

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121616\  
 Data File : BM008368.D  
 Acq On : 16 Dec 2016 06:16  
 Operator : UM/SJ  
 Sample : H5937-13  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA8G5

Manual Integrations  
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 12/16/2016 6:22:38 PM

Quant Time: Dec 16 06:56:03 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121616.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 16 05:34:14 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.66  | 152  | 150043   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.44 | 136  | 555380   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.30 | 164  | 344492   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.06 | 188  | 673654   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.26 | 240  | 860100   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.49 | 264  | 917476   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

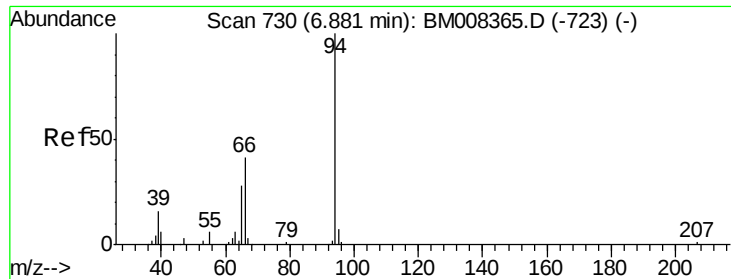
|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.24  | 96  | 6900   | 2.16  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.86  | 99  | 128574 | 11.05 | ng/ul | 0.01 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.01  | 67  | 79740  | 11.92 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.21  | 132 | 108592 | 12.40 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.39  | 113 | 104680 | 11.61 | ng/ul | 0.01 |
| 19) Nitrobenzene-d5            | 8.83  | 128 | 52414  | 13.06 | ng/ul | 0.01 |
| 22) 2-Nitrophenol-d4           | 9.55  | 143 | 55244  | 12.42 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.11 | 165 | 93676  | 11.49 | ng/ul | 0.04 |
| 29) 4-Chloroaniline-d4         | 10.64 | 131 | 54666m | 5.85  | ng/ul | 0.04 |
| 43) Dimethylphthalate-d6       | 13.73 | 166 | 327203 | 14.29 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.00 | 160 | 383814 | 14.18 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.60 | 143 | 27800m | 8.24  | ng/ul | 0.05 |
| 57) Fluorene-d10               | 15.31 | 176 | 285619 | 14.35 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.47 | 200 | 29438  | 7.34  | ng/ul | 0.01 |
| 70) Anthracene-d10             | 17.16 | 188 | 435028 | 14.82 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.46 | 212 | 526195 | 15.84 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.34 | 264 | 588321 | 15.27 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |          |        |        | Qvalue |
|----------------------------|-------|-----|----------|--------|--------|--------|
| 6) Phenol                  | 6.89  | 94  | 19905    | 1.65   | ng/ul  | 94     |
| 44) Dimethylphthalate      | 13.77 | 163 | 113778   | 5.07   | ng/ul  | 100    |
| 49) Acenaphthene           | 14.37 | 153 | 20516    | 1.08   | ng/ul  | 91     |
| 58) Fluorene               | 15.37 | 166 | 33045    | 1.46   | ng/ul  | 92     |
| 69) Phenanthrene           | 17.10 | 178 | 2024200  | 58.64  | ng/ul  | 99     |
| 71) Anthracene             | 17.19 | 178 | 169031m  | 4.82   | ng/ul  |        |
| 72) Carbazole              | 17.47 | 167 | 405938   | 13.16  | ng/ul  | 98     |
| 74) Fluoranthene           | 19.13 | 202 | 6011539  | 141.79 | ng/ul  | 97     |
| 77) Pyrene                 | 19.49 | 202 | 5004757  | 118.51 | ng/ul  | 99     |
| 80) Benzo(a)anthracene     | 21.24 | 228 | 2154394  | 48.46  | ng/ul  | 98     |
| 82) Chrysene               | 21.30 | 228 | 2915533  | 68.20  | ng/ul  | 97     |
| 85) Benzo(b)fluoranthene   | 22.83 | 252 | 4266067  | 86.14  | ng/ul  | 98     |
| 86) Benzo(k)fluoranthene   | 22.86 | 252 | 1484428m | 31.32  | ng/ul  |        |
| 88) Benzo(a)pyrene         | 23.39 | 252 | 2257964  | 47.32  | ng/ul  | 99     |
| 89) Indeno(1,2,3-cd)pyrene | 25.73 | 276 | 2324921  | 40.13  | ng/ul  | 97     |
| 90) Dibenzo(a,h)anthracene | 25.73 | 278 | 562371   | 11.56  | ng/ul# | 88     |
| 91) Benzo(g,h,i)perylene   | 26.42 | 276 | 2300823  | 47.48  | ng/ul  | 99     |

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





#6

Phenol

Concen: 1.65 ng/ul

RT: 6.89 min Scan# 732

Delta R.T. 0.01 min

Lab File: BM008368.D

Acq: 16 Dec 2016 06:16

Instrument :

BNA\_M

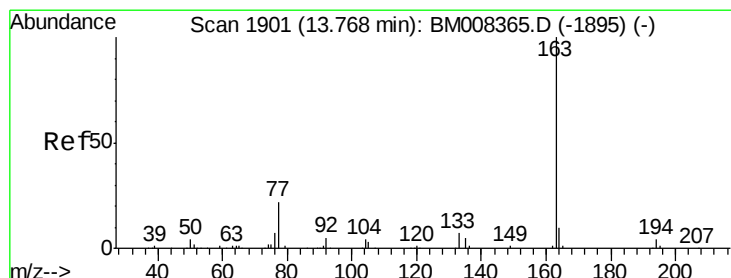
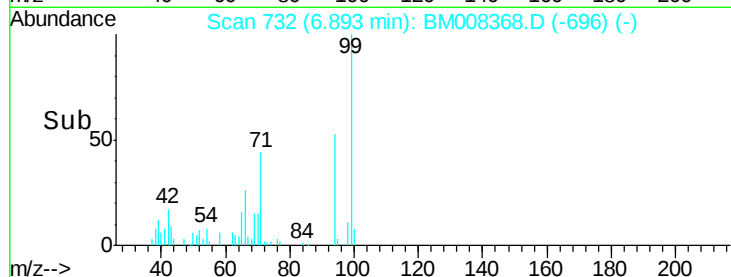
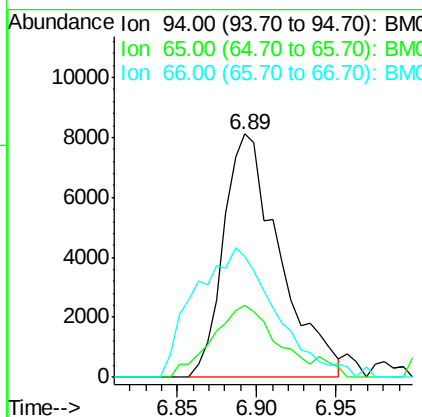
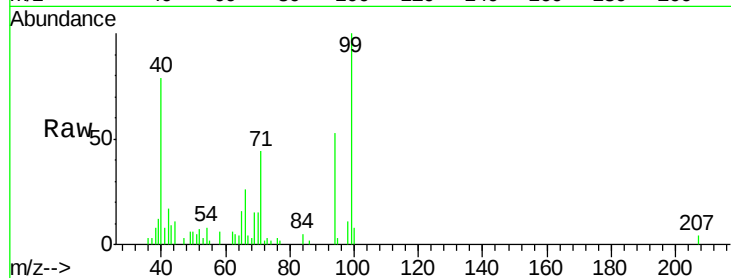
ClientSampled :

