

Data File : BM012310.D  
Acq On : 19 Oct 2017 09:48  
Operator : SJ/JU  
Sample : I5695-03 5X  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B-74(0-1)-100417

Manual Integrations  
APPROVED

Sohil  
10/23/2017 3:50:19 PM

Quant Time: Jun 23 03:43:09 2018  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM101217.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Oct 19 15:00:52 2017  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.78  | 152  | 272001   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.59 | 136  | 1008243  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.44 | 164  | 510895   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.19 | 188  | 1034338  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.37 | 240  | 1170304  | 20.00 | ng/ul | 0.01     |
| 83) Perylene-d12          | 23.67 | 264  | 1366133  | 20.00 | ng/ul | 0.01     |

#### System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.20  | 96  | 6476   | 1.13 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.97  | 99  | 97401  | 4.41 | ng/ul | 0.02 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.12  | 67  | 66781  | 5.05 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.32  | 132 | 93104  | 4.97 | ng/ul | 0.01 |
| 13) 4-Methylphenol-d8          | 8.52  | 113 | 76605  | 4.03 | ng/ul | 0.02 |
| 19) Nitrobenzene-d5            | 8.96  | 128 | 38685  | 5.03 | ng/ul | 0.01 |
| 22) 2-Nitrophenol-d4           | 9.69  | 143 | 43547  | 4.84 | ng/ul | 0.02 |
| 26) 2,4-Dichlorophenol-d3      | 10.25 | 165 | 73179  | 4.26 | ng/ul | 0.03 |
| 29) 4-Chloroaniline-d4         | 10.76 | 131 | 36578m | 2.28 | ng/ul | 0.03 |
| 43) Dimethylphthalate-d6       | 13.84 | 166 | 253004 | 5.60 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.13 | 160 | 295667 | 5.41 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.76 | 143 | 14670m | 2.16 | ng/ul | 0.09 |
| 57) Fluorene-d10               | 15.43 | 176 | 201610 | 5.44 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.60 | 200 | 112    | 0.02 | ng/ul | 0.02 |
| 70) Anthracene-d10             | 17.29 | 188 | 297123 | 5.81 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.59 | 212 | 328519 | 5.53 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.53 | 264 | 380198 | 5.77 | ng/ul | 0.02 |

#### Target Compounds

|                                |       |     |         |        | Qvalue    |
|--------------------------------|-------|-----|---------|--------|-----------|
| 21) Isophorone                 | 9.52  | 82  | 46353   | 1.298  | ng/ul 97  |
| 44) Dimethylphthalate          | 13.89 | 163 | 139322m | 3.080  | ng/ul     |
| 69) Phenanthrene               | 17.23 | 178 | 81601   | 1.387  | ng/ul 97  |
| 73) Di-n-butylphthalate        | 18.14 | 149 | 1448771 | 20.241 | ng/ul 99  |
| 74) Fluoranthene               | 19.25 | 202 | 280922  | 3.956  | ng/ul# 95 |
| 77) Pyrene                     | 19.61 | 202 | 267651  | 3.463  | ng/ul# 95 |
| 80) Benzo(a)anthracene         | 21.36 | 228 | 204672  | 2.688  | ng/ul 94  |
| 81) Bis(2-ethylhexyl)phthalate | 21.26 | 149 | 4871998 | 94.372 | ng/ul# 98 |
| 82) Chrysene                   | 21.41 | 228 | 187867  | 2.628  | ng/ul 96  |
| 85) Benzo(b)fluoranthene       | 22.98 | 252 | 372385  | 4.177  | ng/ul# 81 |
| 86) Benzo(k)fluoranthene       | 23.02 | 252 | 122292m | 1.423  | ng/ul     |
| 88) Benzo(a)pyrene             | 23.57 | 252 | 246836  | 2.938  | ng/ul# 83 |
| 89) Indeno(1,2,3-cd)pyrene     | 26.03 | 276 | 219865  | 2.464  | ng/ul# 94 |
| 91) Benzo(g,h,i)perylene       | 26.75 | 276 | 202362  | 2.769  | ng/ul# 85 |

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

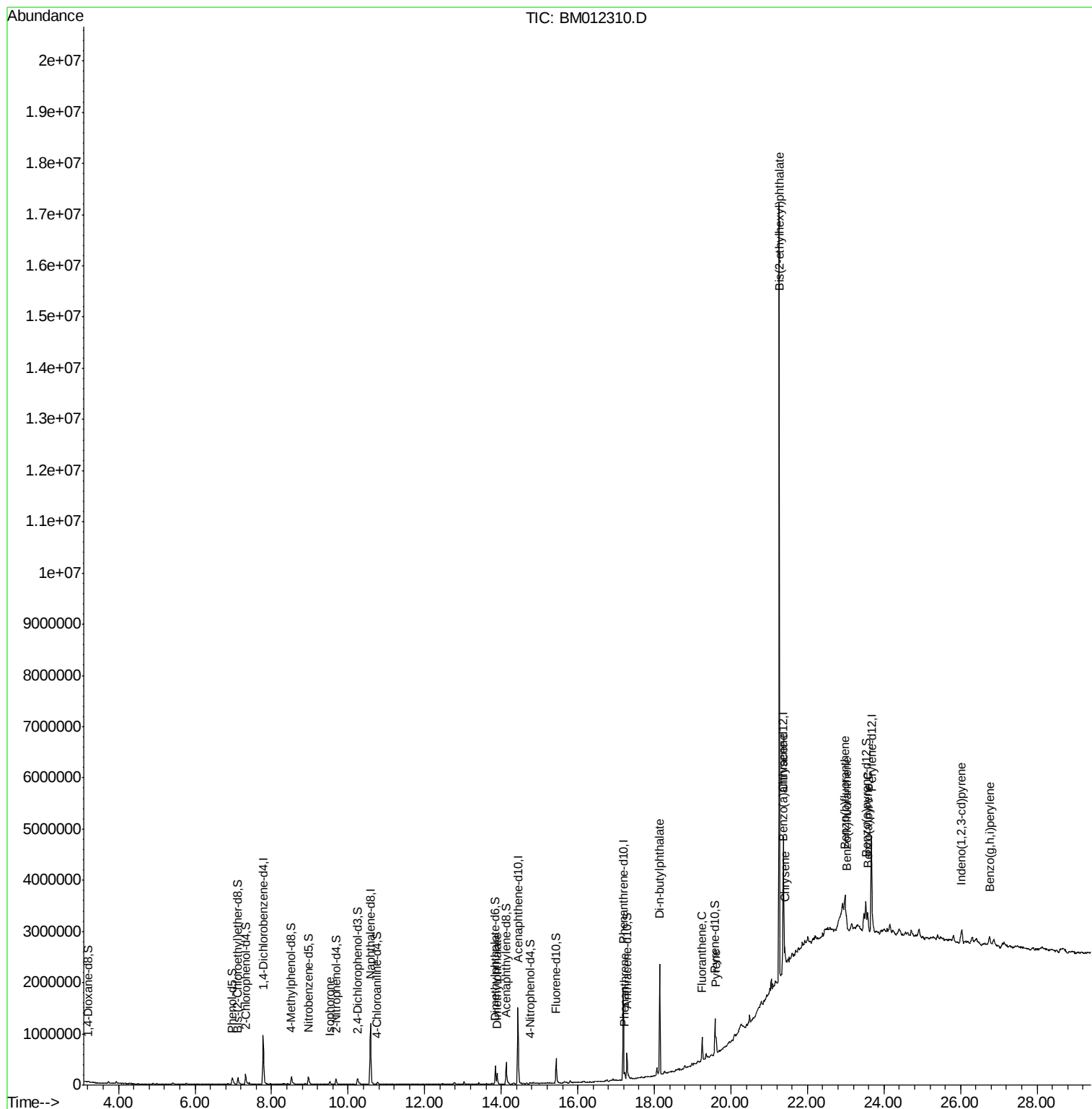
Data File : BM012310.D  
Acq On : 19 Oct 2017 09:48  
Operator : SJ/JU  
Sample : I5695-03 5X  
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ALS Vial : 29 Sample Multiplier: 1

