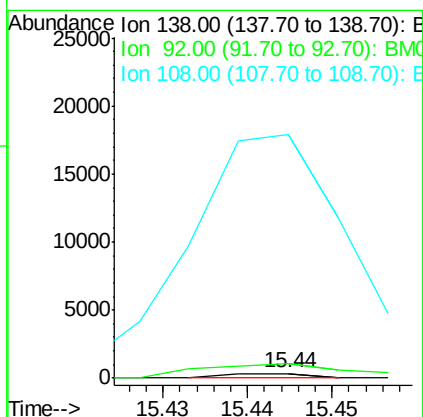
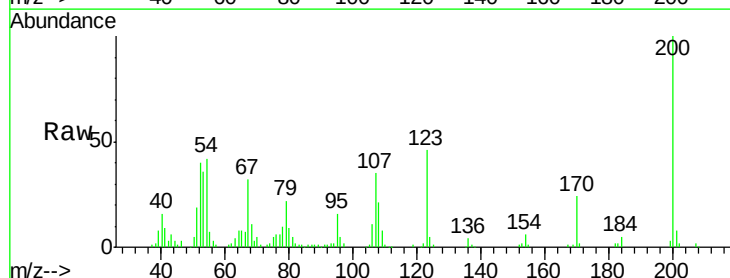
Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-05-W

Tgt Ion:166 Resp: 1557  
 Ion Ratio Lower Upper  
 166 100  
 165 0.0 74.4 111.6#  
 167 37.6 10.2 15.4#

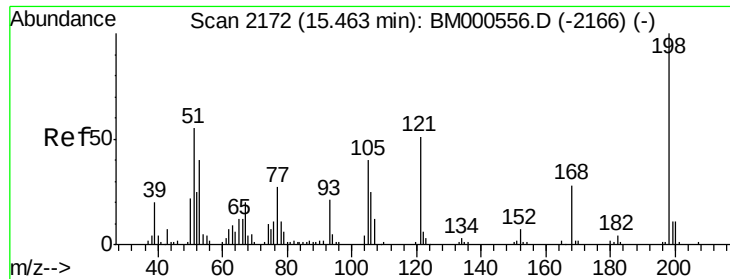


#58  
 4-Nitroaniline  
 Concen: 0.05 ng/ul  
 RT: 15.44 min Scan# 2169  
 Delta R.T. 0.04 min  
 Lab File: BM000564.D  
 Acq: 20 Feb 2015 17:19

Tgt Ion:138 Resp: 228  
 Ion Ratio Lower Upper  
 138 100  
 92 306.5 42.2 63.2#  
 108 5248.1 83.5 125.3#







#61

4,6-Dinitro-2-methylphenol

Concen: 0.03 ng/ul

RT: 15.45 min Scan# 2170

Delta R.T. -0.01 min

Lab File: BM000564.D

Acq: 20 Feb 2015 17:19

Instrument :

BNA\_M

ClientSampleId :

MDL-05-W

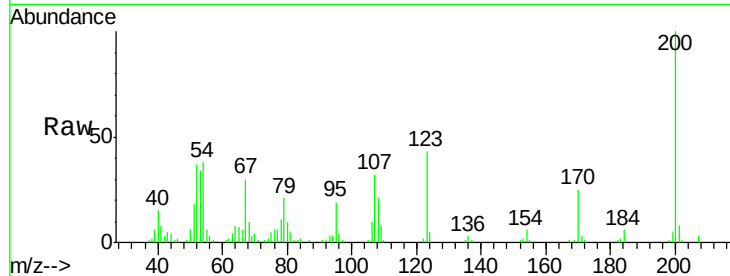
Tgt Ion:198 Resp: 134

Ion Ratio Lower Upper

198 100

182 216.8 3.2 4.8#

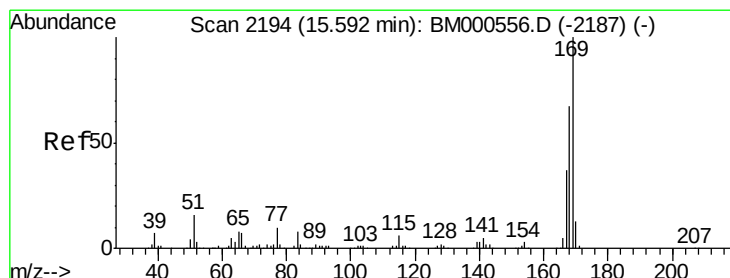
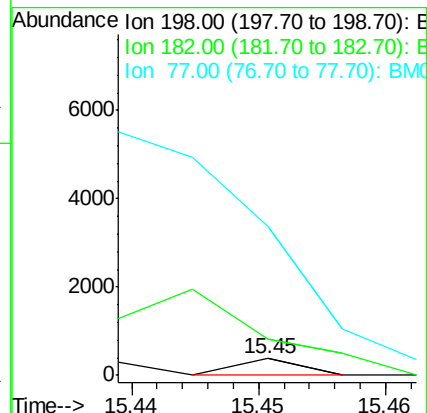
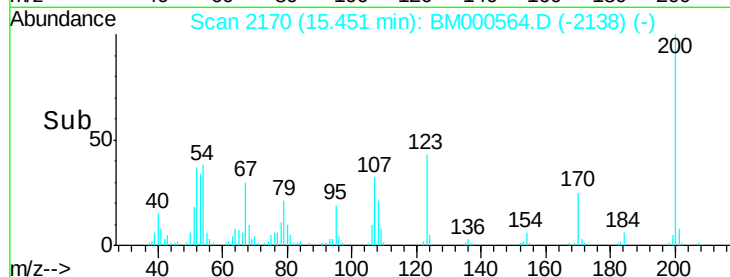
77 883.5 22.2 33.2#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 77.00 (76.70 to 77.70): BM



