

Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
 Data File : BM012456.D  
 Acq On : 25 Oct 2017 22:24  
 Operator : SJ/JU  
 Sample : I5719-14 2X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Oct 26 06:12:23 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Oct 26 05:23:19 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.89  | 152  | 571548   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.67 | 136  | 2398626  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.51 | 164  | 1493254  | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.25 | 188  | 3228000  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.42 | 240  | 2523995  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.73 | 264  | 2742137  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.37  | 96  | 19431   | 1.74  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 7.05  | 99  | 418425  | 8.76  | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.21  | 67  | 401456  | 14.16 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.42  | 132 | 330844  | 9.25  | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.59  | 113 | 297487  | 7.29  | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 9.04  | 128 | 206722  | 13.76 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.76  | 143 | 179994  | 11.63 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.30 | 165 | 359418  | 8.77  | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.80 | 131 | 608845  | 14.08 | ng/ul | -0.01 |
| 43) Dimethylphthalate-d6       | 13.92 | 166 | 1172774 | 8.99  | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 14.20 | 160 | 1421472 | 9.21  | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.71 | 143 | 128662  | 6.63  | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.50 | 176 | 994580  | 9.01  | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.62 | 200 | 80980   | 5.18  | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.35 | 188 | 1411985 | 9.18  | ng/ul | 0.00  |
| 76) Pyrene-d10                 | 19.64 | 212 | 1309786 | 11.31 | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 23.58 | 264 | 1189790 | 9.13  | ng/ul | 0.00  |

## Target Compounds

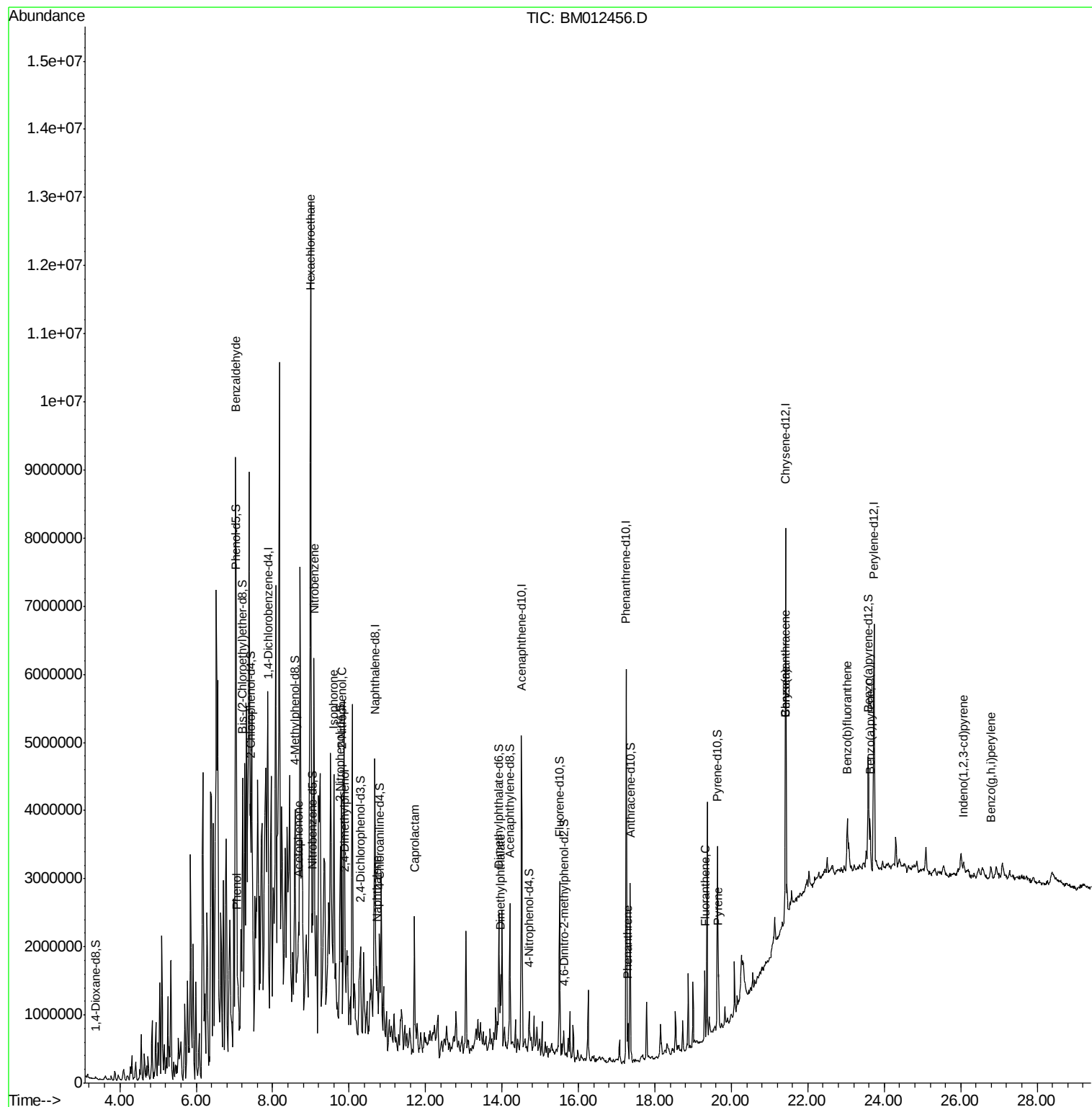
|                            |       |     |        |              | Ovalue |
|----------------------------|-------|-----|--------|--------------|--------|
| 4) Benzaldehyde            | 7.03  | 77  | 117687 | 4.53 ng/ul#  | 36     |
| 6) Phenol                  | 7.08  | 94  | 144472 | 2.91 ng/ul   | 87     |
| 14) Acetophenone           | 8.69  | 105 | 111373 | 1.74 ng/ul#  | 46     |
| 17) Hexachloroethane       | 8.99  | 117 | 707653 | 45.63 ng/ul# | 1      |
| 20) Nitrobenzene           | 9.08  | 77  | 173862 | 4.02 ng/ul#  | 36     |
| 21) Isophorone             | 9.60  | 82  | 341558 | 3.73 ng/ul#  | 1      |
| 23) 2-Nitrophenol          | 9.81  | 139 | 18910  | 1.10 ng/ul#  | 1      |
| 24) 2,4-Dimethylphenol     | 9.89  | 107 | 110238 | 2.28 ng/ul#  | 80     |
| 28) Naphthalene            | 10.73 | 128 | 133660 | 1.12 ng/ul#  | 60     |
| 32) Caprolactam            | 11.71 | 113 | 77600  | 5.99 ng/ul   | 75     |
| 44) Dimethylphthalate      | 13.96 | 163 | 599610 | 4.65 ng/ul   | 100    |
| 69) Phenanthrene           | 17.29 | 178 | 336867 | 1.93 ng/ul   | 99     |
| 74) Fluoranthene           | 19.30 | 202 | 538384 | 2.72 ng/ul#  | 93     |
| 77) Pyrene                 | 19.67 | 202 | 512475 | 3.57 ng/ul#  | 94     |
| 80) Benzo(a)anthracene     | 21.40 | 228 | 278959 | 1.85 ng/ul#  | 92     |
| 82) Chrysene               | 21.40 | 228 | 278959 | 2.08 ng/ul   | 95     |
| 85) Benzo(b)fluoranthene   | 23.03 | 252 | 344186 | 2.03 ng/ul#  | 84     |
| 88) Benzo(a)pyrene         | 23.63 | 252 | 277595 | 1.72 ng/ul#  | 89     |
| 89) Indeno(1,2,3-cd)pyrene | 26.07 | 276 | 196123 | 1.03 ng/ul#  | 88     |
| 91) Benzo(g,h,i)perylene   | 26.79 | 276 | 186323 | 1.21 ng/ul#  | 86     |

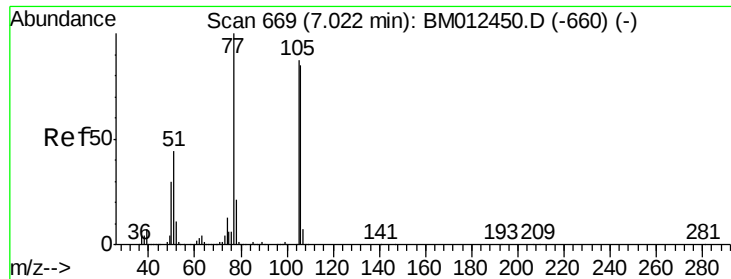
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
BNA\_M  
ClientSampled :