DA8G5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 94    | Resp: | 19905 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 29.8  | 22.6  | 34.0  |
| 66        | 49.8  | 35.8  | 53.8  |

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#44

Dimethylphthalate

Concen: 5.07 ng/ul

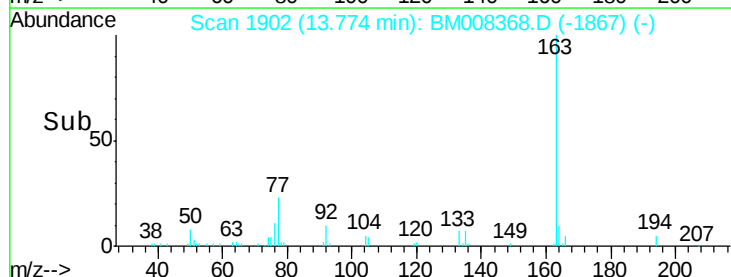
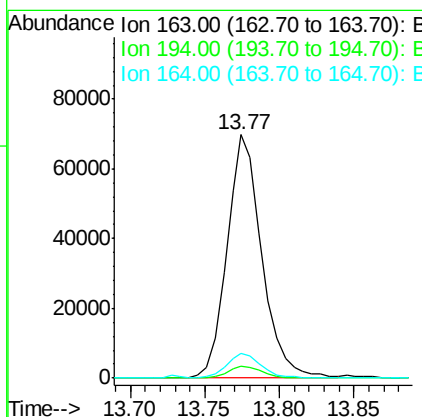
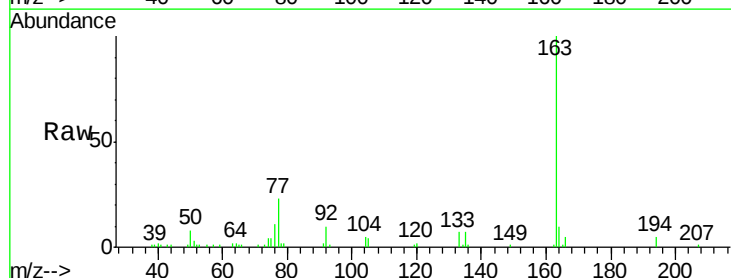
RT: 13.77 min Scan# 1902

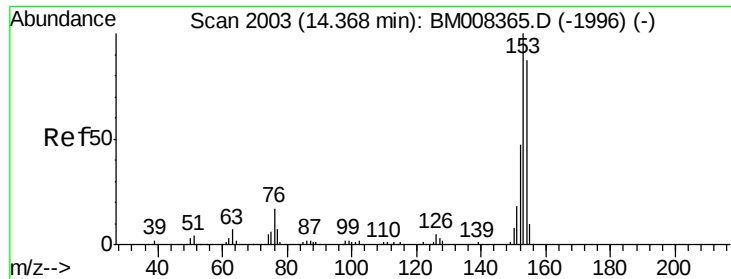
Delta R.T. 0.01 min

Lab File: BM008368.D

Acq: 16 Dec 2016 06:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 113778 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.7   | 3.5   | 5.3    |
| 164       | 9.9   | 7.8   | 11.8   |





#49

Acenaphthene

Concen: 1.08 ng/ul

RT: 14.37 min Scan# 2003

Delta R.T. 0.00 min

Lab File: BM008368.D

Acq: 16 Dec 2016 06:16

Instrument :

BNA\_M

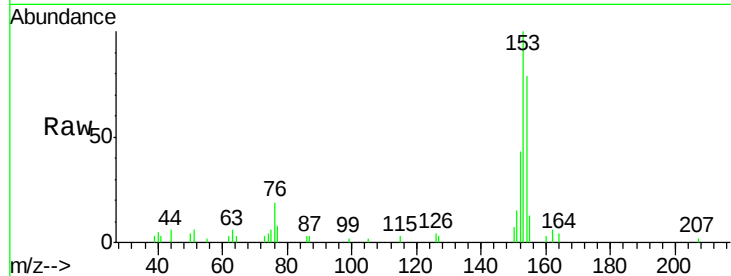
ClientSampleId :

DA8G5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 20516 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 42.6  | 36.6  | 54.8  |
| 154       | 79.4  | 71.4  | 107.2 |

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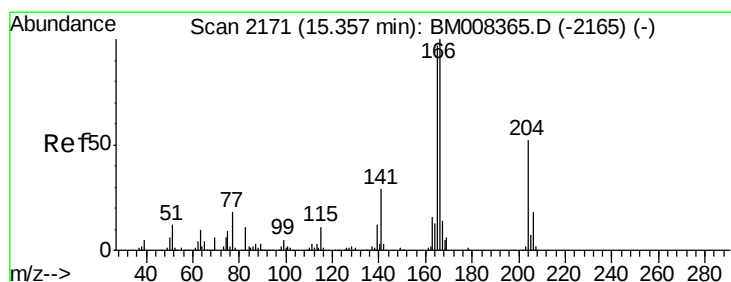
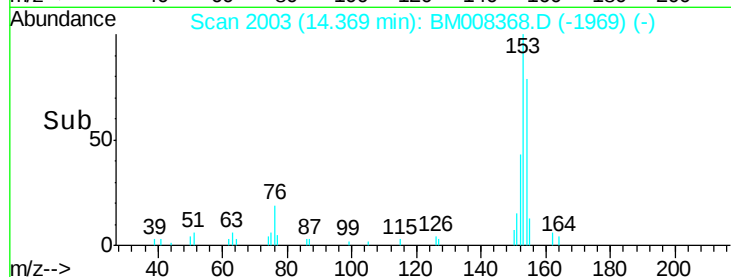
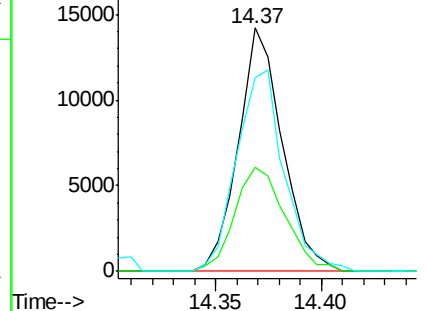
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Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#58

