

Data Path : Z:\HPCHEM1\BNA M\DATA\BM072116\  
 Data File : BM006584.D  
 Acq On : 21 Jul 2016 10:33  
 Operator : UM/SJ  
 Sample : H4076-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D97K7

Quant Time: Jul 21 15:41:58 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM072016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jul 21 01:09:30 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.61  | 152  | 107658   | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.39 | 136  | 459020   | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.26 | 164  | 257677   | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 17.02 | 188  | 585320   | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.22 | 240  | 654263   | 20.00 | ng/ul | 0.00     |
| 34) Perylene-d12          | 23.41 | 264  | 703428   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 2) 1,4-Dioxane-d8              | 3.14  | 96  | 5045    | 1.90  | ng/uL | 0.00 |
| 3) Phenol-d5                   | 6.79  | 99  | 261057  | 28.50 | ng/ul | 0.00 |
| 4) Bis-(2-Chloroethyl)ether-d  | 6.95  | 67  | 157671  | 27.79 | ng/ul | 0.00 |
| 5) 2-Chlorophenol-d4           | 7.15  | 132 | 198147  | 27.07 | ng/ul | 0.00 |
| 6) 4-Methylphenol-d8           | 8.32  | 113 | 205654  | 28.95 | ng/ul | 0.00 |
| 8) Nitrobenzene-d5             | 8.76  | 128 | 96360   | 27.73 | ng/ul | 0.00 |
| 9) 2-Nitrophenol-d4            | 9.49  | 143 | 102480  | 27.73 | ng/ul | 0.00 |
| 10) 2,4-Dichlorophenol-d3      | 10.02 | 165 | 192988  | 27.64 | ng/ul | 0.00 |
| 12) 4-Chloroaniline-d4         | 10.53 | 131 | 235190  | 30.58 | ng/ul | 0.00 |
| 16) Dimethylphthalate-d6       | 13.67 | 166 | 709995  | 35.14 | ng/ul | 0.00 |
| 17) Acenaphthylene-d8          | 13.96 | 160 | 817359  | 31.70 | ng/ul | 0.00 |
| 20) 4-Nitrophenol-d4           | 14.49 | 143 | 117738  | 33.55 | ng/ul | 0.00 |
| 21) Fluorene-d10               | 15.26 | 176 | 642693  | 35.57 | ng/ul | 0.00 |
| 24) 4,6-Dinitro-2-methylphenol | 15.40 | 200 | 78143   | 25.72 | ng/ul | 0.00 |
| 26) Anthracene-d10             | 17.12 | 188 | 1103269 | 39.70 | ng/ul | 0.00 |
| 30) Pyrene-d10                 | 19.42 | 212 | 1246465 | 41.81 | ng/ul | 0.00 |
| 37) Benzo(a)pyrene-d12         | 23.27 | 264 | 1307012 | 40.39 | ng/ul | 0.00 |