Quant Time: Oct 26 06:12:23 2017  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Oct 26 05:23:19 2017  
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 4.53 ng/ul

RT: 7.03 min Scan# 670

Delta R.T. 0.01 min

Lab File: BM012456.D

Acq: 25 Oct 2017 22:24

Instrument :

BNA\_M

ClientSampled :

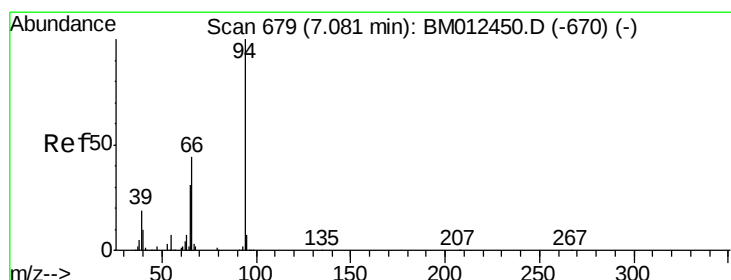
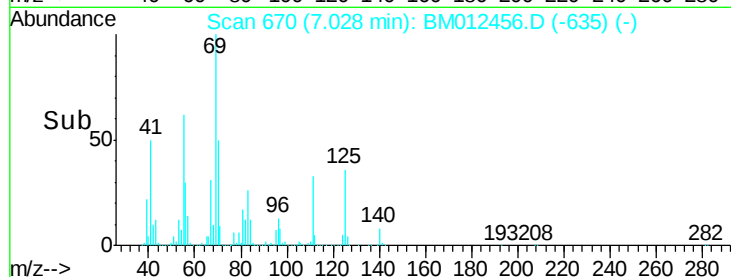
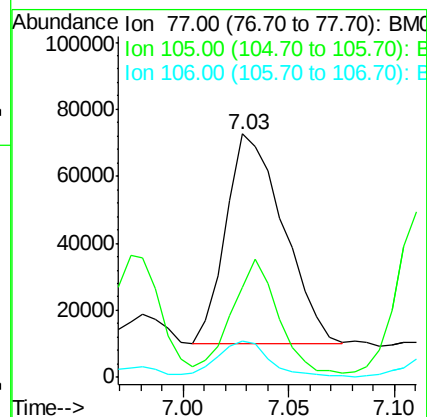
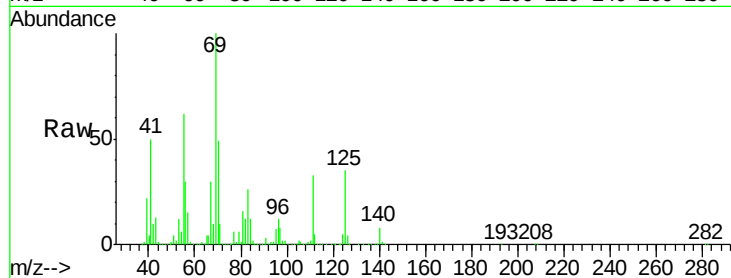
Tot Ion: 77 Resp: 117687

Ion Ratio Lower Upper

77 100

105 37.1 66.1 99.1#

106 15.1 67.8 101.6#



#6

Phenol

Concen: 2.91 ng/ul

RT: 7.08 min Scan# 678

Delta R.T. -0.01 min

Lab File: BM012456.D

Acq: 25 Oct 2017 22:24

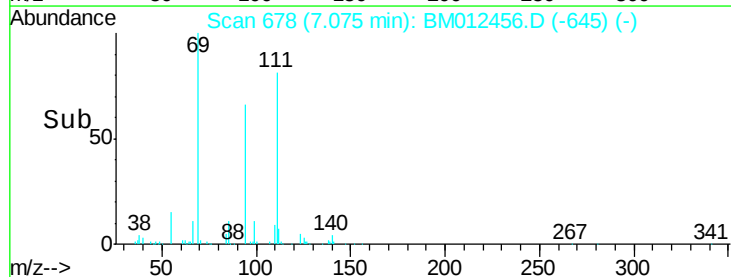
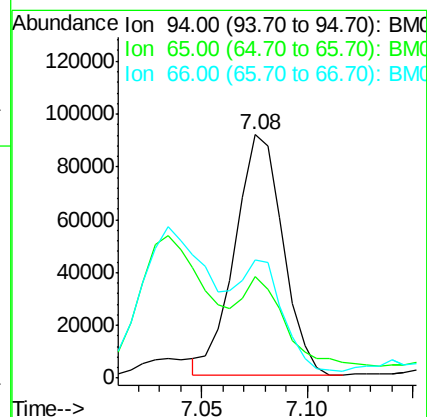
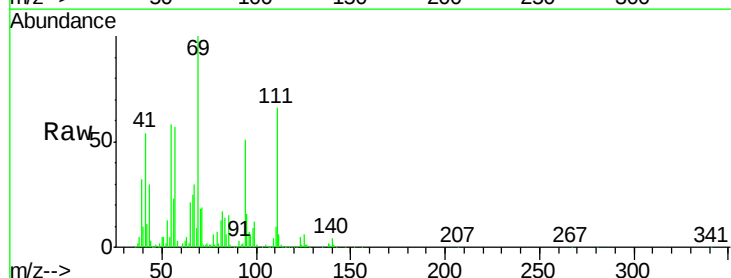
Tgt Ion: 94 Resp: 144472

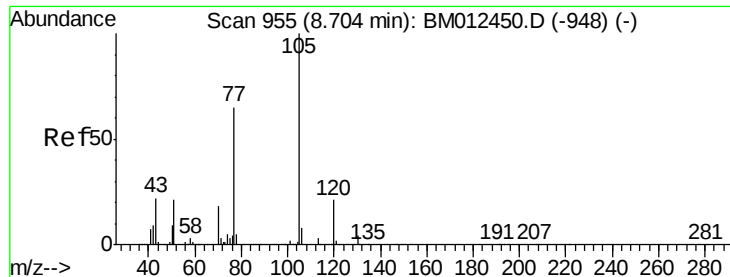
Ion Ratio Lower Upper

94 100

65 41.7 28.2 42.4

66 48.3 47.2 70.8





#14

Acetophenone

Concen: 1.74 ng/ul

RT: 8.69 min Scan# 952

Delta R.T. -0.02 min

Lab File: BM012456.D

Acq: 25 Oct 2017 22:24

Instrument :

BNA\_M

ClientSampleId :

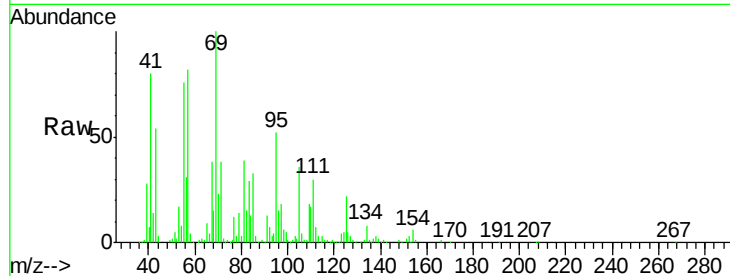
Tot Ion:105 Resp: 111373

Ion Ratio Lower Upper

105 100

77 33.0 74.2 111.4#

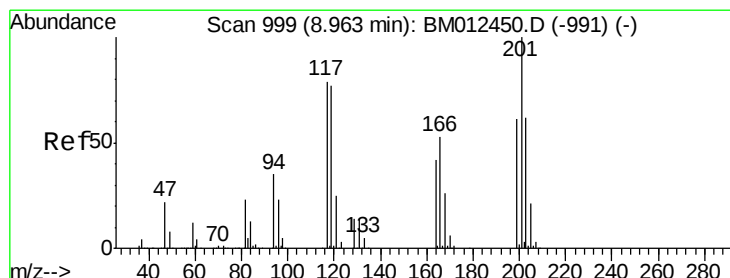
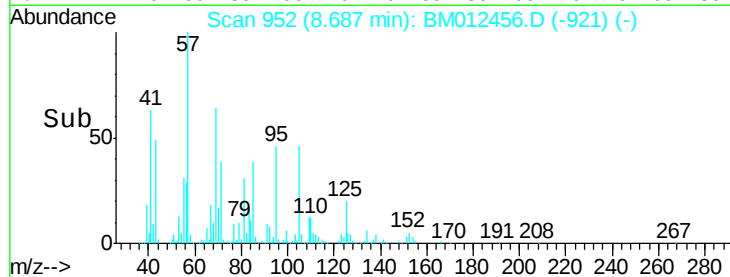
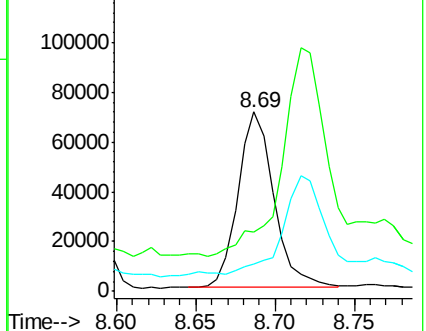
51 15.1 23.4 35.2#



