

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM021417\  
 Data File : BM008994.D  
 Acq On : 14 Feb 2017 10:07  
 Operator : SJ/MA  
 Sample : I1781-05  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SVOC-GPC-BLANK

Quant Time: Feb 14 12:40:15 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM020817.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Feb 14 00:06:01 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.90  | 152  | 231094   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.70 | 136  | 893309   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.54 | 164  | 604926   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.29 | 188  | 1268527  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.46 | 240  | 1561255  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.81 | 264  | 1512321  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.24  | 96  | 233     | 0.04  | ng/uL | -0.12 |
| 5) Phenol-d5                   | 0.00  | 99  | 0       | 0.00  | ng/ul |       |
| 7) Bis-(2-Chloroethyl)ether-d  | 0.00  | 67  | 0       | 0.00  | ng/ul |       |
| 9) 2-Chlorophenol-d4           | 0.00  | 132 | 0       | 0.00  | ng/ul |       |
| 13) 4-Methylphenol-d8          | 0.00  | 113 | 0       | 0.00  | ng/ul |       |
| 19) Nitrobenzene-d5            | 0.00  | 128 | 0       | 0.00  | ng/ul |       |
| 22) 2-Nitrophenol-d4           | 0.00  | 143 | 0       | 0.00  | ng/ul |       |
| 26) 2,4-Dichlorophenol-d3      | 0.00  | 165 | 0       | 0.00  | ng/ul |       |
| 29) 4-Chloroaniline-d4         | 10.73 | 131 | 166     | 0.01  | ng/ul | -0.12 |
| 43) Dimethylphthalate-d6       | 0.00  | 166 | 0       | 0.00  | ng/ul |       |
| 46) Acenaphthylene-d8          | 14.24 | 160 | 226     | 0.00  | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 0.00  | 143 | 0       | 0.00  | ng/ul |       |
| 57) Fluorene-d10               | 15.54 | 176 | 2967    | 0.08  | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 0.00  | 200 | 0       | 0.00  | ng/ul |       |
| 70) Anthracene-d10             | 17.29 | 188 | 1268527 | 21.26 | ng/ul | -0.10 |
| 76) Pyrene-d10                 | 19.70 | 212 | 465     | 0.01  | ng/ul | 0.02  |
| 87) Benzo(a)pyrene-d12         | 23.81 | 264 | 1468300 | 21.54 | ng/ul | 0.15  |

## Target Compounds

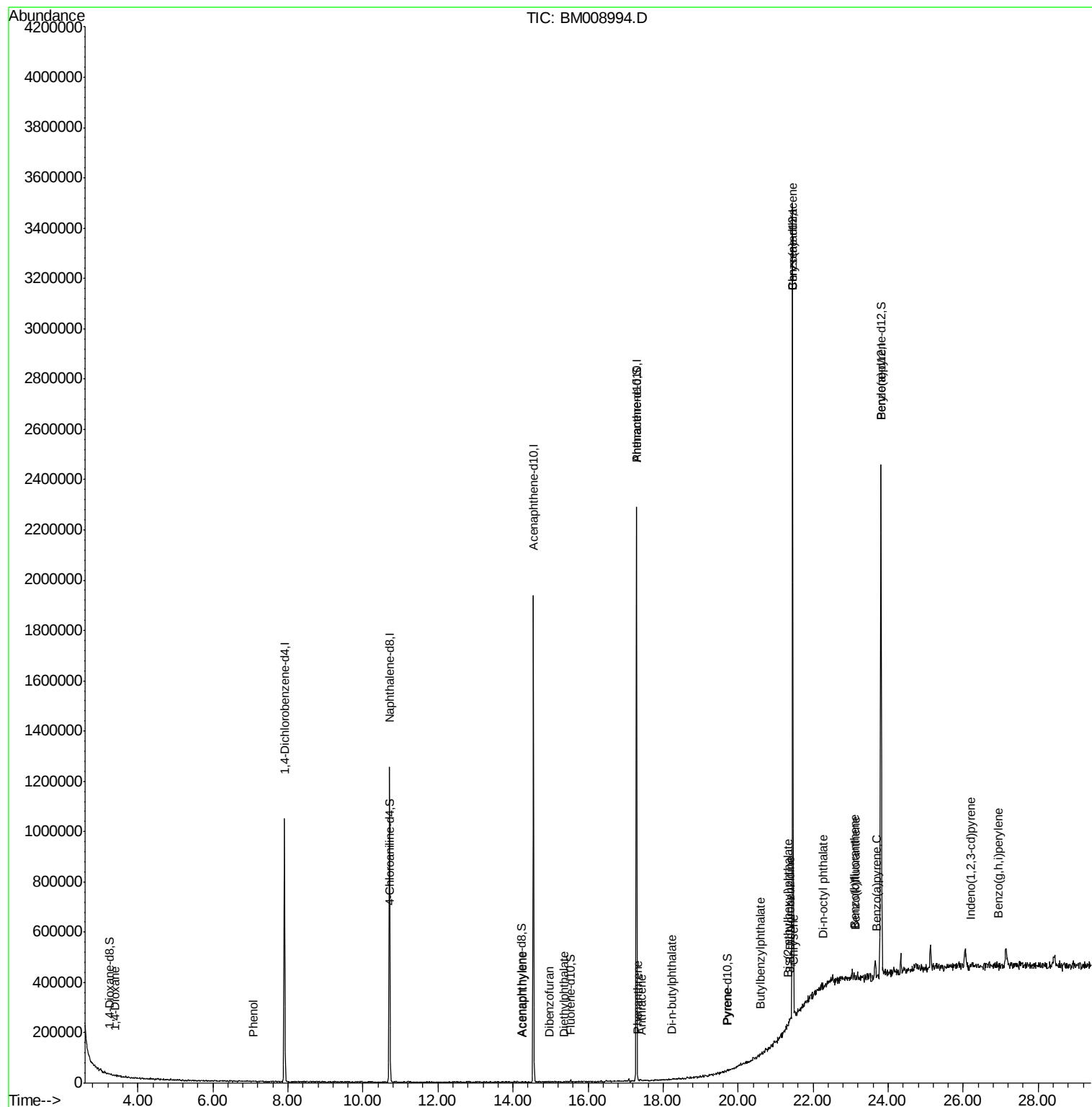
|                                |       |     |      |      |        | Qvalue |
|--------------------------------|-------|-----|------|------|--------|--------|
| 2) 1,4-Dioxane                 | 3.40  | 88  | 391  | 0.06 | ng/ul# | 3      |
| 6) Phenol                      | 7.08  | 94  | 126  | 0.01 | ng/ul# | 14     |
| 47) Acenaphthylene             | 14.27 | 152 | 549  | 0.01 | ng/ul# | 61     |
| 53) Dibenzofuran               | 14.95 | 168 | 339  | 0.01 | ng/ul# | 32     |
| 56) Diethylphthalate           | 15.36 | 149 | 270  | 0.01 | ng/ul# | 59     |
| 69) Phenanthrene               | 17.33 | 178 | 419  | 0.01 | ng/ul# | 59     |
| 71) Anthracene                 | 17.43 | 178 | 591  | 0.01 | ng/ul# | 59     |
| 73) Di-n-butylphthalate        | 18.24 | 149 | 469  | 0.01 | ng/ul# | 76     |
| 77) Pyrene                     | 19.70 | 202 | 454  | 0.01 | ng/ul# | 78     |
| 78) Butylbenzylphthalate       | 20.60 | 149 | 308  | 0.01 | ng/ul# | 10     |
| 79) 3,3'-Dichlorobenzidine     | 21.39 | 252 | 1662 | 0.06 | ng/ul# | 25     |
| 80) Benzo(a)anthracene         | 21.46 | 228 | 4974 | 0.06 | ng/ul# | 68     |
| 81) Bis(2-ethylhexyl)phthalate | 21.34 | 149 | 773  | 0.02 | ng/ul# | 47     |
| 82) Chrysene                   | 21.50 | 228 | 570  | 0.01 | ng/ul# | 50     |
| 84) Di-n-octyl phthalate       | 22.26 | 149 | 808  | 0.01 | ng/ul# | 7      |
| 85) Benzo(b)fluoranthene       | 23.10 | 252 | 833  | 0.01 | ng/ul# | 1      |
| 86) Benzo(k)fluoranthene       | 23.14 | 252 | 388  | 0.00 | ng/ul# | 1      |
| 88) Benzo(a)pyrene             | 23.70 | 252 | 2033 | 0.02 | ng/ul# | 25     |
| 89) Indeno(1,2,3-cd)pyrene     | 26.21 | 276 | 284  | 0.00 | ng/ul# | 1      |
| 91) Benzo(g,h,i)perylene       | 26.94 | 276 | 107  | 0.00 | ng/ul# | 58     |

