

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052216\  
 Data File : BM005609.D  
 Acq On : 23 May 2016 04:44  
 Operator : UM/SJ  
 Sample : H3087-07  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JHGK2

Quant Time: May 23 08:22:10 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon May 23 05:32:02 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.83  | 152  | 102509   | 20.00 | ng/ul | 0.02     |
| 18) Naphthalene-d8        | 10.63 | 136  | 442467   | 20.00 | ng/ul | 0.02     |
| 35) Acenaphthene-d10      | 14.47 | 164  | 254512   | 20.00 | ng/ul | 0.03     |
| 61) Phenanthrene-d10      | 17.22 | 188  | 544026   | 20.00 | ng/ul | 0.04     |
| 75) Chrysene-d12          | 21.40 | 240  | 524760   | 20.00 | ng/ul | 0.04     |
| 83) Perylene-d12          | 23.70 | 264  | 427366   | 20.00 | ng/ul | 0.06     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.29  | 96  | 5616   | 2.40  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.02  | 99  | 151275 | 18.00 | ng/ul | 0.04 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.16  | 67  | 85450  | 17.55 | ng/ul | 0.02 |
| 9) 2-Chlorophenol-d4           | 7.37  | 132 | 124019 | 17.69 | ng/ul | 0.03 |
| 13) 4-Methylphenol-d8          | 8.56  | 113 | 123172 | 17.89 | ng/ul | 0.04 |
| 19) Nitrobenzene-d5            | 8.99  | 128 | 62810  | 18.57 | ng/ul | 0.02 |
| 22) 2-Nitrophenol-d4           | 9.71  | 143 | 66090  | 17.75 | ng/ul | 0.02 |
| 26) 2,4-Dichlorophenol-d3      | 10.26 | 165 | 129532 | 18.47 | ng/ul | 0.04 |
| 29) 4-Chloroaniline-d4         | 10.77 | 131 | 122929 | 17.50 | ng/ul | 0.03 |
| 43) Dimethylphthalate-d6       | 13.88 | 166 | 394540 | 18.99 | ng/ul | 0.02 |
| 46) Acenaphthylene-d8          | 14.17 | 160 | 490350 | 18.88 | ng/ul | 0.03 |
| 51) 4-Nitrophenol-d4           | 14.70 | 143 | 53725  | 13.67 | ng/ul | 0.05 |
| 57) Fluorene-d10               | 15.47 | 176 | 339613 | 18.79 | ng/ul | 0.03 |
| 62) 4,6-Dinitro-2-methylphenol | 15.60 | 200 | 10284  | 3.29  | ng/ul | 0.05 |
| 70) Anthracene-d10             | 17.32 | 188 | 511263 | 19.73 | ng/ul | 0.04 |
| 76) Pyrene-d10                 | 19.62 | 212 | 513003 | 21.59 | ng/ul | 0.04 |
| 87) Benzo(a)pyrene-d12         | 23.55 | 264 | 385558 | 19.32 | ng/ul | 0.05 |

## Target Compounds

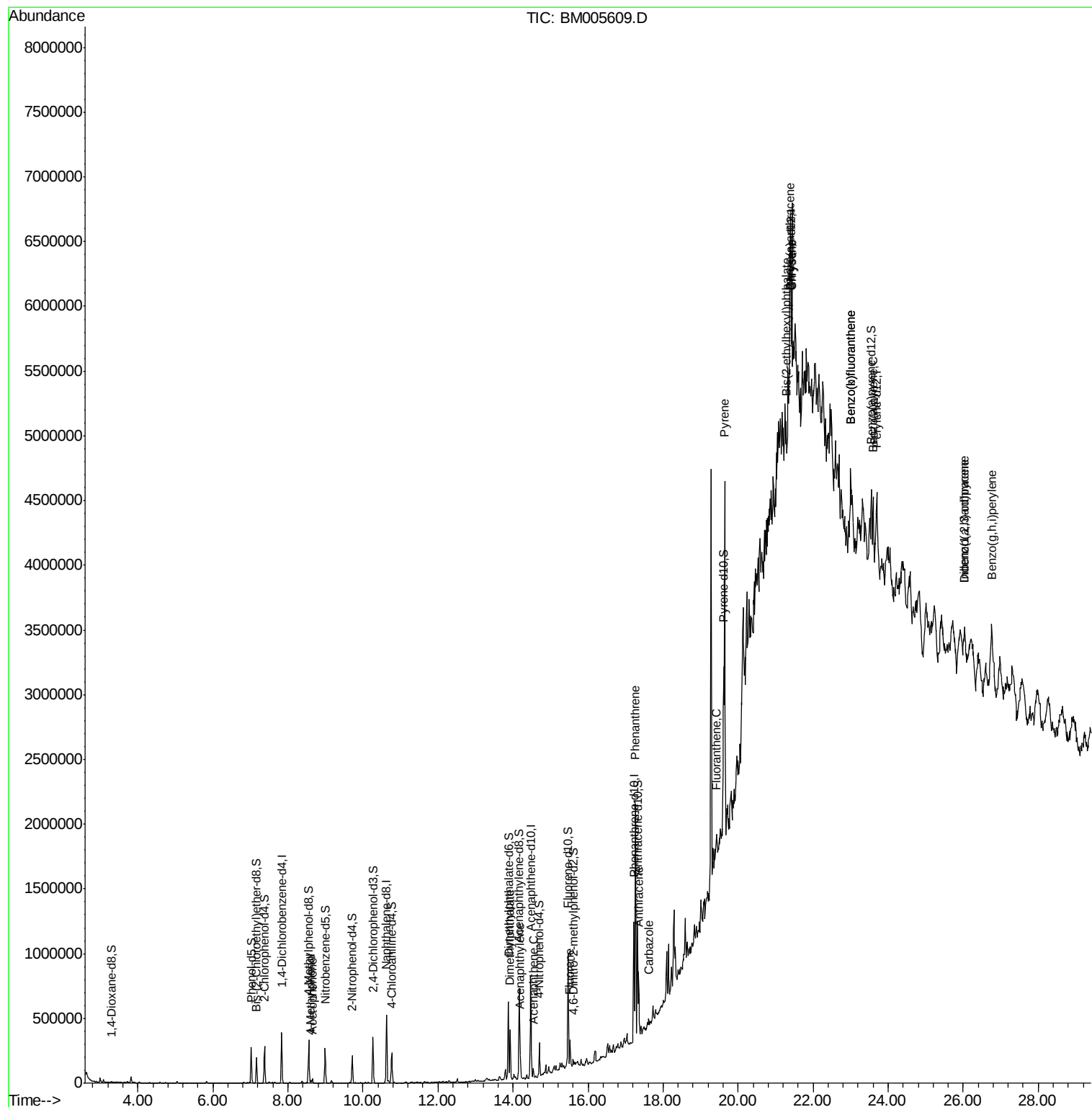
|                                |       |     |         |       |        | Qvalue |
|--------------------------------|-------|-----|---------|-------|--------|--------|
| 14) Acetophenone               | 8.66  | 105 | 19020   | 1.83  | ng/ul  | 99     |
| 16) 4-Methylphenol             | 8.61  | 108 | 8063    | 1.13  | ng/ul  | 80     |
| 44) Dimethylphthalate          | 13.92 | 163 | 214859  | 10.47 | ng/ul  | 99     |
| 47) Acenaphthylene             | 14.20 | 152 | 114509  | 4.34  | ng/ul  | 98     |
| 49) Acenaphthene               | 14.54 | 153 | 30861   | 1.77  | ng/ul  | 97     |
| 58) Fluorene                   | 15.52 | 166 | 89755   | 4.51  | ng/ul  | 97     |
| 69) Phenanthrene               | 17.26 | 178 | 1105251 | 36.35 | ng/ul  | 99     |
| 71) Anthracene                 | 17.35 | 178 | 318818  | 10.29 | ng/ul  | 99     |
| 72) Carbazole                  | 17.62 | 167 | 35979   | 1.34  | ng/ul# | 86     |
| 74) Fluoranthene               | 19.43 | 202 | 104300  | 3.05  | ng/ul  | 97     |
| 77) Pyrene                     | 19.64 | 202 | 1826113 | 60.53 | ng/ul# | 92     |
| 80) Benzo(a)anthracene         | 21.38 | 228 | 636810  | 20.65 | ng/ul  | 92     |
| 81) Bis(2-ethylhexyl)phthalate | 21.30 | 149 | 24176   | 1.35  | ng/ul# | 76     |
| 82) Chrysene                   | 21.43 | 228 | 759637  | 25.89 | ng/ul  | 95     |
| 85) Benzo(b)fluoranthene       | 23.01 | 252 | 577425  | 22.91 | ng/ul# | 84     |
| 86) Benzo(k)fluoranthene       | 23.01 | 252 | 577425  | 24.20 | ng/ul# | 84     |
| 88) Benzo(a)pyrene             | 23.60 | 252 | 462913  | 18.93 | ng/ul# | 83     |
| 89) Indeno(1,2,3-cd)pyrene     | 26.04 | 276 | 259638  | 8.94  | ng/ul  | 95     |
| 90) Dibenzo(a,h)anthracene     | 26.04 | 278 | 62659   | 2.59  | ng/ul# | 26     |
| 91) Benzo(g,h,i)perylene       | 26.76 | 276 | 232152  | 9.51  | ng/ul# | 89     |