Fluorene

Concen: 1.46 ng/ul

RT: 15.37 min Scan# 2173

Delta R.T. 0.01 min

Lab File: BM008368.D

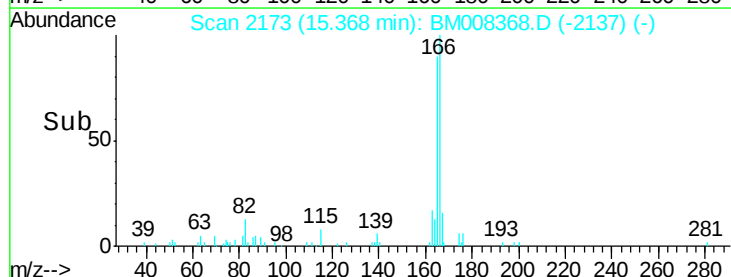
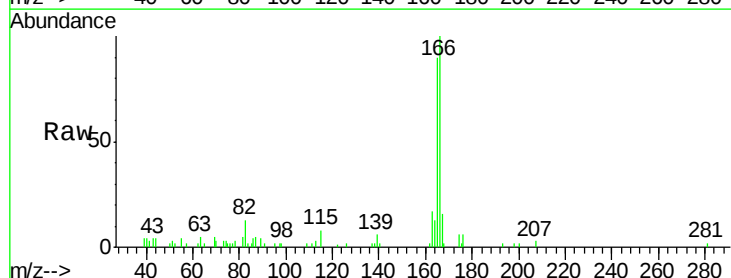
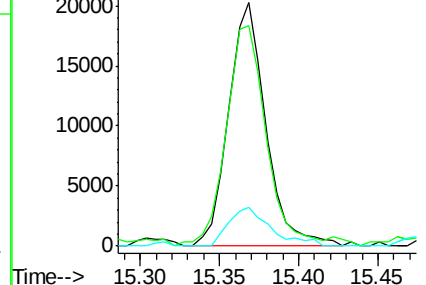
Acq: 16 Dec 2016 06:16

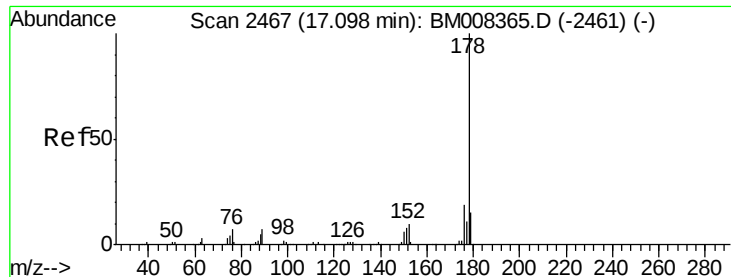
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 33045 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 90.4  | 79.3  | 118.9 |
| 167       | 16.0  | 10.7  | 16.1  |

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





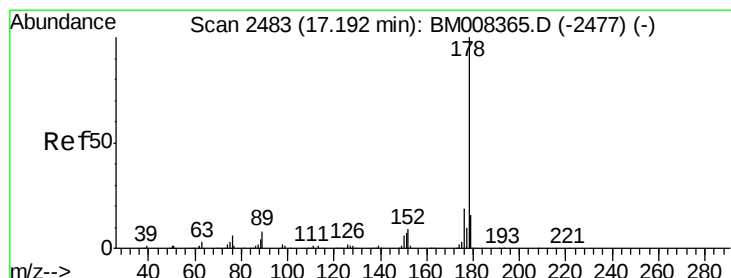
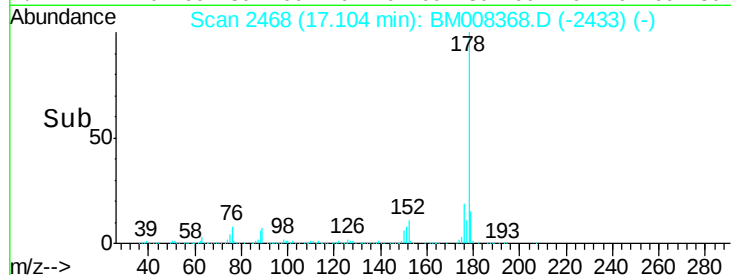
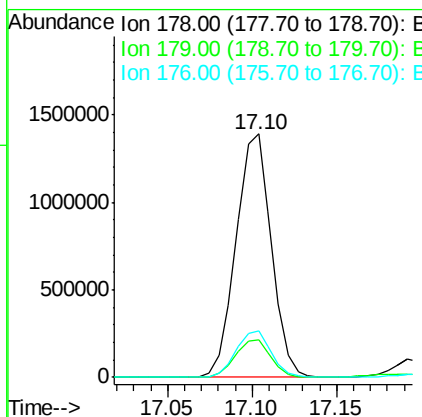
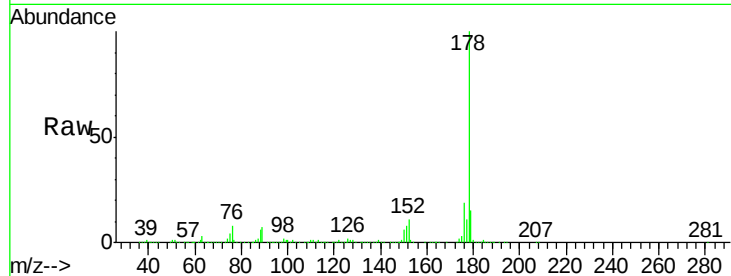
#69  
 Phenanthrene  
 Concen: 58.64 ng/ul  
 RT: 17.10 min Scan# 2468  
 Delta R.T. 0.01 min  
 Lab File: BM008368.D  
 Acq: 16 Dec 2016 06:16

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA8G5

Tgt Ion:178 Resp: 2024200  
 Ion Ratio Lower Upper  
 178 100  
 179 15.2 12.0 18.0  
 176 18.9 14.6 21.8

