

Data Path : Z:\HPCHEM1\BNA M\DATA\BM040617\  
 Data File : BM009581.D  
 Acq On : 06 Apr 2017 05:09  
 Operator : SJ/MA  
 Sample : I2524-14  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB358

Quant Time: Apr 06 05:42:01 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM040417-PAH.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Apr 06 03:48:05 2017  
 Response via : Initial Calibration

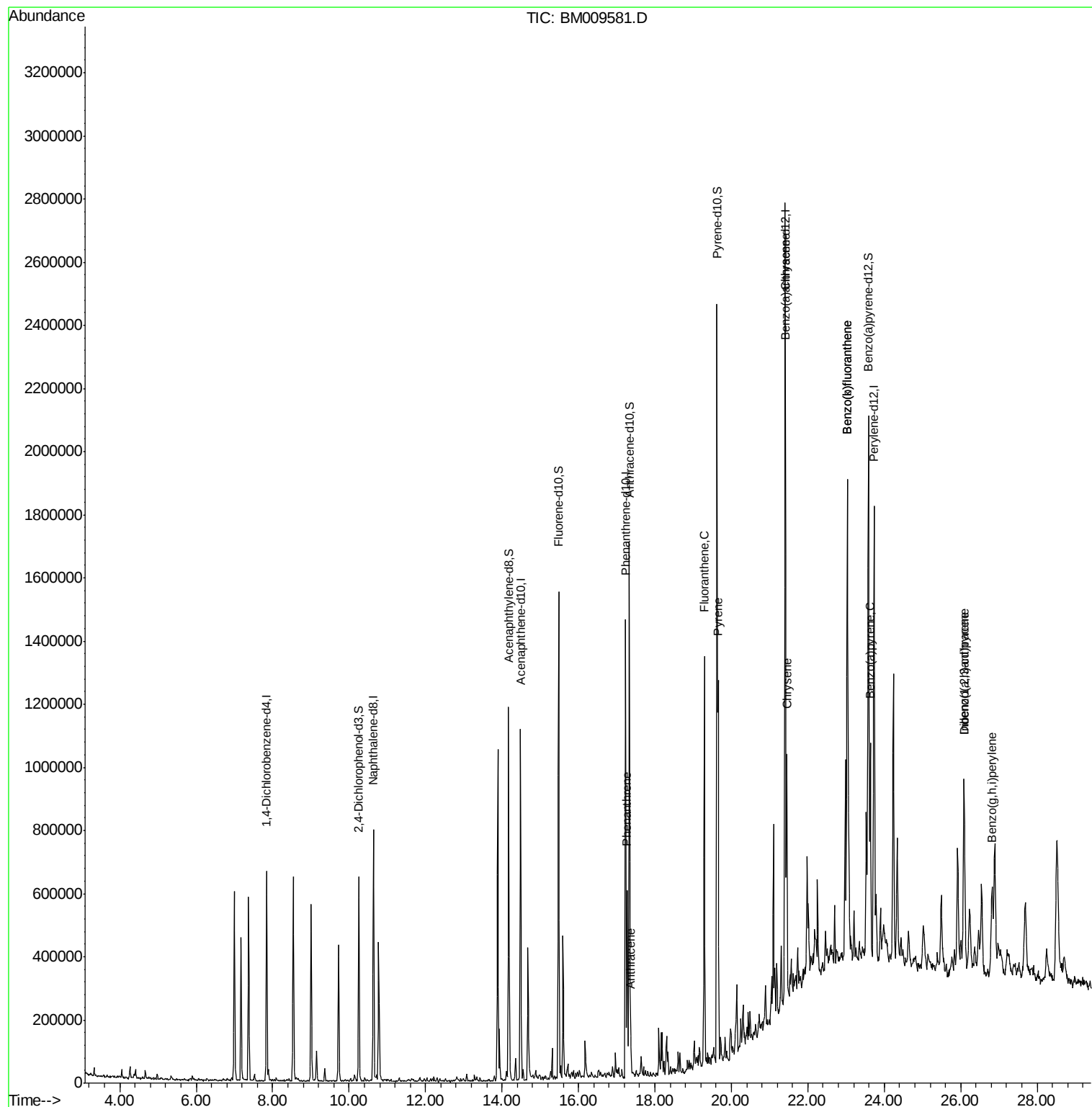
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.84  | 152  | 152329   | 20.00  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.64 | 136  | 590872   | 20.00  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.49 | 164  | 336720   | 20.00  | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.23 | 188  | 775776   | 20.00  | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 21.41 | 240  | 1050406  | 20.00  | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.73 | 264  | 1047721  | 20.00  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 3) 2,4-Dichlorophenol-d3    | 10.25 | 165  | 195571   | 21.53  | ng/uL  | 0.00     |
| 7) Acenaphthylene-d8        | 14.17 | 160  | 776091   | 23.52  | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 15.48 | 176  | 558316   | 23.52  | ng/ul  | 0.00     |
| 15) Anthracene-d10          | 17.33 | 188  | 882028   | 23.76  | ng/ul  | 0.00     |
| 19) Pyrene-d10              | 19.63 | 212  | 1105708  | 25.62  | ng/ul  | 0.00     |
| 26) Benzo(a)pyrene-d12      | 23.59 | 264  | 1171094  | 25.32  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 14) Phenanthrene            | 17.27 | 178  | 325519   | 7.46   | ng/ul  | 98       |
| 16) Anthracene              | 17.37 | 178  | 66944    | 1.48   | ng/ul  | 98       |
| 17) Fluoranthene            | 19.29 | 202  | 715562   | 13.17  | ng/ul# | 95       |
| 20) Pyrene                  | 19.66 | 202  | 681375   | 11.91  | ng/ul  | 94       |
| 21) Benzo(a)anthracene      | 21.40 | 228  | 414383   | 6.98   | ng/ul  | 97       |
| 22) Chrysene                | 21.45 | 228  | 430106   | 7.90   | ng/ul  | 94       |
| 24) Benzo(b)fluoranthene    | 23.03 | 252  | 641033   | 9.89   | ng/ul  | 99       |
| 25) Benzo(k)fluoranthene    | 23.03 | 252  | 641033   | 10.38  | ng/ul  | 99       |
| 27) Benzo(a)pyrene          | 23.63 | 252  | 464542   | 7.54   | ng/ul# | 97       |
| 28) Indeno(1,2,3-cd)pyrene  | 26.09 | 276  | 362779   | 5.25   | ng/ul# | 92       |
| 29) Dibenzo(a,h)anthracene  | 26.09 | 278  | 93625    | 1.59   | ng/ul# | 91       |
| 30) Benzo(a,h,i)perylene    | 26.82 | 276  | 326455   | 5.73   | ng/ul# | 94       |