## Target Compounds

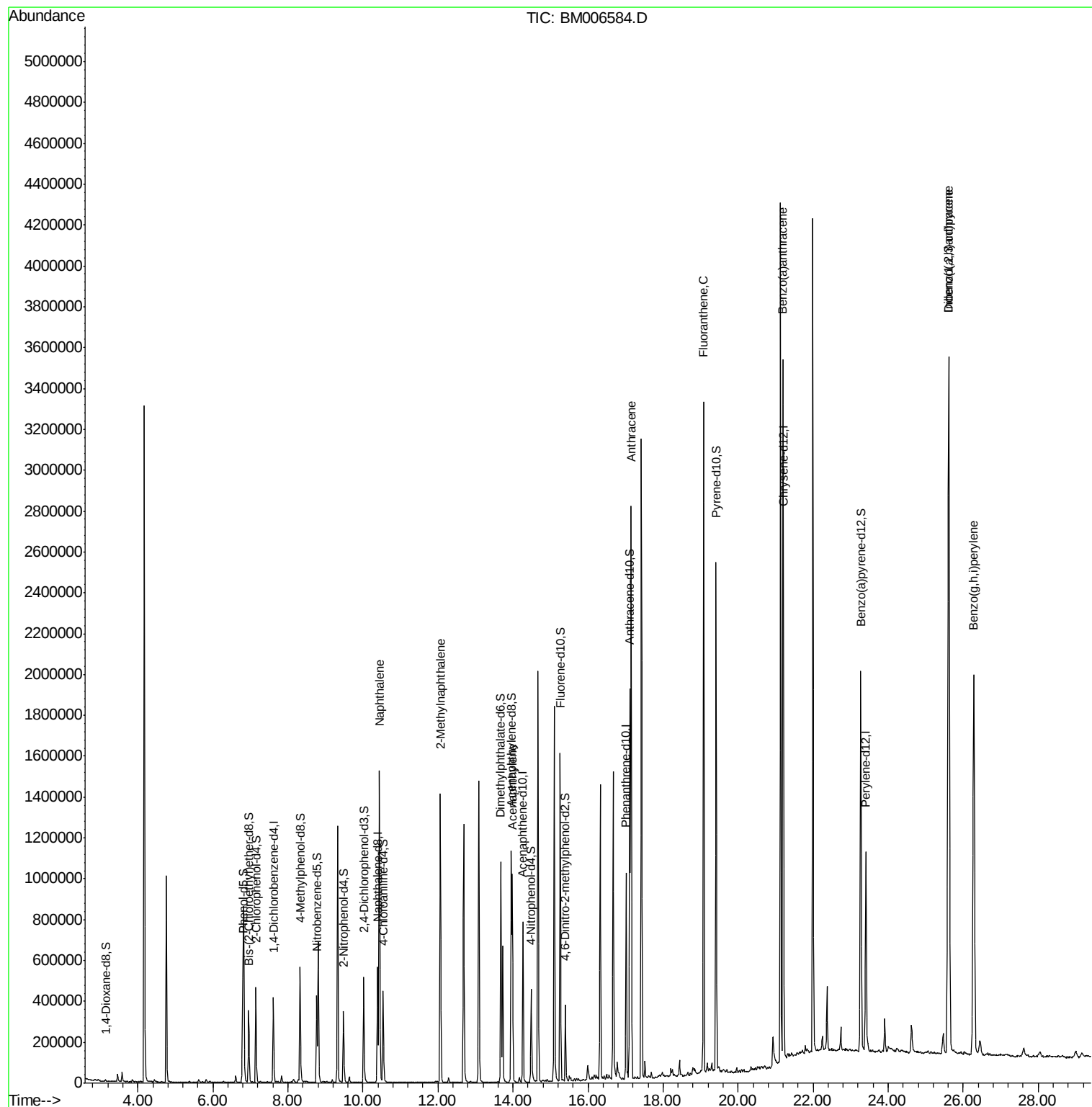
|                            |       |     |         |       |       | Ovalue |
|----------------------------|-------|-----|---------|-------|-------|--------|
| 11) Naphthalene            | 10.44 | 128 | 1242940 | 52.52 | ng/ul | 99     |
| 13) 2-Methylnaphthalene    | 12.06 | 142 | 710160  | 40.89 | ng/ul | 98     |
| 18) Acenaphthylene         | 13.98 | 152 | 672472  | 24.35 | ng/ul | 97     |
| 27) Anthracene             | 17.15 | 178 | 1762250 | 51.99 | ng/ul | 98     |
| 28) Fluoranthene           | 19.08 | 202 | 2060747 | 53.29 | ng/ul | 98     |
| 32) Benzo(a)anthracene     | 21.20 | 228 | 1733703 | 43.72 | ng/ul | 97     |
| 39) Indeno(1,2,3-cd)pyrene | 25.61 | 276 | 2493942 | 52.47 | ng/ul | 95     |
| 40) Dibenzo(a,h)anthracene | 25.62 | 278 | 2170271 | 55.09 | ng/ul | 99     |
| 41) Benzo(a,h,i)perylene   | 26.29 | 276 | 2337983 | 57.39 | ng/ul | 97     |

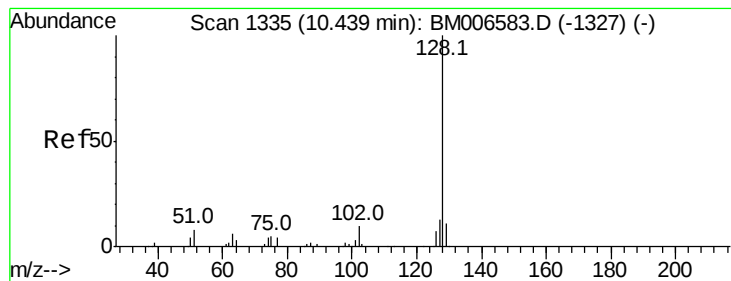
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#11