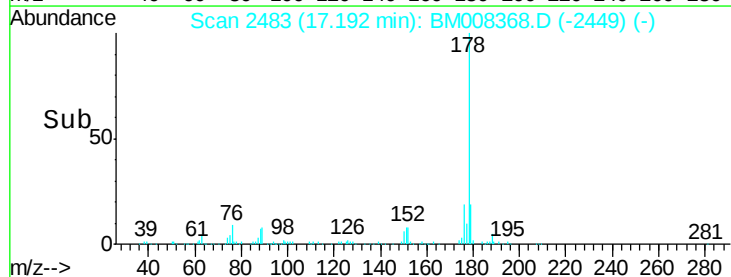
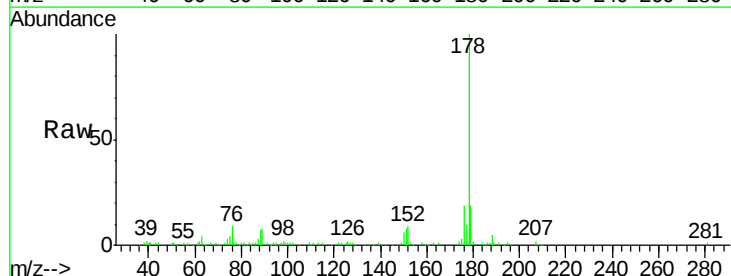
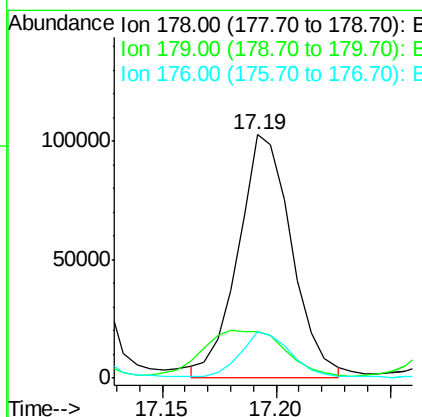
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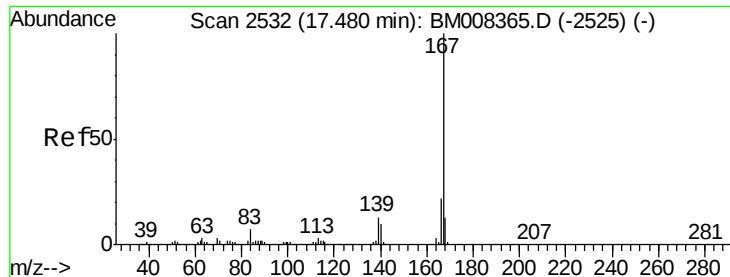
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#71  
 Anthracene  
 Concen: 4.82 ng/ul m  
 RT: 17.19 min Scan# 2483  
 Delta R.T. 0.00 min  
 Lab File: BM008368.D  
 Acq: 16 Dec 2016 06:16

Tgt Ion:178 Resp: 169031  
 Ion Ratio Lower Upper  
 178 100  
 179 19.2 12.1 18.1#  
 176 18.9 14.3 21.5





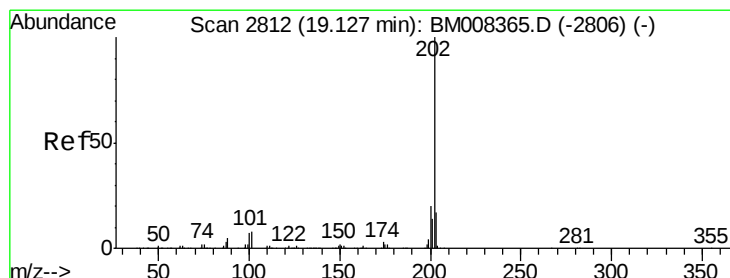
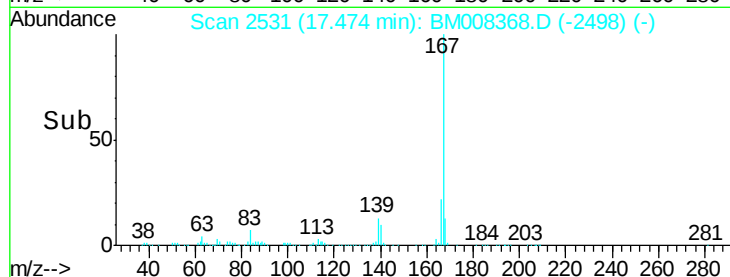
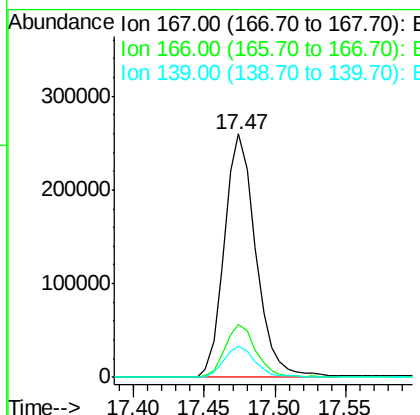
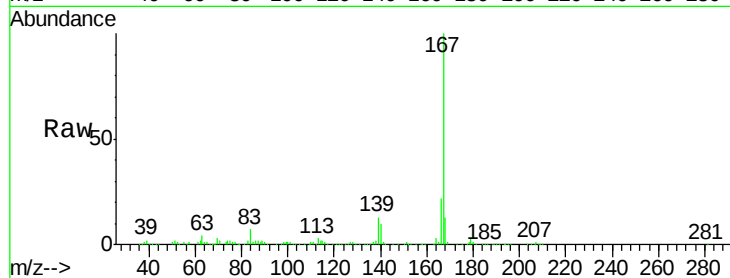
#72  
 Carbazole  
 Concen: 13.16 ng/ul  
 RT: 17.47 min Scan# 2531  
 Delta R.T. -0.01 min  
 Lab File: BM008368.D  
 Acq: 16 Dec 2016 06:16

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA8G5

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.8  | 16.4  | 24.6  |
| 139     | 12.9  | 10.2  | 15.4  |

