

Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
 Data File : BM012468.D  
 Acq On : 26 Oct 2017 11:48  
 Operator : SJ/JU  
 Sample : I5701-18DL 5X  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B0CK4DL

Manual Integrations  
 APPROVED

Sohil  
 10/27/2017 8:54:35 AM

Quant Time: Oct 26 14:50:07 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Oct 26 09:35:31 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.88  | 152  | 496241   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.67 | 136  | 2030056  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.51 | 164  | 1214188  | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.25 | 188  | 2609064  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.42 | 240  | 2066378  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.73 | 264  | 2278688  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.37  | 96  | 6465   | 0.67 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.05  | 99  | 146508 | 3.53 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.21  | 67  | 95007  | 3.86 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.42  | 132 | 117600 | 3.79 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.58  | 113 | 119538 | 3.37 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.03  | 128 | 56962  | 4.48 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.76  | 143 | 62202  | 4.75 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.29 | 165 | 128484 | 3.70 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.81 | 131 | 35716  | 0.98 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.92 | 166 | 415592 | 3.92 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.20 | 160 | 499650 | 3.98 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.70 | 143 | 39536  | 2.51 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.50 | 176 | 350337 | 3.90 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.62 | 200 | 21536  | 1.71 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.34 | 188 | 518078 | 4.17 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.63 | 212 | 472374 | 4.98 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.58 | 264 | 432279 | 3.99 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |        | Ovalue |    |
|----------------------------|-------|-----|---------|--------|--------|----|
| 44) Dimethylphthalate      | 13.96 | 163 | 162159  | 1.546  | ng/ul  | 99 |
| 47) Acenaphthylene         | 14.23 | 152 | 321772  | 2.687  | ng/ul  | 99 |
| 69) Phenanthrene           | 17.29 | 178 | 1816345 | 12.873 | ng/ul  | 99 |
| 71) Anthracene             | 17.38 | 178 | 378634  | 2.596  | ng/ul  | 98 |
| 74) Fluoranthene           | 19.30 | 202 | 2767480 | 17.310 | ng/ul# | 94 |
| 77) Pyrene                 | 19.66 | 202 | 3492772 | 29.724 | ng/ul# | 92 |
| 80) Benzo(a)anthracene     | 21.40 | 228 | 1430481 | 11.561 | ng/ul  | 94 |
| 82) Chrysene               | 21.46 | 228 | 1584893 | 14.406 | ng/ul  | 96 |
| 85) Benzo(b)fluoranthene   | 23.04 | 252 | 1615386 | 11.468 | ng/ul# | 97 |
| 86) Benzo(k)fluoranthene   | 23.07 | 252 | 423468m | 3.194  | ng/ul  |    |
| 88) Benzo(a)pyrene         | 23.63 | 252 | 1276420 | 9.504  | ng/ul# | 98 |
| 89) Indeno(1,2,3-cd)pyrene | 26.07 | 276 | 882811  | 5.585  | ng/ul  | 97 |
| 90) Dibenzo(a,h)anthracene | 26.07 | 278 | 255723  | 1.908  | ng/ul# | 80 |
| 91) Benzo(g,h,i)perylene   | 26.79 | 276 | 876086  | 6.839  | ng/ul# | 94 |