Naphthalene

Concen: 52.52 ng/ul

RT: 10.44 min Scan# 1335

Delta R.T. 0.00 min

Lab File: BM006584.D

Acq: 21 Jul 2016 10:33

Instrument :

BNA\_M

ClientSampleId :

D97K7

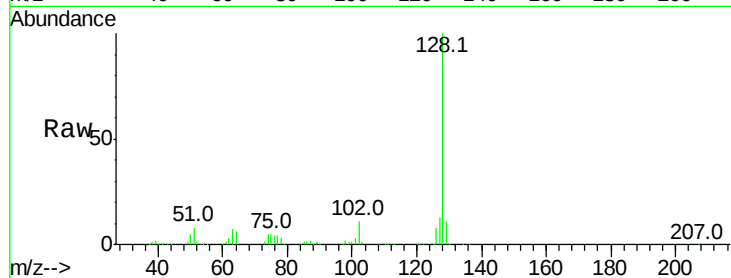
Tot Ion:128 Resp: 1242940

Ion Ratio Lower Upper

128 100

129 10.7 8.3 12.5

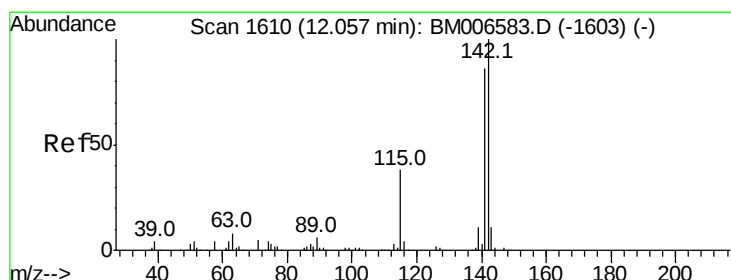
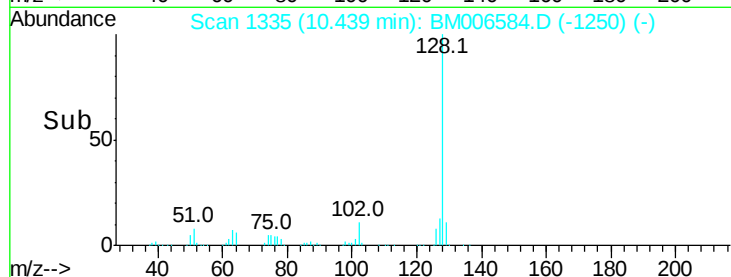
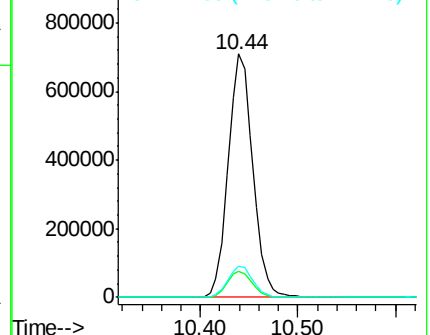
127 13.0 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#13