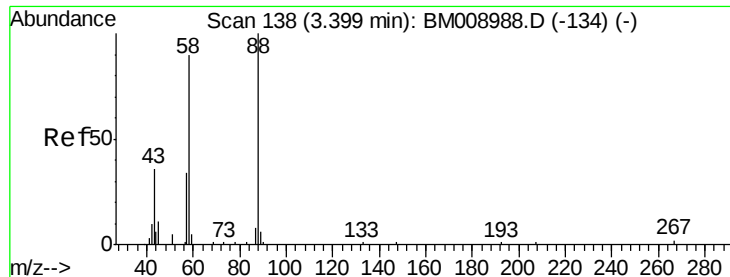
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SVOA CALIBRATION  
QLast Update : Tue Feb 14 00:06:01 2017  
Response via : Initial Calibration





#2

1,4-Dioxane

Concen: 0.06 ng/uL

RT: 3.40 min Scan# 139

Delta R.T. 0.01 min

Lab File: BM008994.D

Acq: 14 Feb 2017 10:07

Instrument :

BNA\_M

ClientSampleId :

SVOC-GPC-BLANK

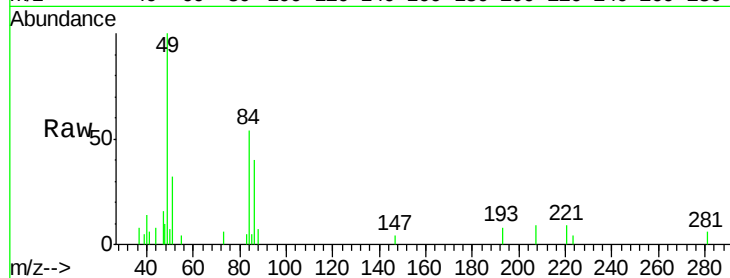
Tgt Ion: 88 Resp: 391

Ion Ratio Lower Upper

88 100

43 0.0 59.0 88.4#

58 0.0 87.4 131.2#



Abundance Ion 88.00 (87.70 to 88.70): BM008988.D (-134) (-)

Ion 43.00 (42.70 to 43.70): BM008988.D (-134) (-)

Ion 58.00 (57.70 to 58.70): BM008988.D (-134) (-)

Time-->

3.39 3.40 3.41 3.42

3.40

600

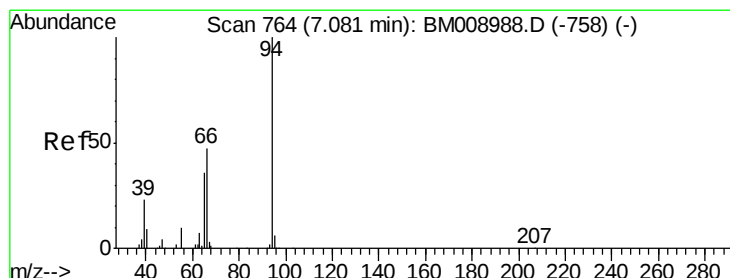
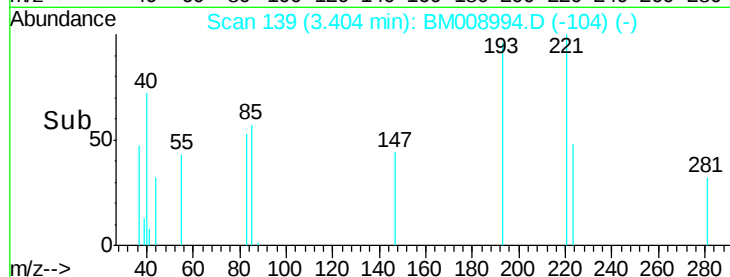
400

200

0

Time-->

3.39 3.40 3.41 3.42



#6

Phenol

Concen: 0.01 ng/uL

RT: 7.08 min Scan# 764

Delta R.T. 0.00 min

Lab File: BM008994.D

Acq: 14 Feb 2017 10:07

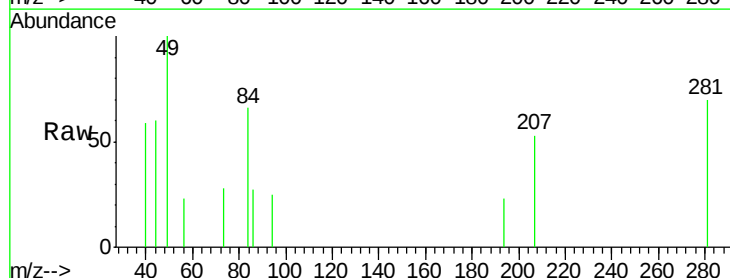
Tgt Ion: 94 Resp: 126

Ion Ratio Lower Upper

94 100

65 0.0 39.8 59.6#

66 0.0 69.9 104.9#



Abundance Ion 94.00 (93.70 to 94.70): BM008988.D (-758) (-)

Ion 65.00 (64.70 to 65.70): BM008988.D (-758) (-)

Ion 66.00 (65.70 to 66.70): BM008988.D (-758) (-)

Time-->

7.07 7.08 7.09 7.09

7.08

400

300

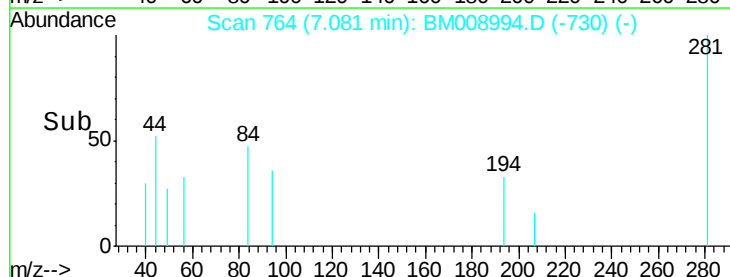
200

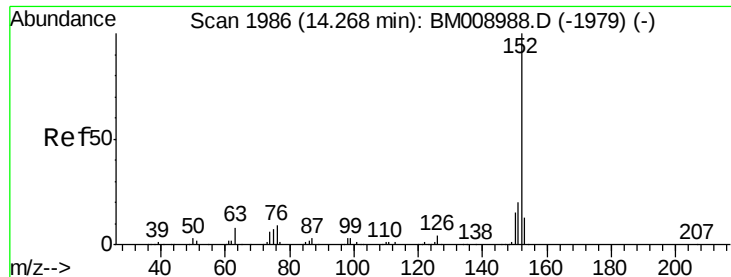
100

0

Time-->

7.07 7.08 7.09 7.09





#47

Acenaphthylene

Concen: 0.01 ng/ul

RT: 14.27 min Scan# 1987

Delta R.T. 0.01 min

Lab File: BM008994.D

Acq: 14 Feb 2017 10:07

Instrument :

BNA\_M

ClientSampleId :