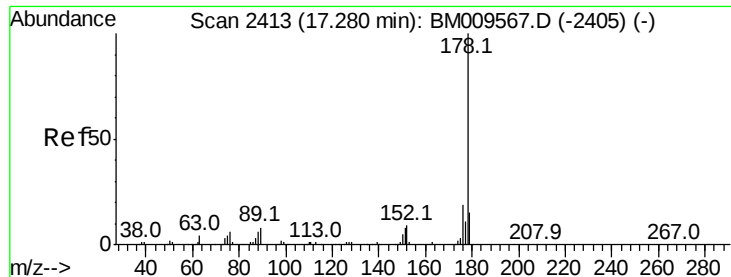
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#14

Phenanthrene

Concen: 7.46 ng/ul

RT: 17.27 min Scan# 2412

Delta R.T. -0.01 min

Lab File: BM009581.D

Acq: 06 Apr 2017 05:09

Instrument :

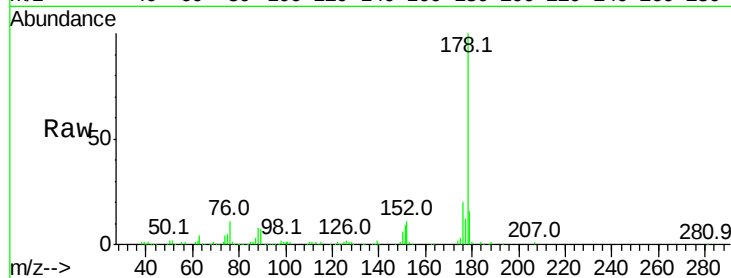
BNA\_M

ClientSampleId :

CB358

Tot Ion:178 Resp: 325519

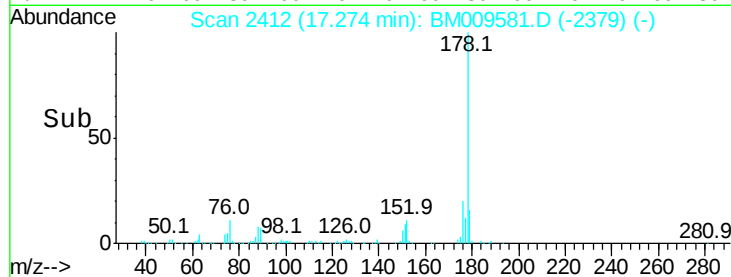
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 16.5  | 12.2  | 18.4  |
| 176 | 19.9  | 16.4  | 24.6  |



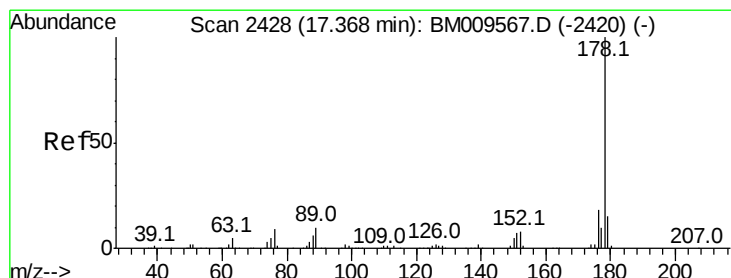
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