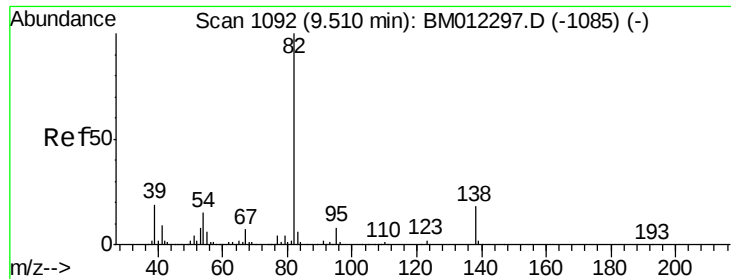
Instrument :  
BNA\_M  
ClientSampleId :  
B-74(0-1)-100417

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Quant Time: Jun 23 03:43:09 2018  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM101217.M  
Quant Title : SVOA CALIBRATION  
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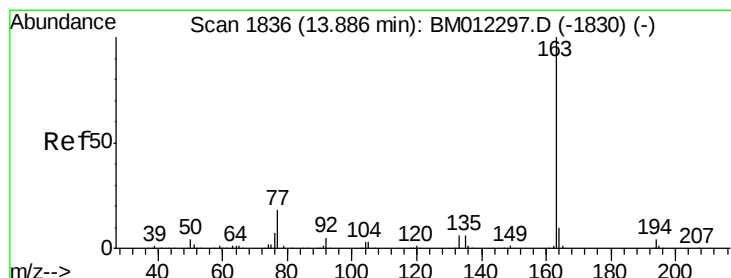
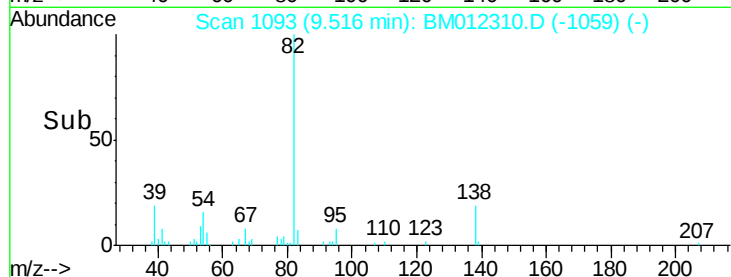
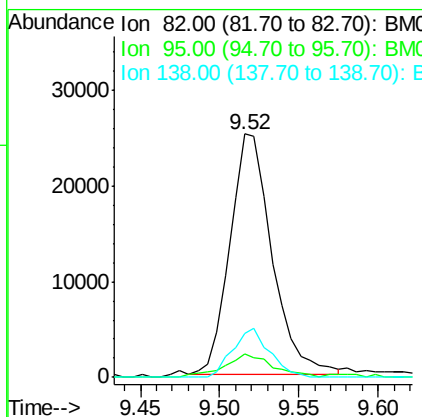
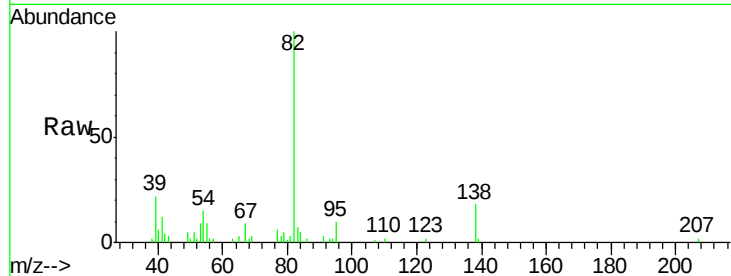
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Isophorone  
Concen: 1.298 ng/ul  
RT: 9.52 min Scan# 1093  
Delta R.T. -0.00 min  
Lab File: BM012310.D  
Acq: 19 Oct 2017 09:48

Instrument :  
BNA\_M  
ClientSampleId :  
B-74(0-1)-100417

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 9.6   | 7.1   | 10.7  |
| 138     | 18.2  | 15.8  | 23.8  |