#62

N-Nitrosodiphenylamine

Concen: 0.03 ng/ul

RT: 15.44 min Scan# 2169

Delta R.T. -0.15 min

Lab File: BM000564.D

Acq: 20 Feb 2015 17:19

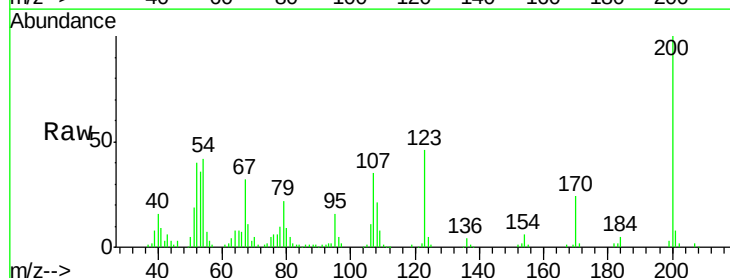
Tgt Ion:169 Resp: 754

Ion Ratio Lower Upper

169 100

168 0.0 53.3 79.9#

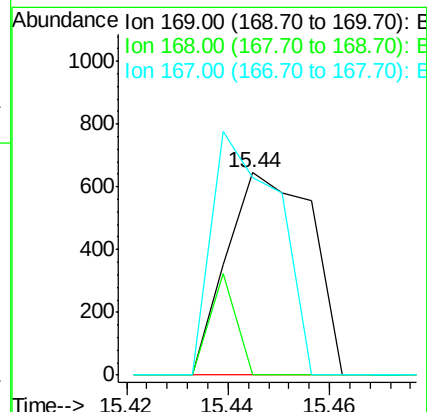
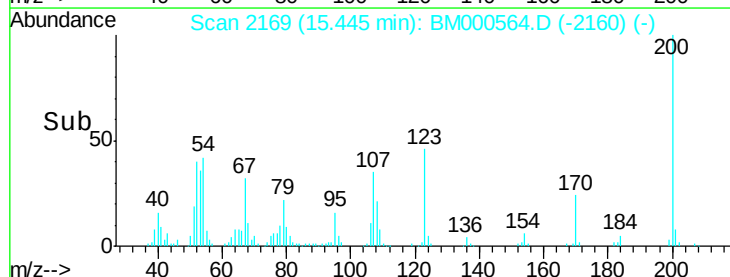
167 97.7 29.4 44.2#

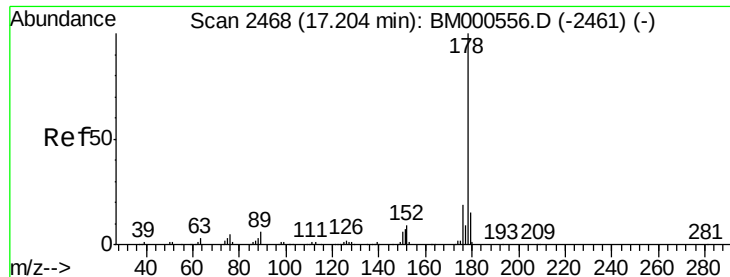


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#69

Anthracene

Concen: 0.01 ng/uL

RT: 17.17 min Scan# 2463

Delta R.T. -0.03 min

Lab File: BM000564.D

Acq: 20 Feb 2015 17:19

Instrument :

BNA\_M

ClientSampled :