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

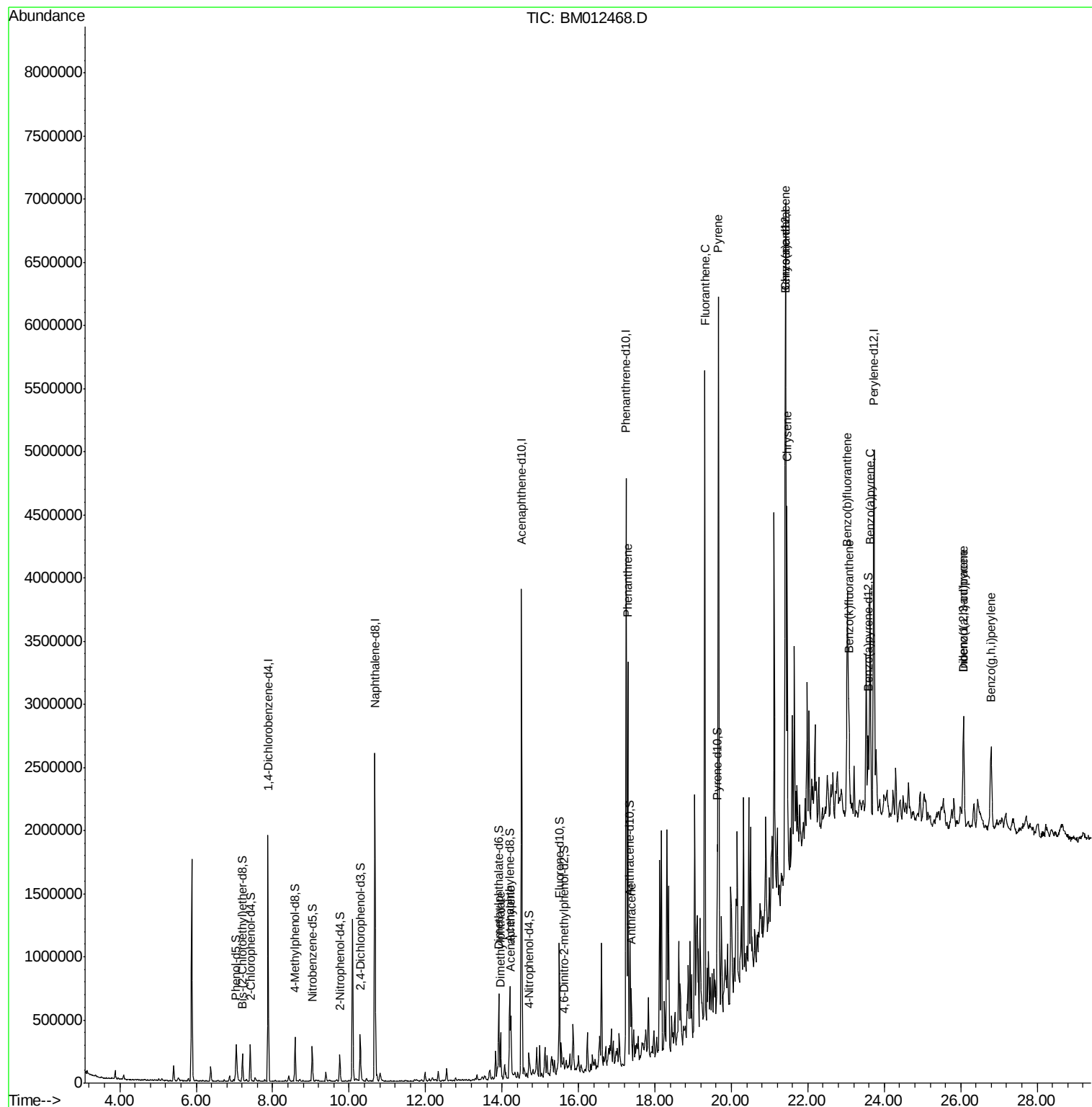
Data Path : Z:\HPCHEM1\BNA M\DATA\BM102517\  
Data File : BM012468.D  
Acq On : 26 Oct 2017 11:48  
Operator : SJ/JU  
Sample : I5701-18DL 5X  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

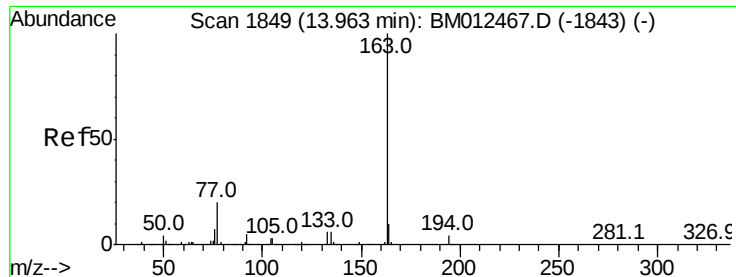
Instrument :  
BNA\_M  
ClientSampleId :  
B0CK4DL