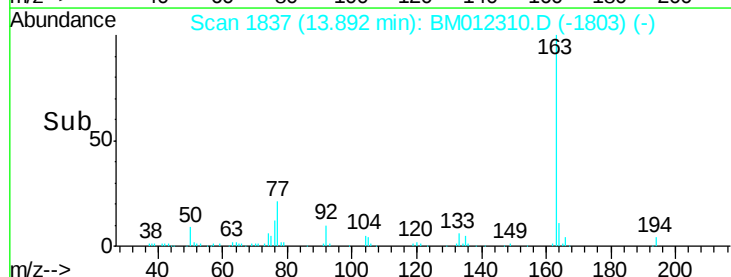
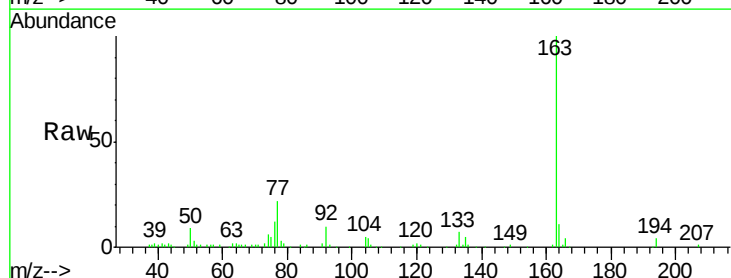
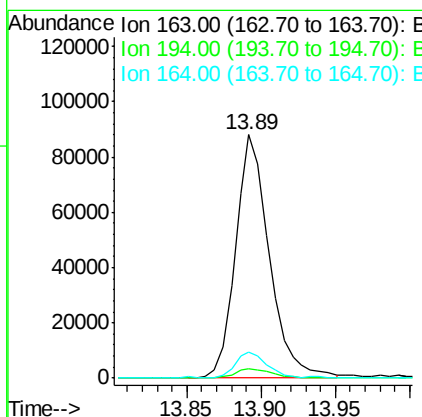
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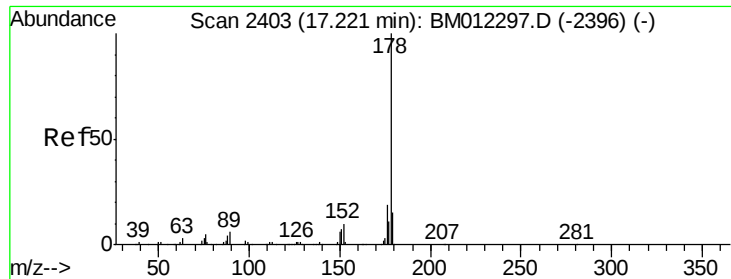
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#44  
Dimethylphthalate  
Concen: 3.080 ng/ul m  
RT: 13.89 min Scan# 1837  
Delta R.T. -0.00 min  
Lab File: BM012310.D  
Acq: 19 Oct 2017 09:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.0   | 3.7   | 5.5   |
| 164     | 10.8  | 8.1   | 12.1  |





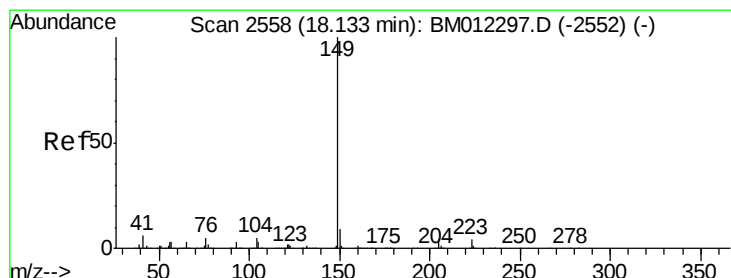
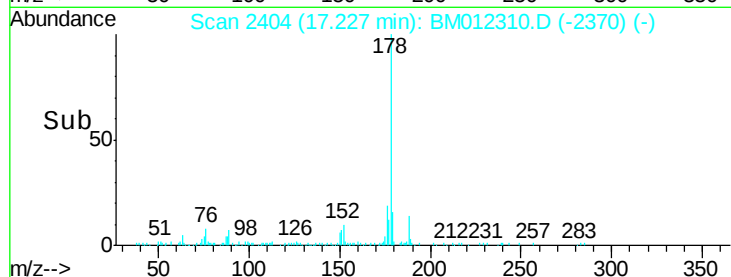
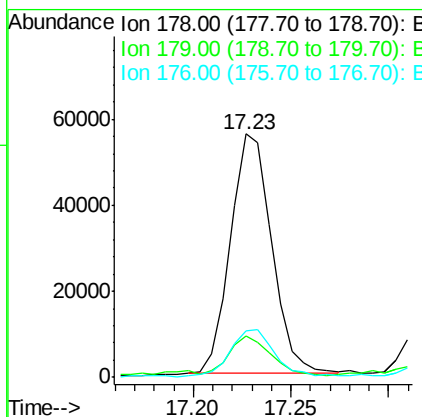
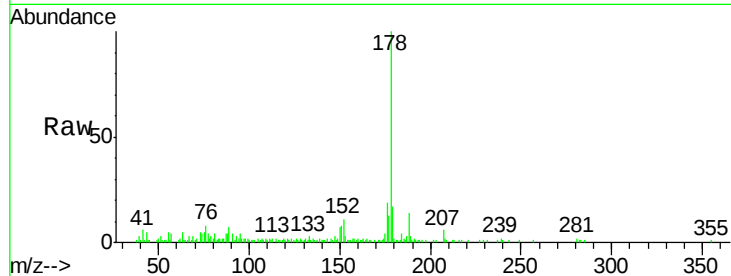
#69  
Phenanthrene  
Concen: 1.387 ng/ul  
RT: 17.23 min Scan# 2404  
Delta R.T. -0.00 min  
Lab File: BM012310.D  
Acq: 19 Oct 2017 09:48

Instrument :  
BNA\_M  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 17.0  | 12.0  | 18.0  |
| 176     | 19.3  | 15.0  | 22.6  |