MDL-05-W

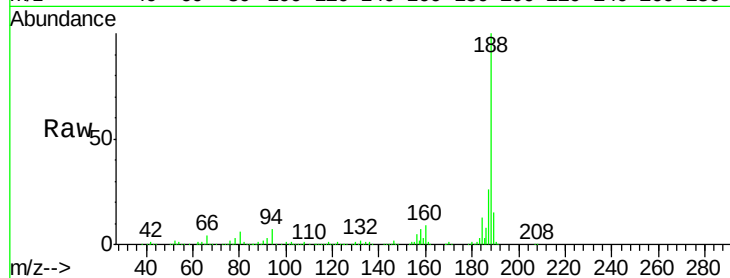
Tgt Ion:178 Resp: 239

Ion Ratio Lower Upper

178 100

179 285.6 12.2 18.4#

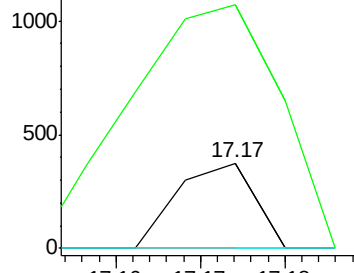
176 0.0 15.0 22.6#



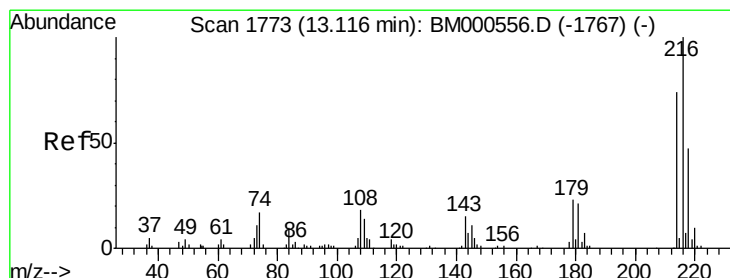
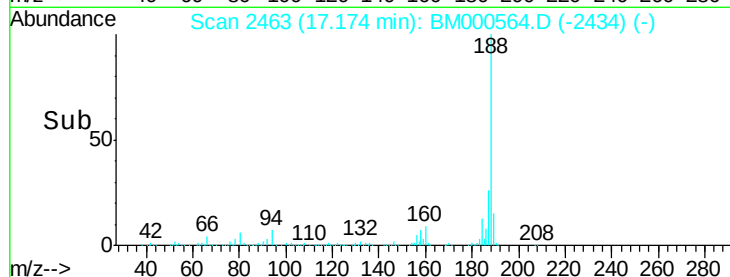
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



Time-->



#70

1,2,3,4-Tetrachlorobenzene

Concen: 1.89 ng/uL

RT: 13.12 min Scan# 1773

Delta R.T. -0.00 min

Lab File: BM000564.D

Acq: 20 Feb 2015 17:19

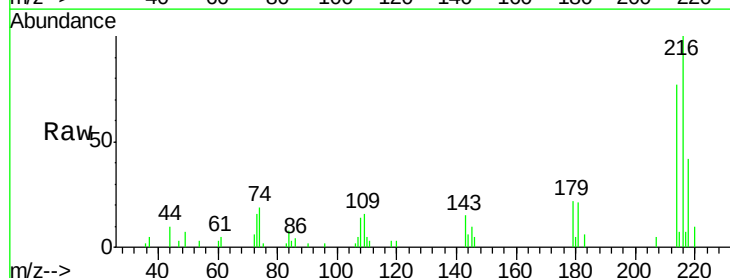
Tgt Ion:216 Resp: 20859

Ion Ratio Lower Upper

216 100

214 76.6 59.1 88.7

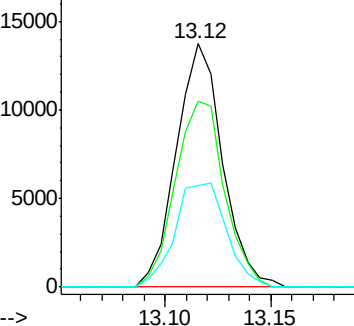
218 41.7 37.6 56.4



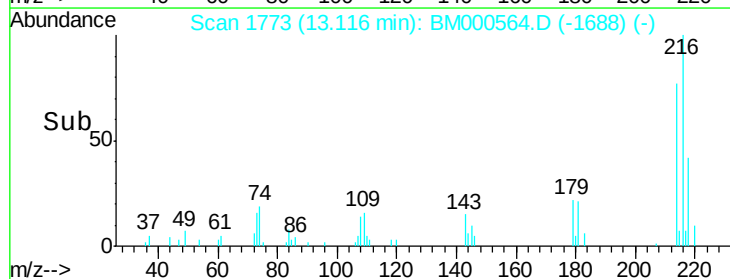
Abundance Ion 216.00 (215.70 to 216.70): E