2-Methylnaphthalene

Concen: 40.89 ng/ul

RT: 12.06 min Scan# 1611

Delta R.T. 0.00 min

Lab File: BM006584.D

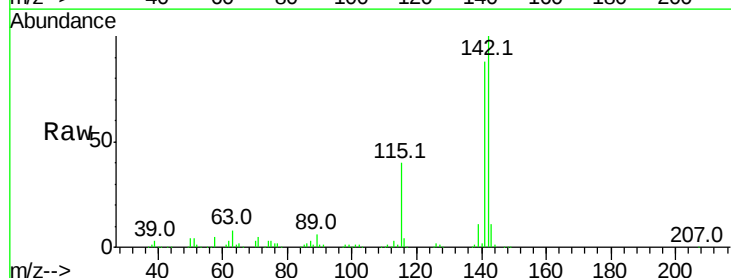
Acq: 21 Jul 2016 10:33

Tgt Ion:142 Resp: 710160

Ion Ratio Lower Upper

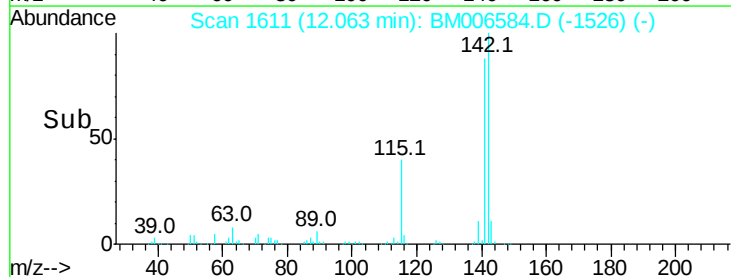
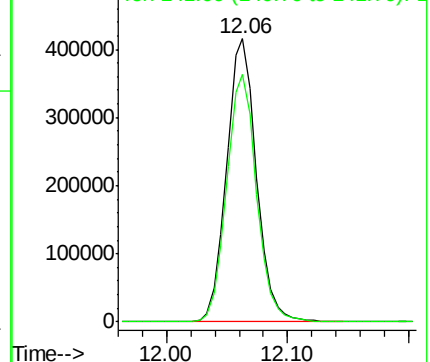
142 100

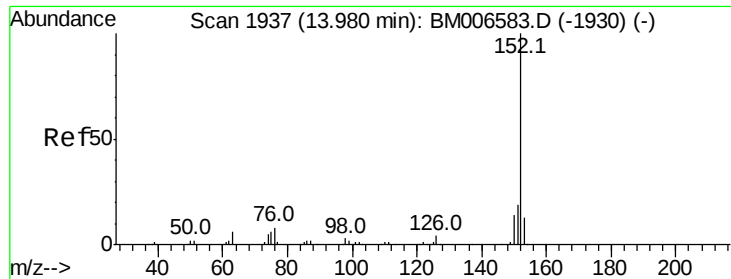
141 87.6 71.3 106.9



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#18

Acenaphthylene

Concen: 24.35 ng/ul

RT: 13.98 min Scan# 1937

Delta R.T. 0.00 min

Lab File: BM006584.D

Acq: 21 Jul 2016 10:33

Instrument :

BNA\_M

ClientSampleId :

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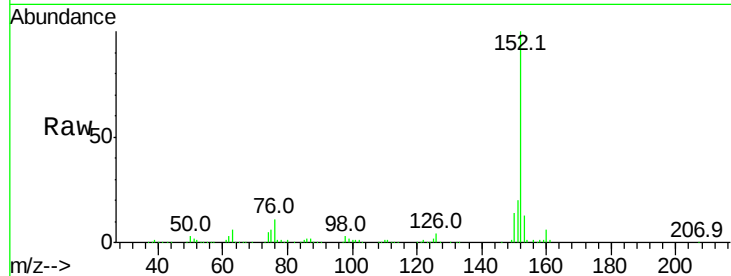
Tot Ion:152 Resp: 672472

Ion Ratio Lower Upper

152 100

151 20.4 17.3 25.9

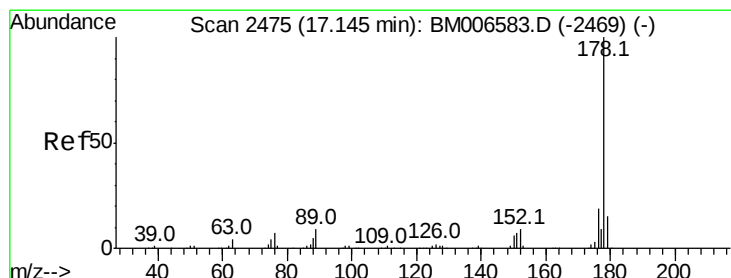
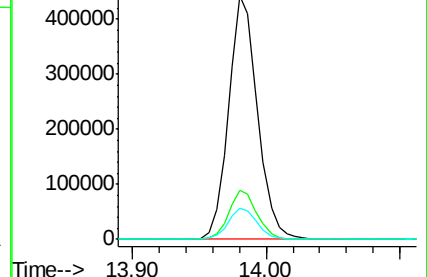
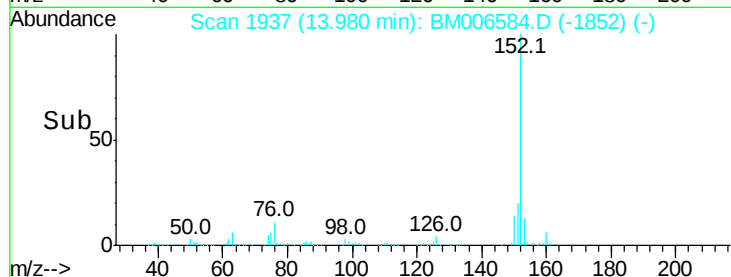
153 12.8 11.1 16.7