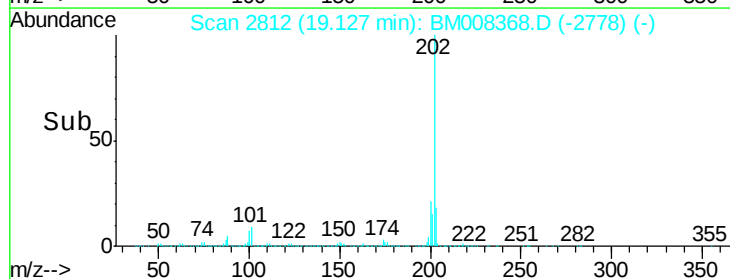
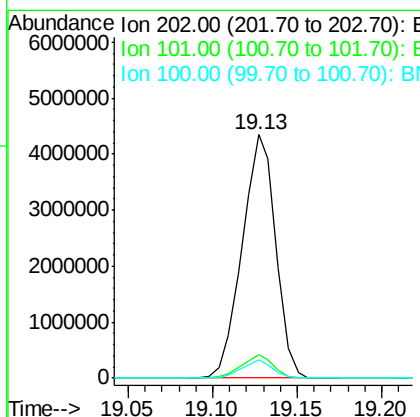
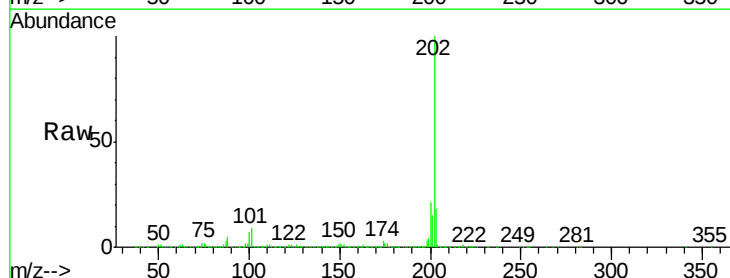
Manual Integrations  
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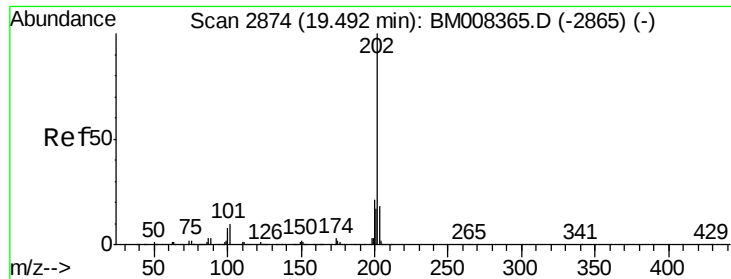
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#74  
 Fluoranthene  
 Concen: 141.79 ng/ul  
 RT: 19.13 min Scan# 2812  
 Delta R.T. 0.00 min  
 Lab File: BM008368.D  
 Acq: 16 Dec 2016 06:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.4   | 6.6   | 10.0  |
| 100     | 7.4   | 5.3   | 7.9   |





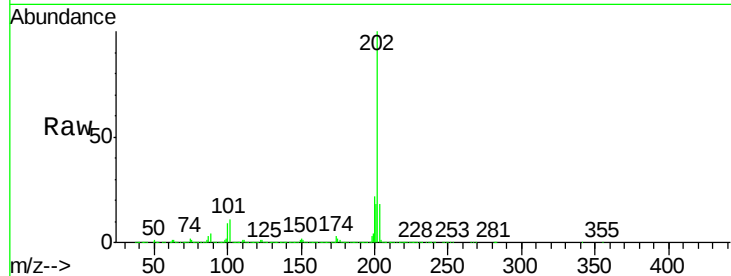
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 Pyrene  
 Concen: 118.51 ng/ul  
 RT: 19.49 min Scan# 2874  
 Delta R.T. 0.00 min  
 Lab File: BM008368.D  
 Acq: 16 Dec 2016 06:16

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA8G5

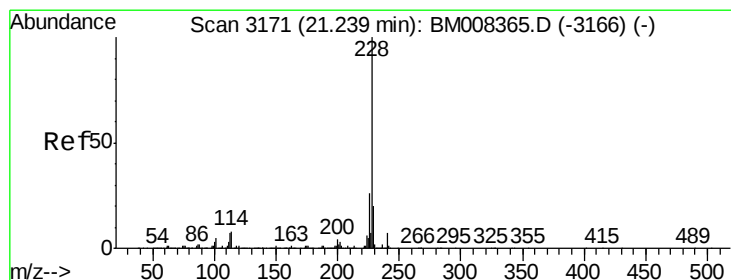
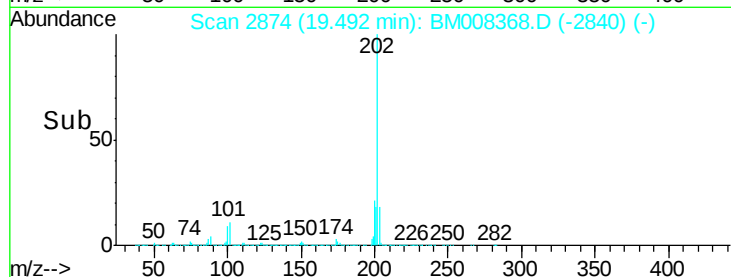
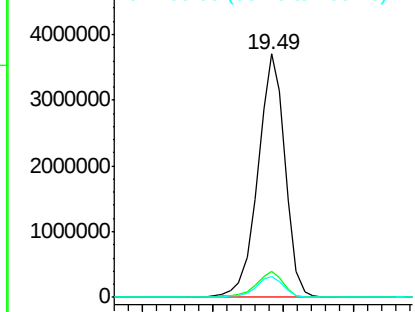
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.8  | 8.2   | 12.4  |
| 100     | 8.8   | 7.0   | 10.6  |

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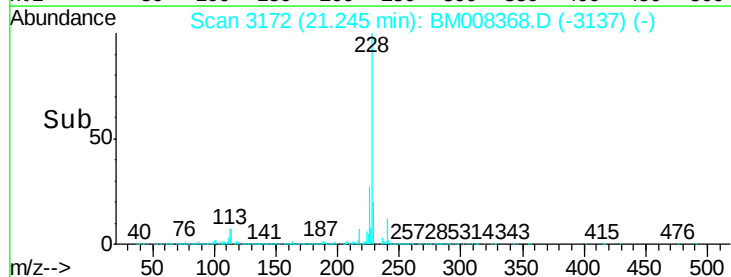
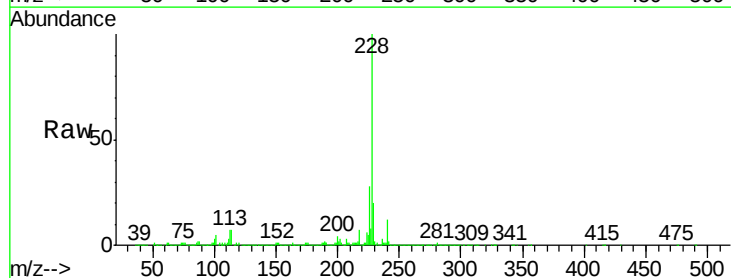
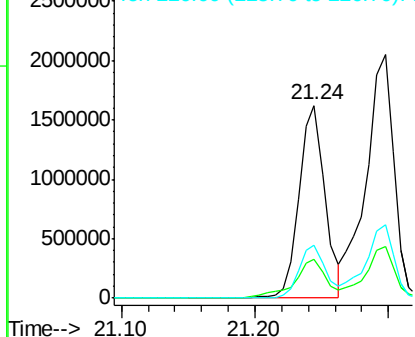
Abundance Ion 202.00 (201.70 to 202.70): E  
 5000000 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): B