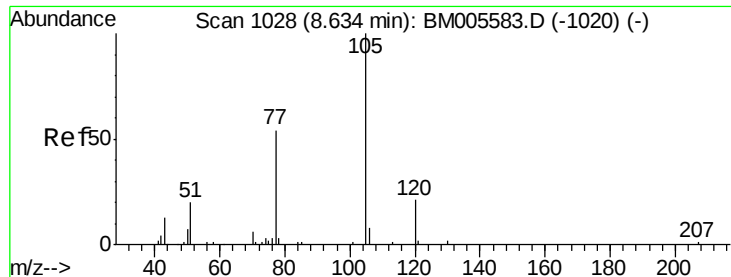
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052216\  
Data File : BM005609.D  
Acq On : 23 May 2016 04:44  
Operator : UM/SJ  
Sample : H3087-07  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JHGK2

Quant Time: May 23 08:22:10 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052016.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon May 23 05:32:02 2016  
Response via : Initial Calibration





#14

Acetophenone

Concen: 1.83 ng/ul

RT: 8.66 min Scan# 1032

Delta R.T. 0.02 min

Lab File: BM005609.D

Acq: 23 May 2016 04:44

Instrument :

BNA\_M

ClientSampleId :

JHGK2

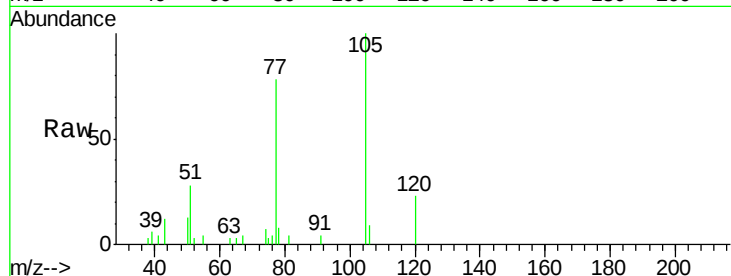
Tgt Ion:105 Resp: 19020

Ion Ratio Lower Upper

105 100

77 77.6 60.8 91.2

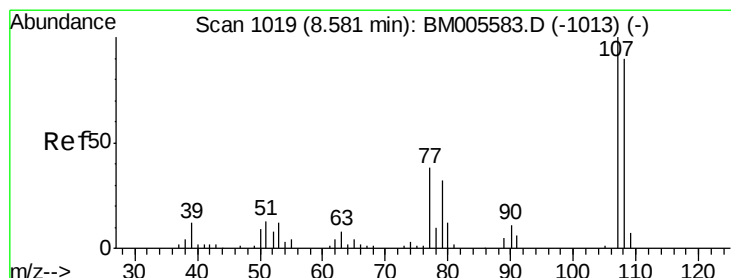
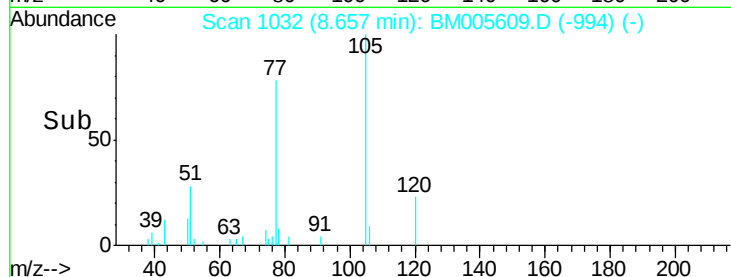
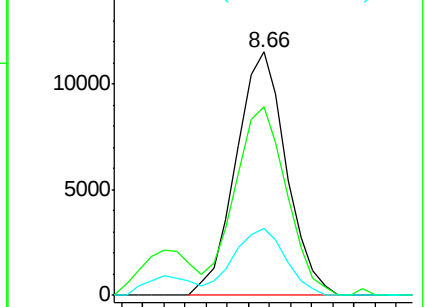
51 27.5 22.2 33.2



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



#16

4-Methylphenol

Concen: 1.13 ng/ul

RT: 8.61 min Scan# 1024

Delta R.T. 0.03 min

Lab File: BM005609.D

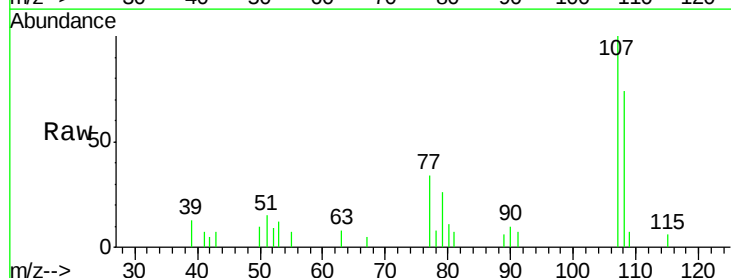
Acq: 23 May 2016 04:44

Tgt Ion:108 Resp: 8063

Ion Ratio Lower Upper

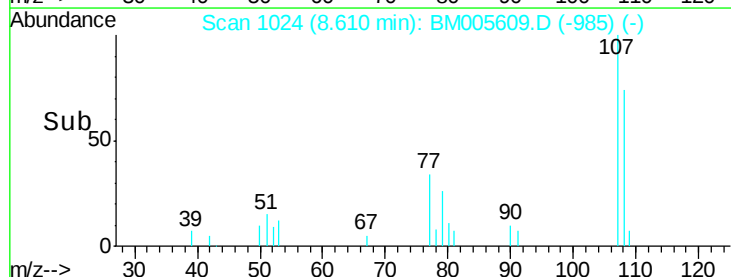
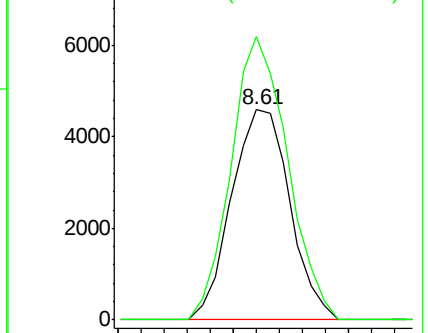
108 100