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BM0

Ion 51.00 (50.70 to 51.70): BM0



#17

Hexachloroethane

Concen: 45.63 ng/ul

RT: 8.99 min Scan# 1004

Delta R.T. 0.03 min

Lab File: BM012456.D

Acq: 25 Oct 2017 22:24

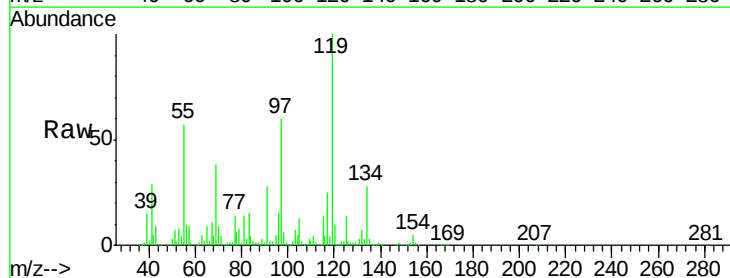
Tgt Ion:117 Resp: 707653

Ion Ratio Lower Upper

117 100

201 0.0 111.6 167.4#

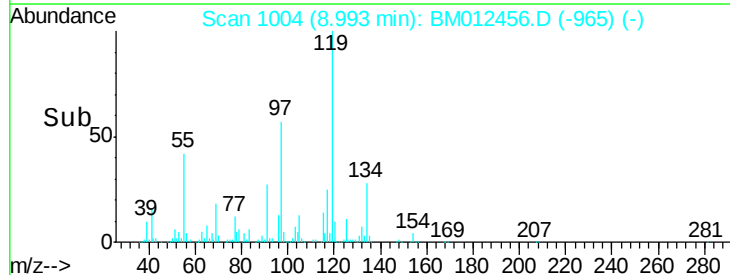
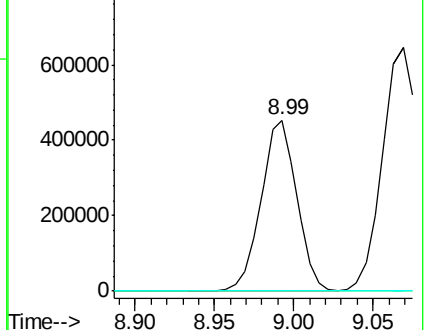
199 0.0 67.8 101.6#

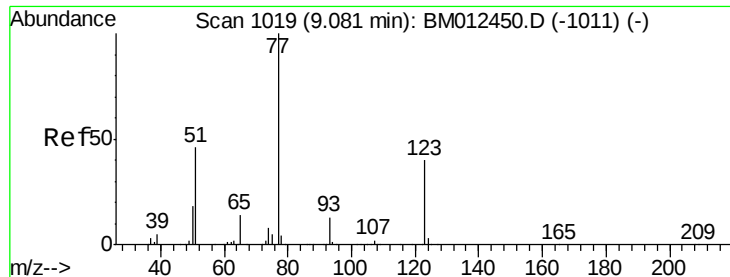


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E

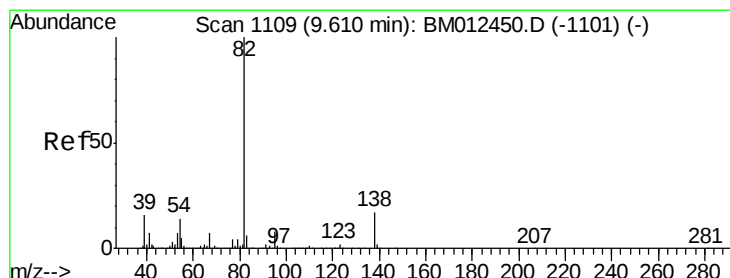
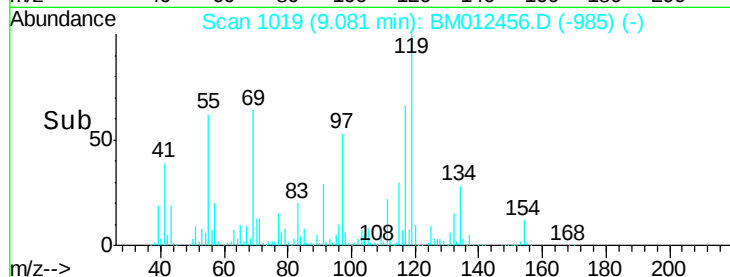
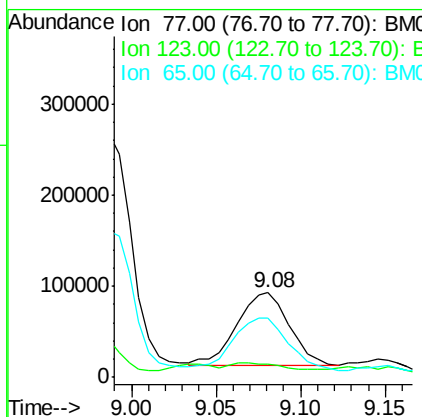
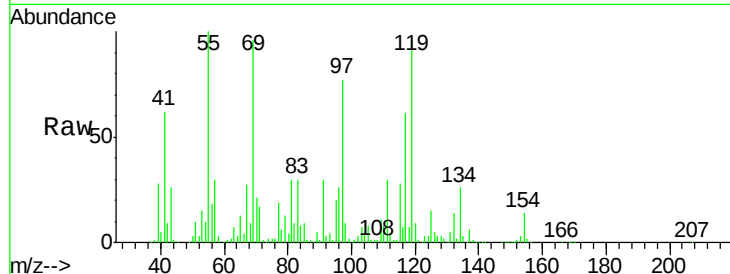




#20  
Nitrobenzene  
Concen: 4.02 ng/ul  
RT: 9.08 min Scan# 1019  
Delta R.T. 0.00 min  
Lab File: BM012456.D  
Acq: 25 Oct 2017 22:24

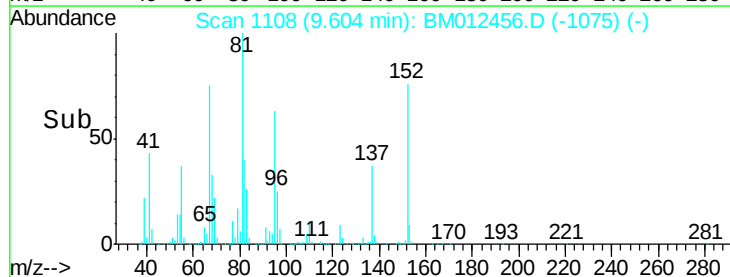
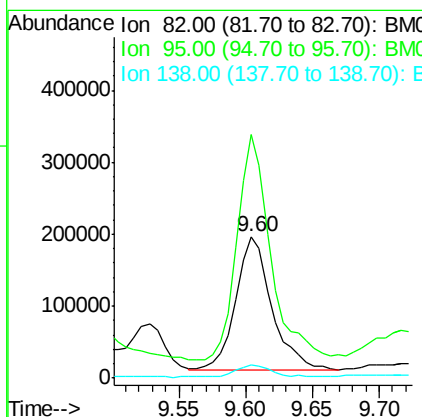
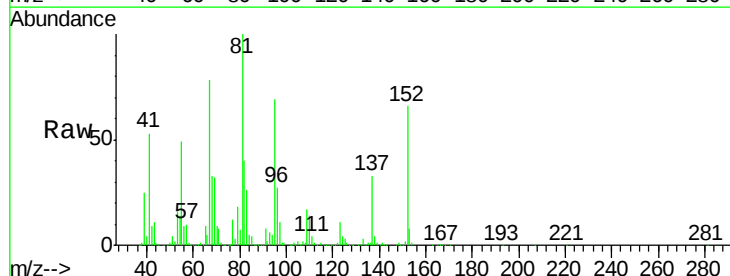
Instrument :  
BNA\_M  
ClientSampleId :