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



#27

Anthracene

Concen: 51.99 ng/ul

RT: 17.15 min Scan# 2476

Delta R.T. 0.01 min

Lab File: BM006584.D

Acq: 21 Jul 2016 10:33

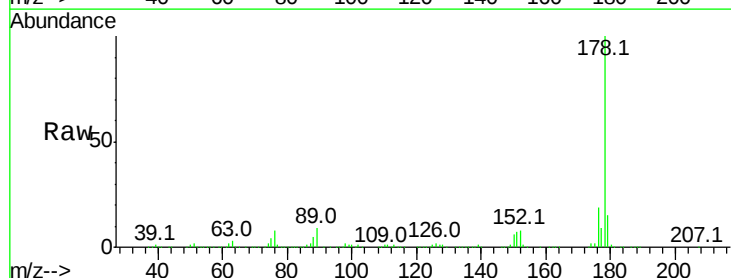
Tgt Ion:178 Resp: 1762250

Ion Ratio Lower Upper

178 100

179 15.4 12.9 19.3

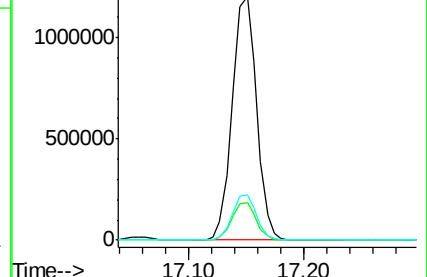
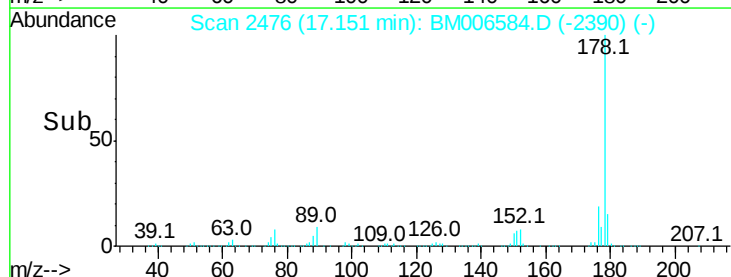
176 18.7 15.6 23.4