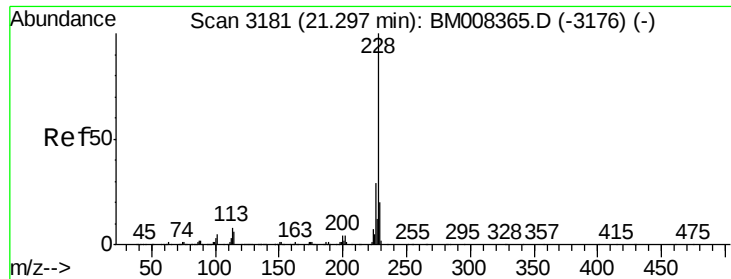


#80  
 Benzo(a)anthracene  
 Concen: 48.46 ng/ul  
 RT: 21.24 min Scan# 3172  
 Delta R.T. 0.01 min  
 Lab File: BM008368.D  
 Acq: 16 Dec 2016 06:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.2  | 15.4  | 23.2  |
| 226     | 27.6  | 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





#82

Chrysene

Concen: 68.20 ng/ul

RT: 21.30 min Scan# 3181

Delta R.T. 0.00 min

Lab File: BM008368.D

Acq: 16 Dec 2016 06:16

Instrument :

BNA\_M

ClientSampled :

DA8G5

Tgt Ion:228 Resp: 2915533

Ion Ratio Lower Upper

228 100

226 29.9 23.1 34.7

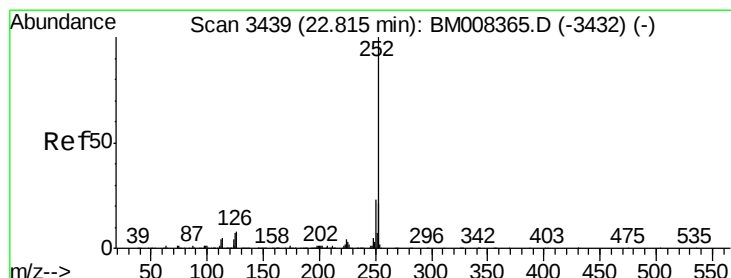
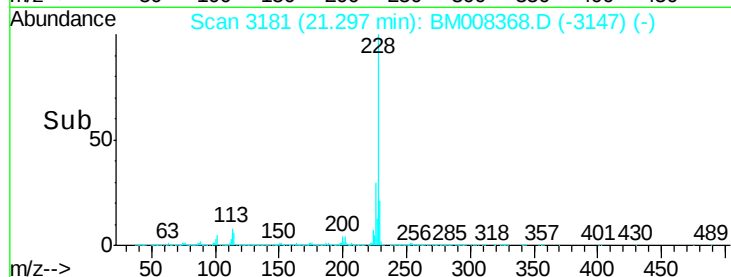
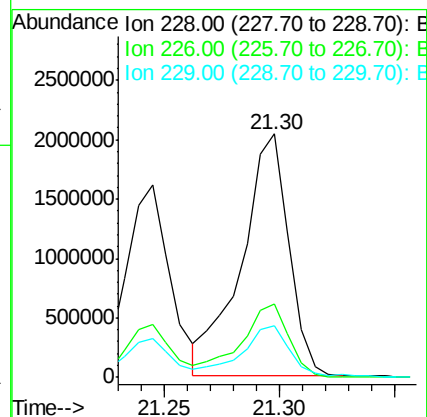
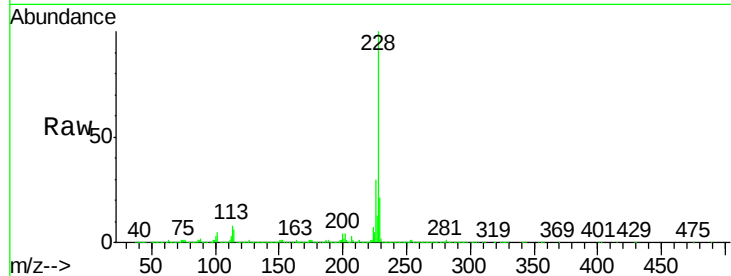
229 21.1 15.4 23.2

Manual Integrations

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#85

Benzo(b)fluoranthene

Concen: 86.14 ng/ul

RT: 22.83 min Scan# 3441

Delta R.T. 0.01 min

Lab File: BM008368.D

Acq: 16 Dec 2016 06:16

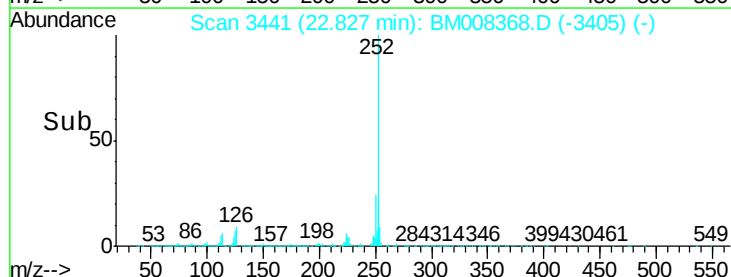
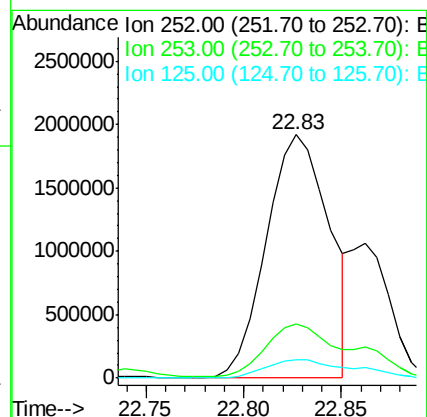
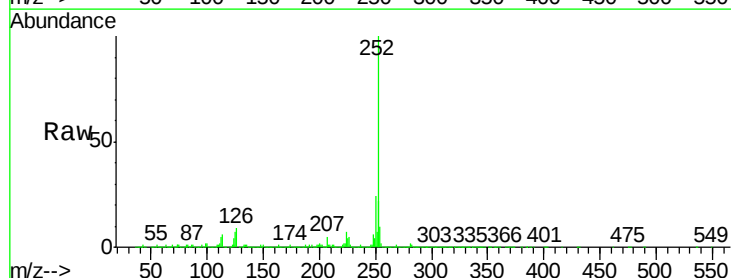
Tgt Ion:252 Resp: 4266067