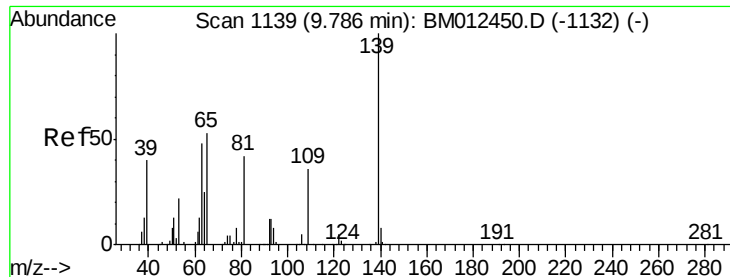
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 16.4  | 31.0  | 46.6# |
| 65      | 70.2  | 12.2  | 18.2# |



#21  
Isophorone  
Concen: 3.73 ng/ul  
RT: 9.60 min Scan# 1108  
Delta R.T. -0.01 min  
Lab File: BM012456.D  
Acq: 25 Oct 2017 22:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 172.4 | 7.8   | 11.8# |
| 138     | 9.3   | 11.9  | 17.9# |

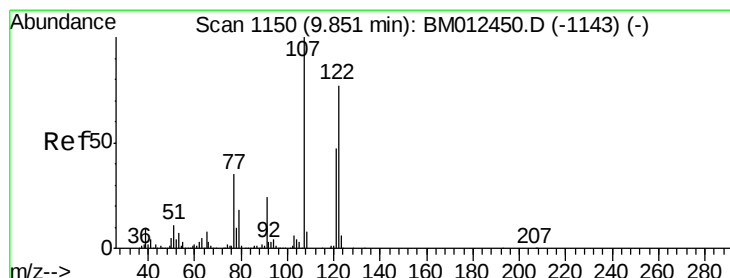
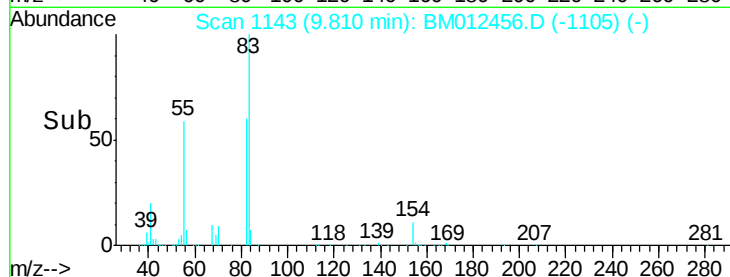
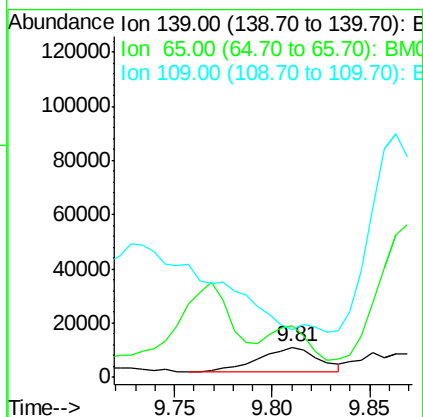
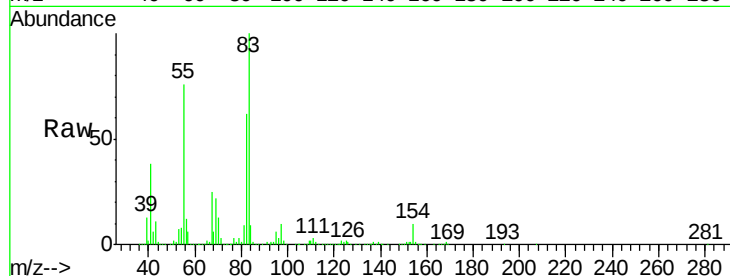




#23  
2-Nitrophenol  
Concen: 1.10 ng/ul  
RT: 9.81 min Scan# 1143  
Delta R.T. 0.02 min  
Lab File: BM012456.D  
Acq: 25 Oct 2017 22:24

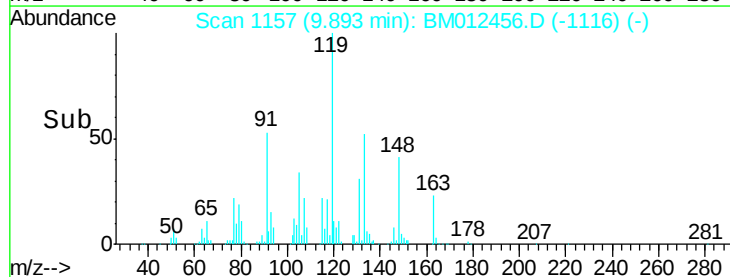
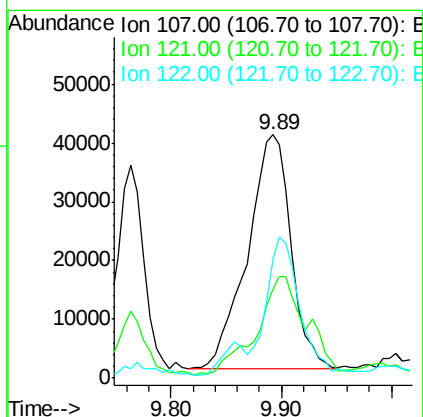
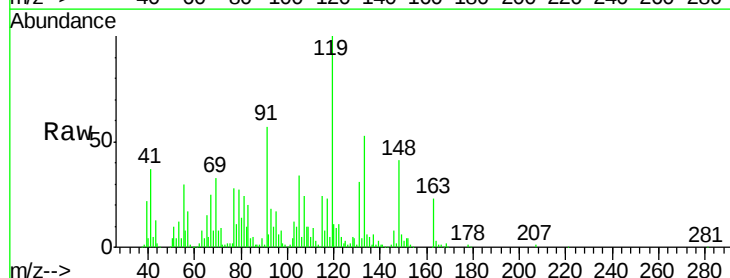
Instrument :  
BNA\_M  
ClientSampled :

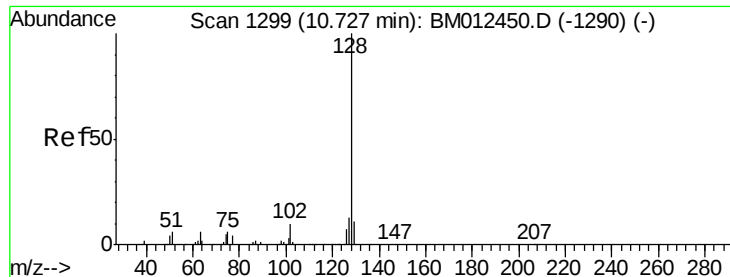
Tot Ion:139 Resp: 18910  
Ion Ratio Lower Upper  
139 100  
65 170.8 55.4 83.0#  
109 157.5 42.2 63.2#



#24  
2,4-Dimethylphenol  
Concen: 2.28 ng/ul  
RT: 9.89 min Scan# 1157  
Delta R.T. 0.04 min  
Lab File: BM012456.D  
Acq: 25 Oct 2017 22:24

Tgt Ion:107 Resp: 110238  
Ion Ratio Lower Upper  
107 100  
121 36.3 31.9 47.9  
122 48.7 57.8 86.6#





#28

Naphthalene

Concen: 1.12 ng/ul

RT: 10.73 min Scan# 1299

Delta R.T. 0.00 min

Lab File: BM012456.D

Acq: 25 Oct 2017 22:24

Instrument :

BNA\_M

ClientSampled :