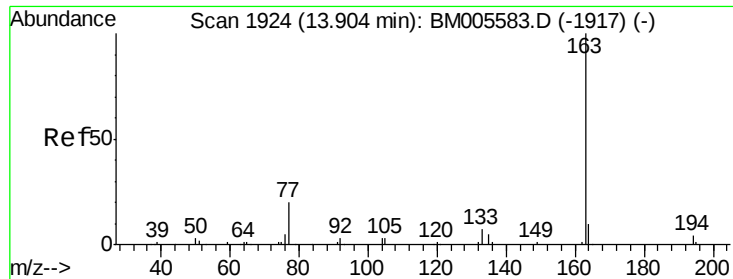
107 134.9 90.3 135.5



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E

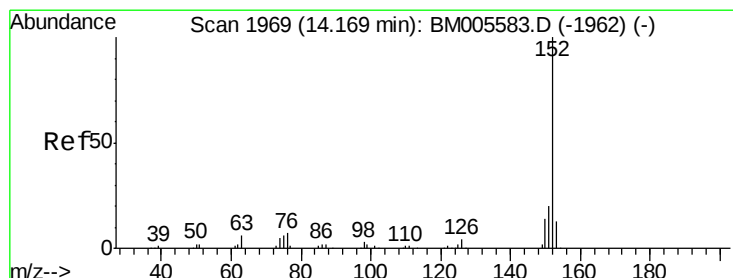
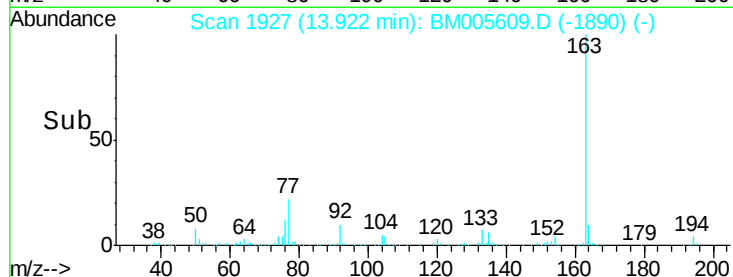
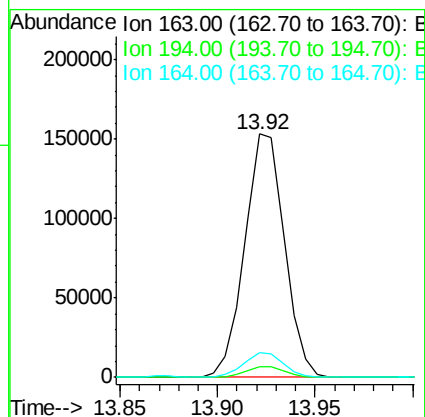
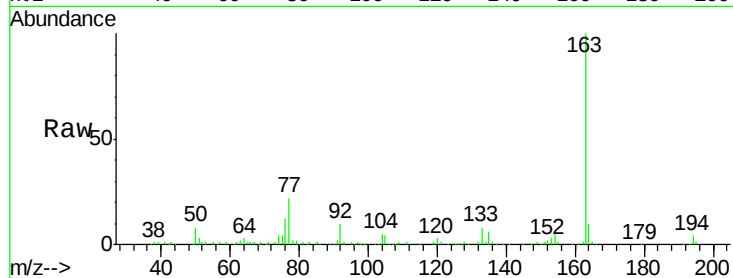




#44  
Dimethylphthalate  
Concen: 10.47 ng/ul  
RT: 13.92 min Scan# 1927  
Delta R.T. 0.02 min  
Lab File: BM005609.D  
Acq: 23 May 2016 04:44

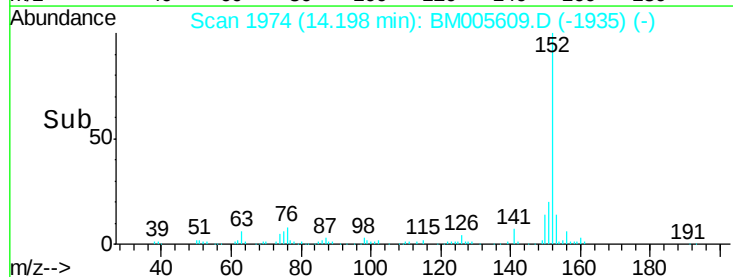
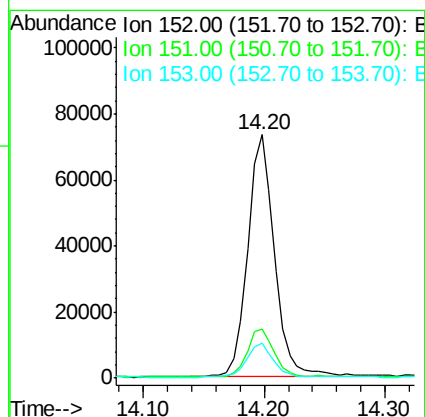
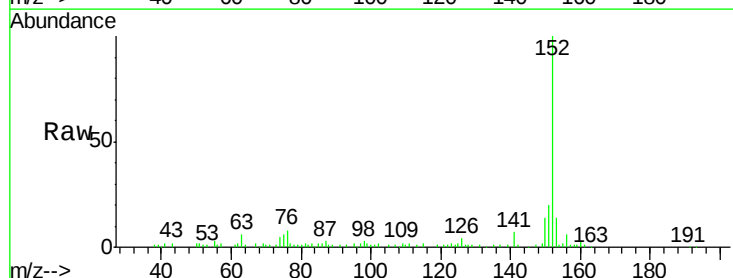
Instrument :  
BNA\_M  
ClientSampleId :  
JHGK2

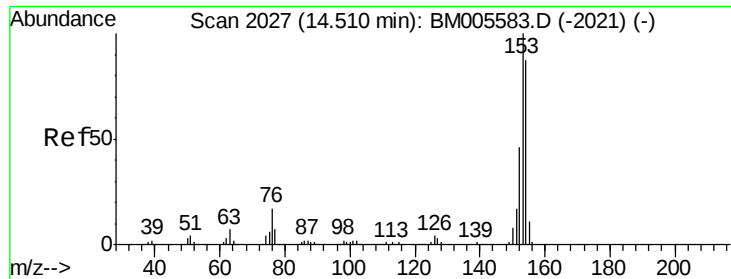
Tgt Ion:163 Resp: 214859  
Ion Ratio Lower Upper  
163 100  
194 4.3 3.4 5.0  
164 10.4 8.0 12.0



#47  
Acenaphthylene  
Concen: 4.34 ng/ul  
RT: 14.20 min Scan# 1974  
Delta R.T. 0.03 min  
Lab File: BM005609.D  
Acq: 23 May 2016 04:44

Tgt Ion:152 Resp: 114509  
Ion Ratio Lower Upper  
152 100  
151 20.1 15.7 23.5  
153 14.3 10.5 15.7





#49

Acenaphthene

Concen: 1.77 ng/ul

RT: 14.54 min Scan# 2032

Delta R.T. 0.03 min

Lab File: BM005609.D

Acq: 23 May 2016 04:44

Instrument :

BNA\_M

ClientSampleId :

JHGK2

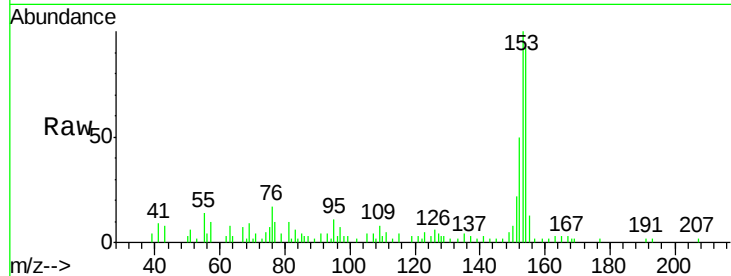
Tgt Ion:153 Resp: 30861

Ion Ratio Lower Upper

153 100

152 50.0 37.8 56.6

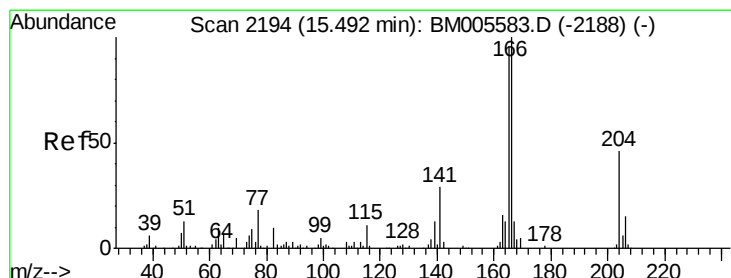
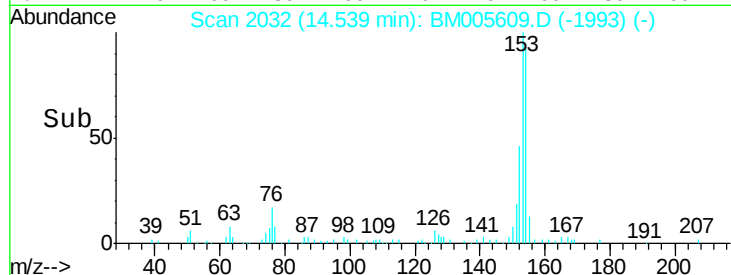
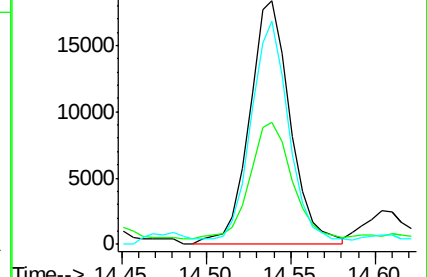
154 91.8 71.1 106.7