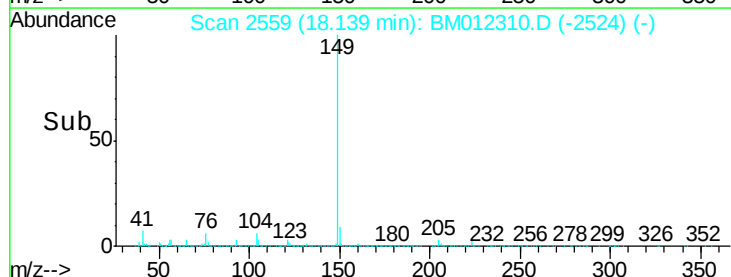
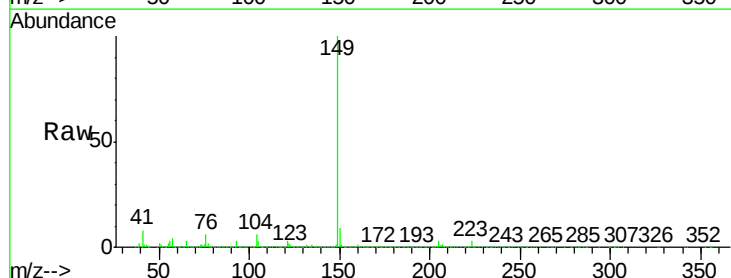
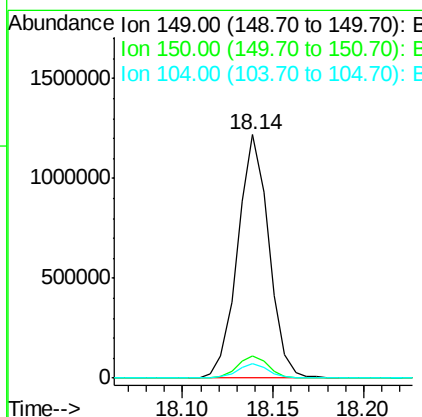
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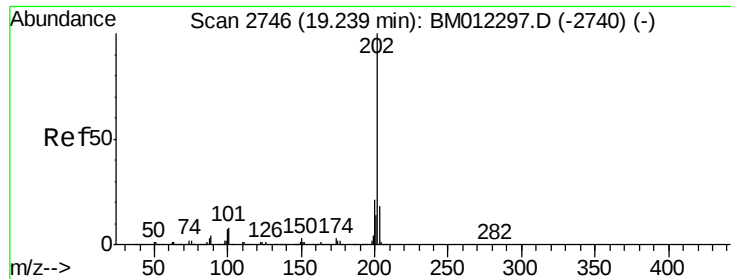
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#73  
Di-n-butylphthalate  
Concen: 20.241 ng/ul  
RT: 18.14 min Scan# 2559  
Delta R.T. 0.01 min  
Lab File: BM012310.D  
Acq: 19 Oct 2017 09:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 9.0   | 7.4   | 11.0  |
| 104     | 5.9   | 4.2   | 6.4   |





#74

Fluoranthene

Concen: 3.956 ng/ul

RT: 19.25 min Scan# 2748

Delta R.T. 0.01 min

Lab File: BM012310.D

Acq: 19 Oct 2017 09:48

Instrument :

BNA\_M

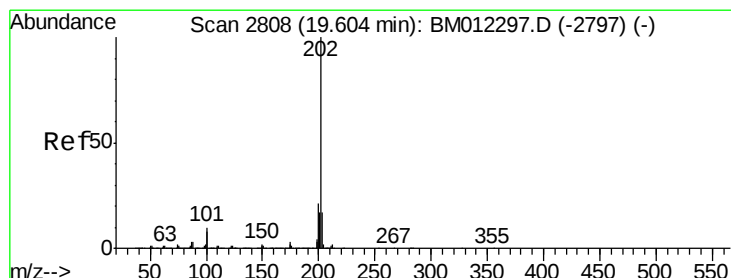
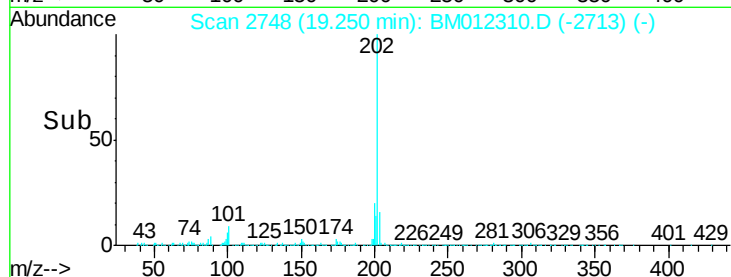
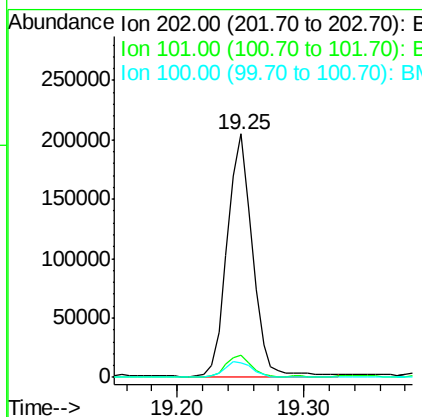
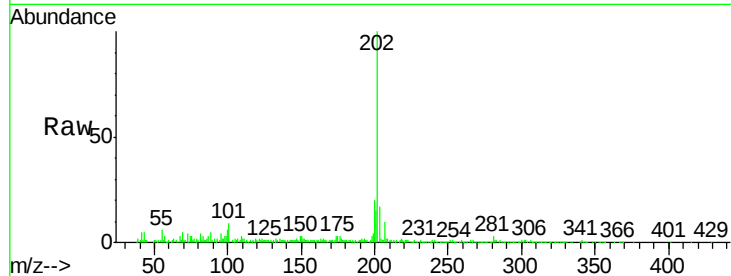
ClientSampleId :

B-74(0-1)-100417

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 280922 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 9.3   | 5.8   | 8.6#   |
| 100       | 6.2   | 4.3   | 6.5    |