SVOC-GPC-BLANK

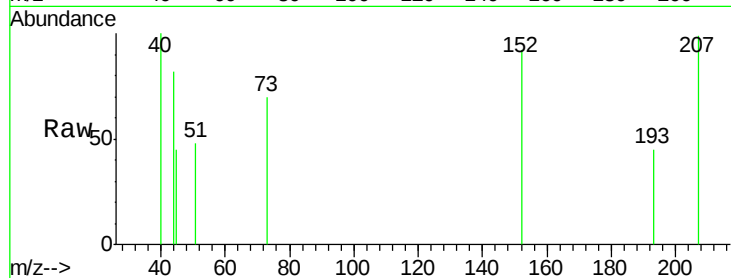
Tgt Ion:152 Resp: 549

Ion Ratio Lower Upper

152 100

151 0.0 15.8 23.6#

153 0.0 10.5 15.7#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

14.27

600

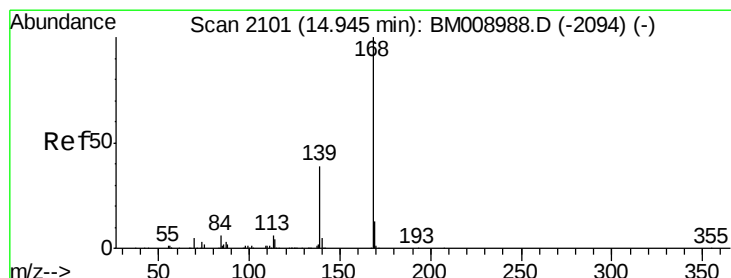
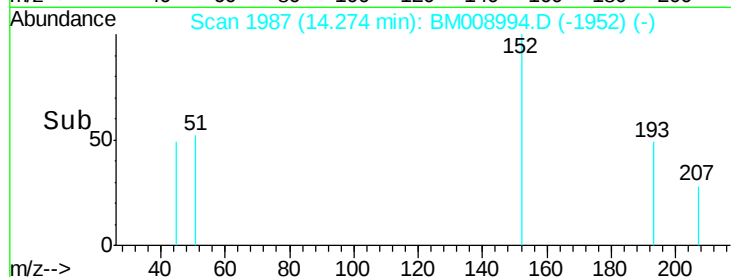
400

200

0

14.26 14.28

Time-->



#53

Dibenzofuran

Concen: 0.01 ng/ul

RT: 14.95 min Scan# 2102

Delta R.T. 0.01 min

Lab File: BM008994.D

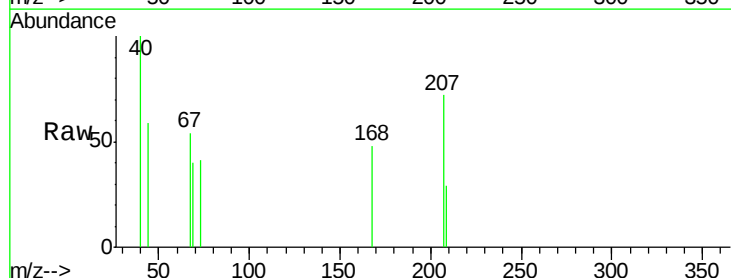
Acq: 14 Feb 2017 10:07

Tgt Ion:168 Resp: 339

Ion Ratio Lower Upper

168 100

139 0.0 35.6 53.4#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

14.95

500

400

300

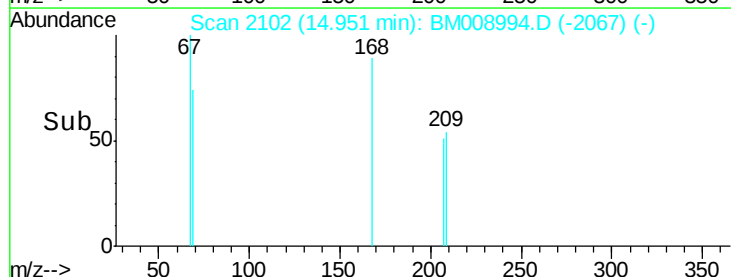
200

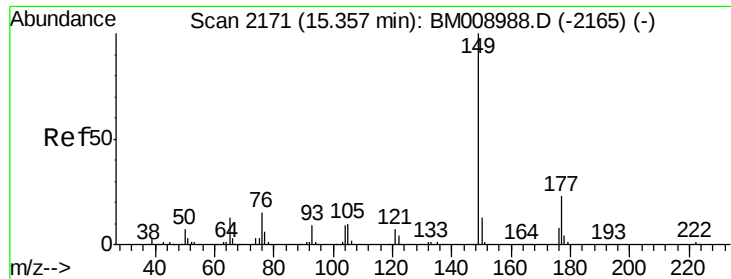
100

0

14.94 14.95 14.96

Time-->

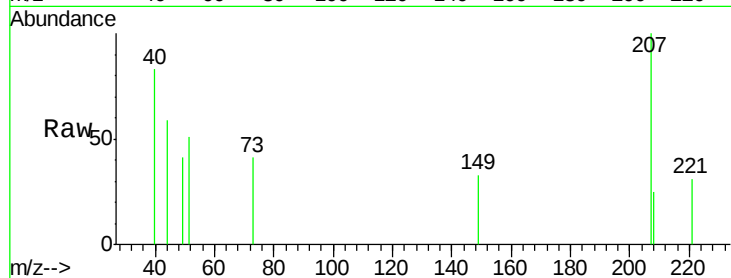




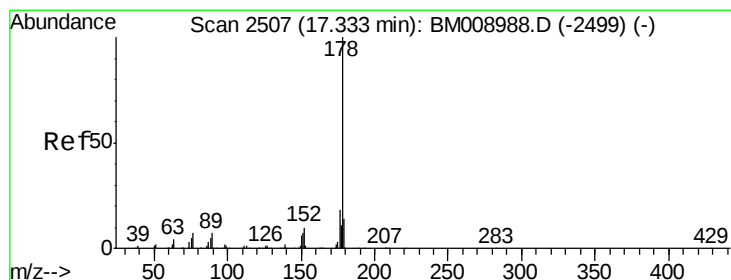
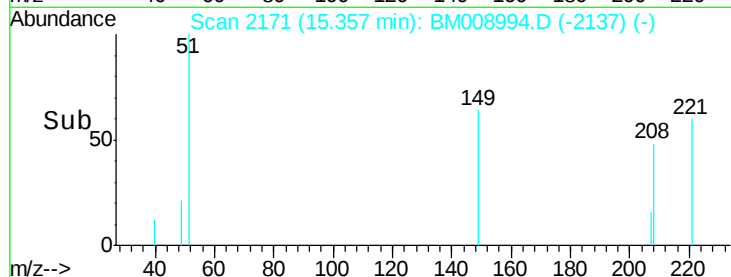
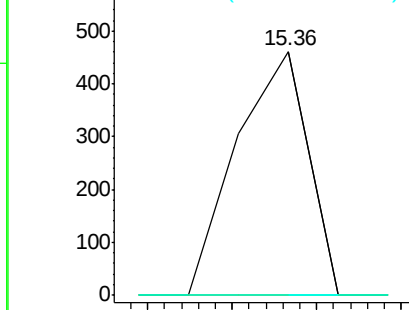
#56  
Diethylphthalate  
Concen: 0.01 ng/ul  
RT: 15.36 min Scan# 2171  
Delta R.T. 0.00 min  
Lab File: BM008994.D  
Acq: 14 Feb 2017 10:07

Instrument :  
BNA\_M  
ClientSampleId :  
SVOC-GPC-BLANK

Tgt Ion:149 Resp: 270  
Ion Ratio Lower Upper  
149 100  
177 0.0 17.3 25.9#  
150 0.0 11.0 16.6#

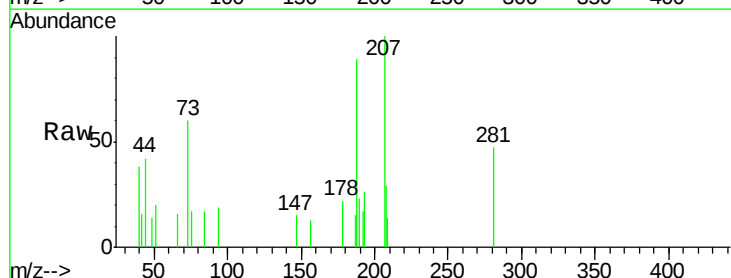


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 177.00 (176.70 to 177.70): E  
Ion 150.00 (149.70 to 150.70): E

