

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM050516\  
 Data File : BM005255.D  
 Acq On : 06 May 2016 03:35  
 Operator : UM/SJ  
 Sample : H2813-12  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BC7T2

Manual Integrations  
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 5/6/2016 7:15:18 PM

Quant Time: May 06 12:31:09 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM050516.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 06 04:26:22 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.78  | 152  | 115442   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.57 | 136  | 553949   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.42 | 164  | 352474   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.17 | 188  | 817061   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.36 | 240  | 959801   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.63 | 264  | 944769   | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.27  | 96  | 1943   | 0.79  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.95  | 99  | 40014  | 3.82  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.10  | 67  | 120890 | 20.24 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.30  | 132 | 126813 | 16.04 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.48  | 113 | 83789  | 9.68  | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.93  | 128 | 86715  | 21.93 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.65  | 143 | 99667  | 22.26 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.19 | 165 | 160996 | 19.34 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.75 | 131 | 45713m | 4.56  | ng/ul | 0.05 |
| 43) Dimethylphthalate-d6       | 13.83 | 166 | 588160 | 20.82 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.11 | 160 | 701598 | 21.17 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.64 | 143 | 17999  | 3.49  | ng/ul | 0.01 |
| 57) Fluorene-d10               | 15.41 | 176 | 524389 | 21.49 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.54 | 200 | 99886  | 21.73 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.27 | 188 | 797724 | 22.09 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.56 | 212 | 941706 | 21.26 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.49 | 264 | 927539 | 22.18 | ng/ul | 0.00 |

## Target Compounds

|                         |       |     |         |        |        | Qvalue |
|-------------------------|-------|-----|---------|--------|--------|--------|
| 2) 1,4-Dioxane          | 3.30  | 88  | 9427    | 2.11   | ng/uL  | 96     |
| 28) Naphthalene         | 10.64 | 128 | 7441098 | 266.98 | ng/ul  | 98     |
| 34) 2-Methylnaphthalene | 12.23 | 142 | 1987426 | 95.34  | ng/ul  | 100    |
| 40) 1,1'-Biphenyl       | 13.25 | 154 | 840662  | 30.11  | ng/ul  | 99     |
| 47) Acenaphthylene      | 14.13 | 152 | 138319  | 3.95   | ng/ul# | 95     |
| 49) Acenaphthene        | 14.49 | 153 | 1674350 | 72.47  | ng/ul  | 99     |
| 53) Dibenzofuran        | 14.82 | 168 | 2089203 | 62.32  | ng/ul  | 97     |
| 58) Fluorene            | 15.47 | 166 | 1361337 | 51.94  | ng/ul  | 100    |
| 69) Phenanthrene        | 17.22 | 178 | 2818504 | 65.61  | ng/ul  | 99     |
| 71) Anthracene          | 17.30 | 178 | 225780  | 5.27   | ng/ul  | 98     |
| 72) Carbazole           | 17.57 | 167 | 662079  | 17.57  | ng/ul  | 99     |
| 74) Fluoranthene        | 19.22 | 202 | 688286  | 14.46  | ng/ul  | 100    |
| 77) Pyrene              | 19.59 | 202 | 433185  | 7.78   | ng/ul  | 99     |

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

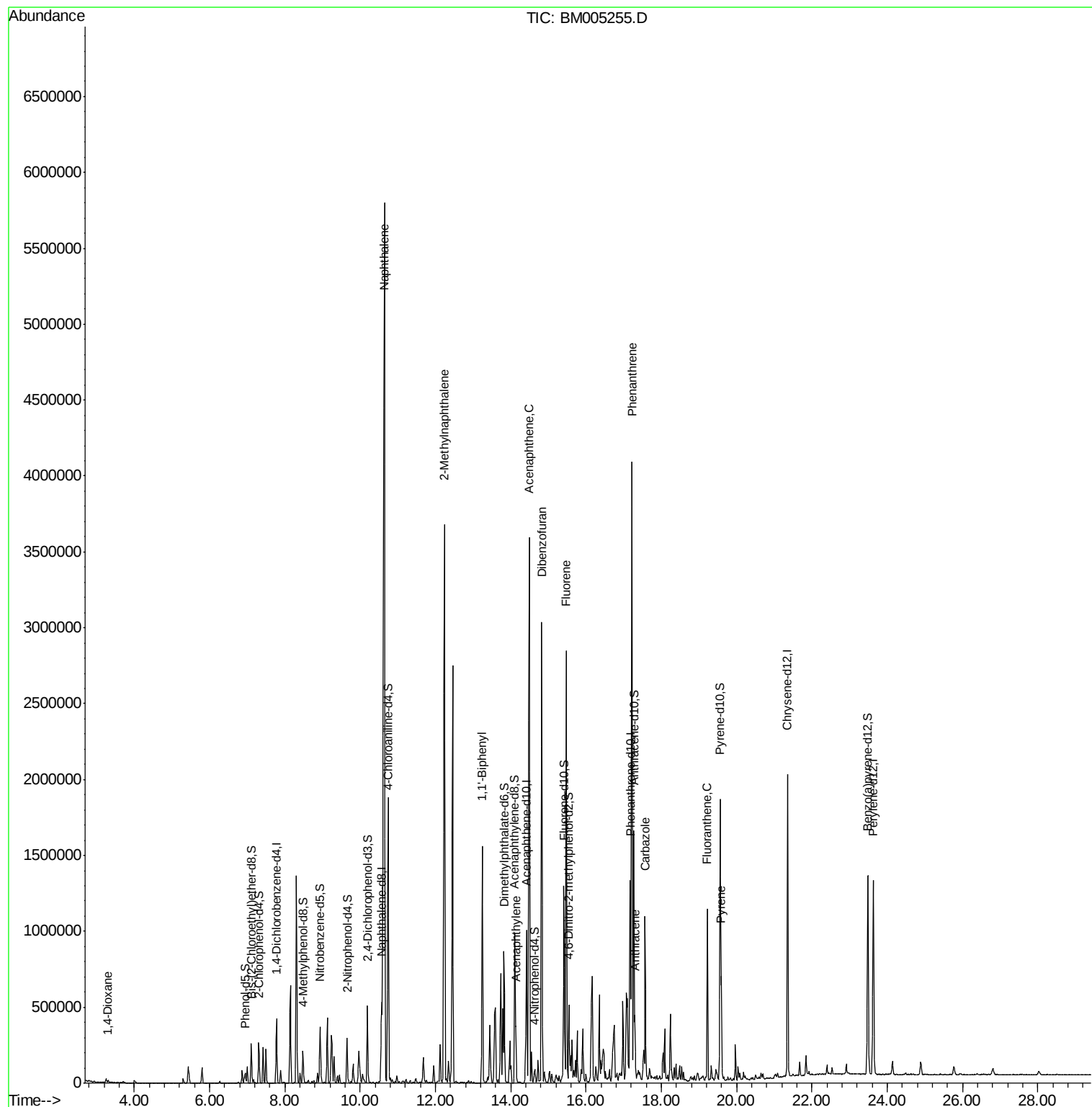
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM050516\  
Data File : BM005255.D  
Acq On : 06 May 2016 03:35  
Operator : UM/SJ  
Sample : H2813-12  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