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#77

Pyrene

Concen: 3.463 ng/ul

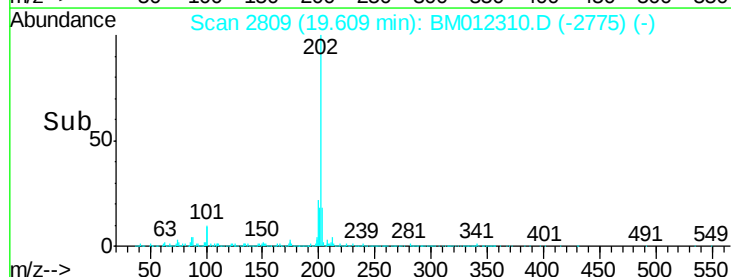
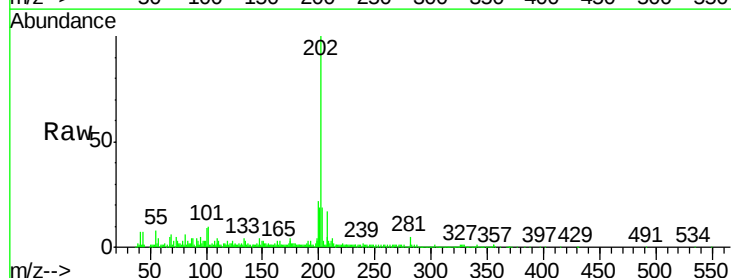
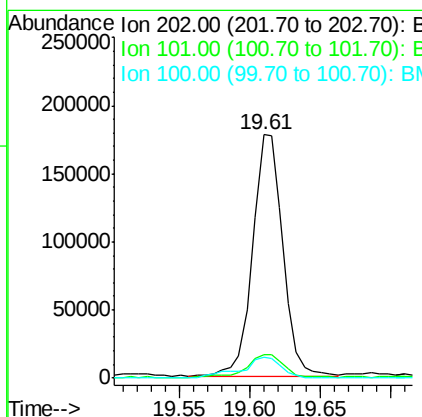
RT: 19.61 min Scan# 2809

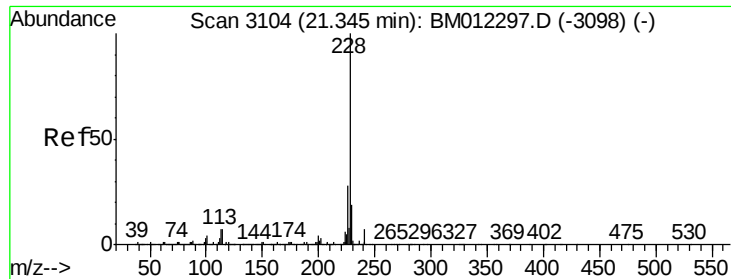
Delta R.T. -0.00 min

Lab File: BM012310.D

Acq: 19 Oct 2017 09:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 267651 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 9.9   | 6.5   | 9.7#   |
| 100       | 8.7   | 5.6   | 8.4#   |





#80

Benzo(a)anthracene

Concen: 2.688 ng/ul

RT: 21.36 min Scan# 3106

Delta R.T. 0.01 min

Lab File: BM012310.D

Acq: 19 Oct 2017 09:48

Instrument :

BNA\_M

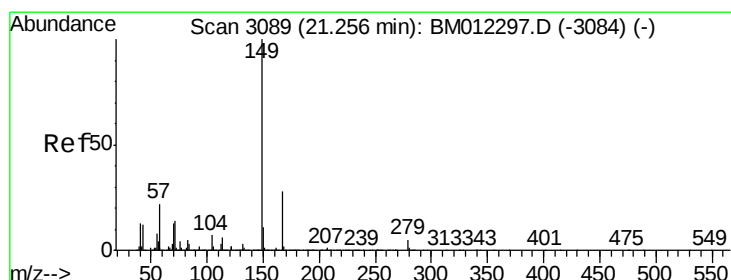
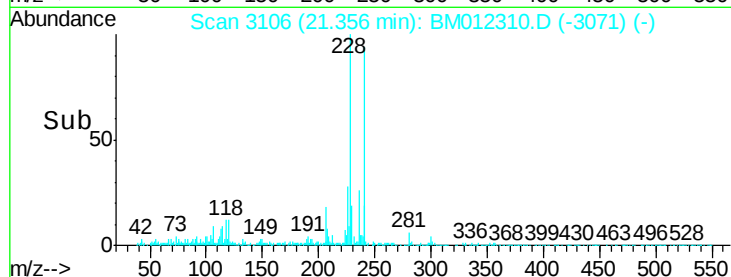
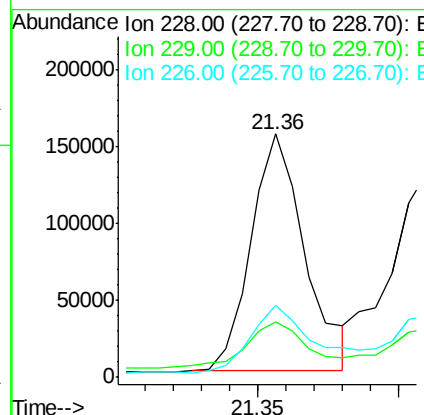
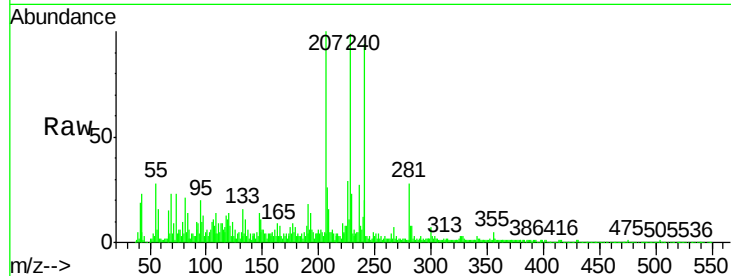
ClientSampleId :

B-74(0-1)-100417

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 204672 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 22.9  | 15.8  | 23.8   |
| 226       | 29.6  | 21.4  | 32.2   |