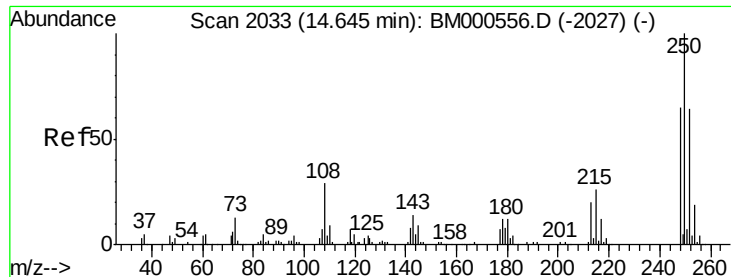
Ion 214.00 (213.70 to 214.70): E

Ion 218.00 (217.70 to 218.70): E



Time-->

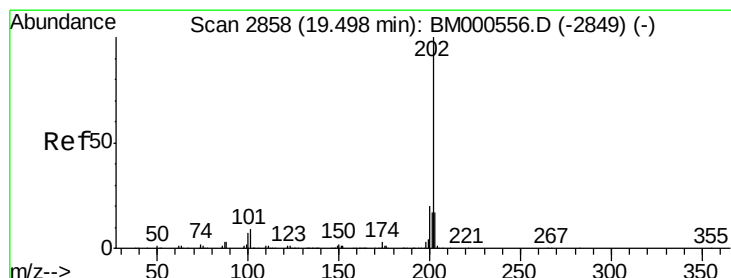
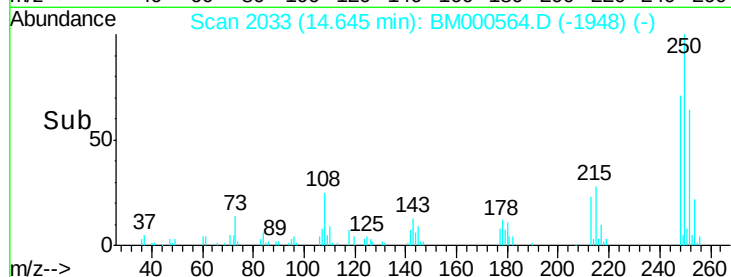
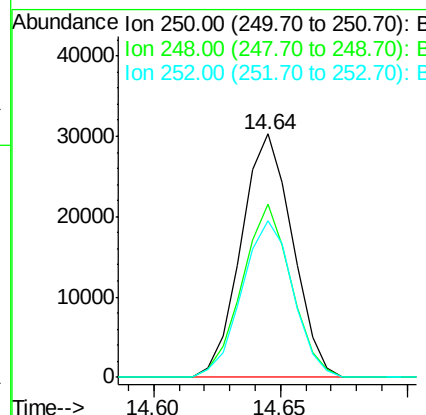
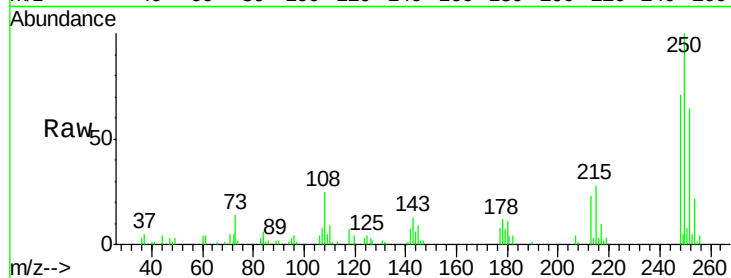




#71  
 Pentachlorobenzene  
 Concen: 4.02 ng/uL  
 RT: 14.64 min Scan# 2033  
 Delta R.T. -0.00 min  
 Lab File: BM000564.D  
 Acq: 20 Feb 2015 17:19

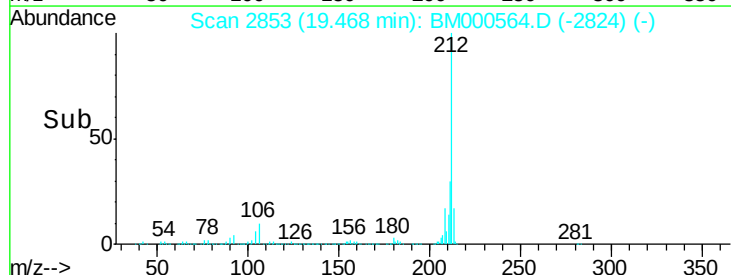
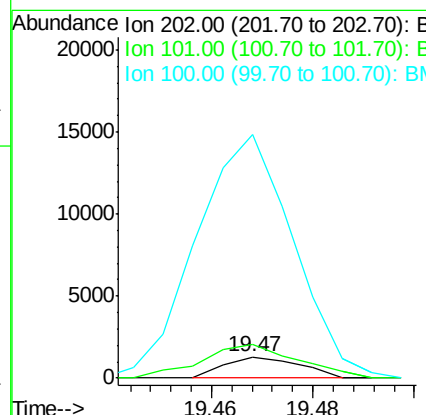
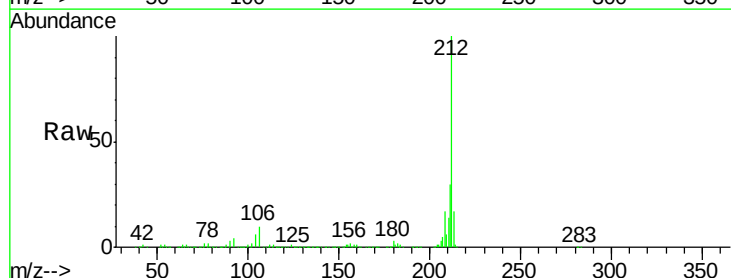
Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-05-W

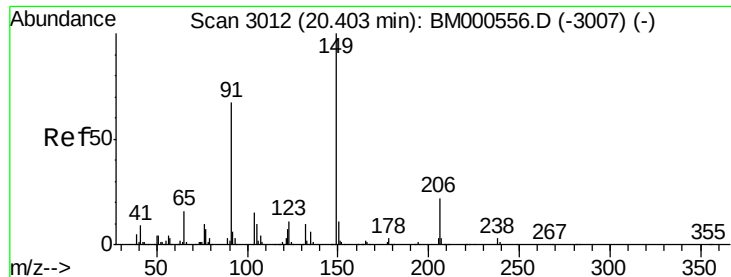
Tgt Ion:250 Resp: 42625  
 Ion Ratio Lower Upper  
 250 100  
 248 71.2 52.4 78.6  
 252 64.4 51.5 77.3



#77  
 Pyrene  
 Concen: 0.03 ng/uL  
 RT: 19.47 min Scan# 2853  
 Delta R.T. -0.03 min  
 Lab File: BM000564.D  
 Acq: 20 Feb 2015 17:19

Tgt Ion:202 Resp: 1302  
 Ion Ratio Lower Upper  
 202 100  
 101 163.3 7.2 10.8#  
 100 1160.3 5.9 8.9#