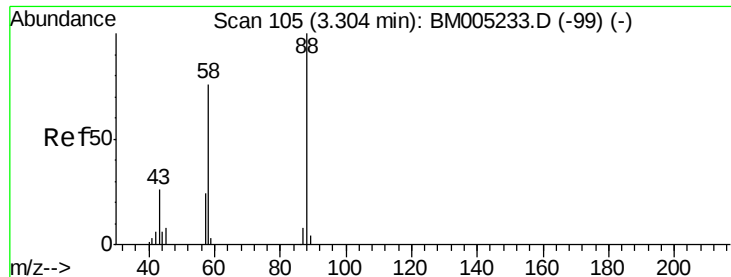
Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Time: May 06 12:31:09 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM050516.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri May 06 04:26:22 2016  
Response via : Initial Calibration





#2

1,4-Dioxane

Concen: 2.11 ng/uL

RT: 3.30 min Scan# 105

Delta R.T. 0.00 min

Lab File: BM005255.D

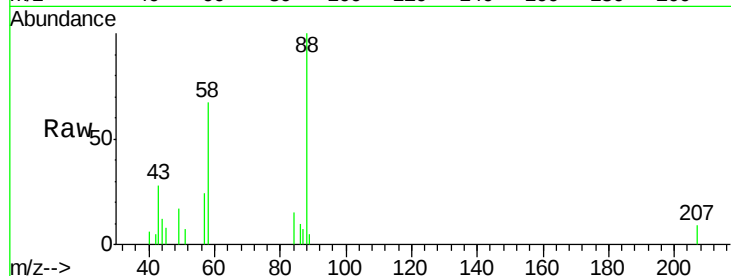
Acq: 06 May 2016 03:35

Instrument :

BNA\_M

ClientSampleId :

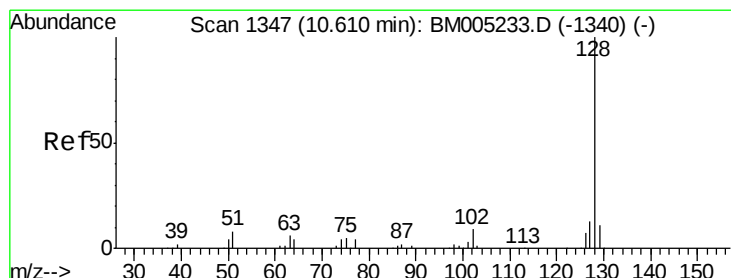
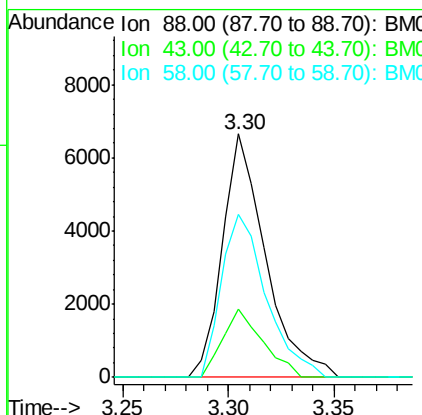
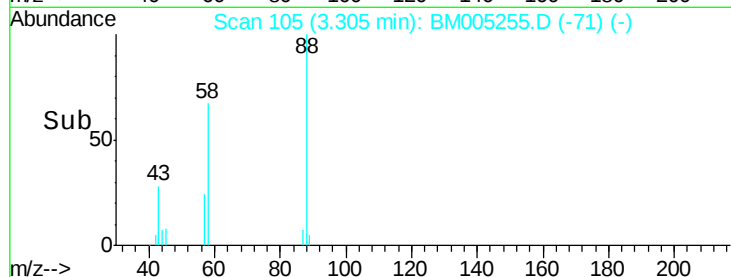
BC7T2



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 9427  |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 25.9  | 19.3  | 28.9  |
| 58       | 69.5  | 57.9  | 86.9  |