Time-->



#16

Anthracene

Concen: 1.48 ng/ul

RT: 17.37 min Scan# 2428

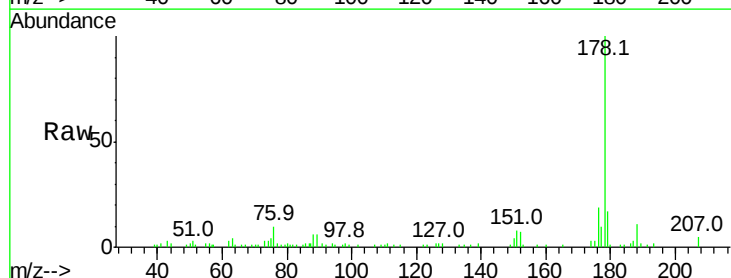
Delta R.T. 0.00 min

Lab File: BM009581.D

Acq: 06 Apr 2017 05:09

Tgt Ion:178 Resp: 66944

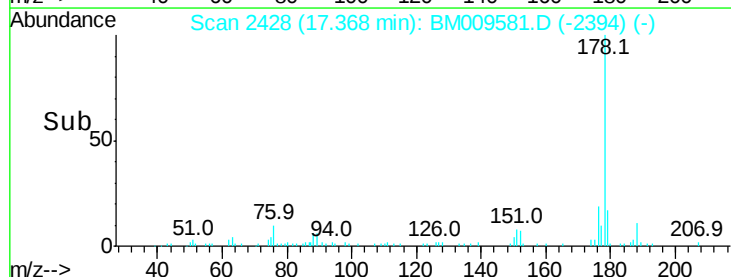
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 16.9  | 12.7  | 19.1  |
| 176 | 19.3  | 15.8  | 23.8  |



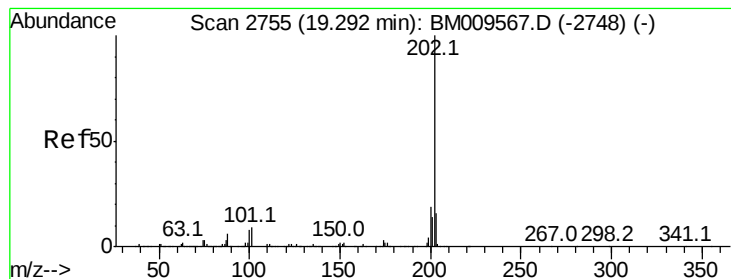
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



Time-->



#17

Fluoranthene

Concen: 13.17 ng/ul

RT: 19.29 min Scan# 2755

Delta R.T. 0.00 min

Lab File: BM009581.D

Acq: 06 Apr 2017 05:09

Instrument :

BNA\_M

ClientSampleId :

CB358

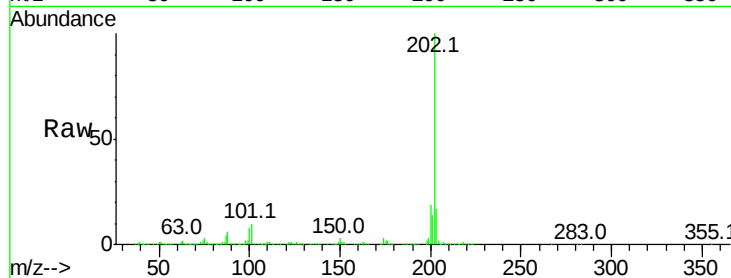
Tot Ion:202 Resp: 715562

Ion Ratio Lower Upper

202 100

101 9.8 9.8 14.8#

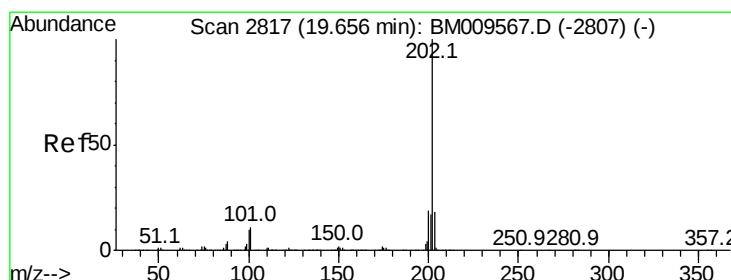
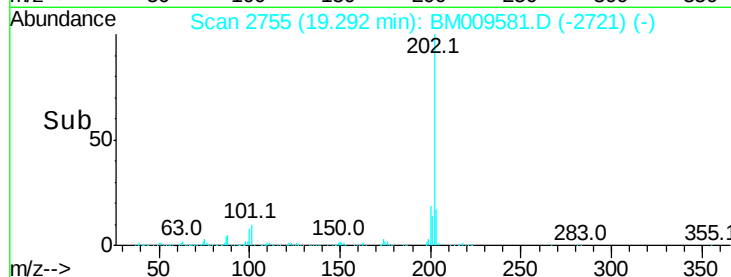
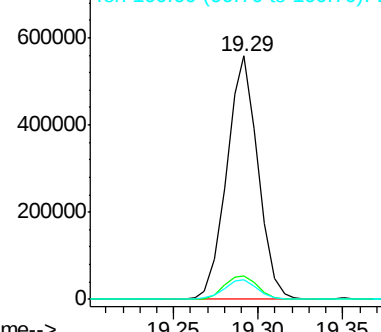
100 7.9 7.5 11.3