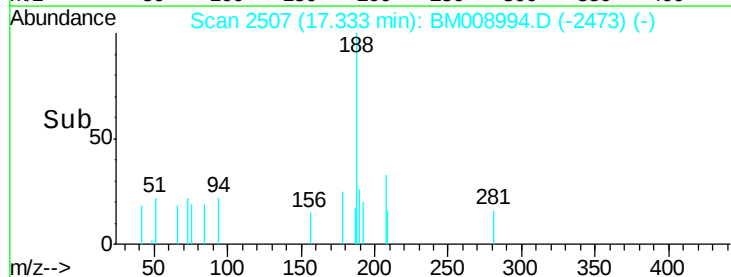
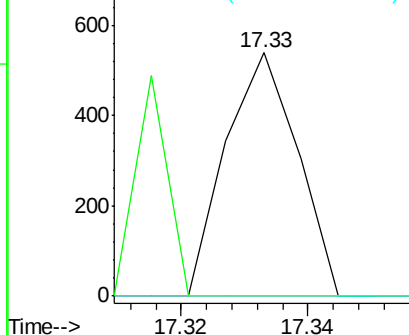


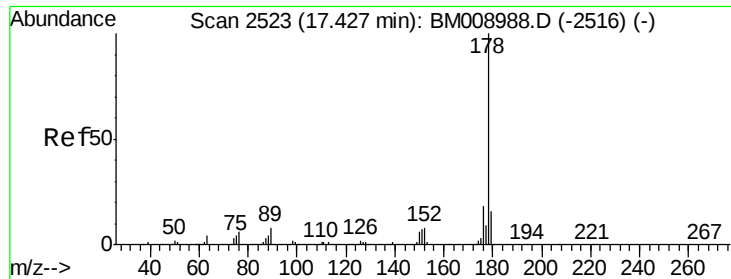
#69  
Phenanthrene  
Concen: 0.01 ng/ul  
RT: 17.33 min Scan# 2507  
Delta R.T. 0.00 min  
Lab File: BM008994.D  
Acq: 14 Feb 2017 10:07

Tgt Ion:178 Resp: 419  
Ion Ratio Lower Upper  
178 100  
179 0.0 12.6 19.0#  
176 0.0 15.8 23.6#



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





#71

Anthracene

Concen: 0.01 ng/ul

RT: 17.43 min Scan# 2523

Delta R.T. 0.00 min

Lab File: BM008994.D

Acq: 14 Feb 2017 10:07

Instrument :

BNA\_M

ClientSampleId :

SVOC-GPC-BLANK

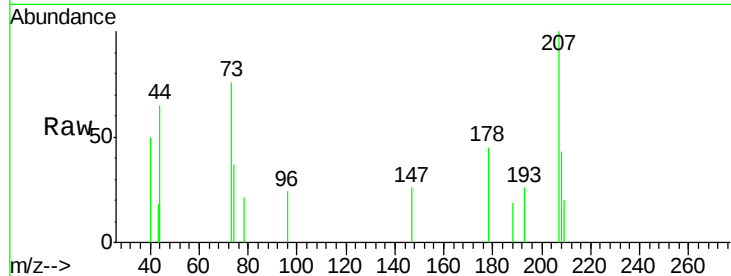
Tgt Ion:178 Resp: 591

Ion Ratio Lower Upper

178 100

179 0.0 13.1 19.7#

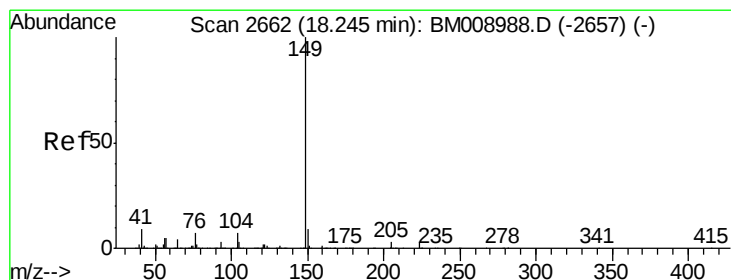
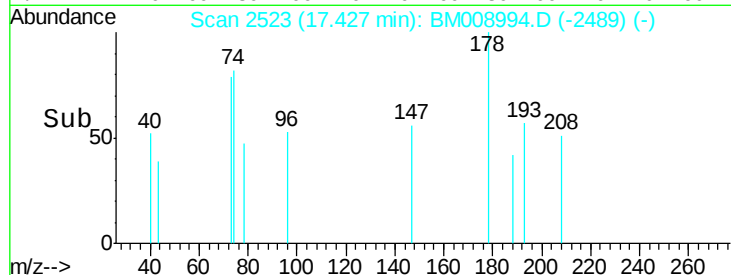
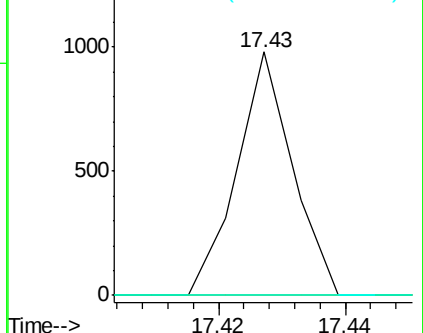
176 0.0 15.6 23.4#



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



#73

Di-n-butylphthalate

Concen: 0.01 ng/ul

RT: 18.24 min Scan# 2662

Delta R.T. 0.00 min

Lab File: BM008994.D

Acq: 14 Feb 2017 10:07

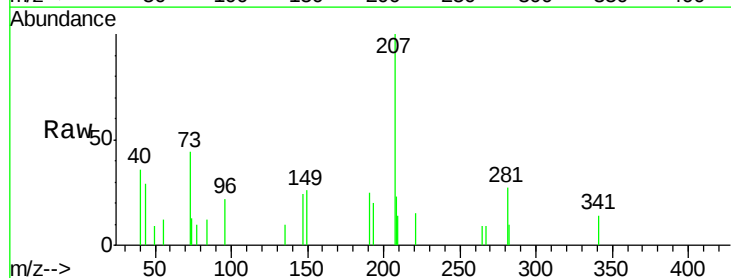
Tgt Ion:149 Resp: 469

Ion Ratio Lower Upper

149 100

150 0.0 7.1 10.7#

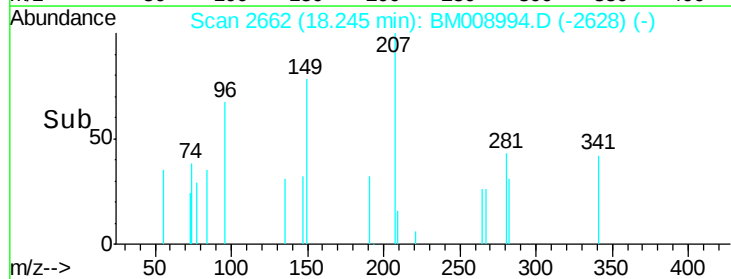
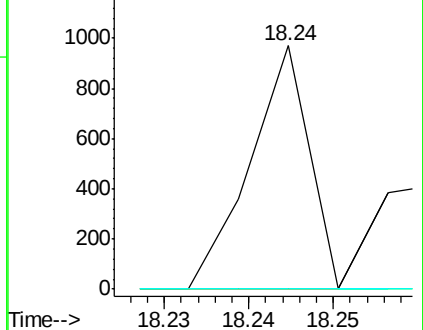
104 0.0 6.9 10.3#

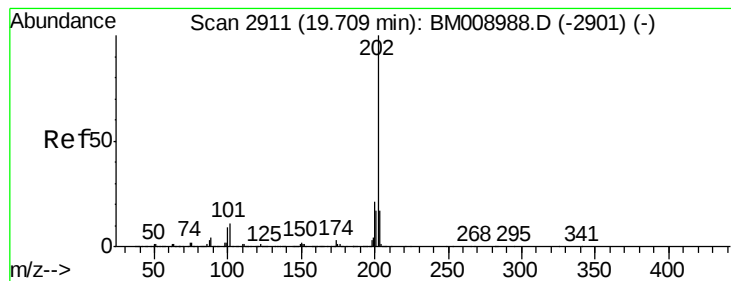


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#77

Pyrene

Concen: 0.01 ng/ul

RT: 19.70 min Scan# 2910

Delta R.T. -0.01 min

Lab File: BM008994.D

Acq: 14 Feb 2017 10:07

Instrument :