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#28

Naphthalene

Concen: 266.98 ng/uL

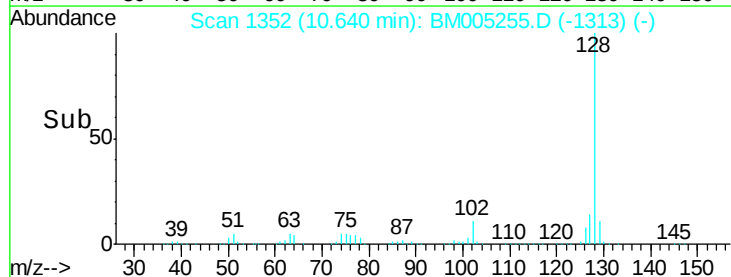
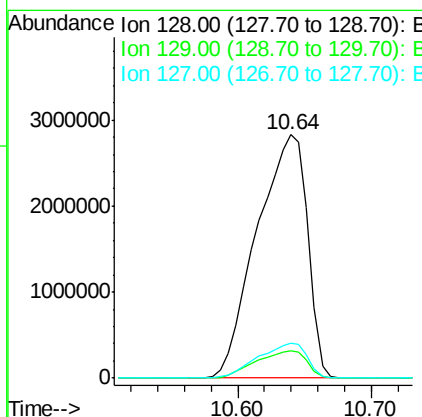
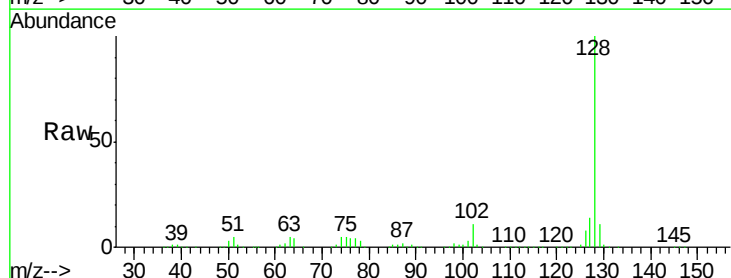
RT: 10.64 min Scan# 1352

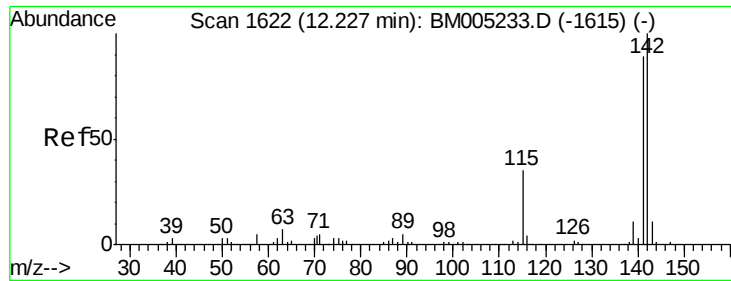
Delta R.T. 0.03 min

Lab File: BM005255.D

Acq: 06 May 2016 03:35

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 128   | Resp: | 7441098 |
| Ion      | Ratio | Lower | Upper   |
| 128      | 100   |       |         |
| 129      | 11.3  | 8.4   | 12.6    |
| 127      | 14.1  | 10.8  | 16.2    |





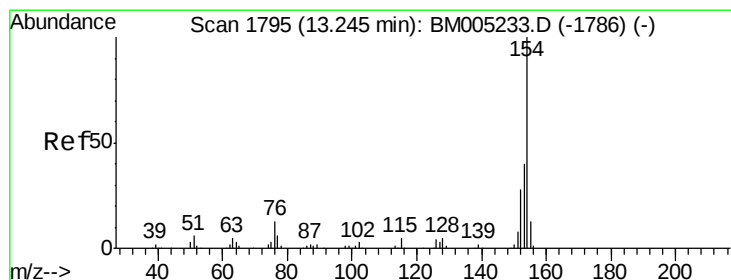
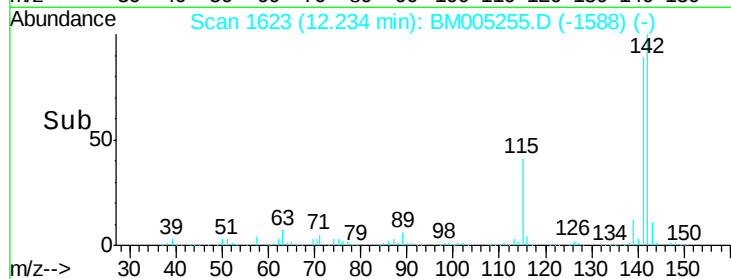
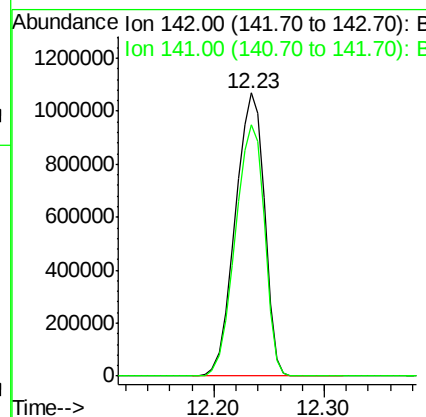
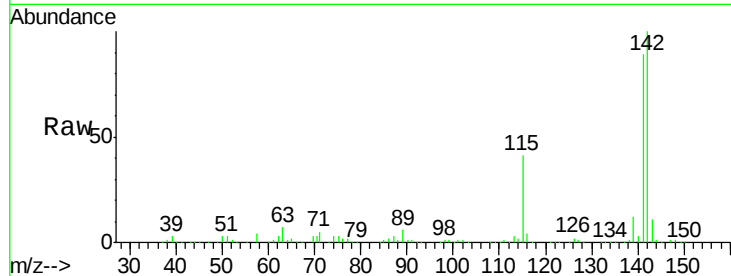
#34  
 2-Methylnaphthalene  
 Concen: 95.34 ng/ul  
 RT: 12.23 min Scan# 1623  
 Delta R.T. 0.01 min  
 Lab File: BM005255.D  
 Acq: 06 May 2016 03:35