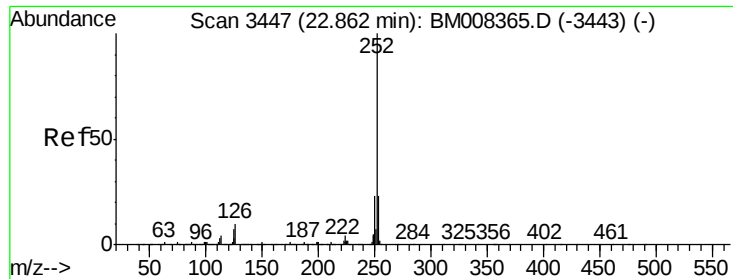
Ion Ratio Lower Upper

252 100

253 22.3 17.1 25.7

125 7.5 5.4 8.2





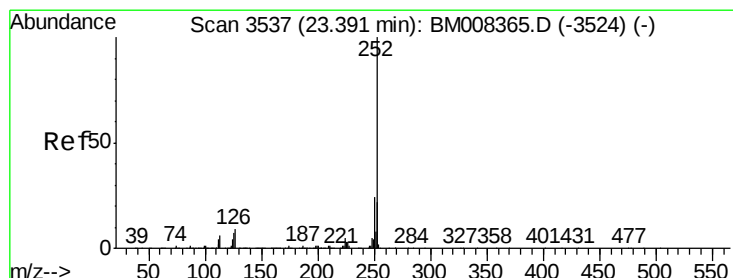
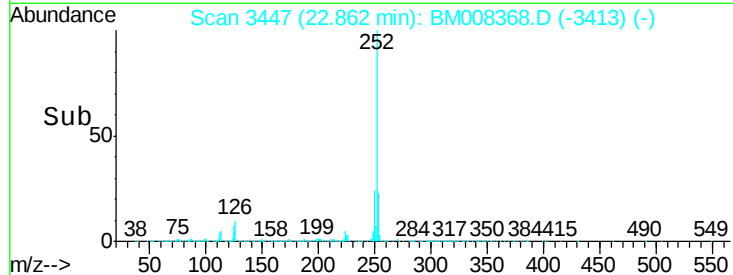
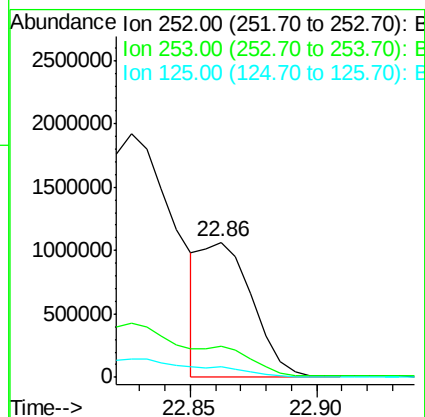
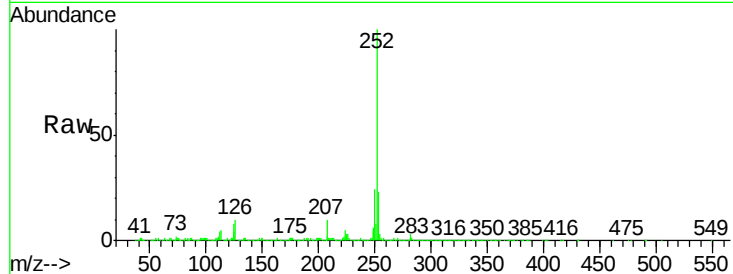
#86  
Benzo(k)fluoranthene  
Concen: 31.32 ng/ul m  
RT: 22.86 min Scan# 3447  
Delta R.T. 0.00 min  
Lab File: BM008368.D  
Acq: 16 Dec 2016 06:16

Instrument :  
BNA\_M  
ClientSampled :  
DA8G5

Tgt Ion:252 Resp: 1484428  
Ion Ratio Lower Upper  
252 100  
253 23.5 17.6 26.4  
125 7.7 5.8 8.6

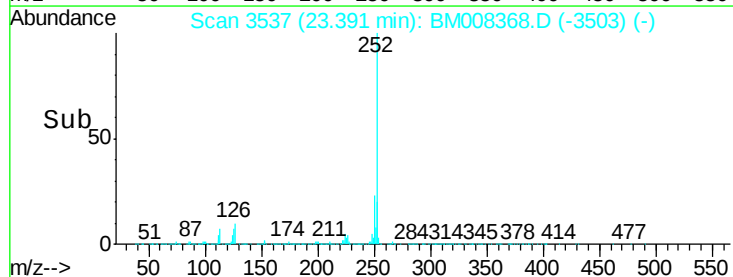
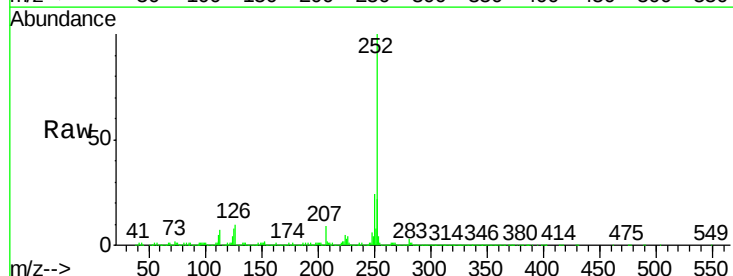
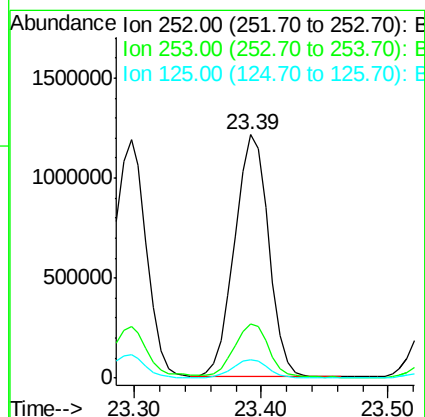
Manual Integrations  
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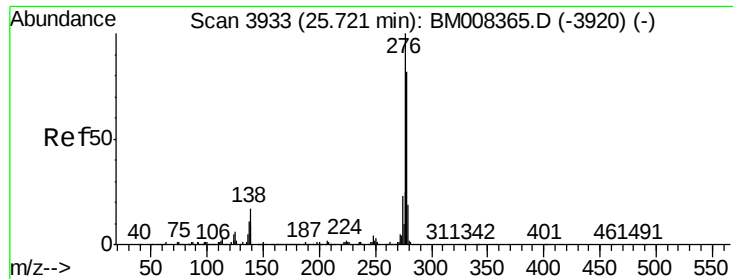
sohil  
12/16/2016 6:22:38 PM



#88  
Benzo(a)pyrene  
Concen: 47.32 ng/ul  
RT: 23.39 min Scan# 3537  
Delta R.T. 0.00 min  
Lab File: BM008368.D  
Acq: 16 Dec 2016 06:16

Tgt Ion:252 Resp: 2257964  
Ion Ratio Lower Upper  
252 100  
253 22.4 17.4 26.2  
125 7.6 6.6 9.8