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#81

Bis(2-ethylhexyl)phthalate

Concen: 94.372 ng/ul

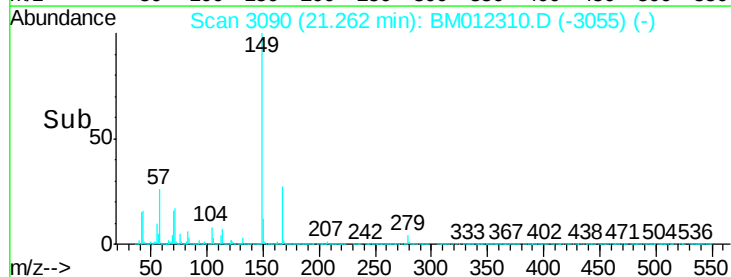
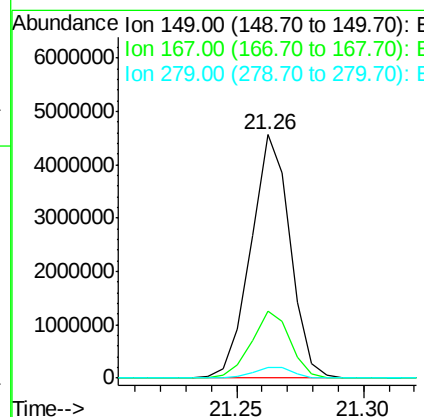
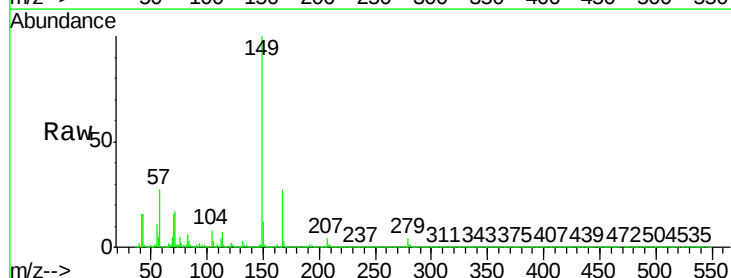
RT: 21.26 min Scan# 3090

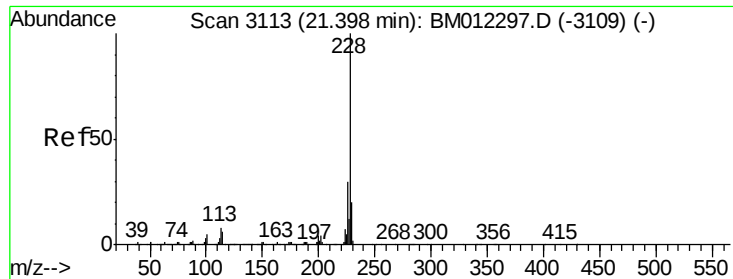
Delta R.T. 0.01 min

Lab File: BM012310.D

Acq: 19 Oct 2017 09:48

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 149   | Resp: | 4871998 |
| Ion Ratio | Lower | Upper |         |
| 149       | 100   |       |         |
| 167       | 27.4  | 22.5  | 33.7    |
| 279       | 4.3   | 4.4   | 6.6#    |





#82

Chrysene

Concen: 2.628 ng/ul

RT: 21.41 min Scan# 3115

Delta R.T. 0.01 min

Lab File: BM012310.D

Acq: 19 Oct 2017 09:48

Instrument :

BNA\_M

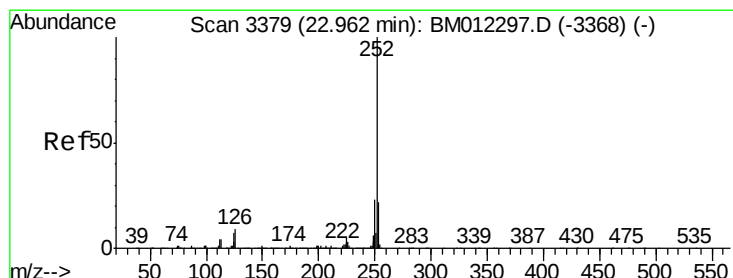
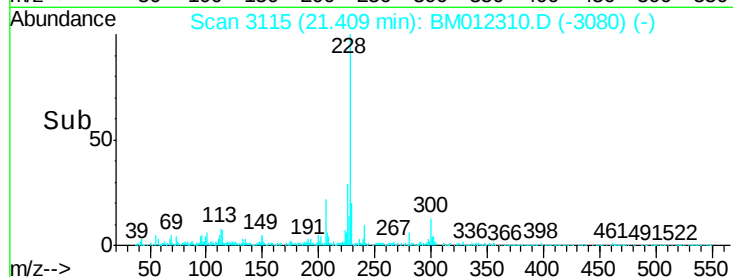
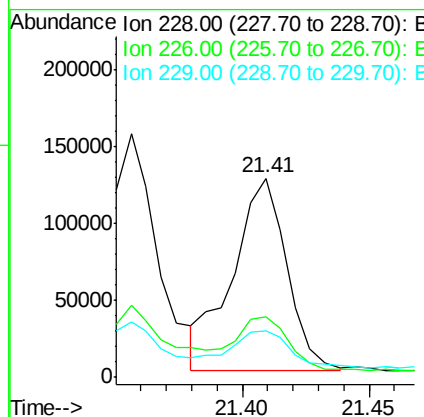
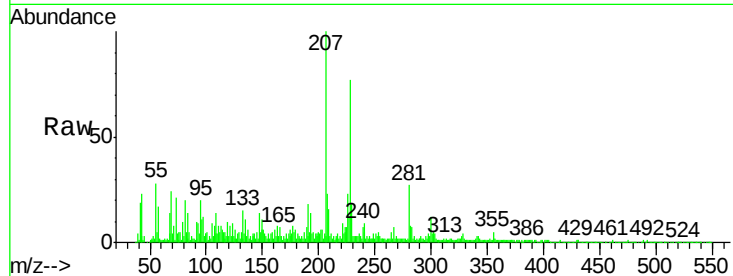
ClientSampleId :

B-74(0-1)-100417

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 187867 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.5  | 24.0  | 36.0   |
| 229       | 23.2  | 15.5  | 23.3   |