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



#20

Pyrene

Concen: 11.91 ng/ul

RT: 19.66 min Scan# 2817

Delta R.T. 0.00 min

Lab File: BM009581.D

Acq: 06 Apr 2017 05:09

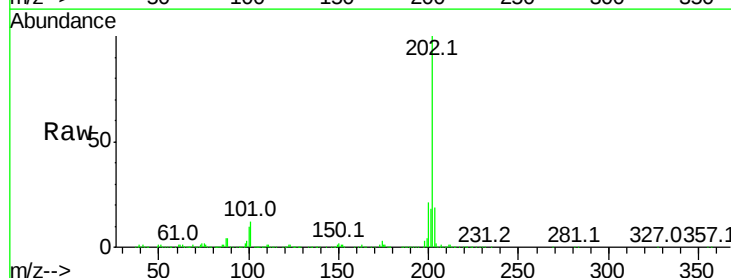
Tgt Ion:202 Resp: 681375

Ion Ratio Lower Upper

202 100

101 11.7 11.2 16.8

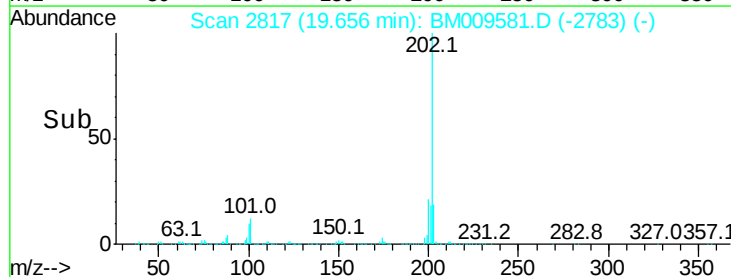
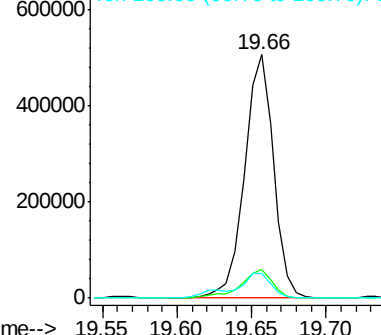
100 10.0 9.8 14.6

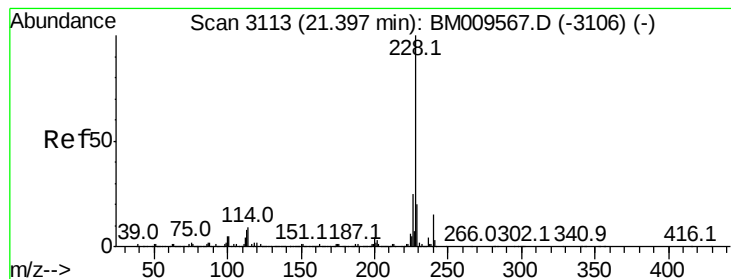


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#21

Benzo(a)anthracene

Concen: 6.98 ng/ul

RT: 21.40 min Scan# 3113

Delta R.T. 0.00 min

Lab File: BM009581.D

Acq: 06 Apr 2017 05:09

Instrument :

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ClientSampleId :