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#58

Fluorene

Concen: 4.51 ng/ul

RT: 15.52 min Scan# 2199

Delta R.T. 0.03 min

Lab File: BM005609.D

Acq: 23 May 2016 04:44

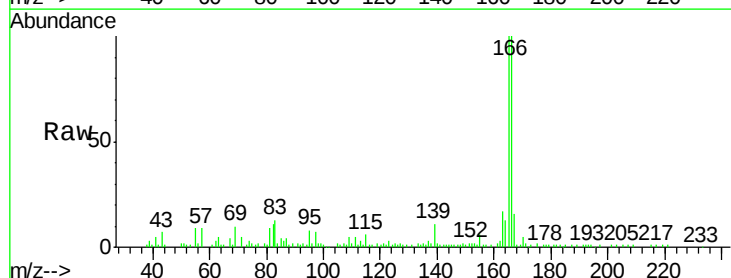
Tgt Ion:166 Resp: 89755

Ion Ratio Lower Upper

166 100

165 99.7 78.0 117.0

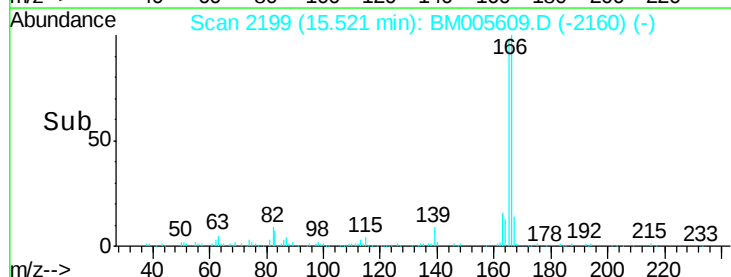
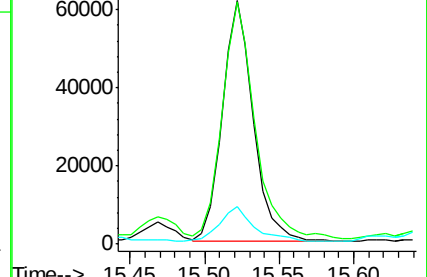
167 15.6 10.5 15.7

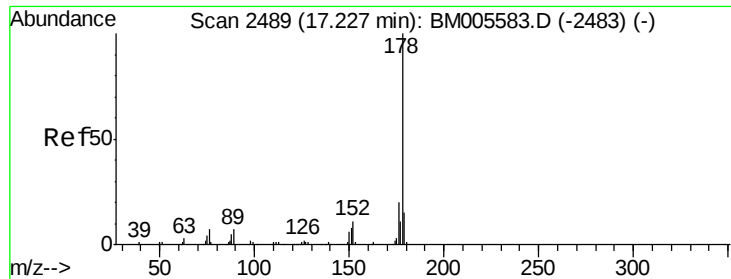


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#69

Phenanthrene

Concen: 36.35 ng/ul

RT: 17.26 min Scan# 2495

Delta R.T. 0.04 min

Lab File: BM005609.D

Acq: 23 May 2016 04:44

Instrument :

BNA\_M

ClientSampleId :

JHGK2

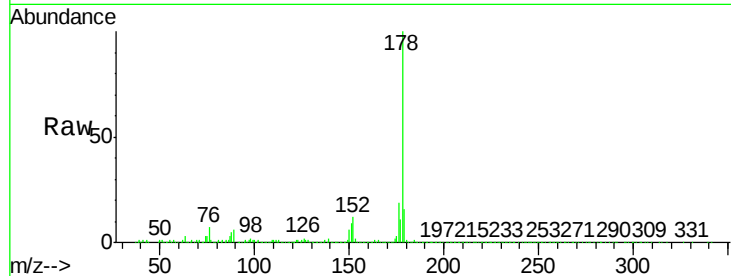
Tgt Ion:178 Resp: 1105251

Ion Ratio Lower Upper

178 100

179 15.7 12.2 18.2

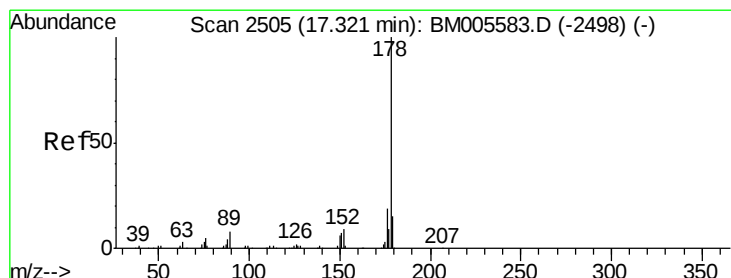
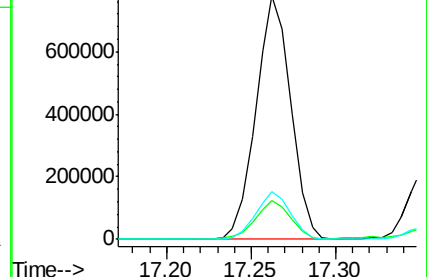
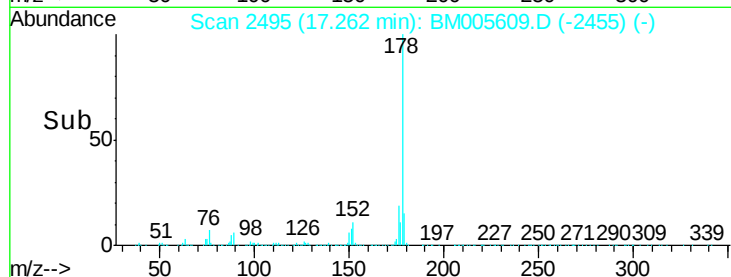
176 19.4 15.8 23.6



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: 10.29 ng/ul

RT: 17.35 min Scan# 2510

Delta R.T. 0.03 min

Lab File: BM005609.D

Acq: 23 May 2016 04:44

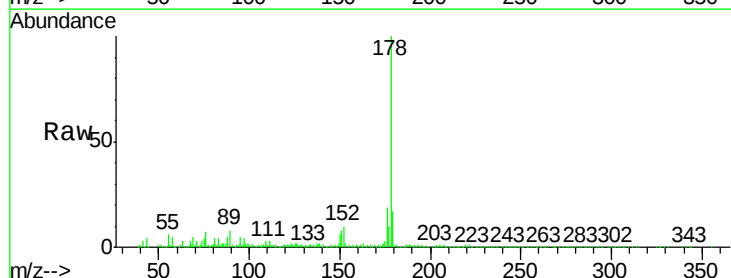
Tgt Ion:178 Resp: 318818

Ion Ratio Lower Upper

178 100

179 16.5 12.6 18.8

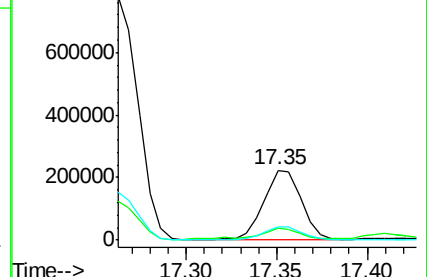
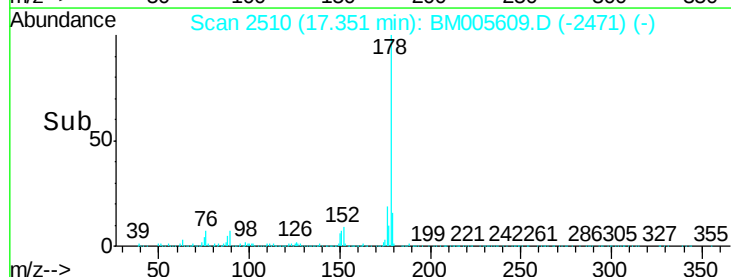
176 19.0 15.0 22.4

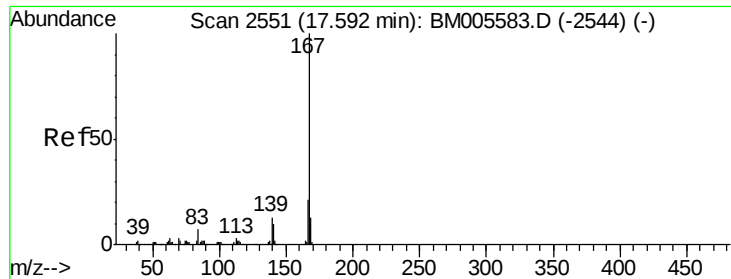


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 1.34 ng/ul

RT: 17.62 min Scan# 2556

Delta R.T. 0.03 min

Lab File: BM005609.D

Acq: 23 May 2016 04:44

Instrument :