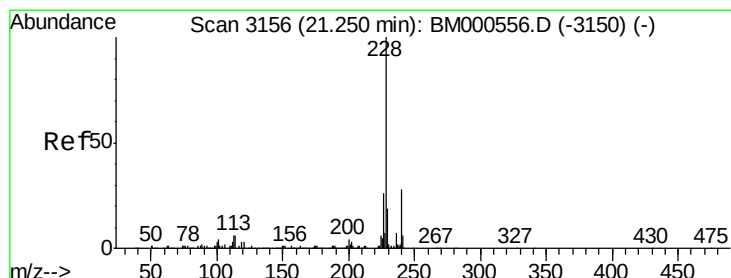
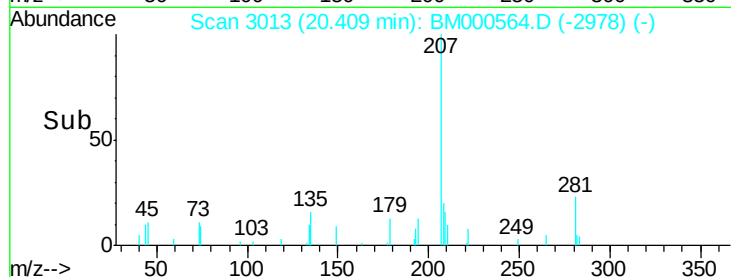
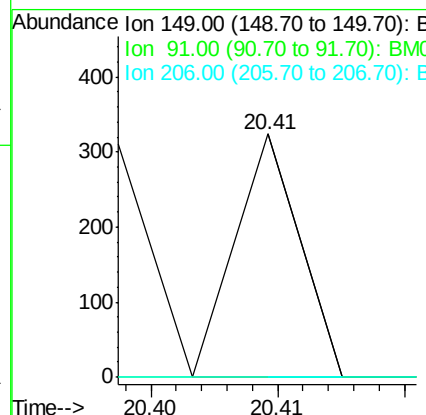
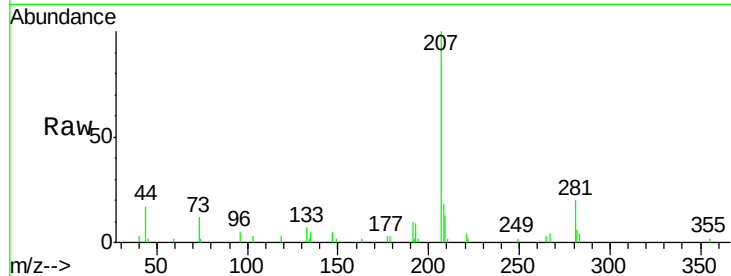




#78  
Butylbenzylphthalate  
Concen: 0.01 ng/ul  
RT: 20.41 min Scan# 3013  
Delta R.T. 0.01 min  
Lab File: BM000564.D  
Acq: 20 Feb 2015 17:19

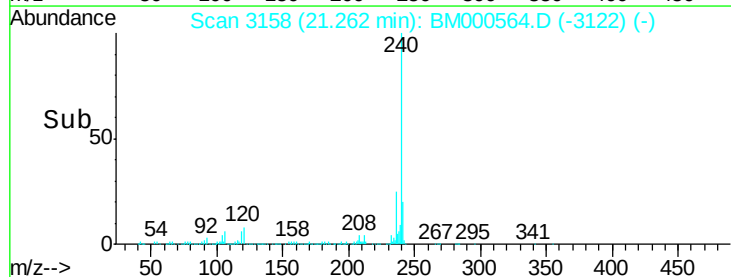
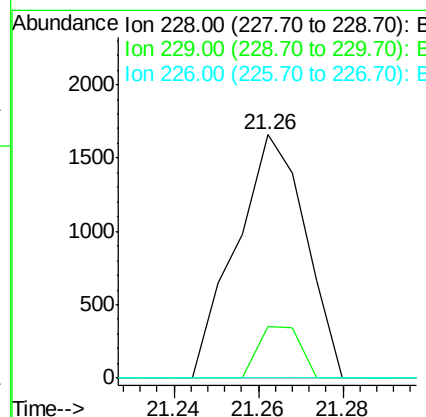
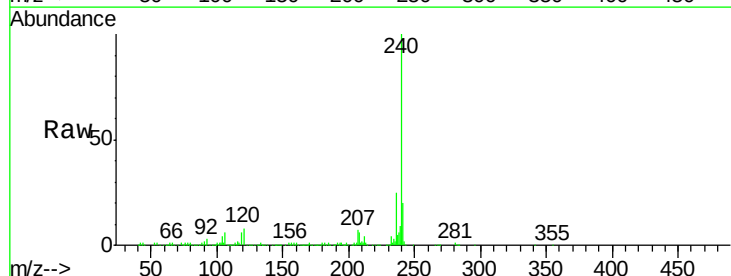
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-05-W

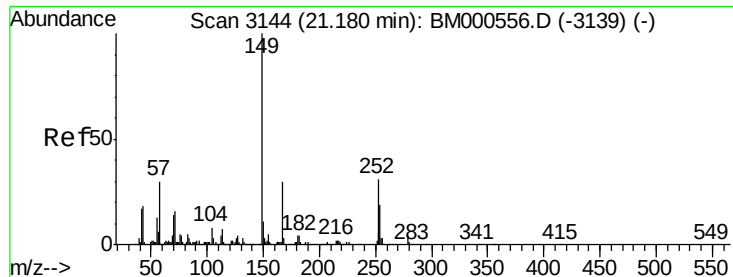
Tgt Ion:149 Resp: 114  
Ion Ratio Lower Upper  
149 100  
91 0.0 53.9 80.9#  
206 0.0 17.2 25.8#