Instrument :  
 BNA\_M  
 ClientSampleId :  
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Tgt Ion:142 Resp: 1987426  
 Ion Ratio Lower Upper  
 142 100  
 141 88.7 71.3 106.9

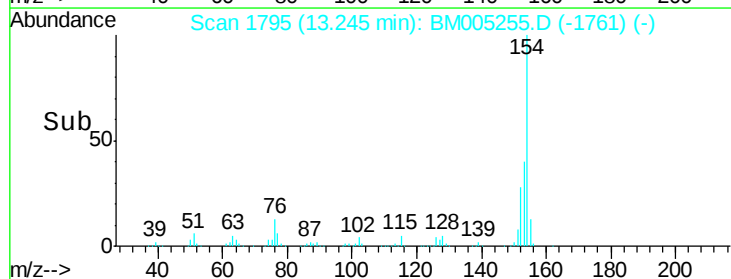
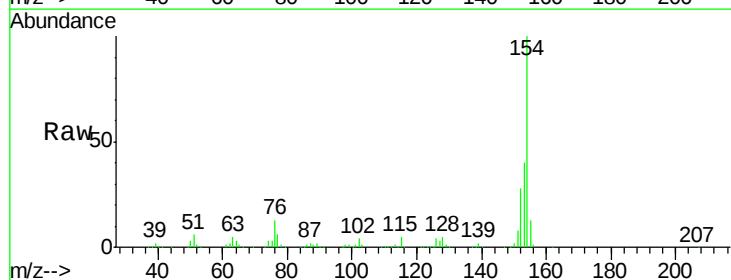
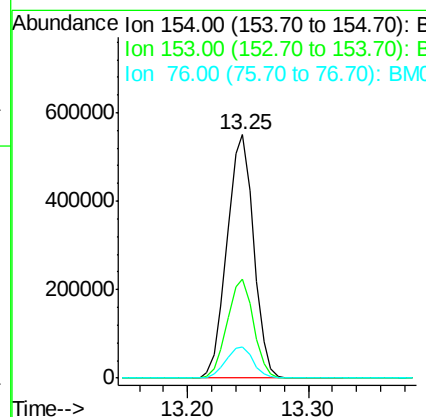
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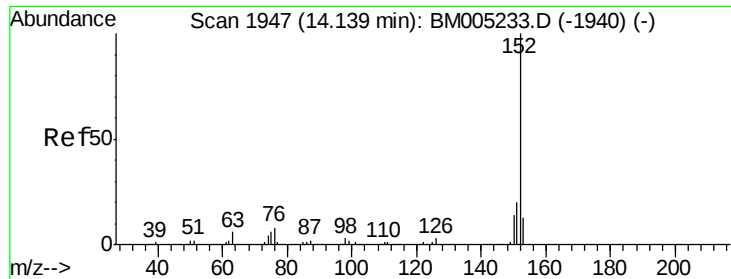
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#40  
 1,1'-Biphenyl  
 Concen: 30.11 ng/ul  
 RT: 13.25 min Scan# 1795  
 Delta R.T. 0.00 min  
 Lab File: BM005255.D  
 Acq: 06 May 2016 03:35

Tgt Ion:154 Resp: 840662  
 Ion Ratio Lower Upper  
 154 100  
 153 40.4 32.1 48.1  
 76 12.9 10.6 15.8





#47

Acenaphthylene

Concen: 3.95 ng/ul

RT: 14.13 min Scan# 1946

Delta R.T. -0.01 min

Lab File: BM005255.D

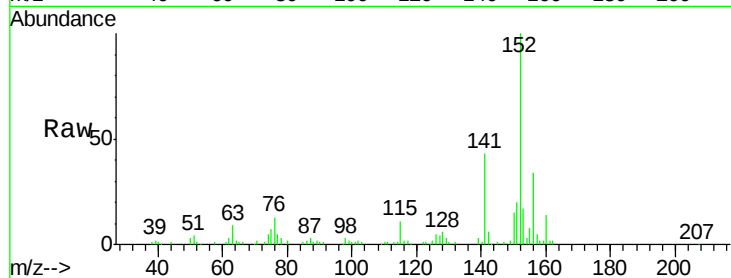
Acq: 06 May 2016 03:35

Instrument :

BNA\_M

ClientSampleId :

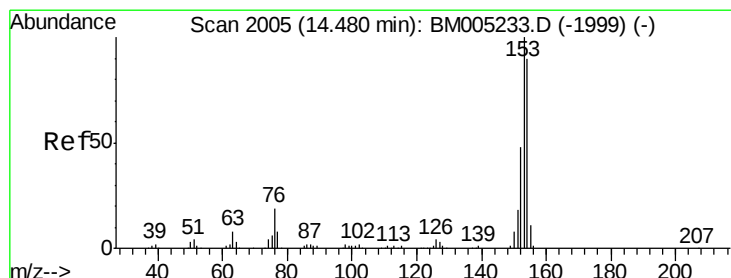
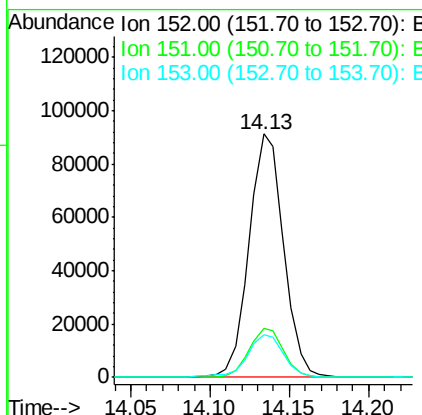
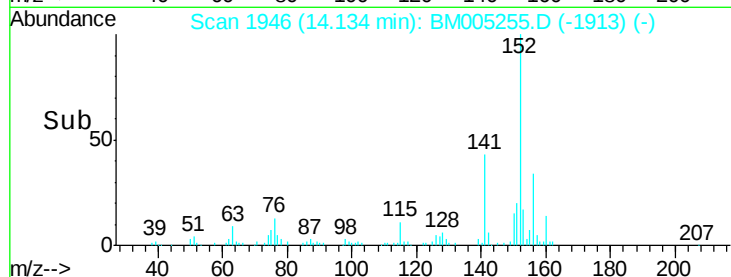
BC7T2