BNA\_M

ClientSampleId :

JHGK2

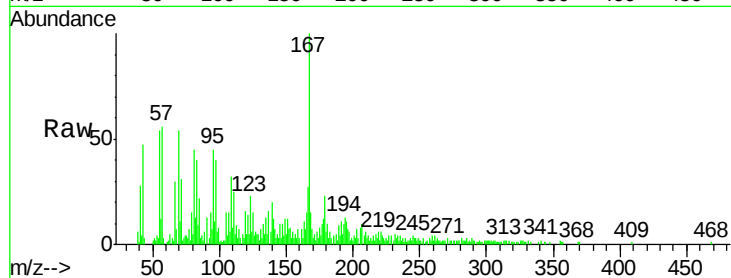
Tgt Ion:167 Resp: 35979

Ion Ratio Lower Upper

167 100

166 27.1 16.9 25.3#

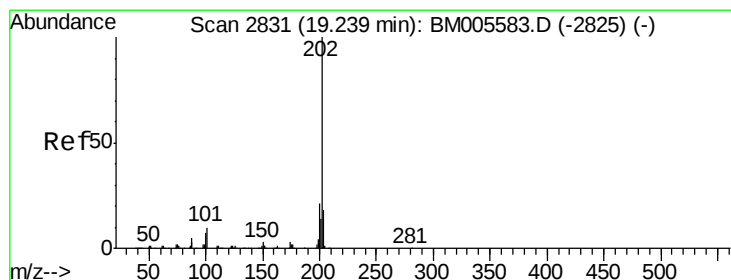
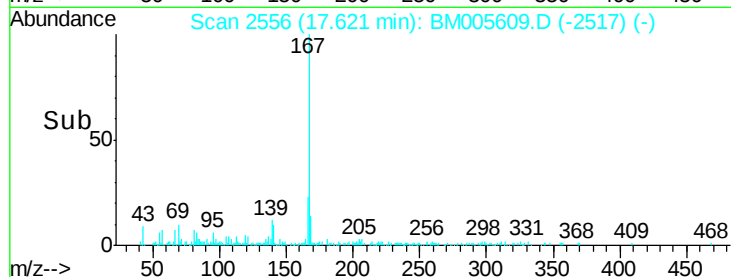
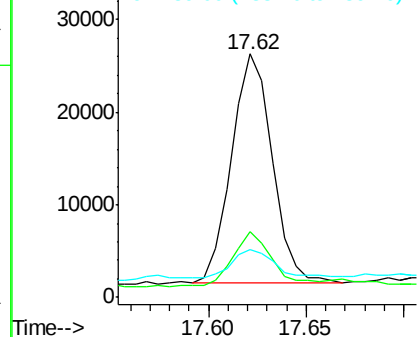
139 19.7 10.6 16.0#



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 3.05 ng/ul

RT: 19.43 min Scan# 2863

Delta R.T. 0.19 min

Lab File: BM005609.D

Acq: 23 May 2016 04:44

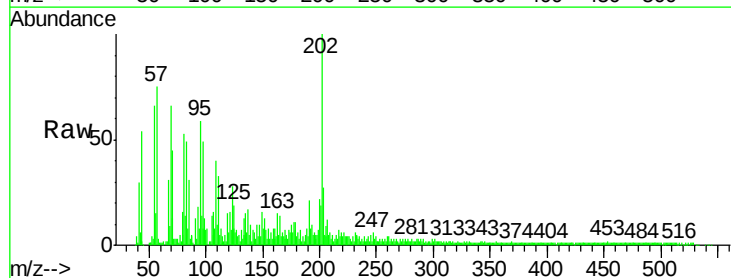
Tgt Ion:202 Resp: 104300

Ion Ratio Lower Upper

202 100

101 8.2 7.9 11.9

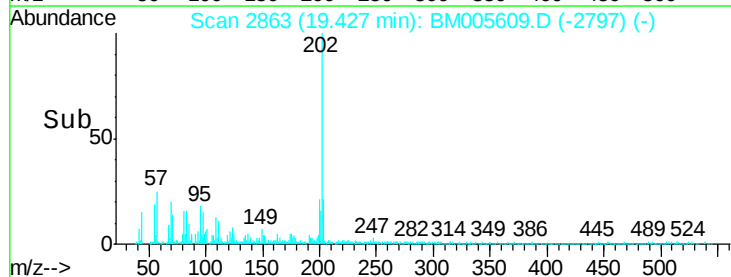
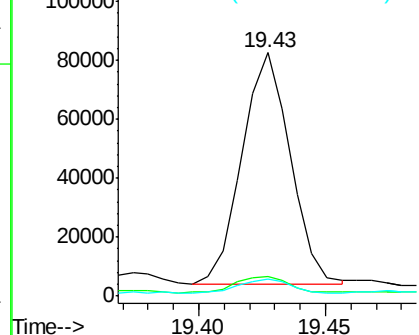
100 7.1 5.6 8.4

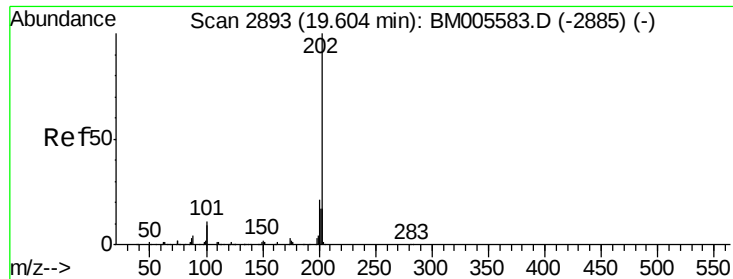


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#77

Pyrene

Concen: 60.53 ng/ul

RT: 19.64 min Scan# 2900

Delta R.T. 0.04 min

Lab File: BM005609.D

Acq: 23 May 2016 04:44

Instrument :

BNA\_M

ClientSampleId :

JHGK2

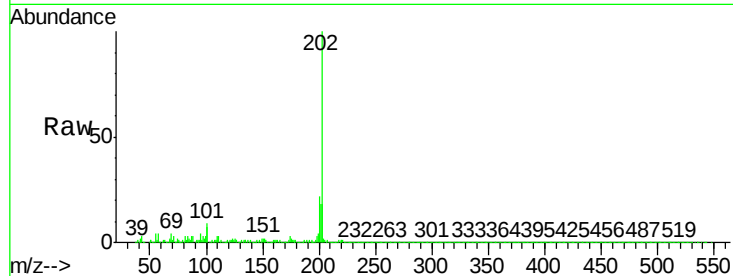
Tgt Ion:202 Resp: 1826113

Ion Ratio Lower Upper

202 100

101 8.9 9.6 14.4#

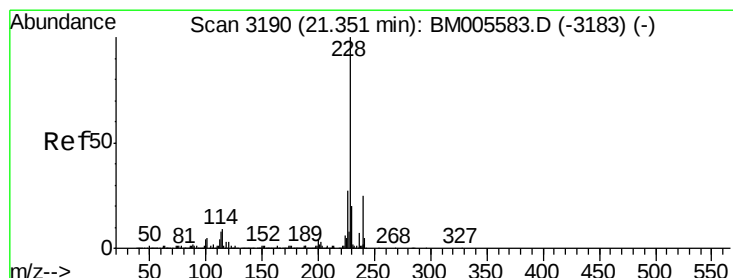
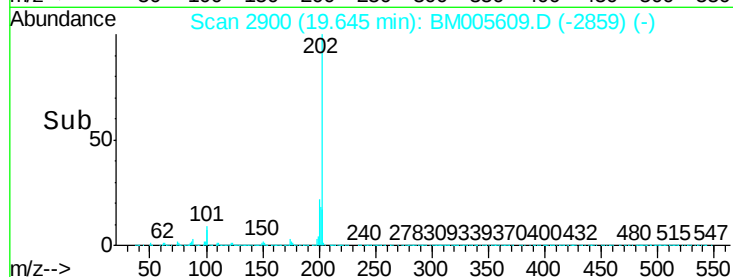
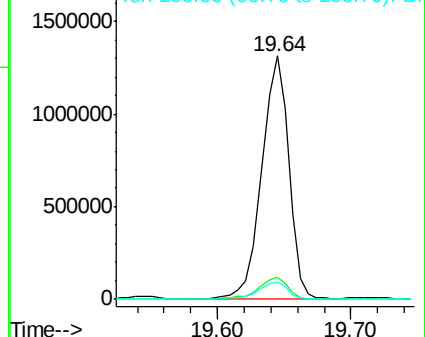
100 7.0 7.8 11.6#