BNA\_M

ClientSampleId :

SVOC-GPC-BLANK

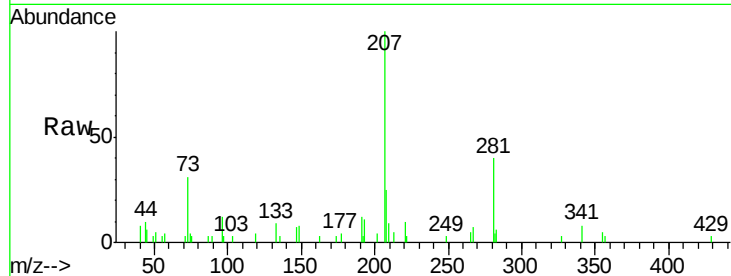
Tgt Ion:202 Resp: 454

Ion Ratio Lower Upper

202 100

101 0.0 6.2 9.4#

100 0.0 6.4 9.6#



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

19.70

400

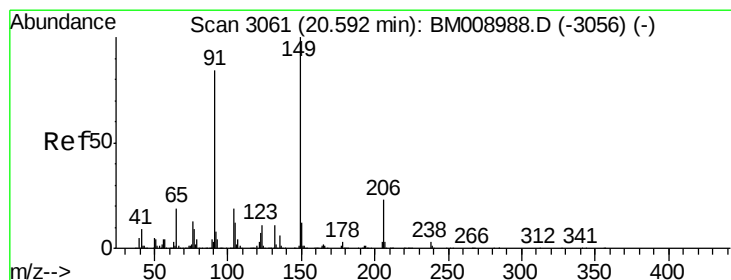
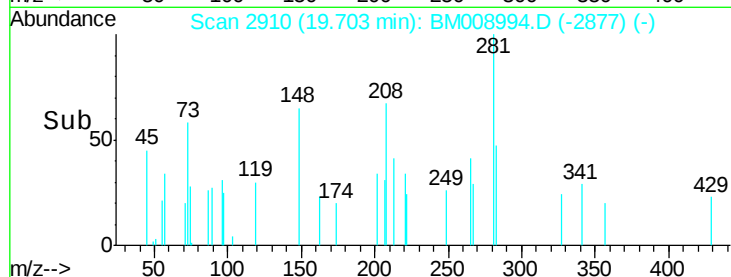
200

0

19.70

19.72

Time-->



#78

Butylbenzylphthalate

Concen: 0.01 ng/ul

RT: 20.60 min Scan# 3062

Delta R.T. 0.01 min

Lab File: BM008994.D

Acq: 14 Feb 2017 10:07

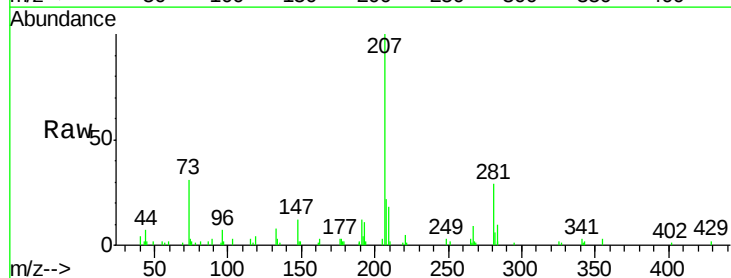
Tgt Ion:149 Resp: 308

Ion Ratio Lower Upper

149 100

91 0.0 80.0 120.0#

206 0.0 19.1 28.7#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BM

Ion 206.00 (205.70 to 206.70): E

1000

800

600

400

200

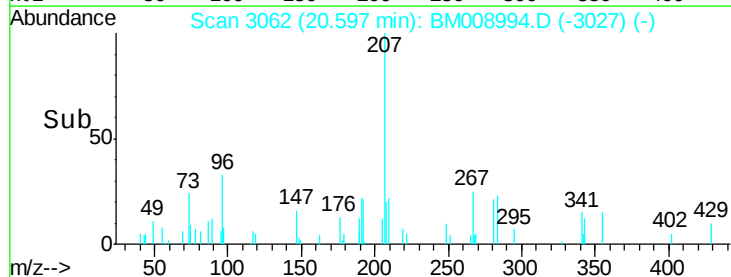
0

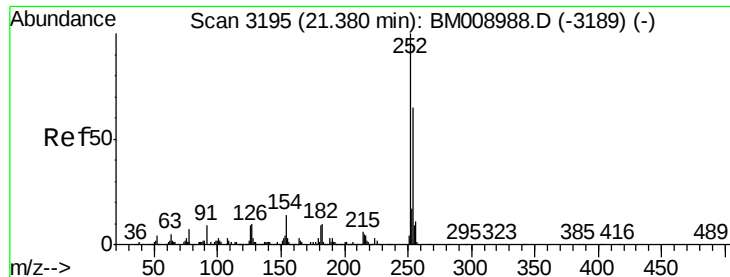
20.58

20.59

20.60

Time-->

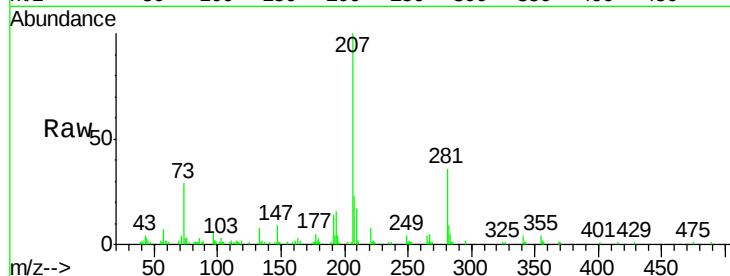




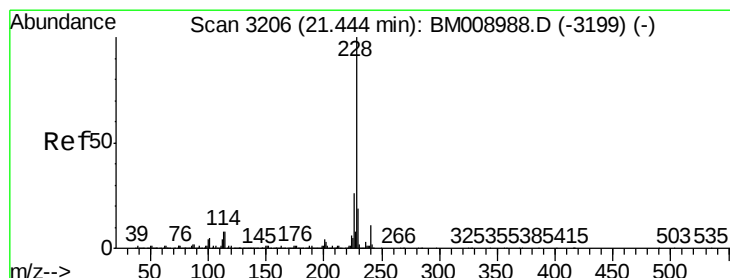
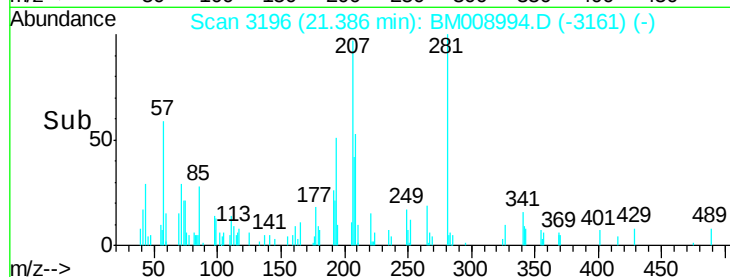
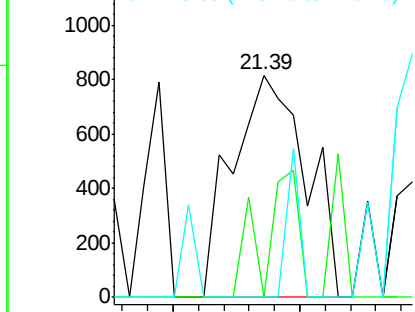
#79  
 3,3'-Dichlorobenzidine  
 Concen: 0.06 ng/ul  
 RT: 21.39 min Scan# 3196  
 Delta R.T. 0.01 min  
 Lab File: BM008994.D  
 Acq: 14 Feb 2017 10:07

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SVOC-GPC-BLANK

Tgt Ion:252 Resp: 1662  
 Ion Ratio Lower Upper  
 252 100  
 254 0.0 51.9 77.9#  
 126 0.0 8.2 12.4#