#80  
Benzo(a)anthracene  
Concen: 0.05 ng/ul  
RT: 21.26 min Scan# 3158  
Delta R.T. 0.01 min  
Lab File: BM000564.D  
Acq: 20 Feb 2015 17:19

Tgt Ion:228 Resp: 1888  
Ion Ratio Lower Upper  
228 100  
229 21.2 15.1 22.7  
226 0.0 20.4 30.6#





#81

Bis(2-ethylhexyl)phthalate

Concen: 0.02 ng/ul

RT: 21.17 min Scan# 3142

Delta R.T. -0.01 min

Lab File: BM000564.D

Acq: 20 Feb 2015 17:19

Instrument :

BNA\_M

ClientSampleId :

MDL-05-W

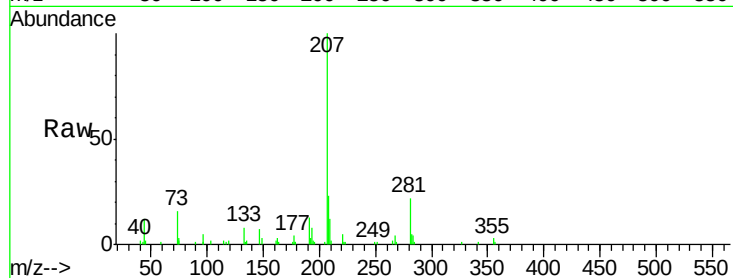
Tgt Ion:149 Resp: 465

Ion Ratio Lower Upper

149 100

167 0.0 23.8 35.6#

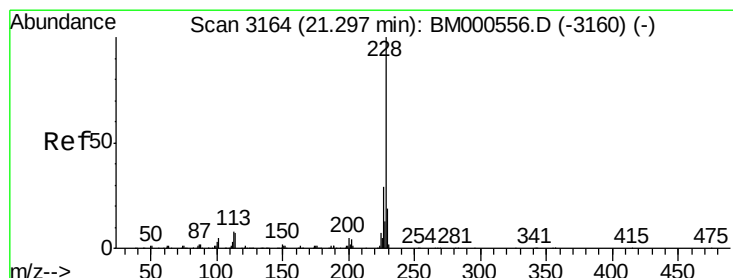
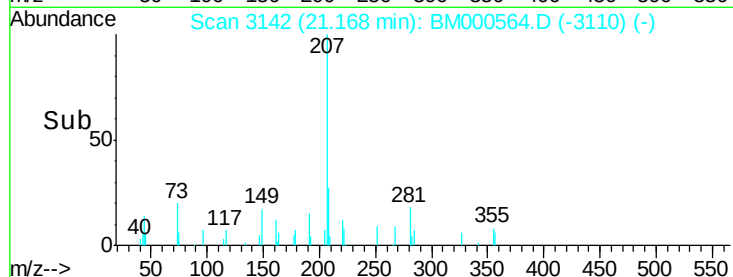
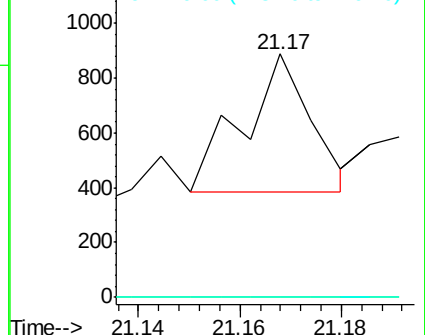
279 0.0 3.4 5.2#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#82

Chrysene

Concen: 0.05 ng/ul

RT: 21.26 min Scan# 3158

Delta R.T. -0.04 min

Lab File: BM000564.D

Acq: 20 Feb 2015 17:19

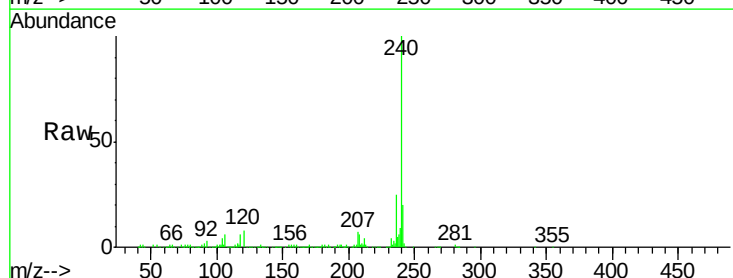
Tgt Ion:228 Resp: 1888

Ion Ratio Lower Upper

228 100

226 0.0 23.0 34.6#

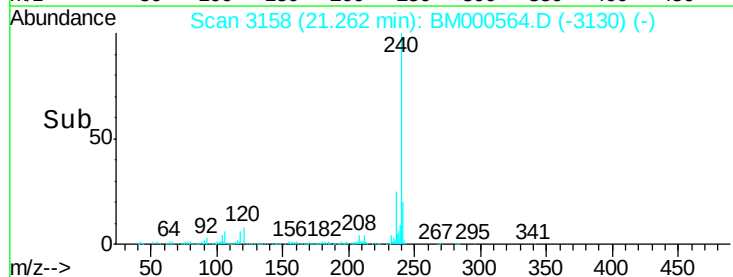
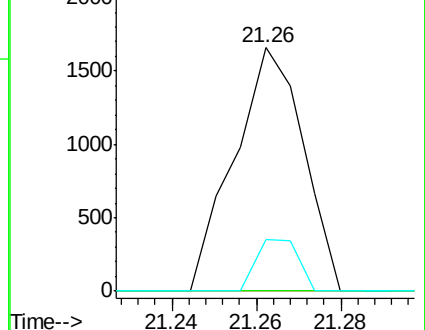
229 21.2 15.3 22.9