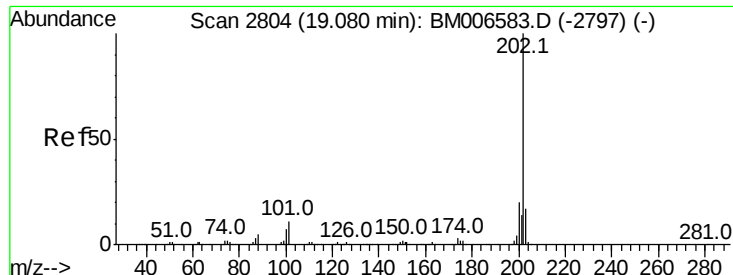


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

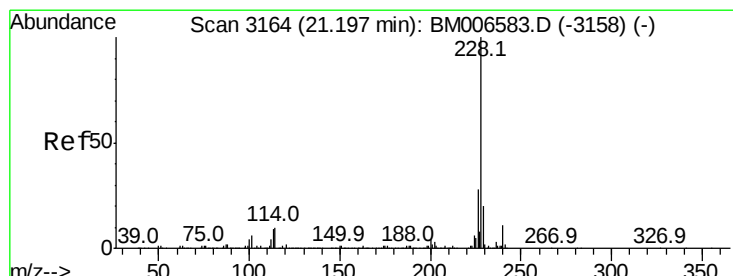
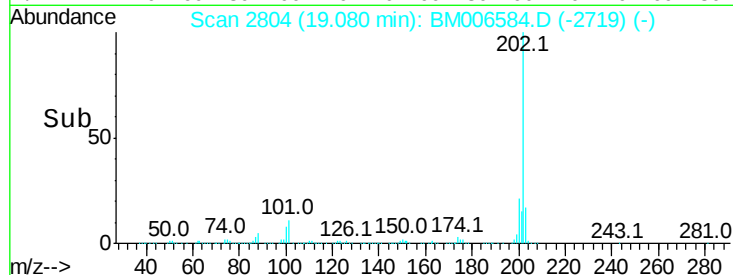
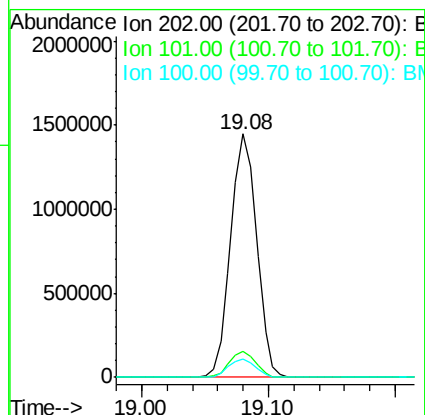
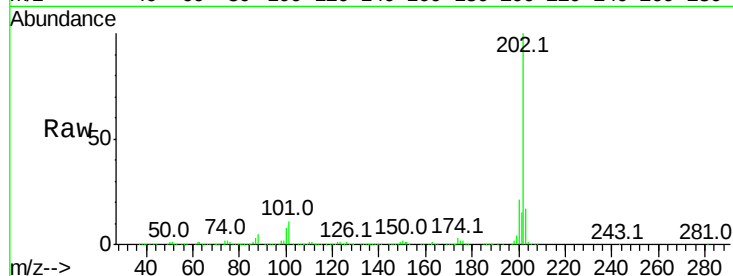




#28  
Fluoranthene  
Concen: 53.29 ng/ul  
RT: 19.08 min Scan# 2804  
Delta R.T. 0.00 min  
Lab File: BM006584.D  
Acq: 21 Jul 2016 10:33

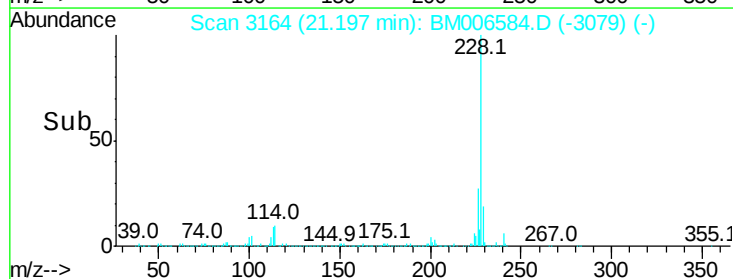
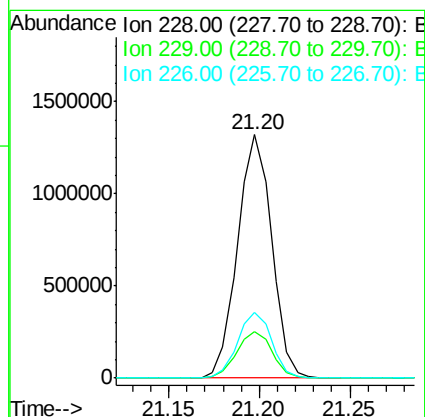
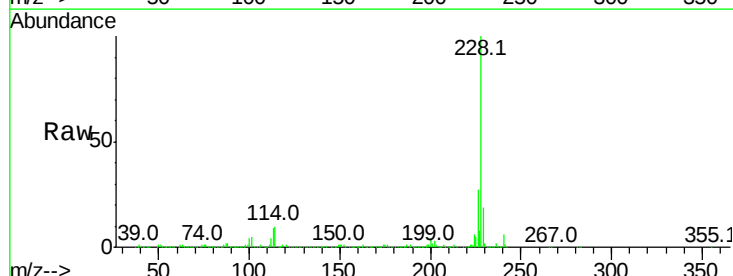
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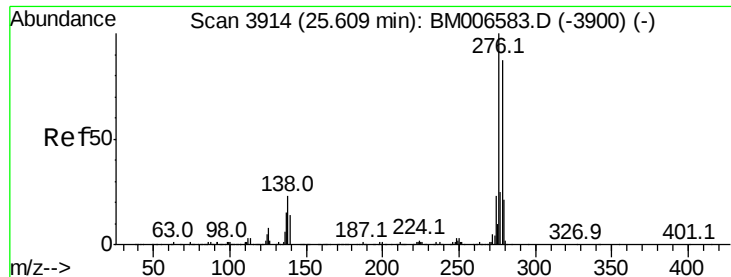
Tot Ion:202 Resp: 2060747  
Ion Ratio Lower Upper  
202 100  
101 10.6 8.9 13.3  
100 7.8 7.0 10.4