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 138319 |       |       |
| 151     | 20.3  | 16.0   | 24.0  |       |
| 153     | 17.3  | 10.3   | 15.5# |       |

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#49

Acenaphthene

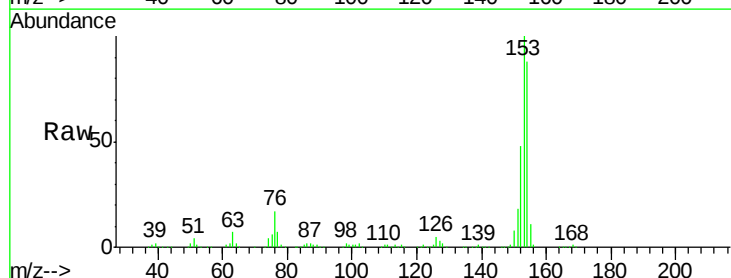
Concen: 72.47 ng/ul

RT: 14.49 min Scan# 2006

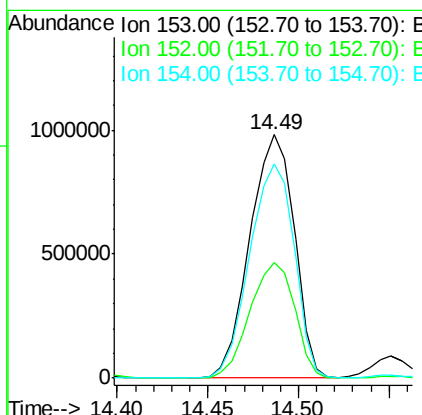
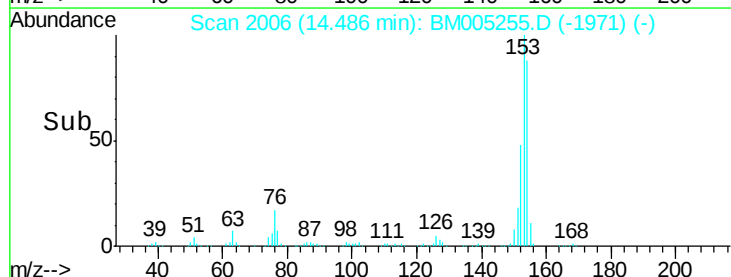
Delta R.T. 0.01 min

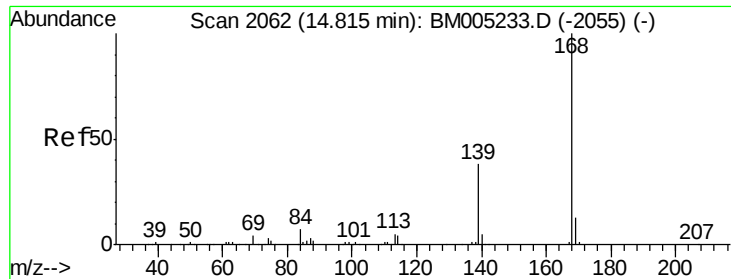
Lab File: BM005255.D

Acq: 06 May 2016 03:35



| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 153     | 100   | 1674350 |       |       |
| 152     | 47.6  | 38.9    | 58.3  |       |
| 154     | 88.2  | 70.3    | 105.5 |       |





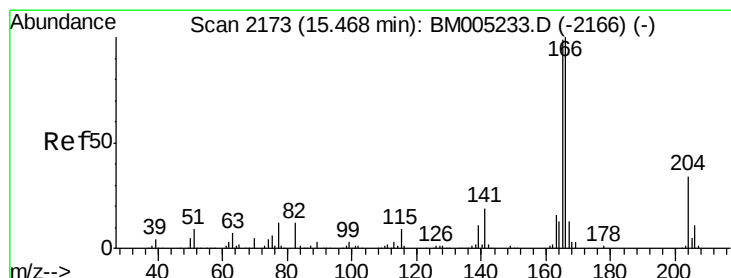
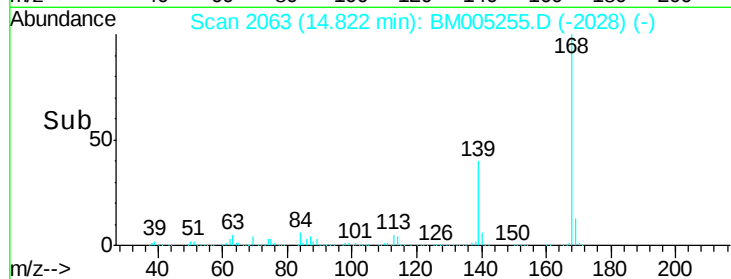
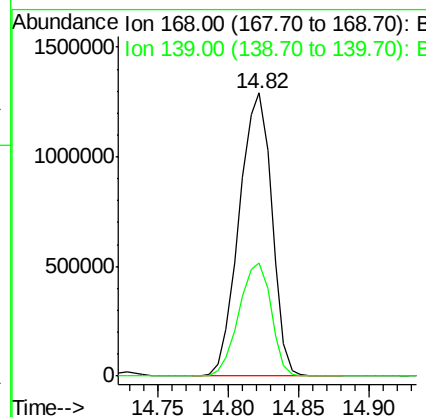
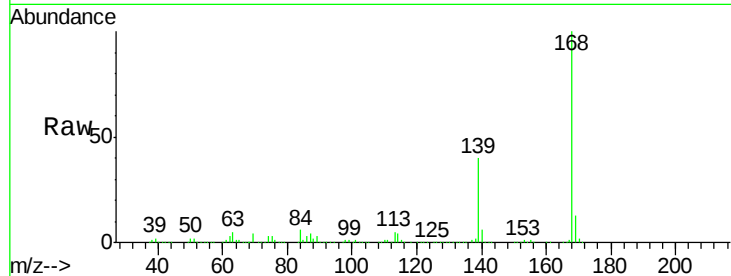
#53  
Dibenzenofuran  
Concen: 62.32 ng/ul  
RT: 14.82 min Scan# 2063  
Delta R.T. 0.01 min  
Lab File: BM005255.D  
Acq: 06 May 2016 03:35