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



#80

Benzo(a)anthracene

Concen: 20.65 ng/ul

RT: 21.38 min Scan# 3195

Delta R.T. 0.03 min

Lab File: BM005609.D

Acq: 23 May 2016 04:44

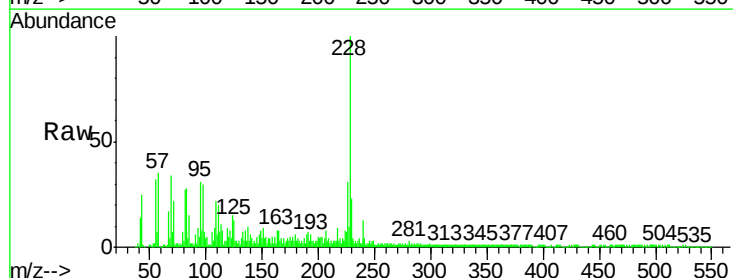
Tgt Ion:228 Resp: 636810

Ion Ratio Lower Upper

228 100

229 22.5 15.4 23.2

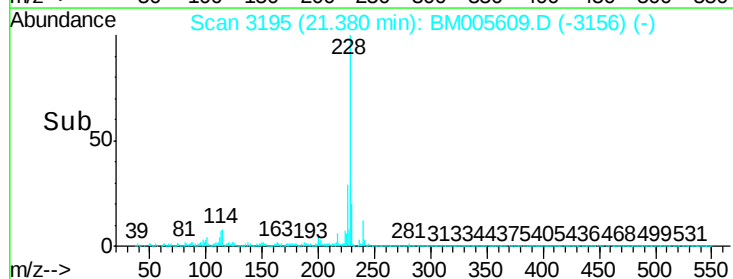
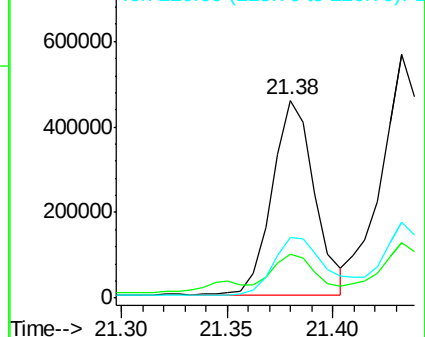
226 30.5 21.0 31.4

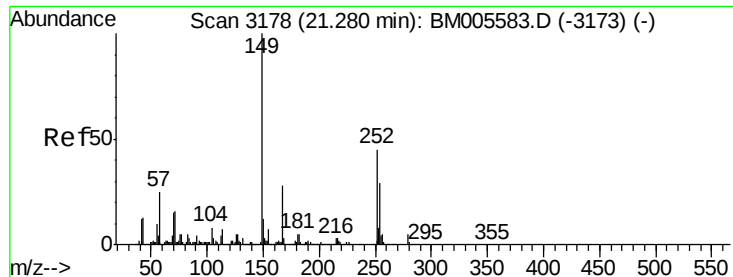


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E

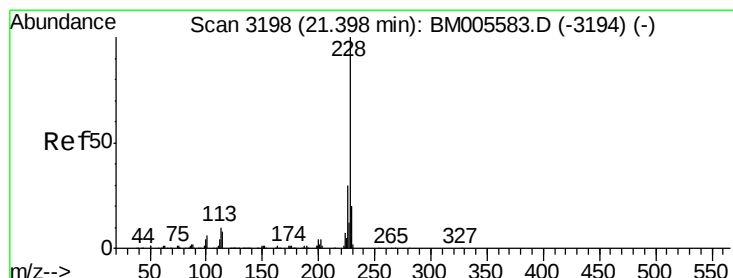
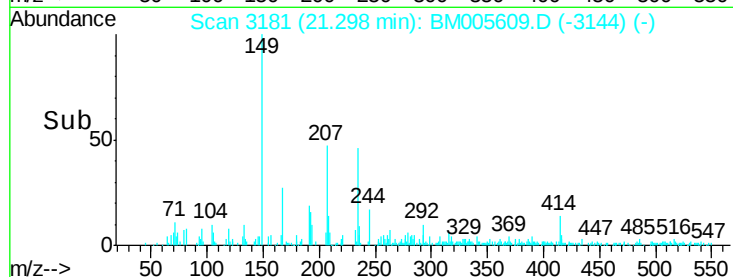
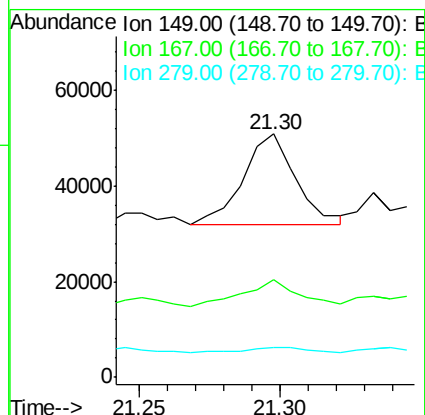
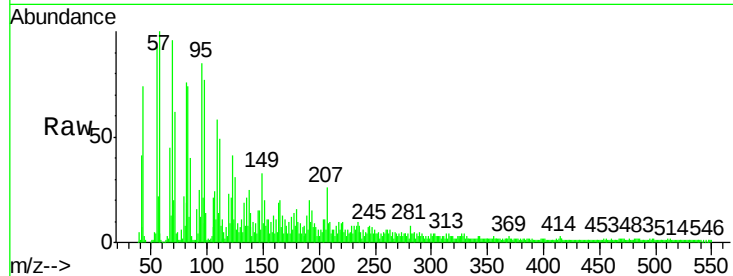




#81  
Bis(2-ethylhexyl)phthalate  
Concen: 1.35 ng/ul  
RT: 21.30 min Scan# 3181  
Delta R.T. 0.02 min  
Lab File: BM005609.D  
Acq: 23 May 2016 04:44

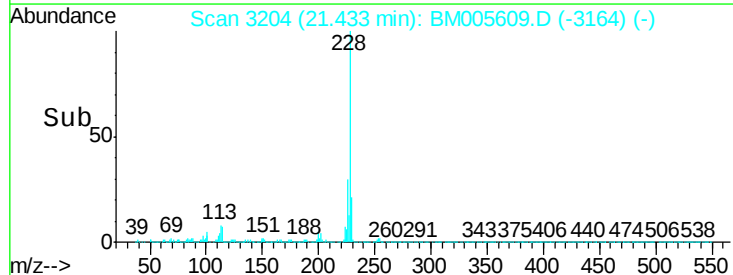
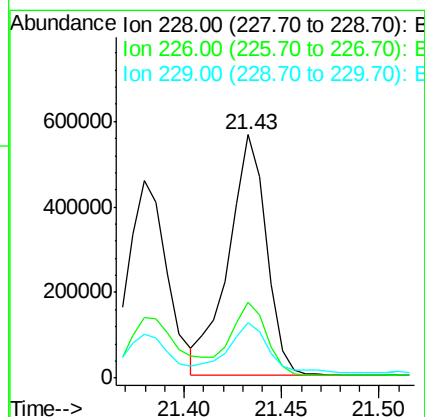
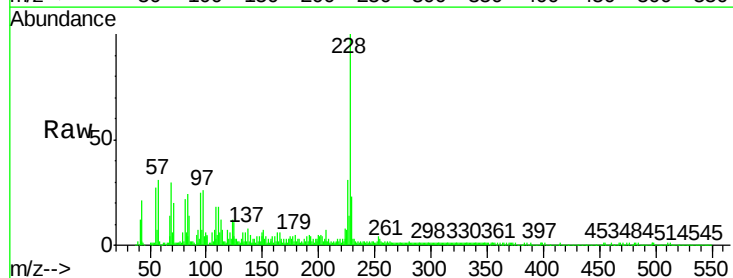
Instrument :  
BNA\_M  
ClientSampleId :  
JHGK2