CB358

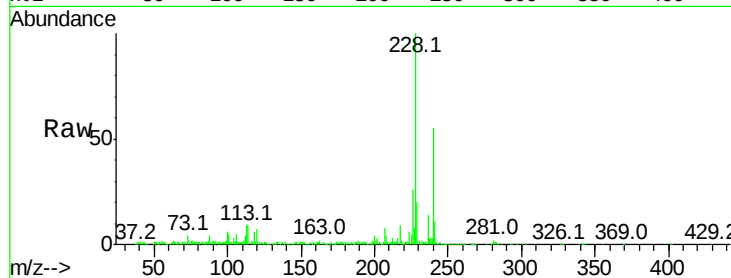
Tot Ion:228 Resp: 414383

Ion Ratio Lower Upper

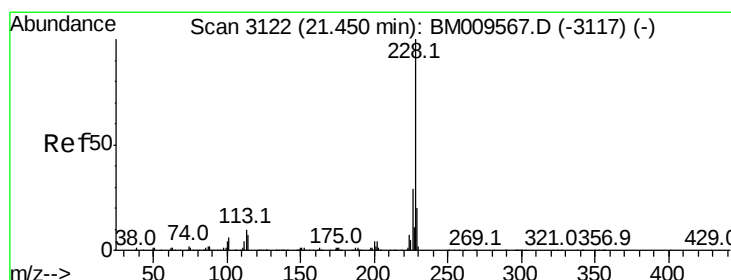
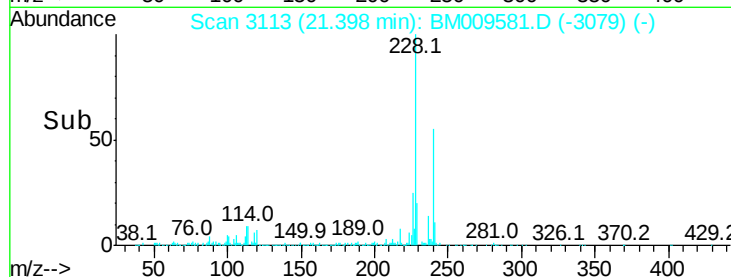
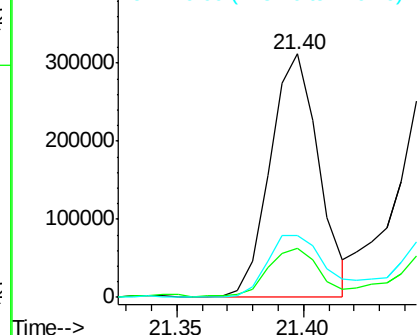
228 100

229 20.3 15.9 23.9

226 25.6 22.1 33.1



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



#22

Chrysene

Concen: 7.90 ng/ul

RT: 21.45 min Scan# 3122

Delta R.T. 0.00 min

Lab File: BM009581.D

Acq: 06 Apr 2017 05:09

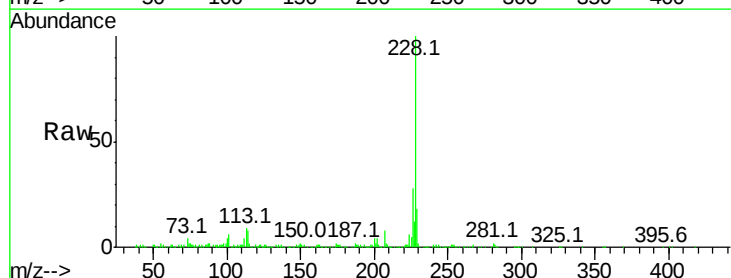
Tgt Ion:228 Resp: 430106

Ion Ratio Lower Upper

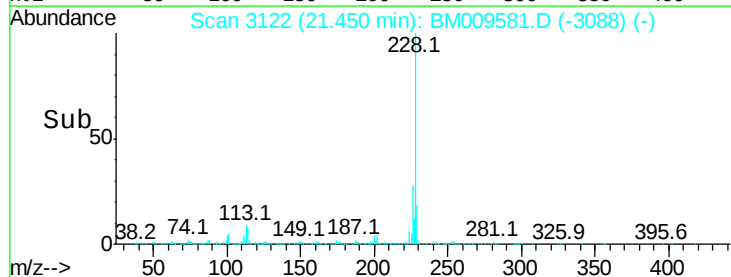
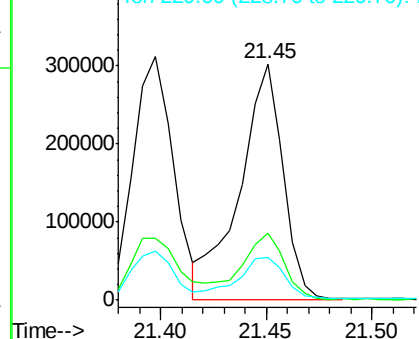
228 100

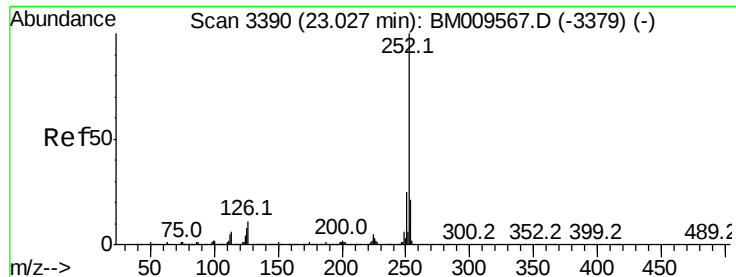
226 28.2 25.0 37.6

229 17.9 16.6 25.0



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





#24

Benzo(b)fluoranthene

Concen: 9.89 ng/ul

RT: 23.03 min Scan# 3391

Delta R.T. 0.01 min

Lab File: BM009581.D

Acq: 06 Apr 2017 05:09

Instrument :

BNA\_M

ClientSampleId :