#32  
Benzo(a)anthracene  
Concen: 43.72 ng/ul  
RT: 21.20 min Scan# 3164  
Delta R.T. 0.00 min  
Lab File: BM006584.D  
Acq: 21 Jul 2016 10:33

Tgt Ion:228 Resp: 1733703  
Ion Ratio Lower Upper  
228 100  
229 19.2 16.6 25.0  
226 27.2 21.0 31.4





#39

Indeno(1,2,3-cd)pyrene

Concen: 52.47 ng/ul

RT: 25.61 min Scan# 3915

Delta R.T. 0.01 min

Lab File: BM006584.D

Acq: 21 Jul 2016 10:33

Instrument :

BNA\_M

ClientSampleId :

D97K7

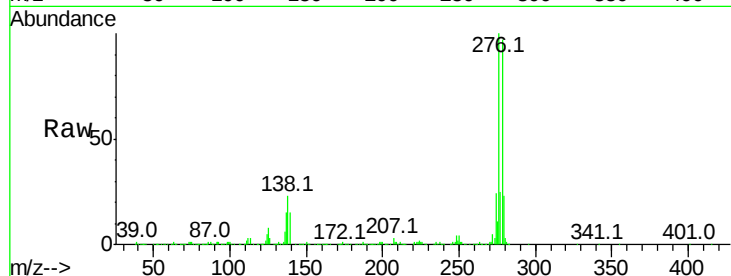
Tot Ion:276 Resp: 2493942

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 23.3  | 15.8  | 23.6  |
| 277 | 25.1  | 19.0  | 28.6  |

276 100

138 23.3 15.8 23.6

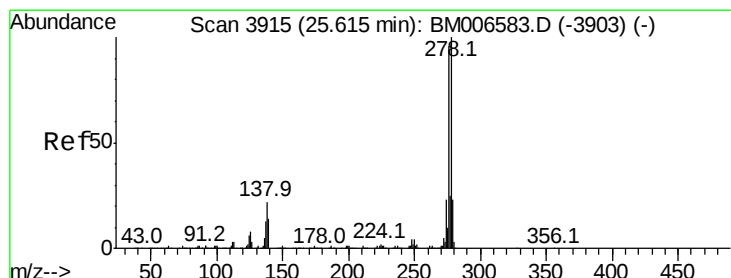
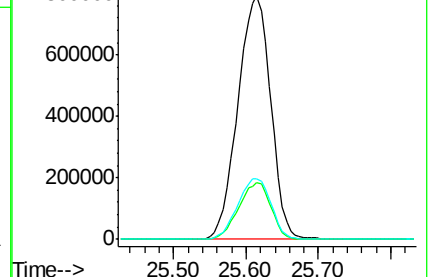
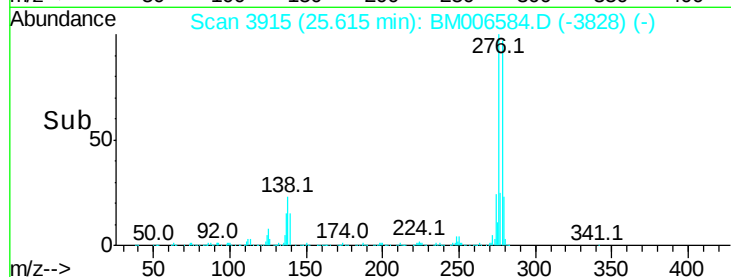
277 25.1 19.0 28.6