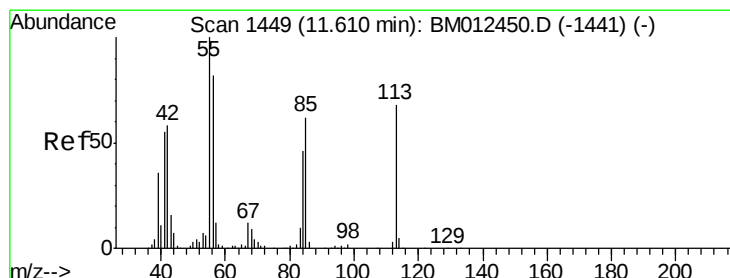
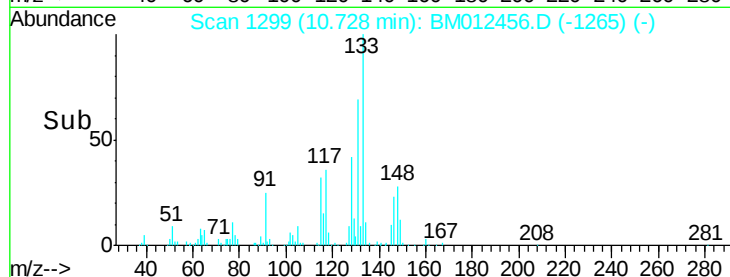
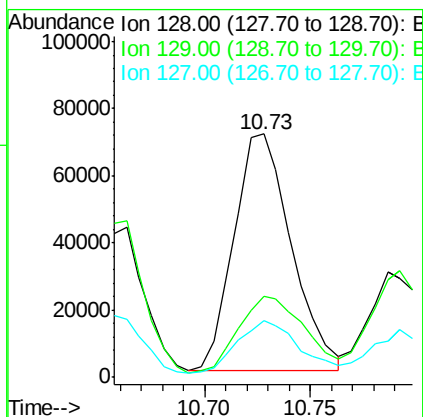
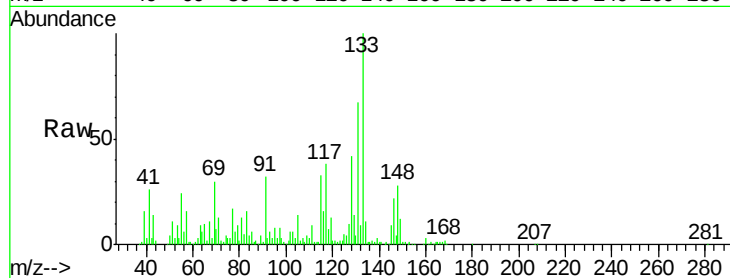
Tot Ion:128 Resp: 133660

Ion Ratio Lower Upper

128 100

129 33.2 8.8 13.2#

127 23.4 10.6 16.0#



#32

Caprolactam

Concen: 5.99 ng/ul

RT: 11.71 min Scan# 1466

Delta R.T. 0.10 min

Lab File: BM012456.D

Acq: 25 Oct 2017 22:24

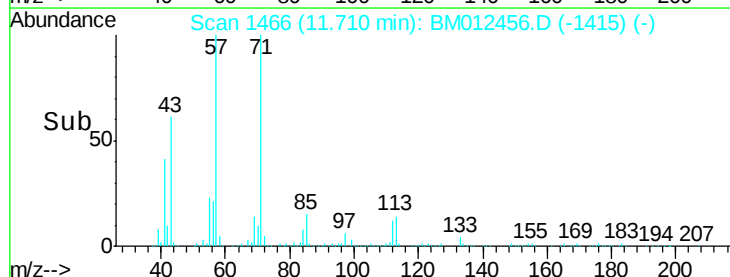
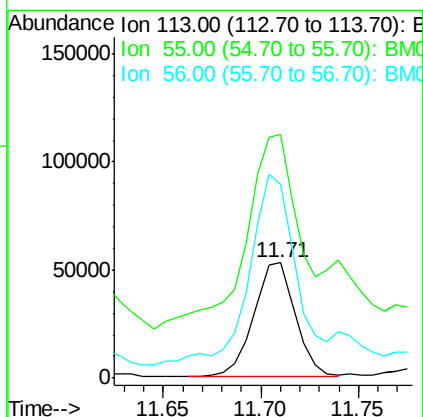
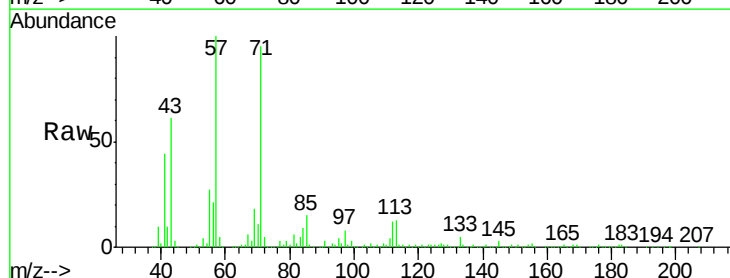
Tgt Ion:113 Resp: 77600

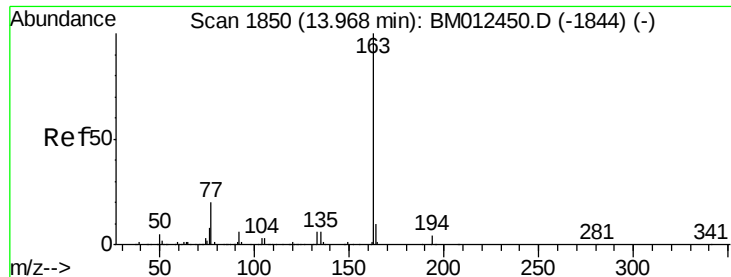
Ion Ratio Lower Upper

113 100

55 210.8 208.0 312.0

56 167.7 160.0 240.0

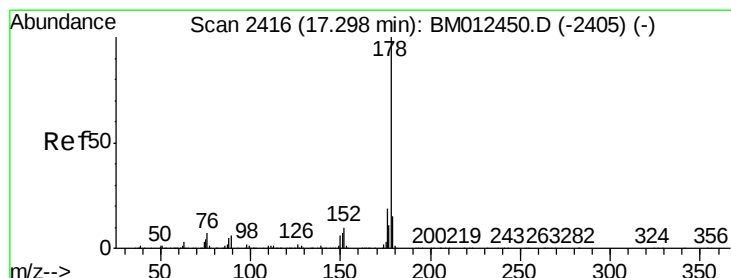
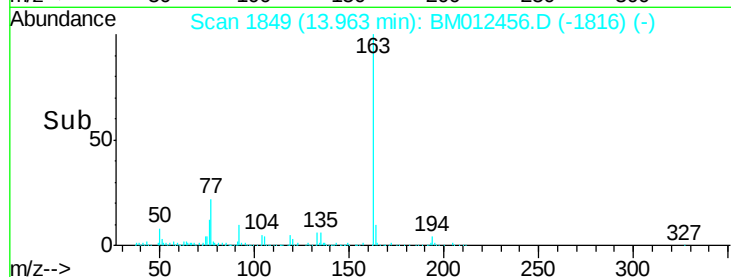
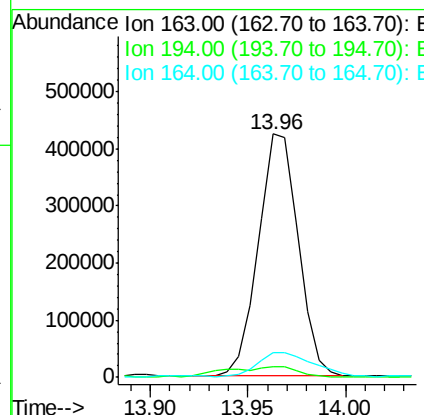
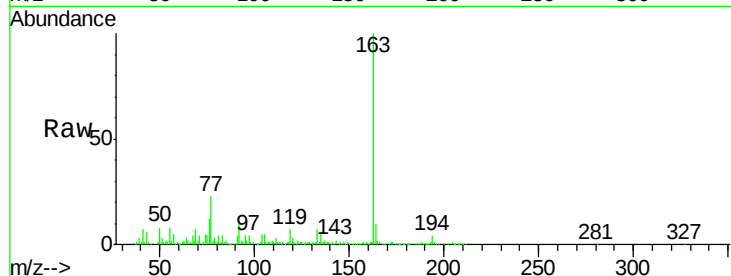