CB358

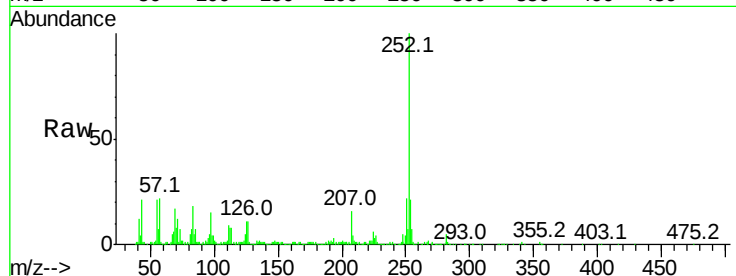
Tot Ion:252 Resp: 641033

Ion Ratio Lower Upper

252 100

253 21.3 17.8 26.6

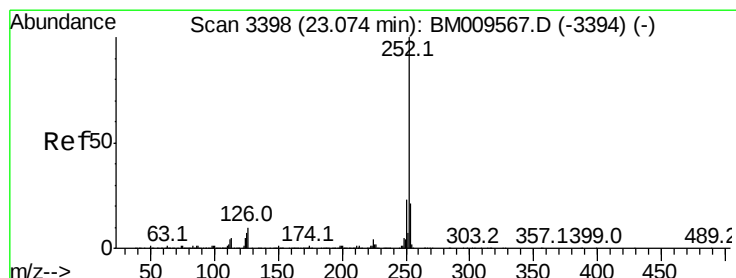
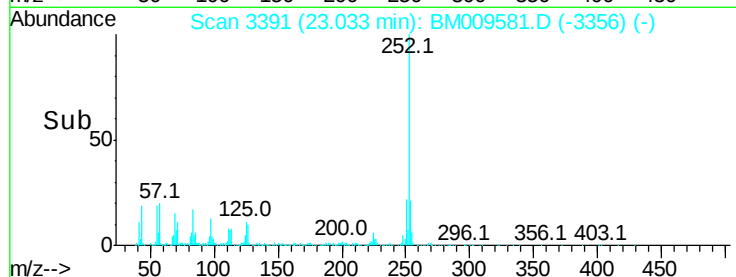
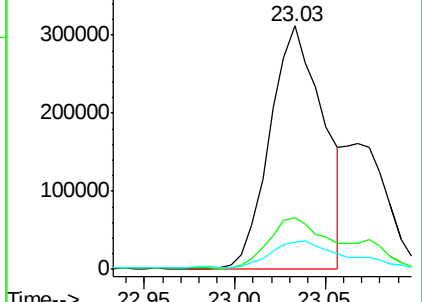
125 11.5 9.4 14.0



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



#25

Benzo(k)fluoranthene

Concen: 10.38 ng/ul

RT: 23.03 min Scan# 3391

Delta R.T. -0.04 min

Lab File: BM009581.D

Acq: 06 Apr 2017 05:09

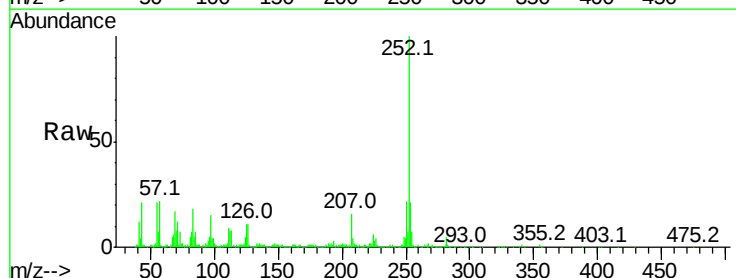
Tgt Ion:252 Resp: 641033

Ion Ratio Lower Upper

252 100

253 21.3 17.4 26.2

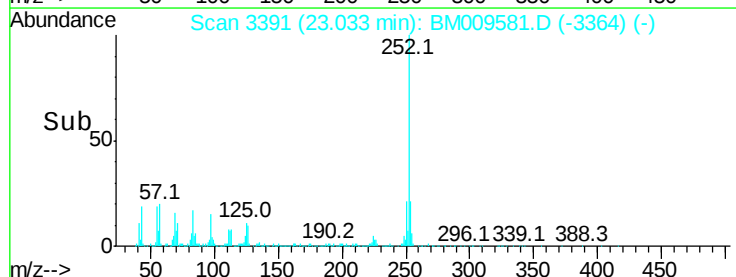
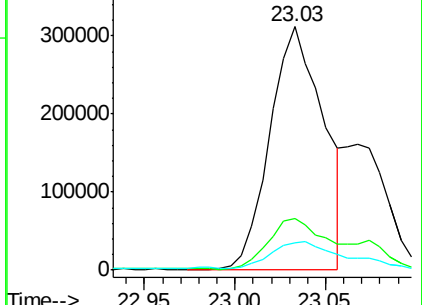
125 11.5 8.8 13.2

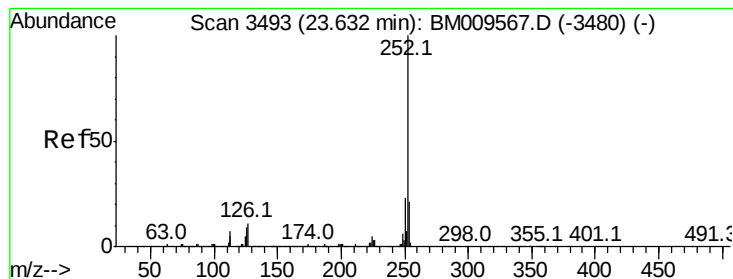


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#27

Benzo(a)pyrene

Concen: 7.54 ng/ul

RT: 23.63 min Scan# 3493

Delta R.T. 0.00 min

Lab File: BM009581.D

Acq: 06 Apr 2017 05:09

Instrument :