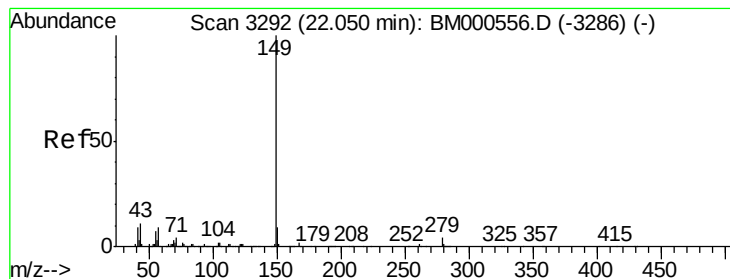


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#84

Di-n-octyl phthalate

Concen: 0.01 ng/ul

RT: 22.05 min Scan# 3292

Delta R.T. -0.00 min

Lab File: BM000564.D

Acq: 20 Feb 2015 17:19

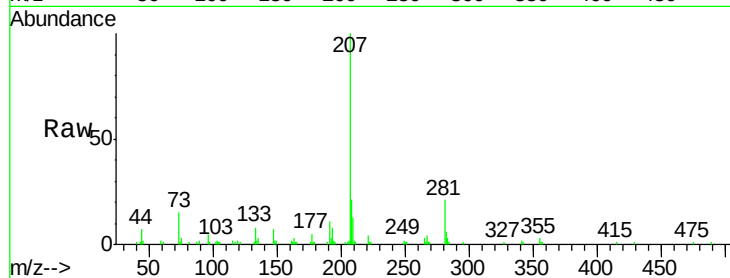
Instrument :

BNA\_M

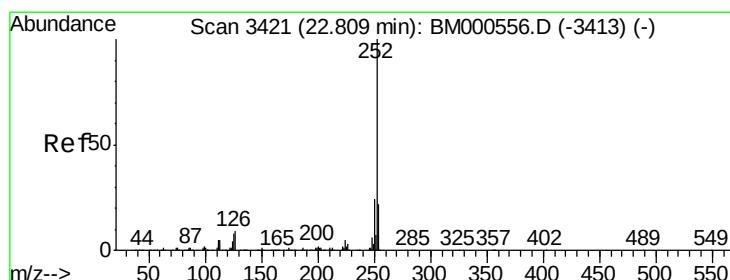
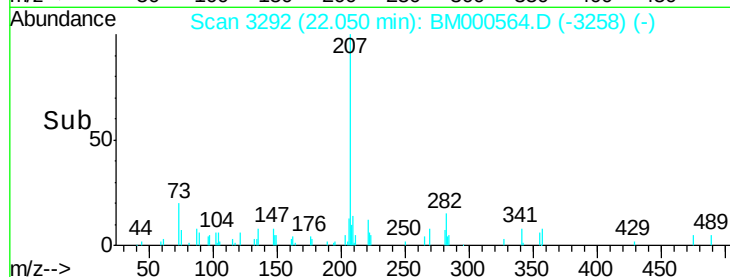
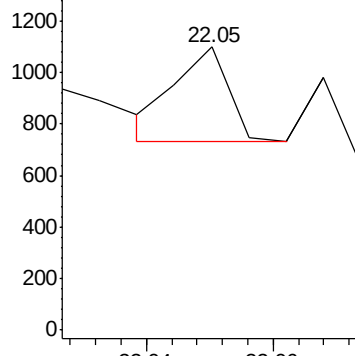
ClientSampled :