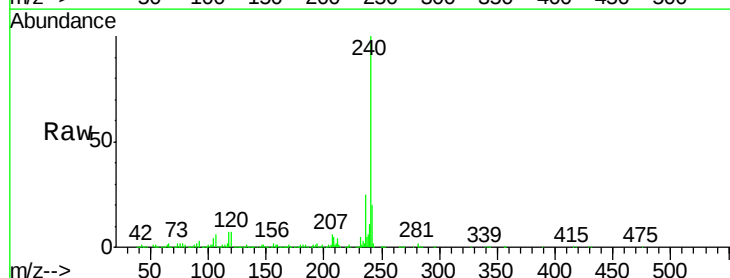


Abundance Ion 252.00 (251.70 to 252.70): E  
 Ion 254.00 (253.70 to 254.70): E  
 Ion 126.00 (125.70 to 126.70): E

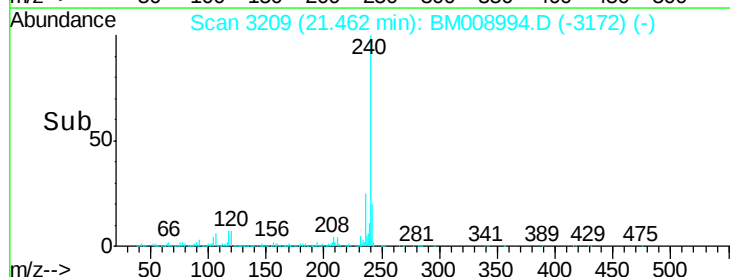
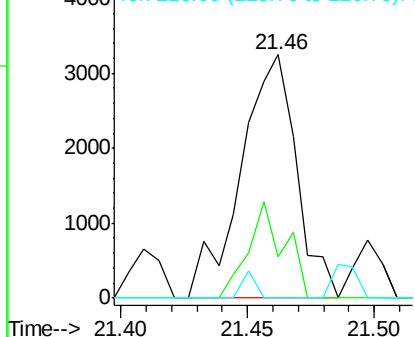


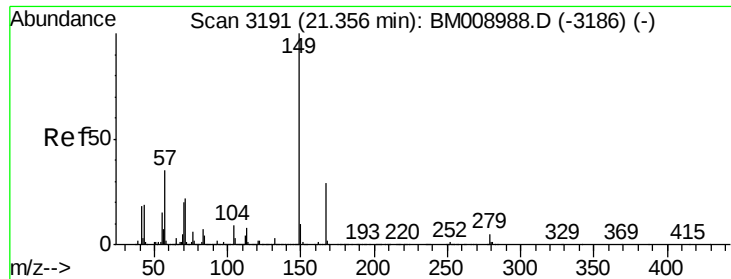
#80  
 Benzo(a)anthracene  
 Concen: 0.06 ng/ul  
 RT: 21.46 min Scan# 3209  
 Delta R.T. 0.02 min  
 Lab File: BM008994.D  
 Acq: 14 Feb 2017 10:07

Tgt Ion:228 Resp: 4974  
 Ion Ratio Lower Upper  
 228 100  
 229 17.0 15.4 23.2  
 226 0.0 21.2 31.8#



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

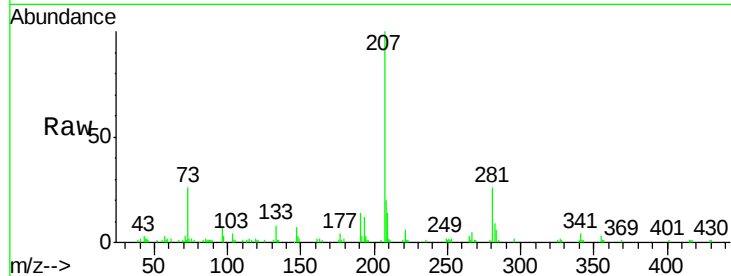




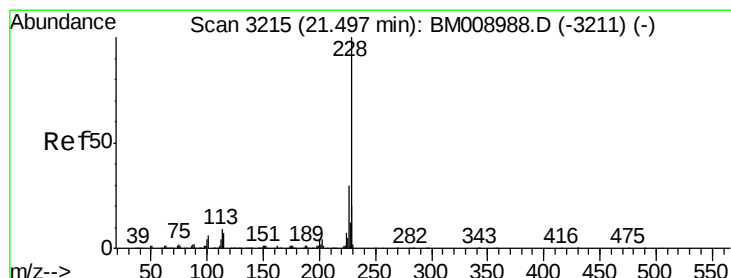
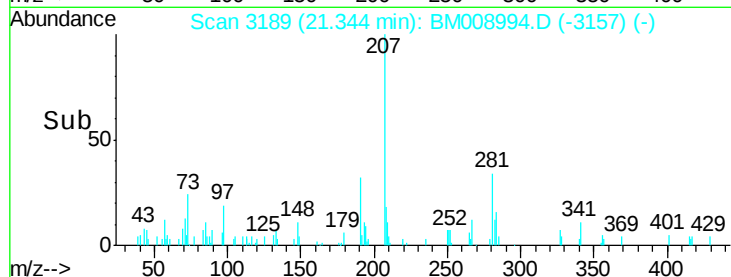
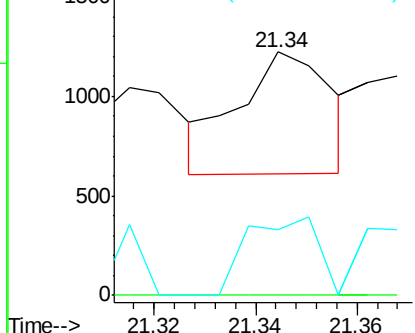
#81  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.02 ng/ul  
 RT: 21.34 min Scan# 3189  
 Delta R.T. -0.01 min  
 Lab File: BM008994.D  
 Acq: 14 Feb 2017 10:07

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SVOC-GPC-BLANK

Tgt Ion:149 Resp: 773  
 Ion Ratio Lower Upper  
 149 100  
 167 0.0 20.2 30.2#  
 279 26.9 4.0 6.0#

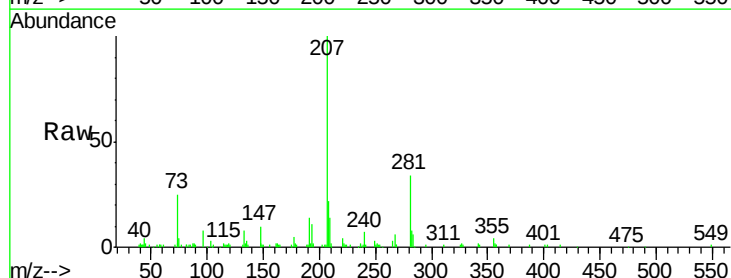


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

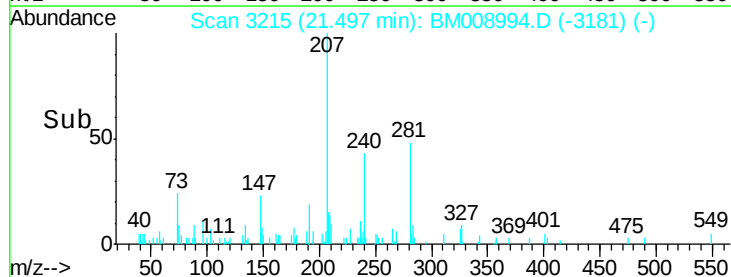
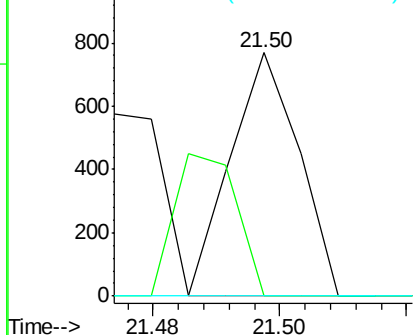