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ClientSampleId :

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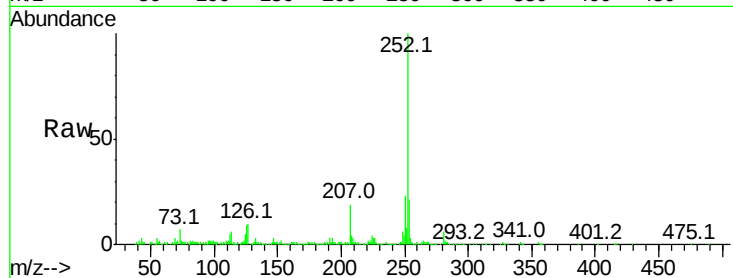
Tot Ion:252 Resp: 464542

Ion Ratio Lower Upper

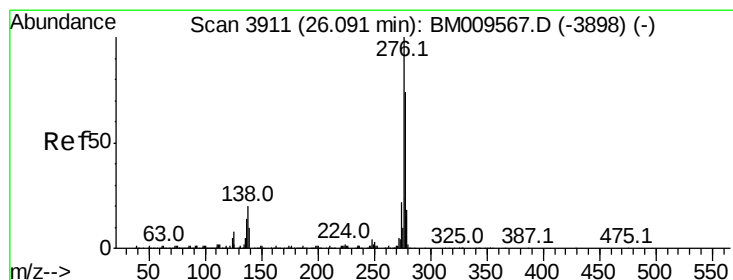
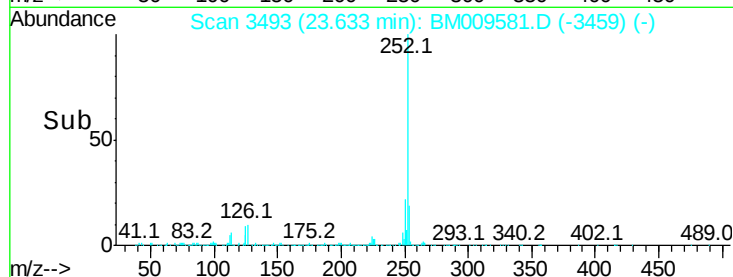
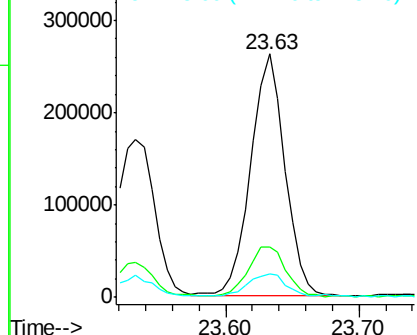
252 100

253 20.7 17.1 25.7

125 9.4 9.4 14.2#



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



#28

Indeno(1,2,3-cd)pyrene

Concen: 5.25 ng/ul

RT: 26.09 min Scan# 3910

Delta R.T. -0.01 min

Lab File: BM009581.D

Acq: 06 Apr 2017 05:09

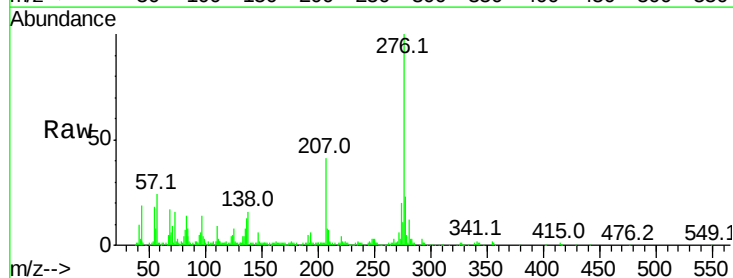
Tgt Ion:276 Resp: 362779

Ion Ratio Lower Upper

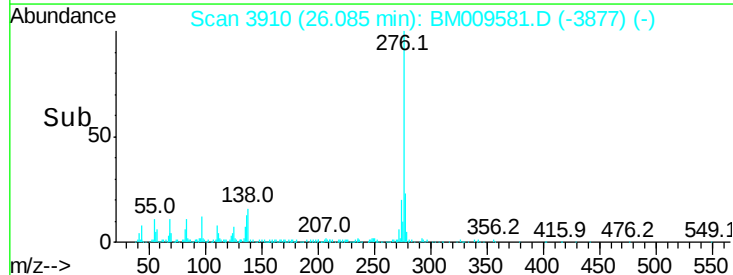
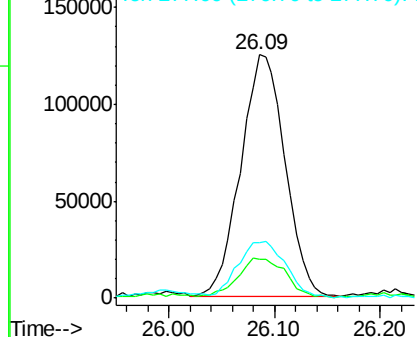
276 100