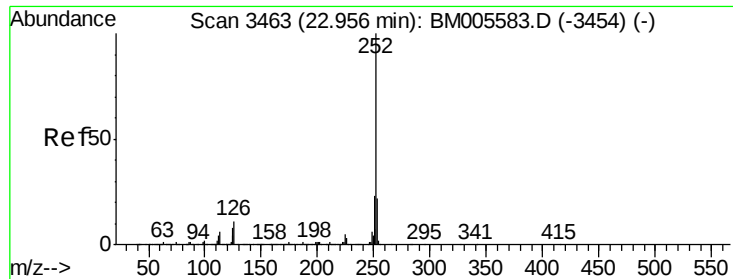
Tgt Ion:149 Resp: 24176  
Ion Ratio Lower Upper  
149 100  
167 40.4 22.0 33.0#  
279 12.4 3.8 5.8#



#82  
Chrysene  
Concen: 25.89 ng/ul  
RT: 21.43 min Scan# 3204  
Delta R.T. 0.04 min  
Lab File: BM005609.D  
Acq: 23 May 2016 04:44

Tgt Ion:228 Resp: 759637  
Ion Ratio Lower Upper  
228 100  
226 31.2 23.7 35.5  
229 22.8 15.5 23.3

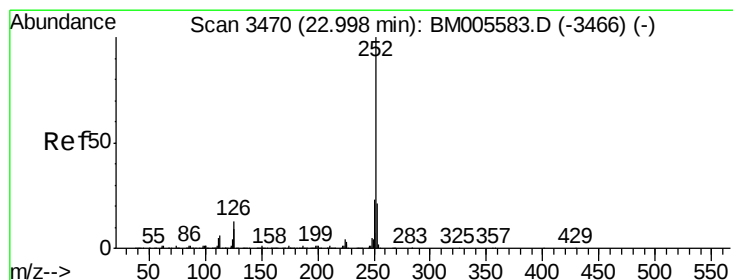
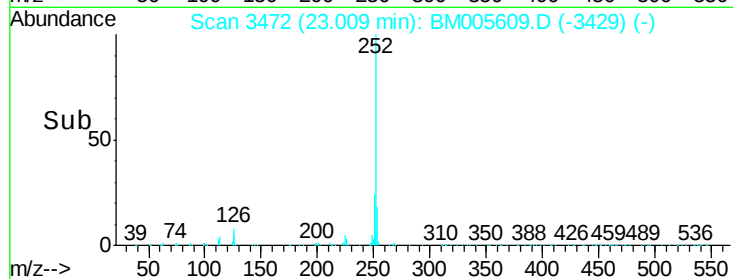
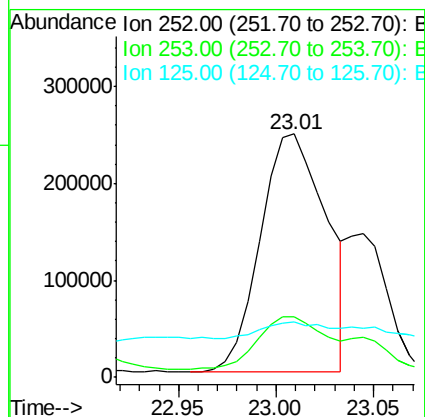
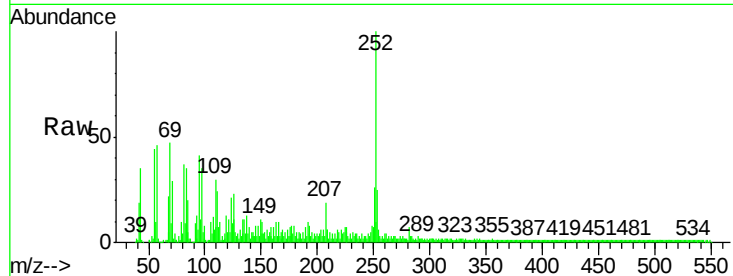




#85  
Benzo(b)fluoranthene  
Concen: 22.91 ng/ul  
RT: 23.01 min Scan# 3472  
Delta R.T. 0.05 min  
Lab File: BM005609.D  
Acq: 23 May 2016 04:44

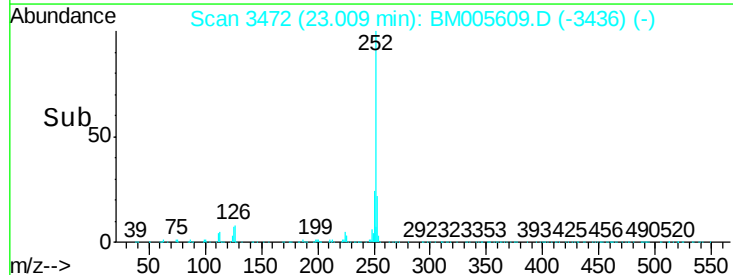
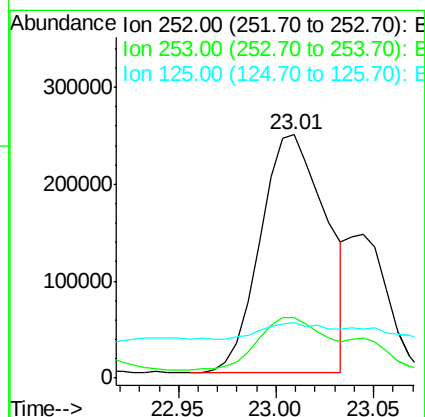
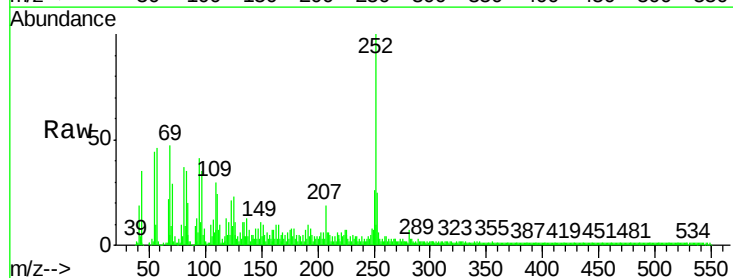
Instrument :  
BNA\_M  
ClientSampleId :  
JHGK2

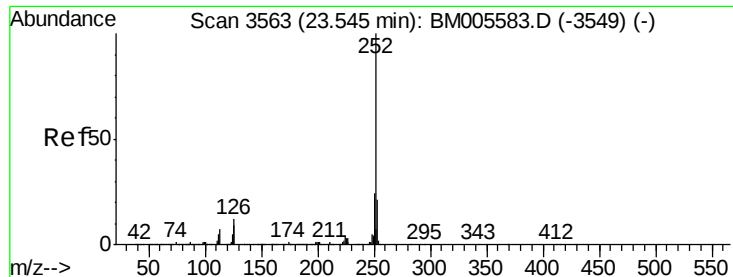
Tgt Ion:252 Resp: 577425  
Ion Ratio Lower Upper  
252 100  
253 25.0 17.3 25.9  
125 22.8 7.0 10.4#



#86  
Benzo(k)fluoranthene  
Concen: 24.20 ng/ul  
RT: 23.01 min Scan# 3472  
Delta R.T. 0.01 min  
Lab File: BM005609.D  
Acq: 23 May 2016 04:44

Tgt Ion:252 Resp: 577425  
Ion Ratio Lower Upper  
252 100  
253 25.0 17.5 26.3  
125 22.8 7.0 10.6#





#88

Benzo(a)pyrene

Concen: 18.93 ng/ul

RT: 23.60 min Scan# 3572

Delta R.T. 0.05 min

Lab File: BM005609.D

Acq: 23 May 2016 04:44

Instrument :

BNA\_M

ClientSampleId :