#44  
Dimethylphthalate  
Concen: 4.65 ng/ul  
RT: 13.96 min Scan# 1849  
Delta R.T. -0.01 min  
Lab File: BM012456.D  
Acq: 25 Oct 2017 22:24

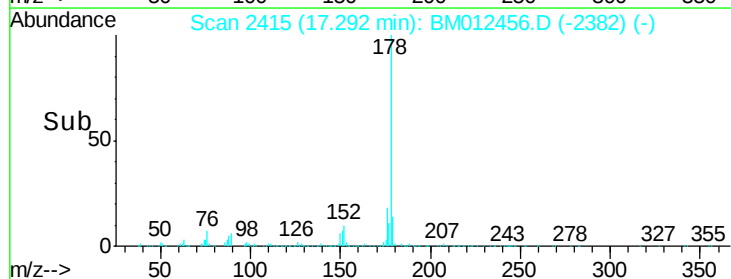
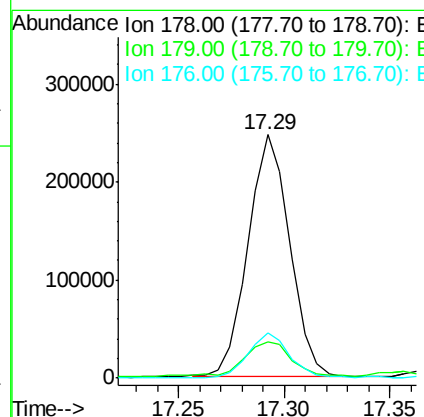
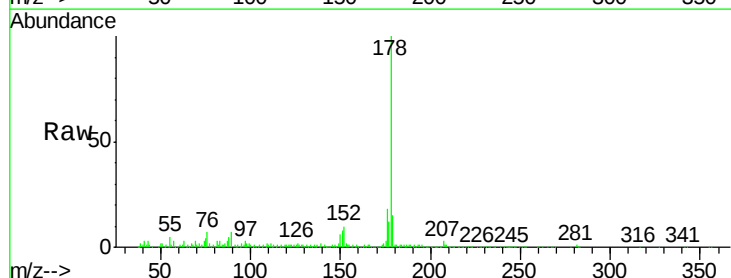
Instrument :  
BNA\_M  
ClientSampleId :

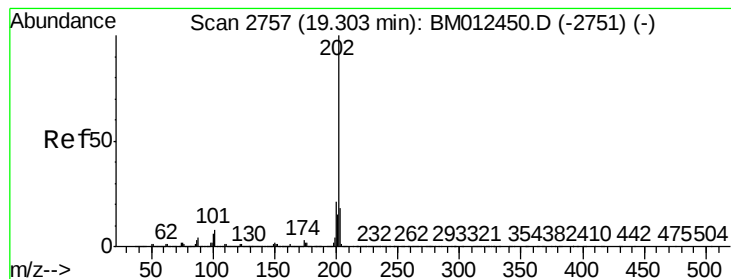
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.3   | 3.5   | 5.3   |
| 164     | 10.2  | 8.2   | 12.4  |



#69  
Phenanthrene  
Concen: 1.93 ng/ul  
RT: 17.29 min Scan# 2415  
Delta R.T. -0.01 min  
Lab File: BM012456.D  
Acq: 25 Oct 2017 22:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.1  | 12.6  | 19.0  |
| 176     | 18.4  | 14.9  | 22.3  |





#74

Fluoranthene

Concen: 2.72 ng/ul

RT: 19.30 min Scan# 2757

Delta R.T. 0.00 min

Lab File: BM012456.D

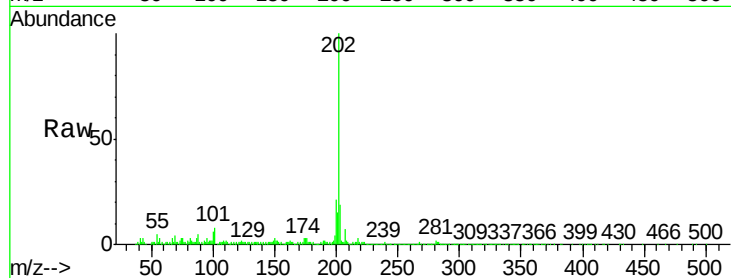
Acq: 25 Oct 2017 22:24

Instrument :

BNA\_M

ClientSampleId :

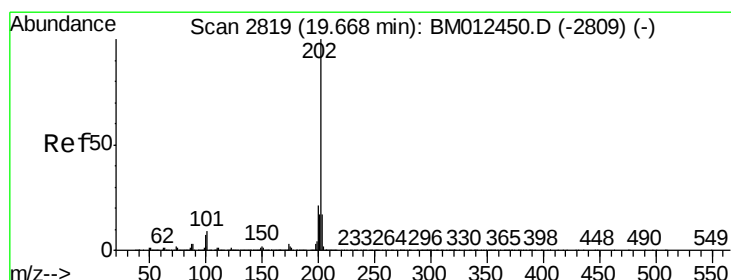
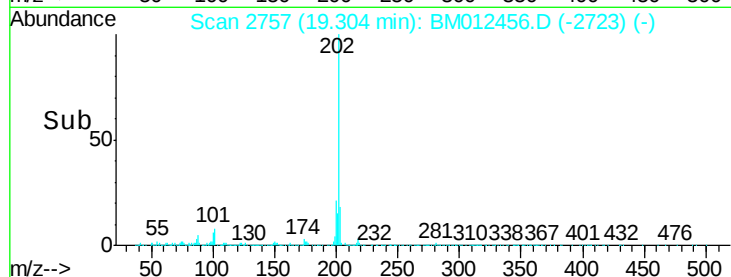
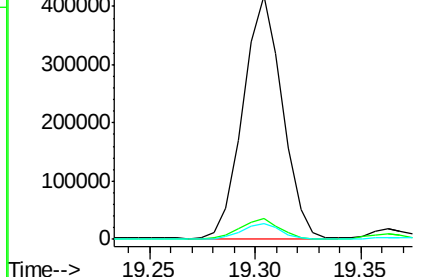
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 538384 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 8.4   | 4.6   | 7.0#   |
| 100       | 6.3   | 3.4   | 5.2#   |



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 3.57 ng/ul

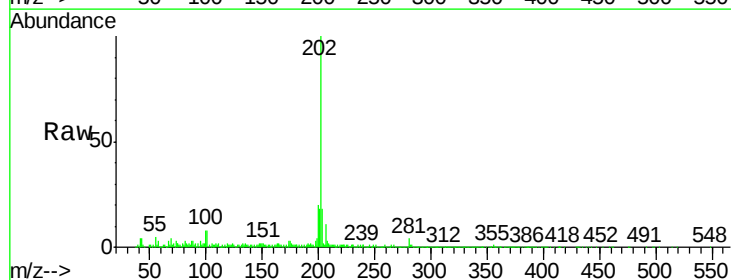
RT: 19.67 min Scan# 2819

Delta R.T. 0.00 min

Lab File: BM012456.D

Acq: 25 Oct 2017 22:24

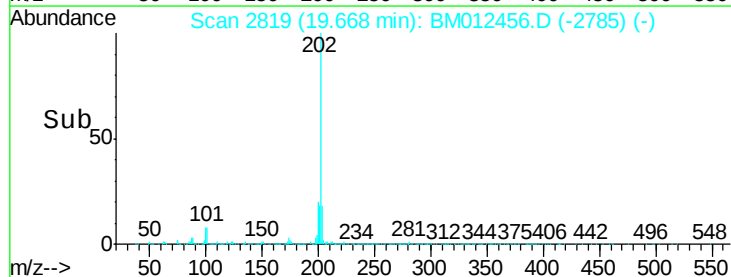
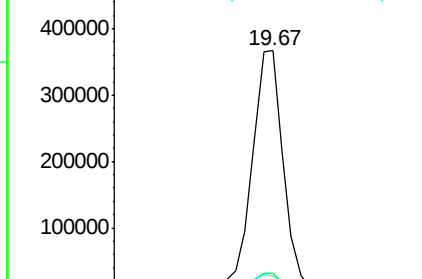
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 512475 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 8.5   | 5.1   | 7.7#   |
| 100       | 7.8   | 4.9   | 7.3#   |