Instrument :  
BNA\_M  
ClientSampled :  
BC7T2

Tgt Ion:168 Resp: 2089203  
Ion Ratio Lower Upper  
168 100  
139 40.0 30.3 45.5

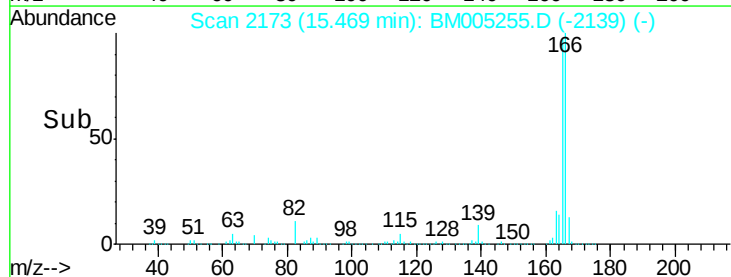
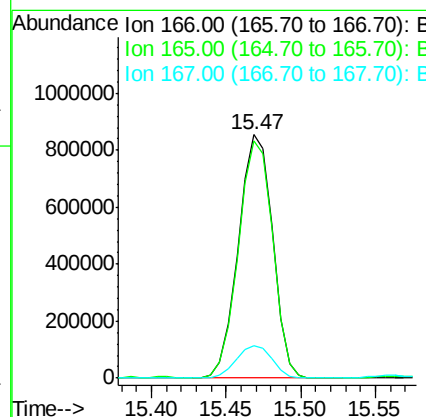
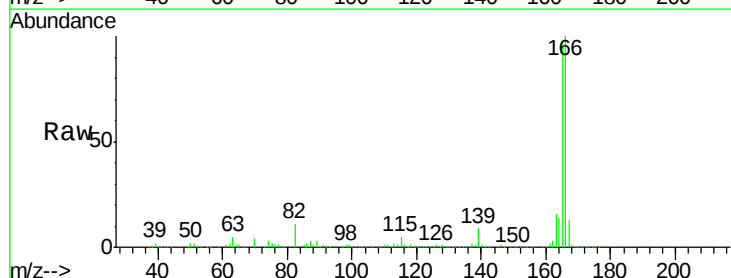
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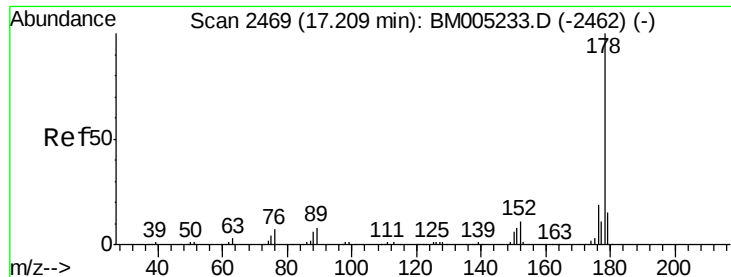
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#58  
Fluorene  
Concen: 51.94 ng/ul  
RT: 15.47 min Scan# 2173  
Delta R.T. 0.00 min  
Lab File: BM005255.D  
Acq: 06 May 2016 03:35

Tgt Ion:166 Resp: 1361337  
Ion Ratio Lower Upper  
166 100  
165 97.3 77.9 116.9  
167 13.5 10.6 16.0





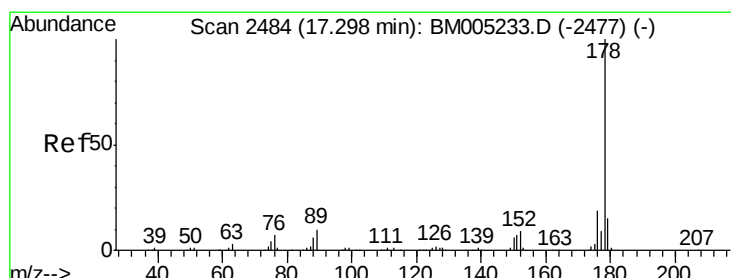
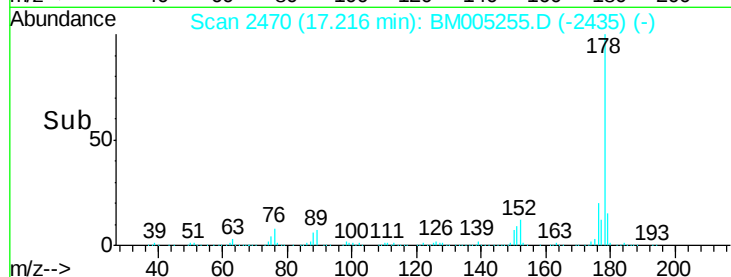
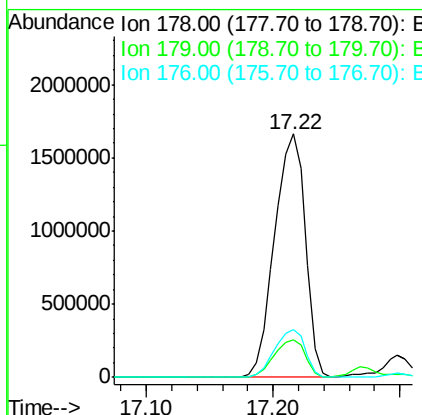
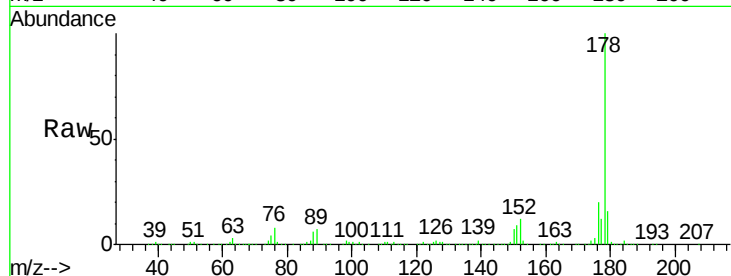
#69  
 Phenanthrene  
 Concen: 65.61 ng/ul  
 RT: 17.22 min Scan# 2470  
 Delta R.T. 0.01 min  
 Lab File: BM005255.D  
 Acq: 06 May 2016 03:35