Manual Integrations  
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#85

Benzo(b)fluoranthene

Concen: 4.177 ng/ul

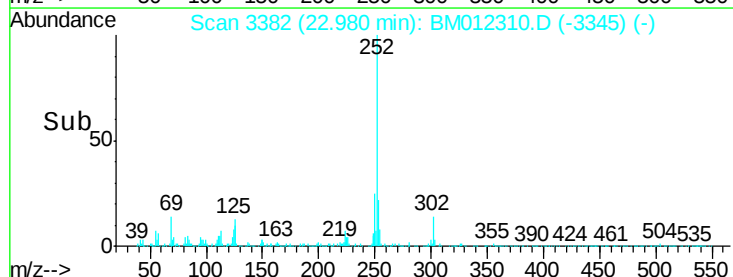
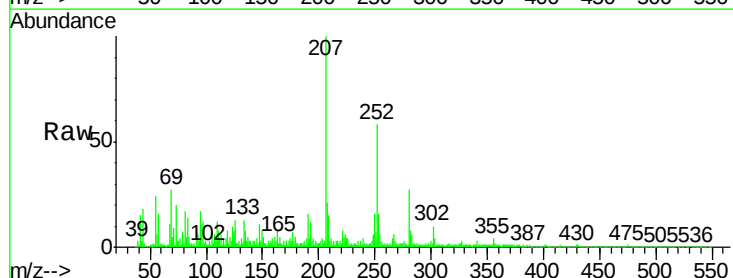
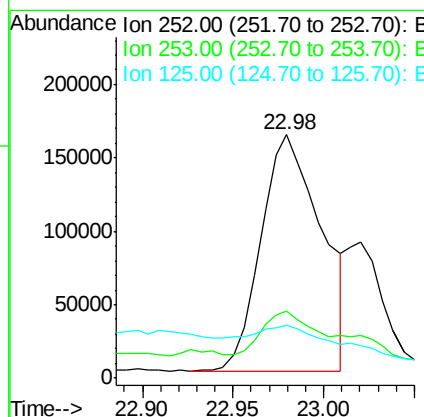
RT: 22.98 min Scan# 3382

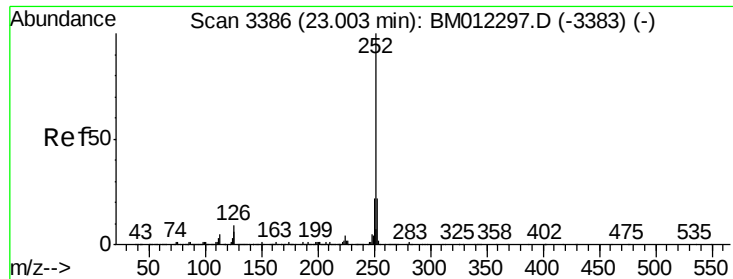
Delta R.T. 0.02 min

Lab File: BM012310.D

Acq: 19 Oct 2017 09:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 372385 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 27.3  | 17.4  | 26.2#  |
| 125       | 21.7  | 5.1   | 7.7#   |





#86

Benzo(k)fluoranthene

Concen: 1.423 ng/ul m

RT: 23.02 min Scan# 3389

Delta R.T. 0.01 min

Lab File: BM012310.D

Acq: 19 Oct 2017 09:48

Instrument :

BNA\_M

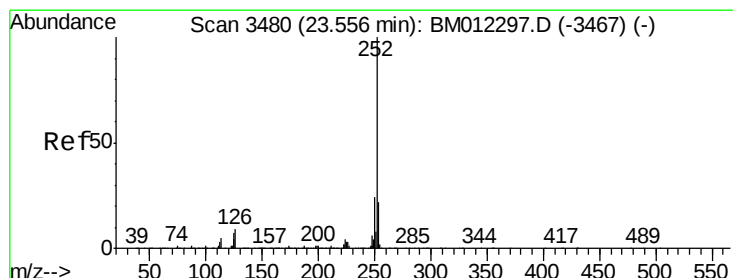
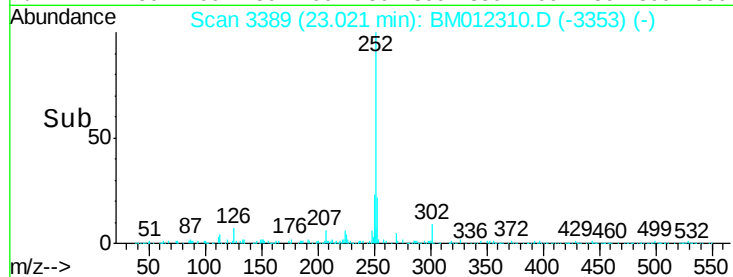
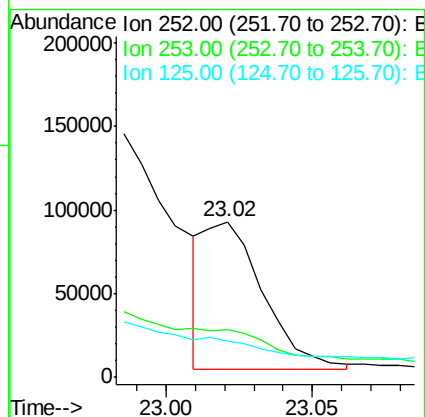
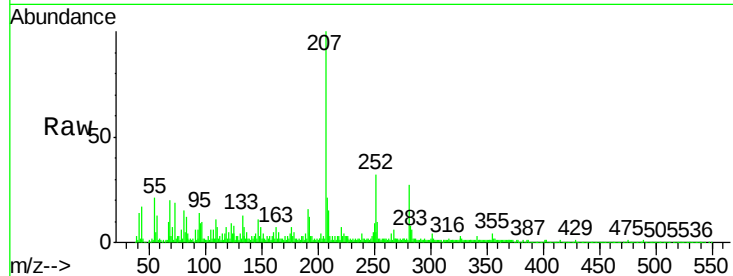
ClientSampleId :

B-74(0-1)-100417

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 122292 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 31.1  | 17.8  | 26.6#  |
| 125       | 23.5  | 4.9   | 7.3#   |