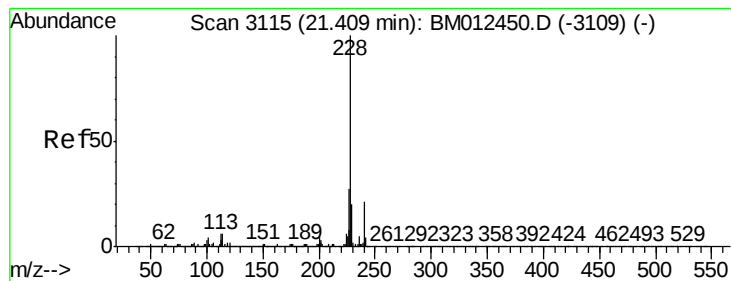


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#80

Benzo(a)anthracene

Concen: 1.85 ng/ul

RT: 21.40 min Scan# 3114

Delta R.T. -0.01 min

Lab File: BM012456.D

Acq: 25 Oct 2017 22:24

Instrument :

BNA\_M

ClientSampled :

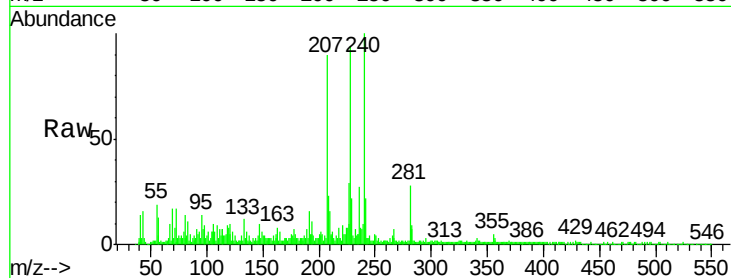
Tot Ion:228 Resp: 278959

Ion Ratio Lower Upper

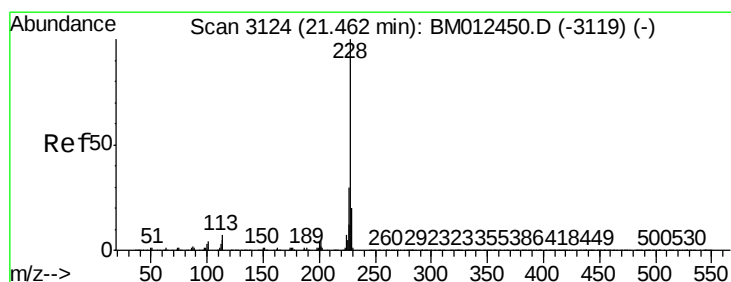
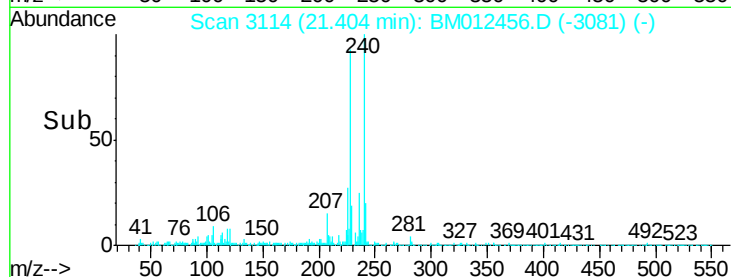
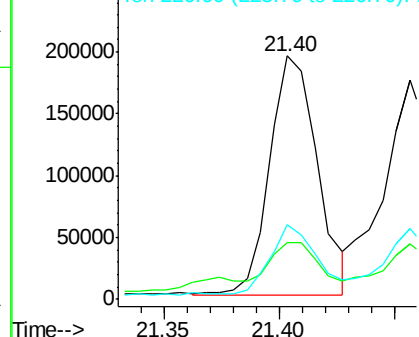
228 100

229 23.2 15.4 23.0#

226 30.8 21.4 32.0



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E



#82

Chrysene

Concen: 2.08 ng/ul

RT: 21.40 min Scan# 3114

Delta R.T. -0.06 min

Lab File: BM012456.D

Acq: 25 Oct 2017 22:24

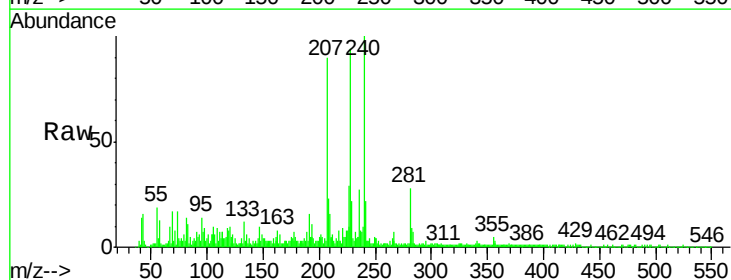
Tgt Ion:228 Resp: 278959

Ion Ratio Lower Upper

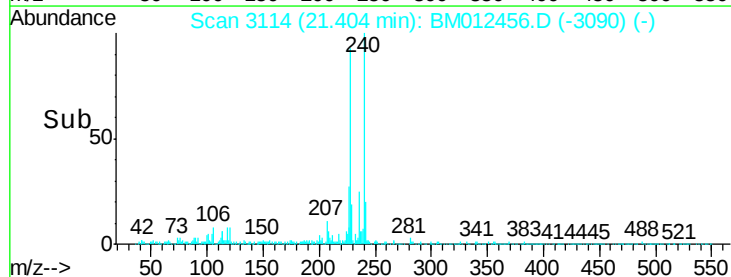
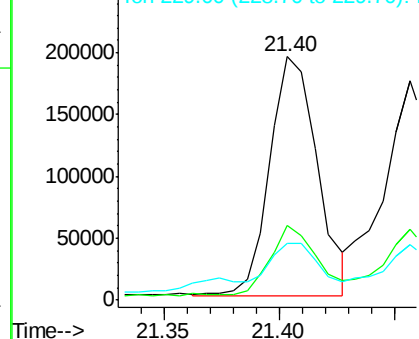
228 100

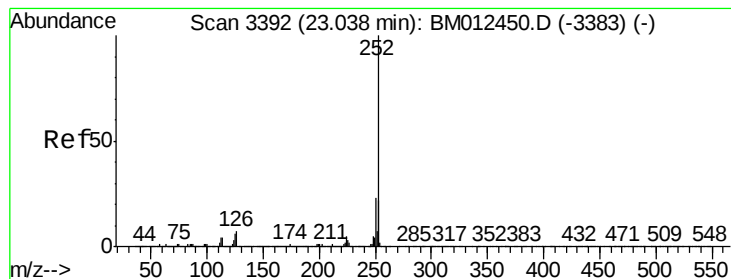
226 30.8 23.4 35.2

229 23.2 15.5 23.3



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





#85

Benzo(b)fluoranthene

Concen: 2.03 ng/ul

RT: 23.03 min Scan# 3391

Delta R.T. -0.01 min

Lab File: BM012456.D

Acq: 25 Oct 2017 22:24

Instrument :

BNA\_M

ClientSampleId :

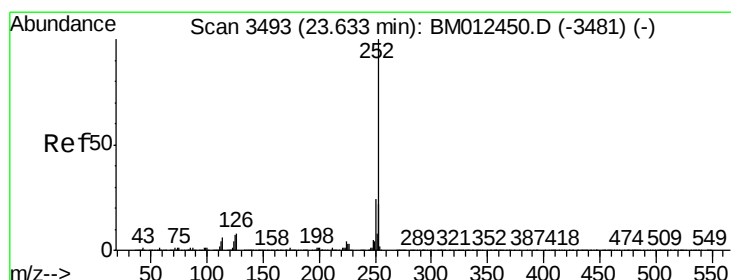
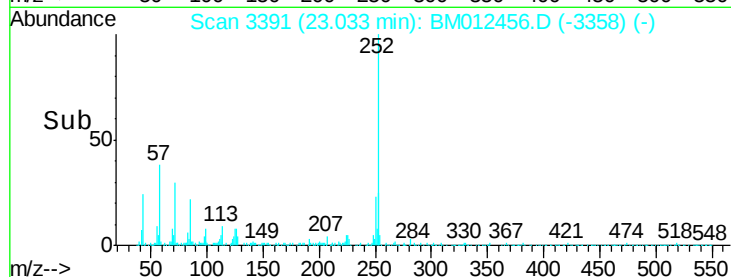
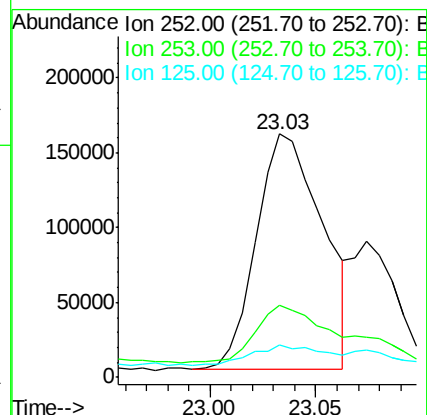
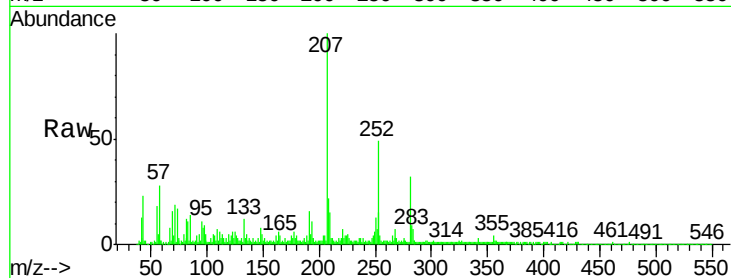
Tot Ion:252 Resp: 344186