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



#40

Dibenzo(a,h)anthracene

Concen: 55.09 ng/ul

RT: 25.62 min Scan# 3916

Delta R.T. 0.01 min

Lab File: BM006584.D

Acq: 21 Jul 2016 10:33

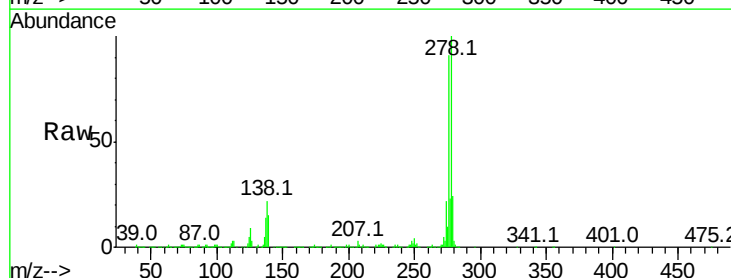
Tgt Ion:278 Resp: 2170271

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 14.8  | 12.1  | 18.1  |
| 279 | 24.0  | 19.8  | 29.8  |

278 100

139 14.8 12.1 18.1

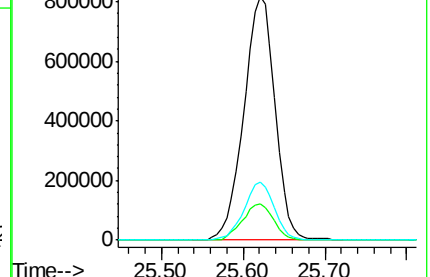
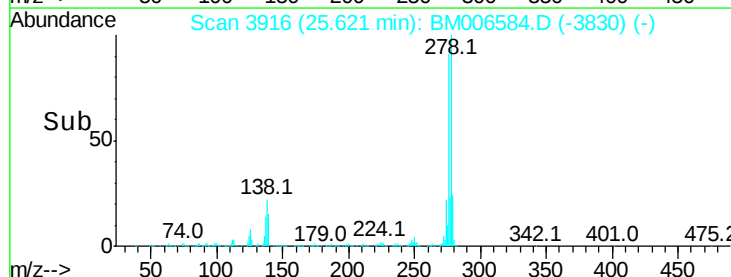
279 24.0 19.8 29.8

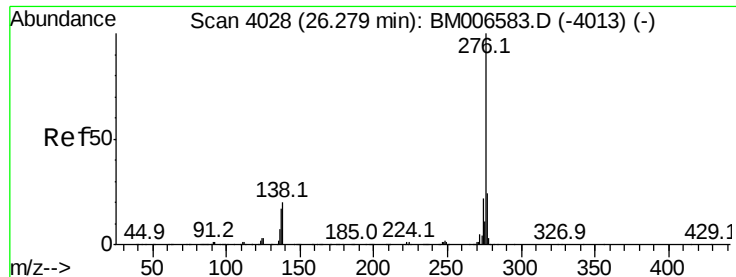


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#41

Benzo(a,h,i)perylene

Concen: 57.39 ng/ul

RT: 26.29 min Scan# 4029

Delta R.T. 0.01 min

Lab File: BM006584.D

Acq: 21 Jul 2016 10:33

Instrument :

BNA\_M

ClientSampleId :

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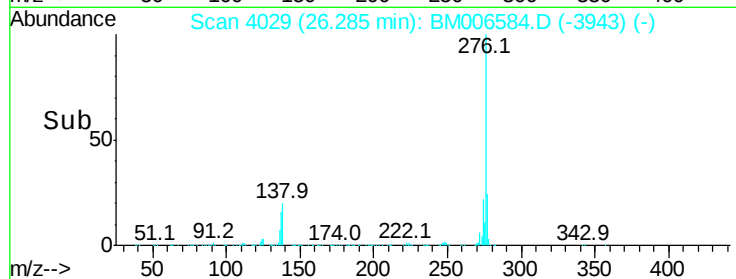
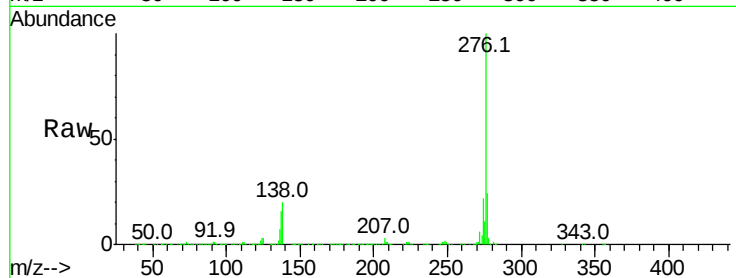
Tot Ion:276 Resp: 2337983

Ion Ratio Lower Upper

276 100

138 19.8 13.9 20.9

277 24.0 19.8 29.6



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