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BC7T2

Tgt Ion:178 Resp: 2818504  
 Ion Ratio Lower Upper  
 178 100  
 179 15.5 12.3 18.5  
 176 19.7 15.2 22.8

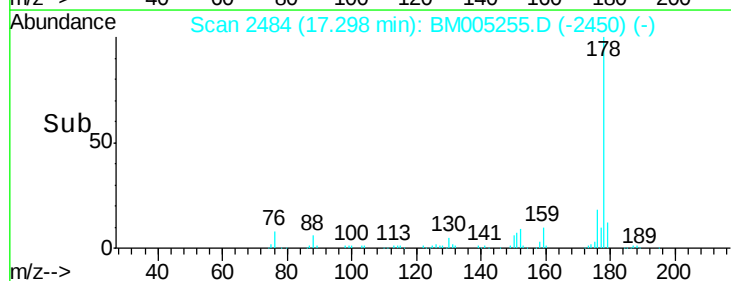
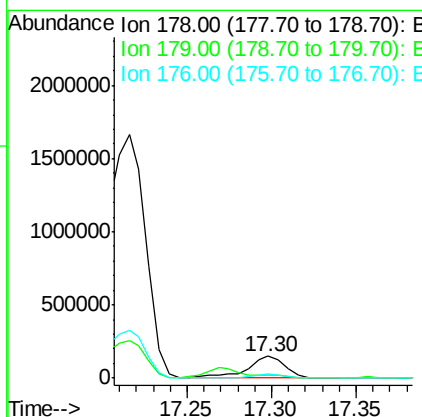
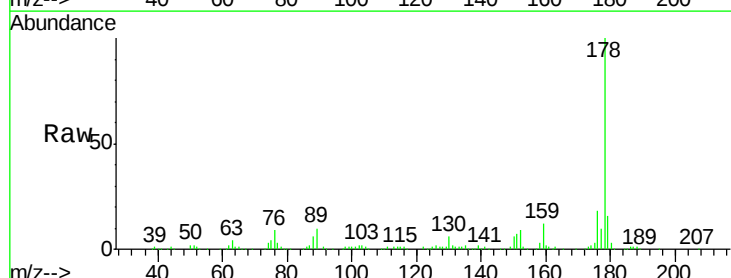
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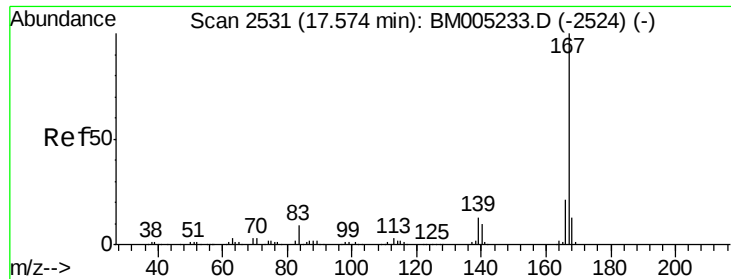
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#71  
 Anthracene  
 Concen: 5.27 ng/ul  
 RT: 17.30 min Scan# 2484  
 Delta R.T. 0.00 min  
 Lab File: BM005255.D  
 Acq: 06 May 2016 03:35

Tgt Ion:178 Resp: 225780  
 Ion Ratio Lower Upper  
 178 100  
 179 16.0 12.4 18.6  
 176 18.0 15.1 22.7





#72

Carbazole

Concen: 17.57 ng/ul

RT: 17.57 min Scan# 2530

Delta R.T. -0.01 min

Lab File: BM005255.D

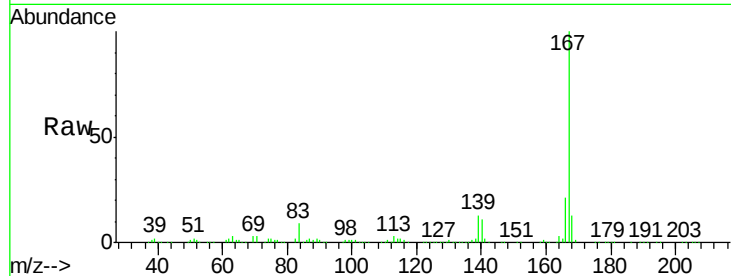
Acq: 06 May 2016 03:35

Instrument :

BNA\_M

ClientSampleId :