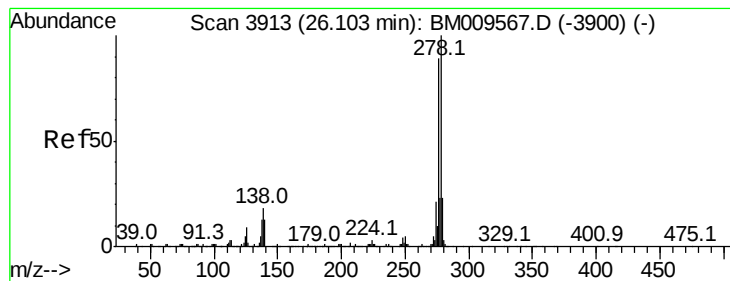
138 15.9 17.8 26.6#

277 22.9 19.4 29.0



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





#29

Dibenzo(a,h)anthracene

Concen: 1.59 ng/ul

RT: 26.09 min Scan# 3911

Delta R.T. -0.01 min

Lab File: BM009581.D

Acq: 06 Apr 2017 05:09

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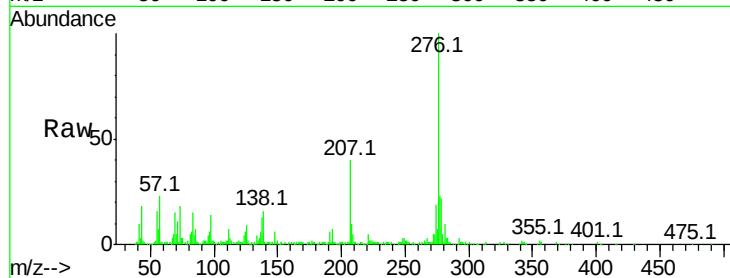
Tot Ion:278 Resp: 93625

Ion Ratio Lower Upper

278 100

139 24.3 14.0 21.0#

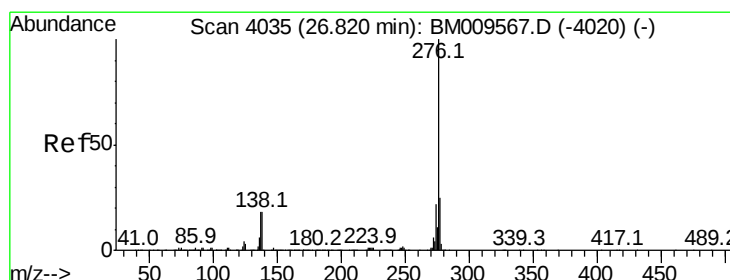
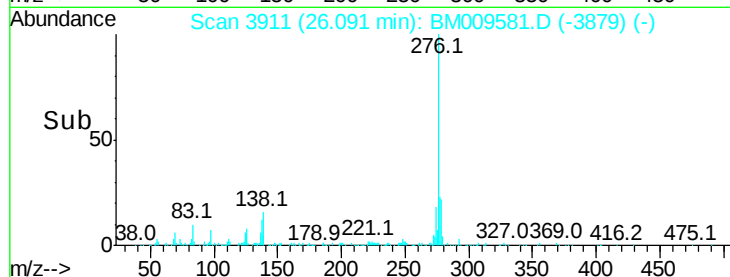
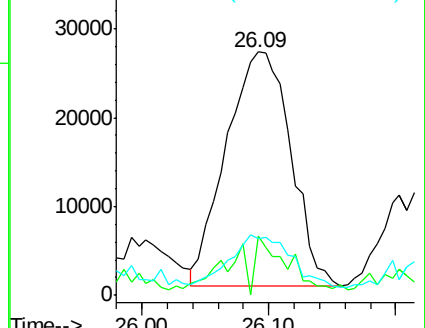
279 23.3 20.6 31.0



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#30

Benzo(g,h,i)perylene

Concen: 5.73 ng/ul

RT: 26.82 min Scan# 4035

Delta R.T. 0.00 min

Lab File: BM009581.D

Acq: 06 Apr 2017 05:09

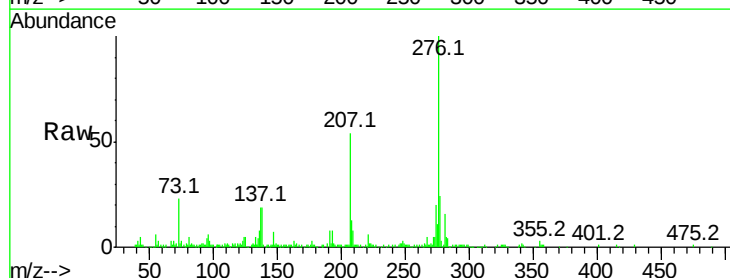
Tgt Ion:276 Resp: 326455

Ion Ratio Lower Upper

276 100

138 18.7 19.0 28.4#

277 24.0 19.7 29.5



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