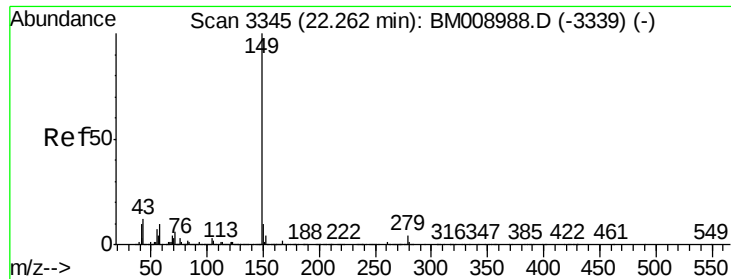
#82  
 Chrysene  
 Concen: 0.01 ng/ul  
 RT: 21.50 min Scan# 3215  
 Delta R.T. 0.00 min  
 Lab File: BM008994.D  
 Acq: 14 Feb 2017 10:07

Tgt Ion:228 Resp: 570  
 Ion Ratio Lower Upper  
 228 100  
 226 0.0 23.9 35.9#  
 229 0.0 15.4 23.2#



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

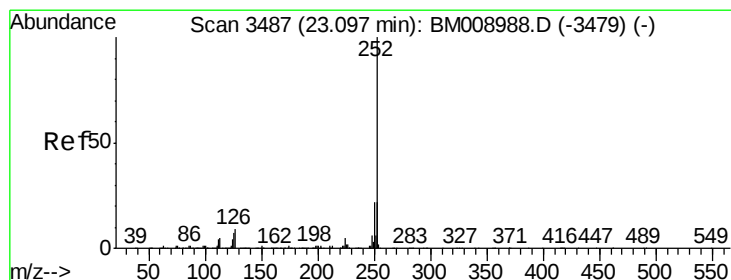
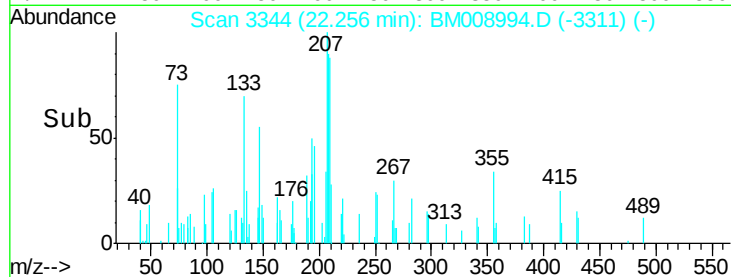
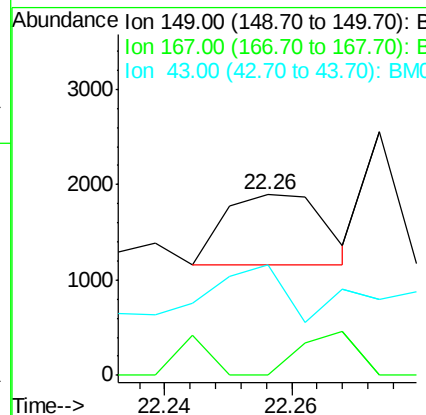
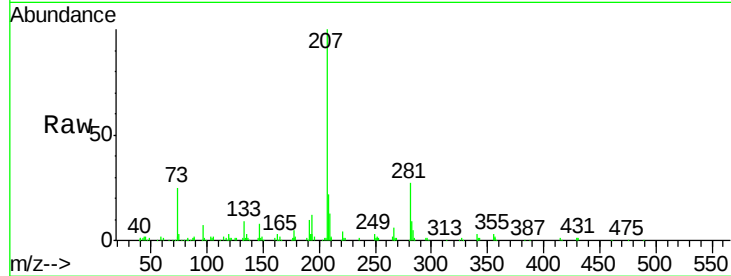




#84  
Di-n-octyl phthalate  
Concen: 0.01 ng/ul  
RT: 22.26 min Scan# 3344  
Delta R.T. -0.01 min  
Lab File: BM008994.D  
Acq: 14 Feb 2017 10:07

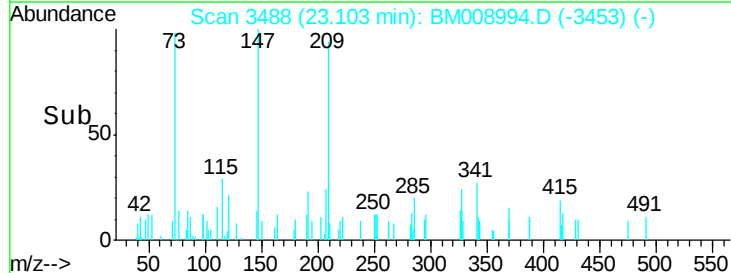
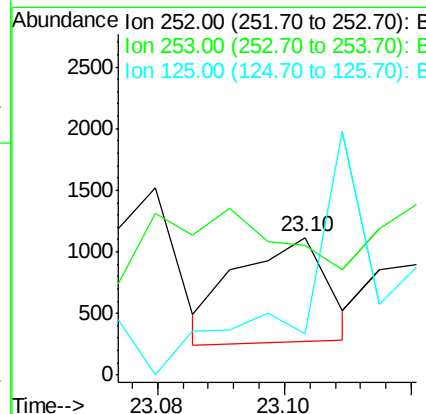
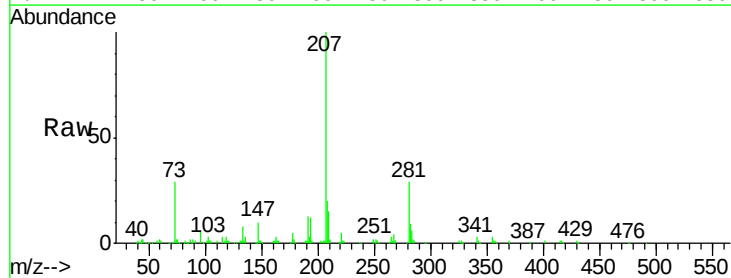
Instrument :  
BNA\_M  
ClientSampleId :  
SVOC-GPC-BLANK

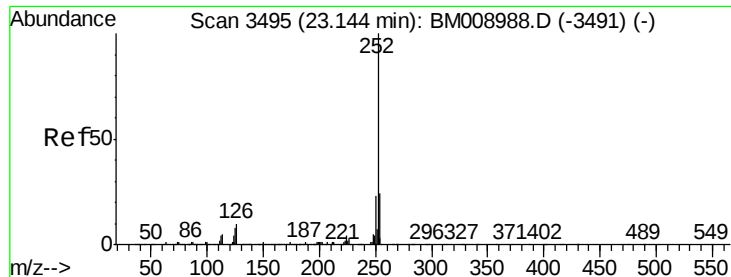
Tgt Ion:149 Resp: 808  
Ion Ratio Lower Upper  
149 100  
167 0.0 1.4 2.0#  
43 61.3 13.7 20.5#



#85  
Benzo(b)fluoranthene  
Concen: 0.01 ng/ul  
RT: 23.10 min Scan# 3488  
Delta R.T. 0.01 min  
Lab File: BM008994.D  
Acq: 14 Feb 2017 10:07

Tgt Ion:252 Resp: 833  
Ion Ratio Lower Upper  
252 100  
253 94.2 17.0 25.4#  
125 30.2 3.7 5.5#