Manual Integrations  
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#88

Benzo(a)pyrene

Concen: 2.938 ng/ul

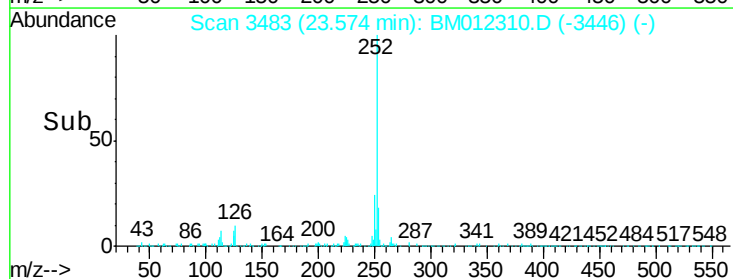
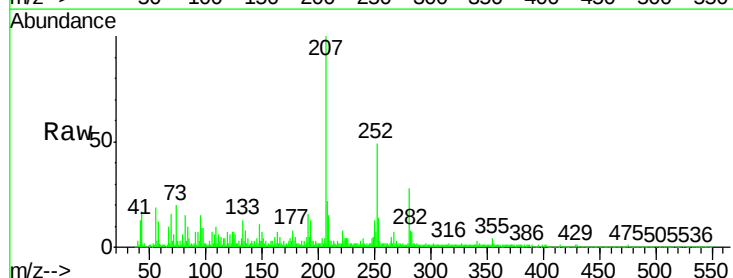
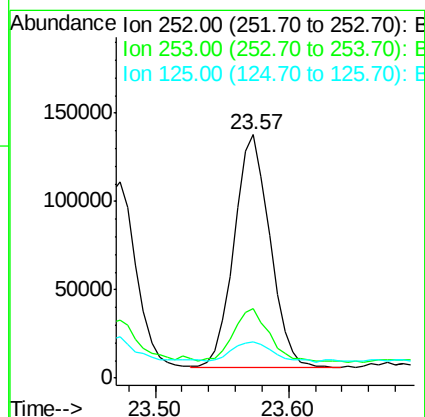
RT: 23.57 min Scan# 3483

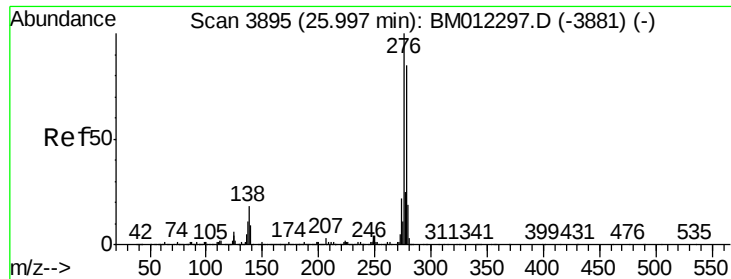
Delta R.T. 0.02 min

Lab File: BM012310.D

Acq: 19 Oct 2017 09:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 246836 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 28.4  | 17.1  | 25.7#  |
| 125       | 14.8  | 5.2   | 7.8#   |





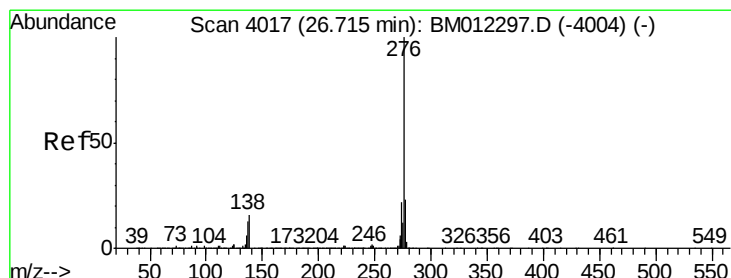
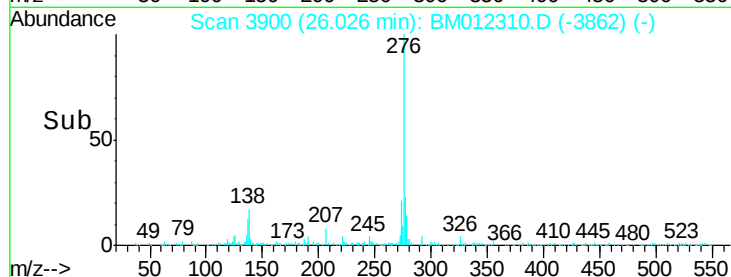
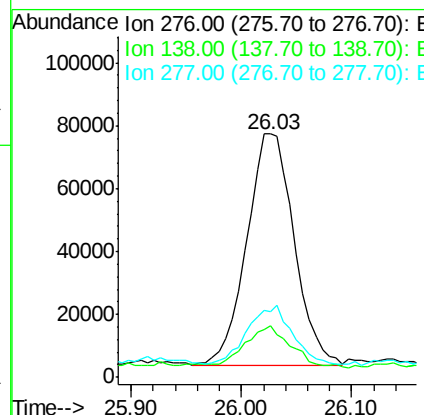
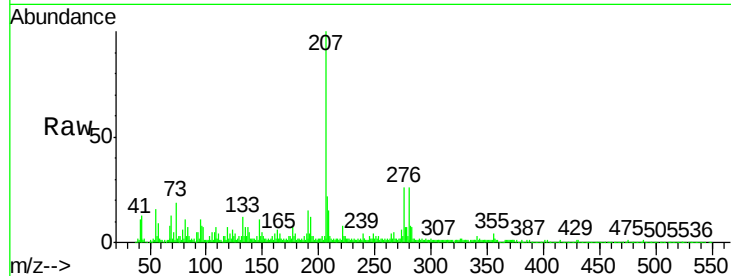
#89  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.464 ng/ul  
 RT: 26.03 min Scan# 3900  
 Delta R.T. 0.02 min  
 Lab File: BM012310.D  
 Acq: 19 Oct 2017 09:48

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B-74(0-1)-100417

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.9  | 13.2  | 19.8# |
| 277     | 27.1  | 20.6  | 31.0  |

Manual Integrations  
 APPROVED

Sohil  
 10/23/2017 3:50:19 PM



#91  
 Benzo(g,h,i)perylene  
 Concen: 2.769 ng/ul  
 RT: 26.75 min Scan# 4023  
 Delta R.T. 0.02 min  
 Lab File: BM012310.D  
 Acq: 19 Oct 2017 09:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.2  | 10.7  | 16.1# |
| 277     | 29.0  | 19.0  | 28.4# |