#89

Indeno(1,2,3-cd)pyrene

Concen: 40.13 ng/ul

RT: 25.73 min Scan# 3934

Delta R.T. 0.01 min

Lab File: BM008368.D

Acq: 16 Dec 2016 06:16

Instrument :

BNA\_M

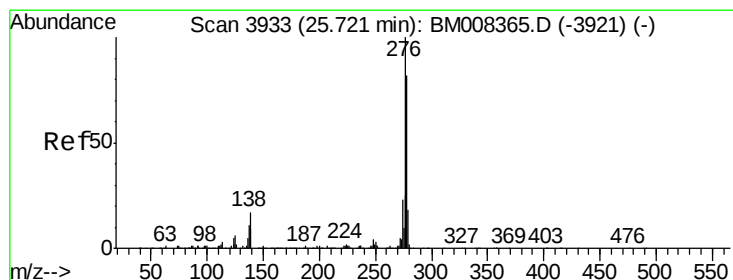
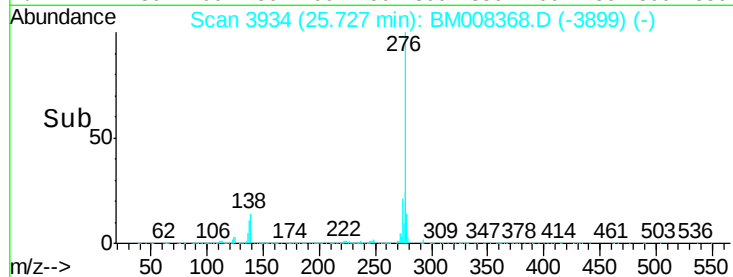
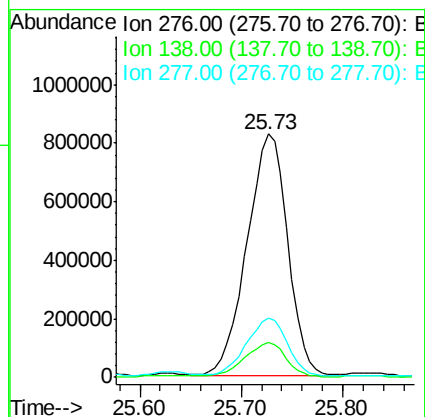
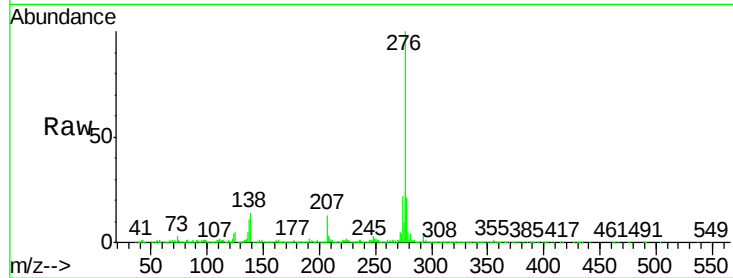
ClientSampleId :

DA8G5

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 276   | Resp: | 2324921 |
| Ion Ratio | Lower | Upper |         |
| 276       | 100   |       |         |
| 138       | 14.3  | 13.4  | 20.2    |
| 277       | 24.2  | 19.7  | 29.5    |

Manual Integrations  
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#90

Dibenzo(a,h)anthracene

Concen: 11.56 ng/ul

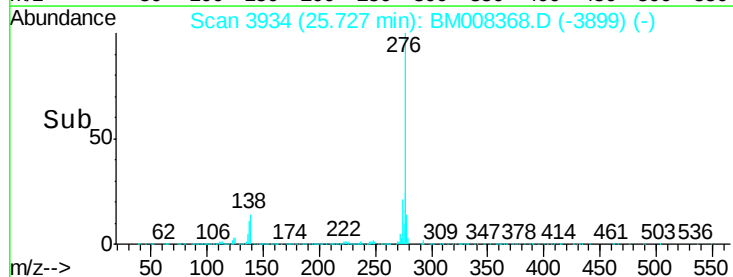
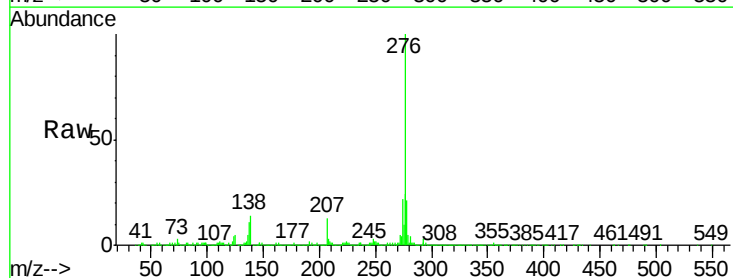
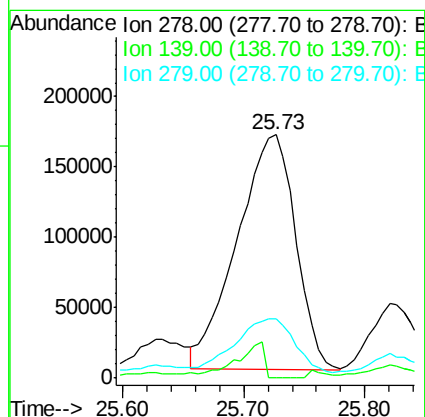
RT: 25.73 min Scan# 3934

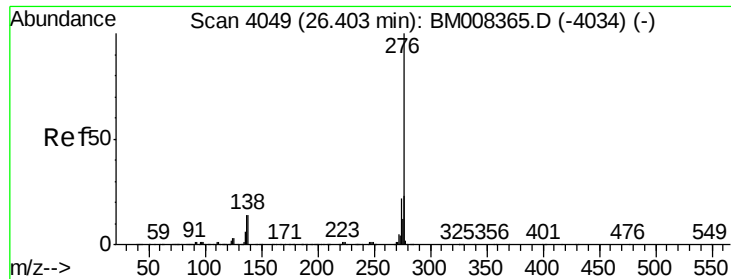
Delta R.T. 0.01 min

Lab File: BM008368.D

Acq: 16 Dec 2016 06:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 278   | Resp: | 562371 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 0.0   | 9.4   | 14.0#  |
| 279       | 24.6  | 18.6  | 28.0   |





#91  
 Benzo(g,h,i)perylene  
 Concen: 47.48 ng/ul  
 RT: 26.42 min Scan# 4052  
 Delta R.T. 0.02 min  
 Lab File: BM008368.D  
 Acq: 16 Dec 2016 06:16

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA8G5

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 14.4  | 12.0  | 18.0  |
| 277     | 24.1  | 19.4  | 29.0  |

Manual Integrations  
 APPROVED

sohil  
 12/16/2016 6:22:38 PM