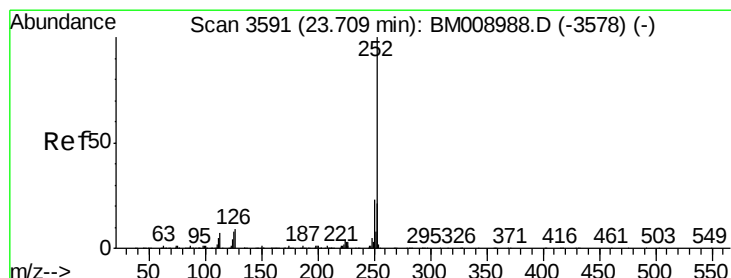
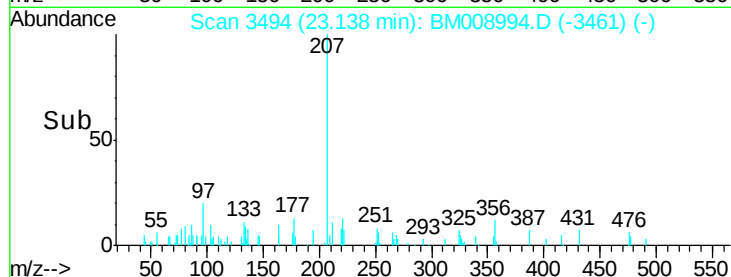
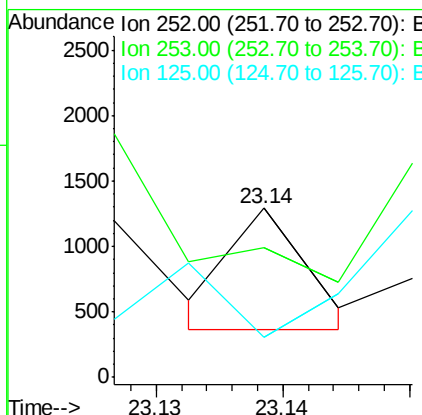
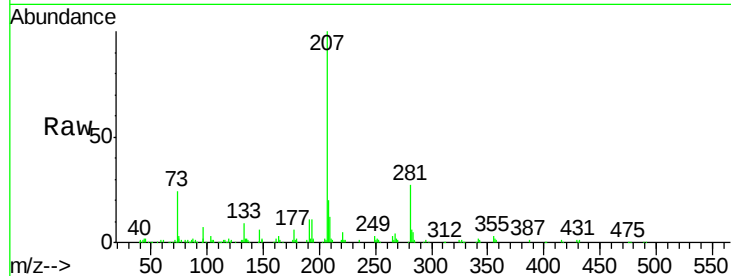




#86  
Benzo(k)fluoranthene  
Concen: 0.00 ng/u1  
RT: 23.14 min Scan# 3494  
Delta R.T. -0.01 min  
Lab File: BM008994.D  
Acq: 14 Feb 2017 10:07

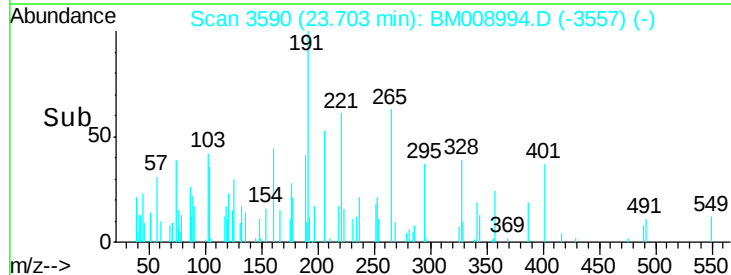
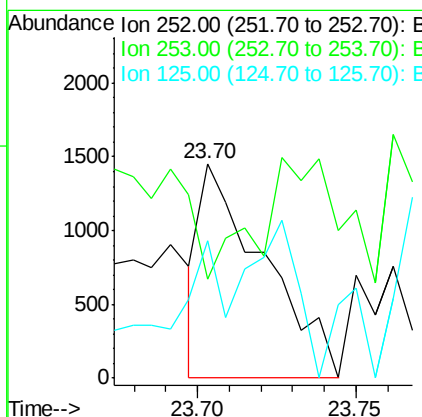
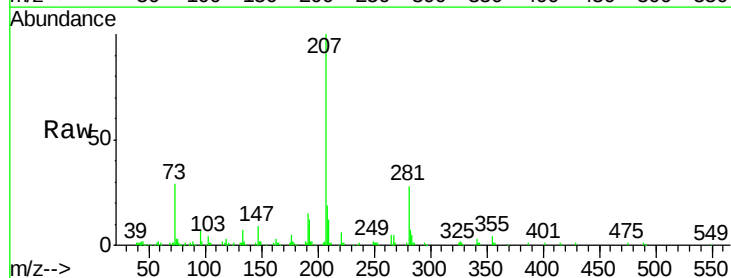
Instrument :  
BNA\_M  
ClientSampleId :  
SVOC-GPC-BLANK

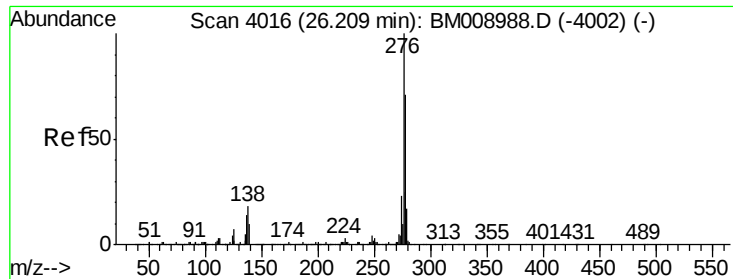
Tgt Ion:252 Resp: 388  
Ion Ratio Lower Upper  
252 100  
253 76.7 17.4 26.0#  
125 23.7 3.8 5.8#



#88  
Benzo(a)pyrene  
Concen: 0.02 ng/u1  
RT: 23.70 min Scan# 3590  
Delta R.T. -0.01 min  
Lab File: BM008994.D  
Acq: 14 Feb 2017 10:07

Tgt Ion:252 Resp: 2033  
Ion Ratio Lower Upper  
252 100  
253 46.4 17.4 26.0#  
125 64.4 3.7 5.5#





#89

Indeno(1,2,3-cd)pyrene

Concen: 0.00 ng/ul

RT: 26.21 min Scan# 4017

Delta R.T. 0.01 min

Lab File: BM008994.D

Acq: 14 Feb 2017 10:07

Instrument :

BNA\_M

ClientSampleId :

SVOC-GPC-BLANK

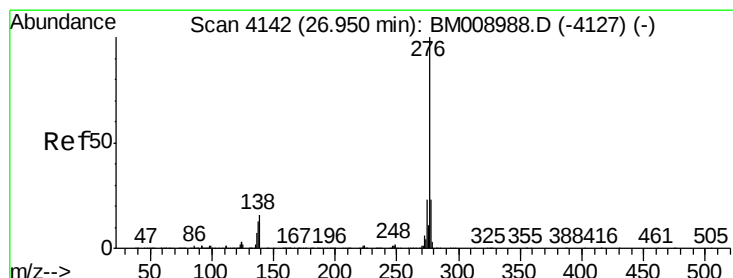
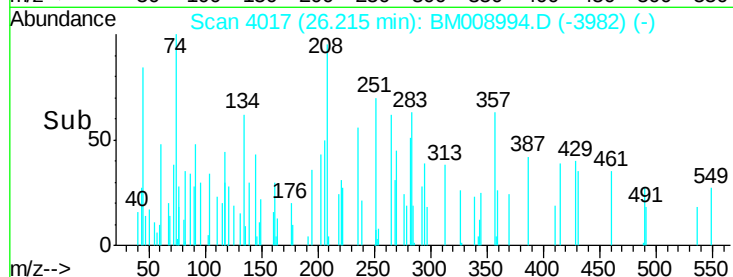
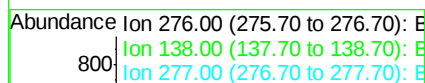
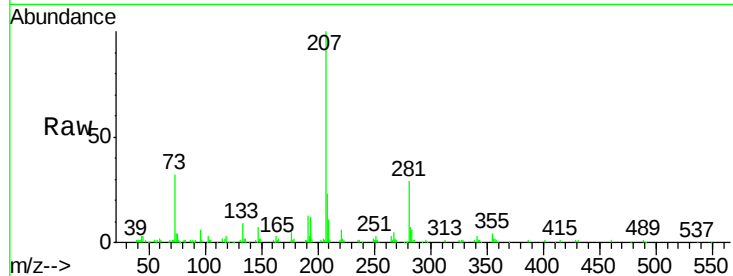
Tgt Ion:276 Resp: 284

Ion Ratio Lower Upper

276 100

138 125.6 8.2 12.2#

277 0.0 21.5 32.3#



#91

Benzo(g,h,i)perylene

Concen: 0.00 ng/ul

RT: 26.94 min Scan# 4141

Delta R.T. -0.01 min

Lab File: BM008994.D

Acq: 14 Feb 2017 10:07

Tgt Ion:276 Resp: 107

Ion Ratio Lower Upper

276 100

138 0.0 7.0 10.4#

277 0.0 19.0 28.6#