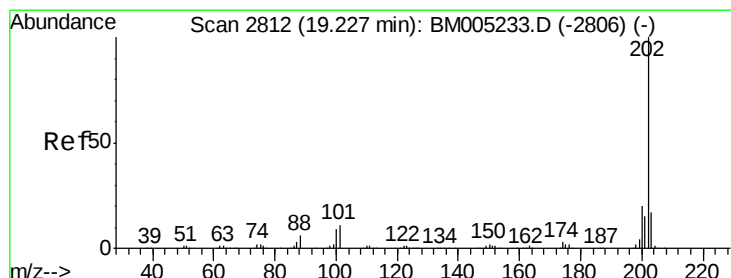
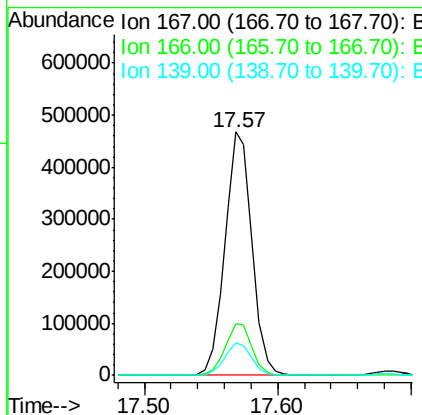
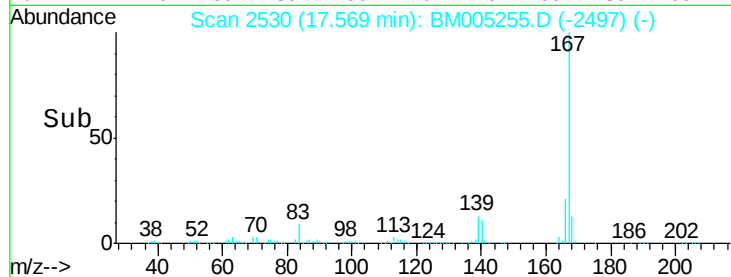
BC7T2



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.2  | 17.1  | 25.7  |
| 139     | 13.2  | 10.2  | 15.2  |

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#74

Fluoranthene

Concen: 14.46 ng/ul

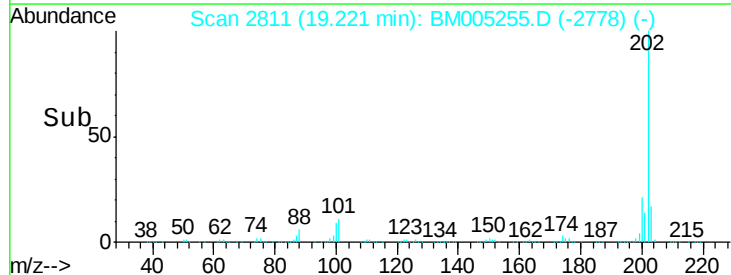
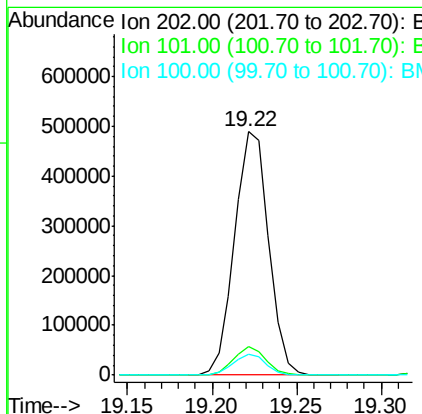
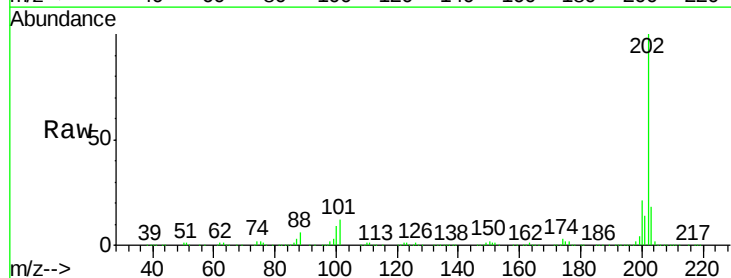
RT: 19.22 min Scan# 2811

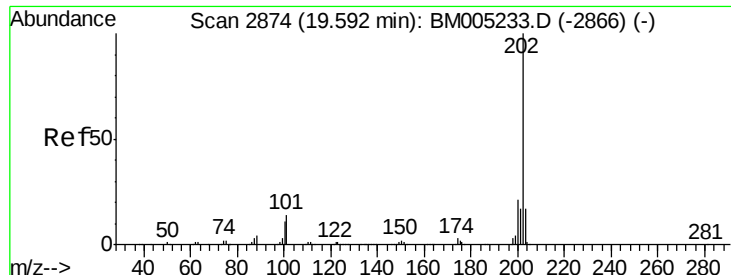
Delta R.T. -0.01 min

Lab File: BM005255.D

Acq: 06 May 2016 03:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.5  | 9.2   | 13.8  |
| 100     | 8.6   | 7.1   | 10.7  |





#77  
 Pyrene  
 Concen: 7.78 ng/ul  
 RT: 19.59 min Scan# 2873  
 Delta R.T. -0.01 min  
 Lab File: BM005255.D  
 Acq: 06 May 2016 03:35

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BC7T2

|     |       |       |       |        |
|-----|-------|-------|-------|--------|
| Tgt | Ion   | 202   | Resp  | 433185 |
| Ion | Ratio | Lower | Upper |        |
| 202 | 100   |       |       |        |
| 101 | 13.2  | 10.8  | 16.2  |        |
| 100 | 10.6  | 8.4   | 12.6  |        |

Manual Integrations  
 APPROVED

sohil  
 5/6/2016 7:15:18 PM