MDL-05-W

Tgt Ion:149 Resp: 213



Abundance Ion 149.00 (148.70 to 149.70): E



#85

Benzo(b)fluoranthene

Concen: 0.01 ng/ul

RT: 22.79 min Scan# 3417

Delta R.T. -0.02 min

Lab File: BM000564.D

Acq: 20 Feb 2015 17:19

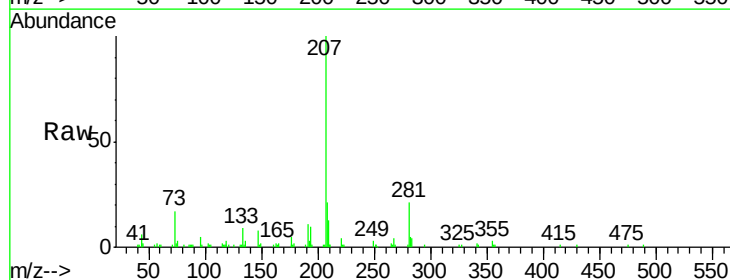
Tgt Ion:252 Resp: 225

Ion Ratio Lower Upper

252 100

253 95.4 17.4 26.0#

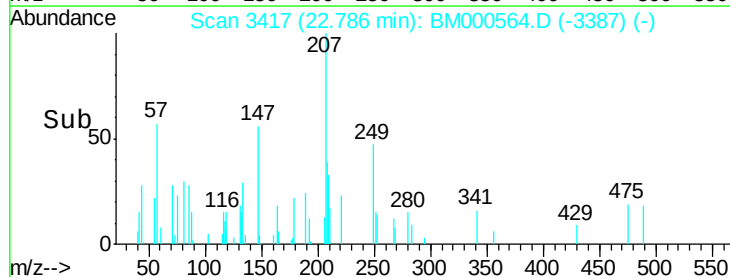
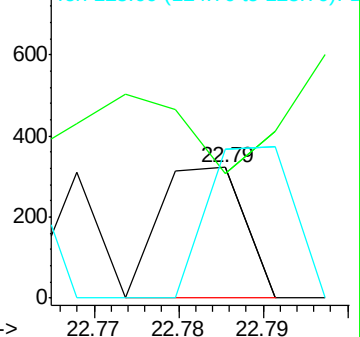
125 113.6 6.2 9.2#

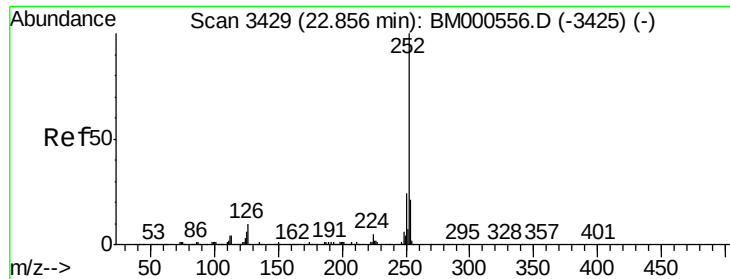


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

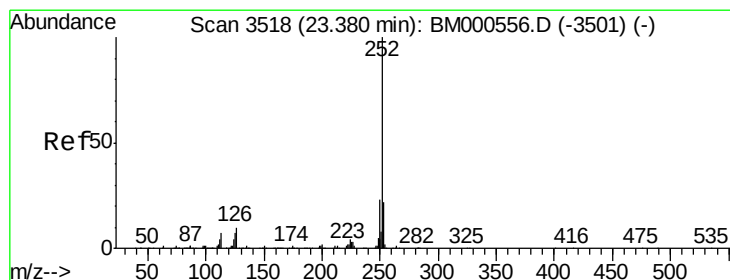
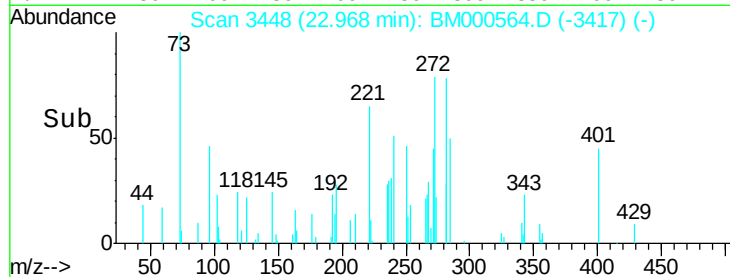
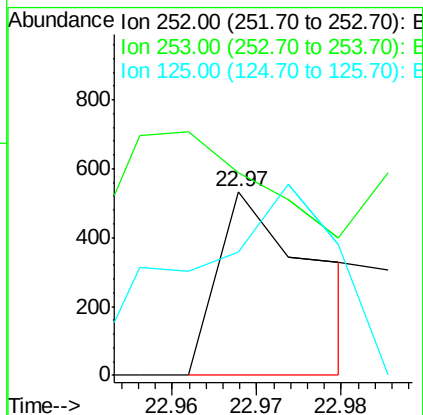
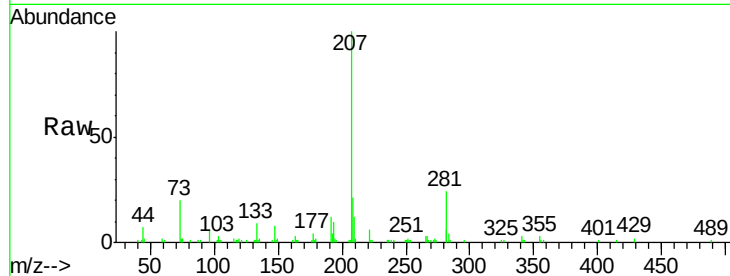




#86  
Benzo(k)fluoranthene  
Concen: 0.02 ng/ul  
RT: 22.97 min Scan# 3448  
Delta R.T. 0.11 min  
Lab File: BM000564.D  
Acq: 20 Feb 2015 17:19

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-05-W

Tgt Ion:252 Resp: 426  
Ion Ratio Lower Upper  
252 100  
253 110.1 17.1 25.7#  
125 66.9 5.3 7.9#



#88  
Benzo(a)pyrene  
Concen: 0.01 ng/ul  
RT: 23.38 min Scan# 3518  
Delta R.T. -0.00 min  
Lab File: BM000564.D  
Acq: 20 Feb 2015 17:19

Tgt Ion:252 Resp: 158  
Ion Ratio Lower Upper  
252 100  
253 86.6 17.5 26.3#  
125 75.4 5.4 8.0#