Ion Ratio Lower Upper

252 100

253 29.4 17.9 26.9#

125 13.1 3.6 5.4#



#88

Benzo(a)pyrene

Concen: 1.72 ng/ul

RT: 23.63 min Scan# 3493

Delta R.T. 0.00 min

Lab File: BM012456.D

Acq: 25 Oct 2017 22:24

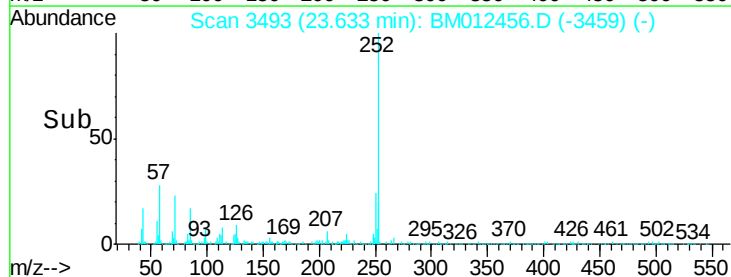
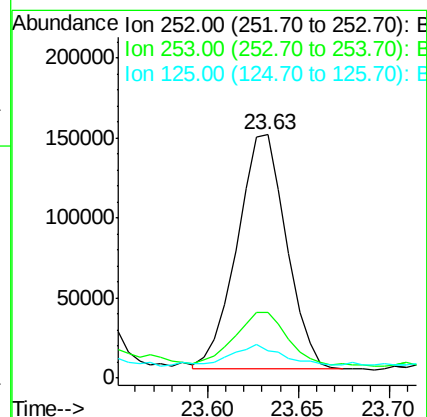
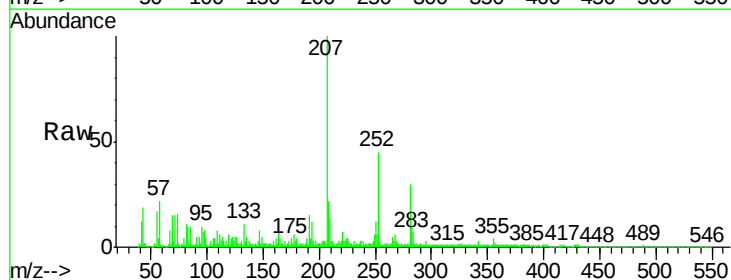
Tgt Ion:252 Resp: 277595

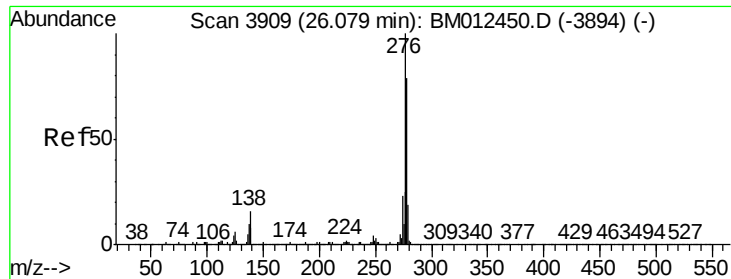
Ion Ratio Lower Upper

252 100

253 27.0 18.2 27.2

125 11.0 4.0 6.0#





#89

Indeno(1,2,3-cd)pyrene

Concen: 1.03 ng/ul

RT: 26.07 min Scan# 3908

Delta R.T. -0.01 min

Lab File: BM012456.D

Acq: 25 Oct 2017 22:24

Instrument :

BNA\_M

ClientSampleId :

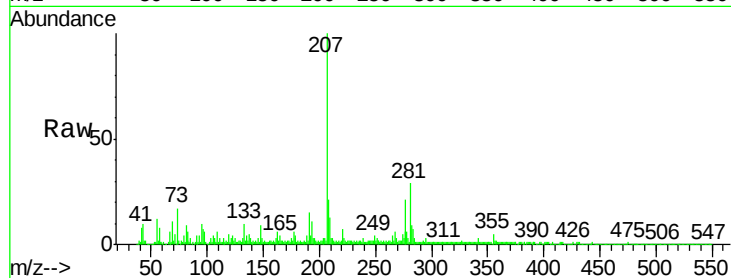
Tot Ion:276 Resp: 196123

Ion Ratio Lower Upper

276 100

138 16.6 9.3 13.9#

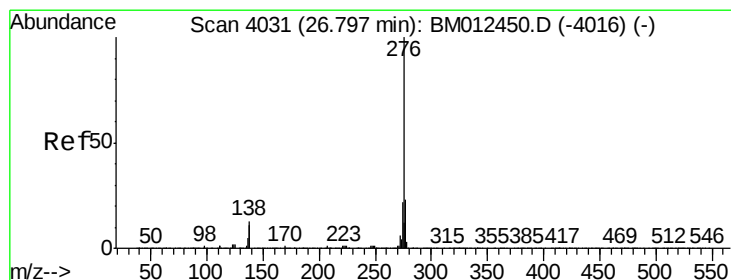
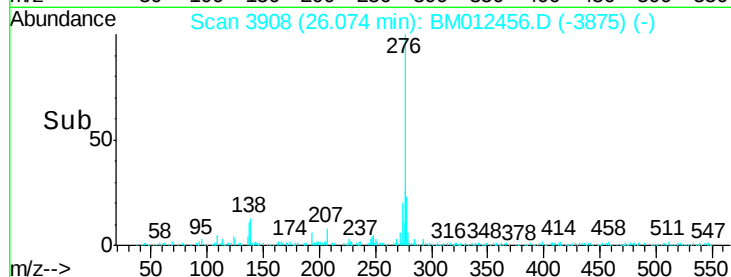
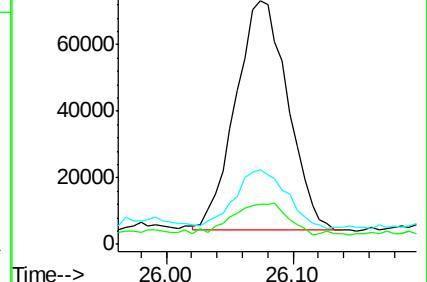
277 30.4 19.9 29.9#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#91

Benzo(g,h,i)perylene

Concen: 1.21 ng/ul

RT: 26.79 min Scan# 4030

Delta R.T. -0.01 min

Lab File: BM012456.D

Acq: 25 Oct 2017 22:24

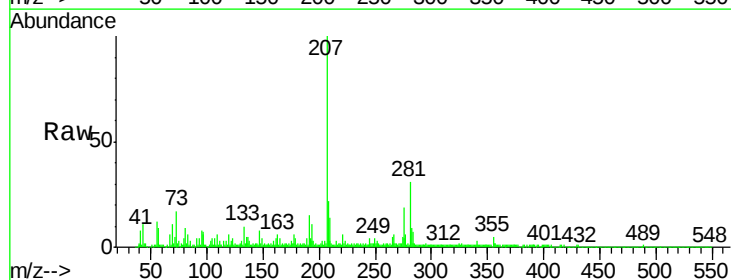
Tgt Ion:276 Resp: 186323

Ion Ratio Lower Upper

276 100

138 15.1 8.5 12.7#

277 30.3 18.6 28.0#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