JHGK2

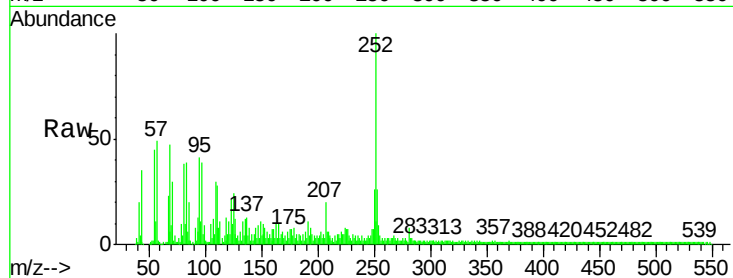
Tgt Ion:252 Resp: 462913

Ion Ratio Lower Upper

252 100

253 25.8 17.6 26.4

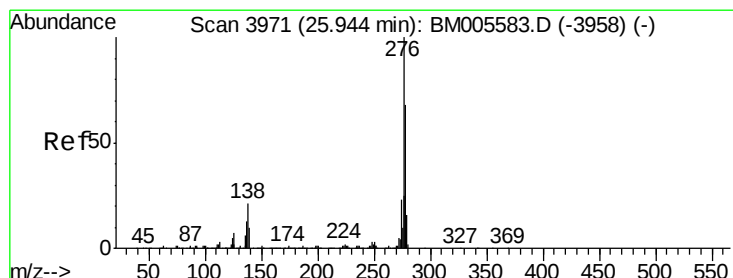
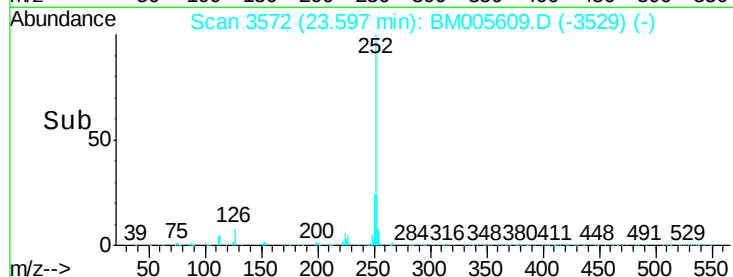
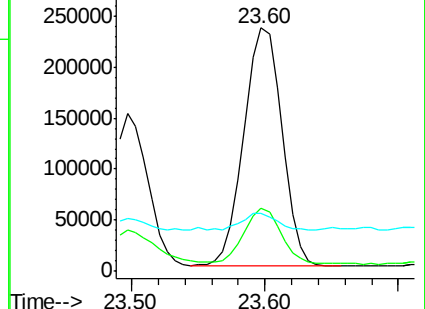
125 23.8 7.6 11.4#



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



#89

Indeno(1,2,3-cd)pyrene

Concen: 8.94 ng/ul

RT: 26.04 min Scan# 3987

Delta R.T. 0.09 min

Lab File: BM005609.D

Acq: 23 May 2016 04:44

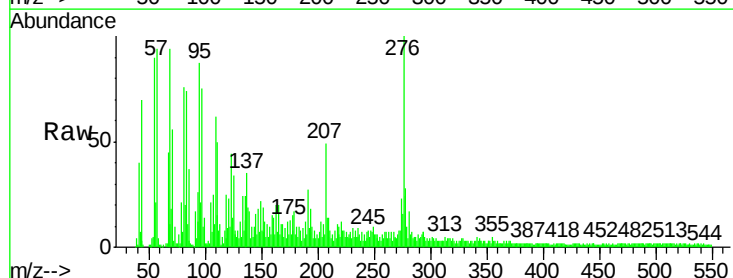
Tgt Ion:276 Resp: 259638

Ion Ratio Lower Upper

276 100

138 19.4 16.9 25.3

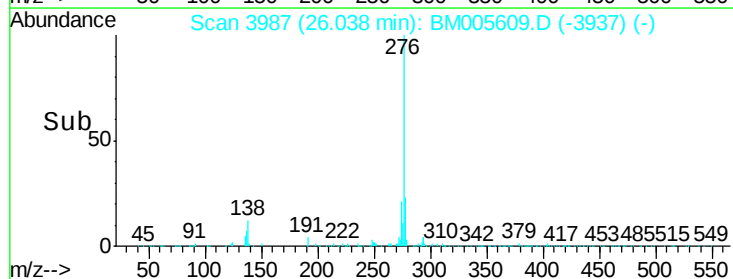
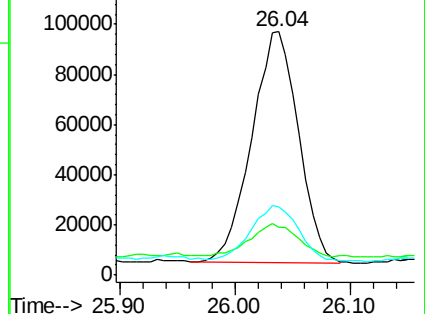
277 28.1 20.2 30.4

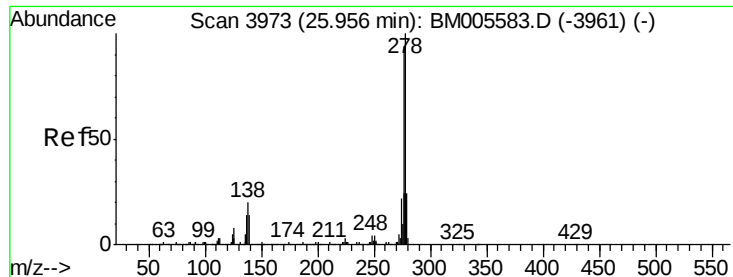


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#90

Dibenzo(a,h)anthracene

Concen: 2.59 ng/ul

RT: 26.04 min Scan# 3987

Delta R.T. 0.08 min

Lab File: BM005609.D

Acq: 23 May 2016 04:44

Instrument :

BNA\_M

ClientSampleId :

JHGK2

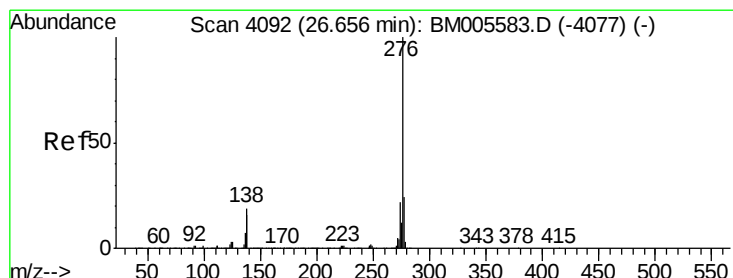
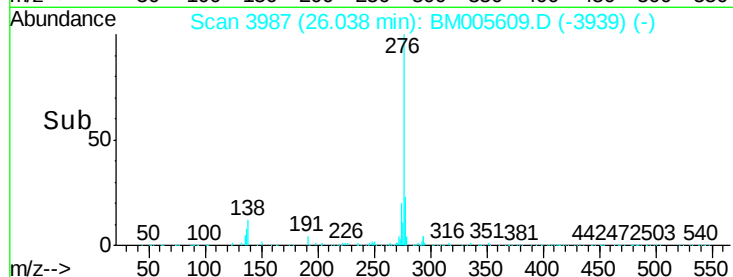
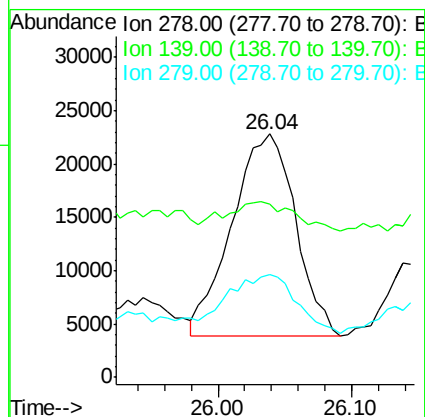
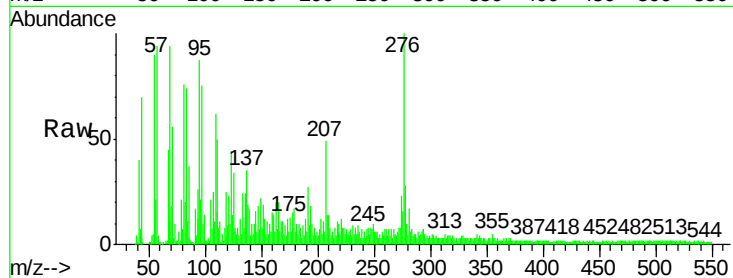
Tgt Ion:278 Resp: 62659

Ion Ratio Lower Upper

278 100

139 71.1 11.8 17.6#

279 42.0 19.4 29.2#



#91

Benzo(g,h,i)perylene

Concen: 9.51 ng/ul

RT: 26.76 min Scan# 4110

Delta R.T. 0.11 min

Lab File: BM005609.D

Acq: 23 May 2016 04:44

Tgt Ion:276 Resp: 232152

Ion Ratio Lower Upper

276 100

138 22.3 15.0 22.6

277 29.6 18.6 28.0#