Manual Integrations  
APPROVED

Sohil  
10/27/2017 8:54:35 AM

Quant Time: Oct 26 14:50:07 2017  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Oct 26 09:35:31 2017  
Response via : Initial Calibration





#44

Dimethylphthalate

Concen: 1.546 ng/ul

RT: 13.96 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BM012468.D

Acq: 26 Oct 2017 11:48

Instrument :

BNA\_M

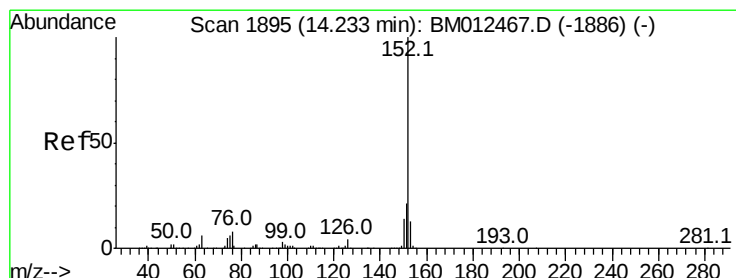
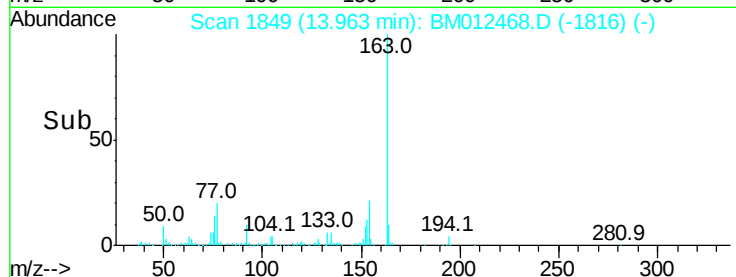
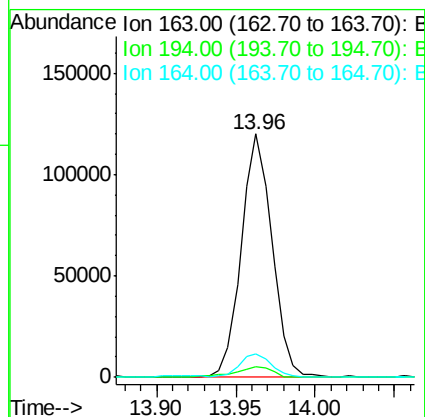
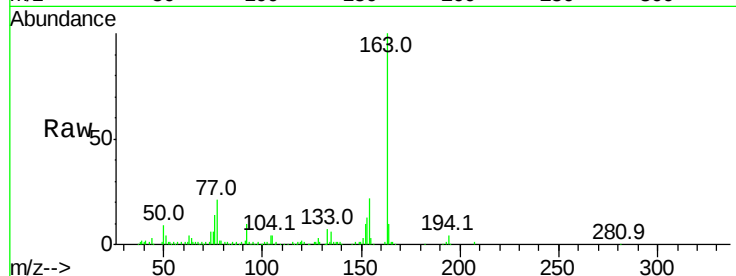
ClientSampleId :

B0CK4DL

|           |     |       |        |
|-----------|-----|-------|--------|
| Tot Ion:  | 163 | Resp: | 162159 |
| Ion Ratio |     | Lower | Upper  |
| 163       | 100 |       |        |
| 194       | 4.3 | 3.5   | 5.3    |
| 164       | 9.8 | 8.2   | 12.4   |

Manual Integrations  
APPROVED

Sohil  
10/27/2017 8:54:35 AM



#47

Acenaphthylene

Concen: 2.687 ng/ul

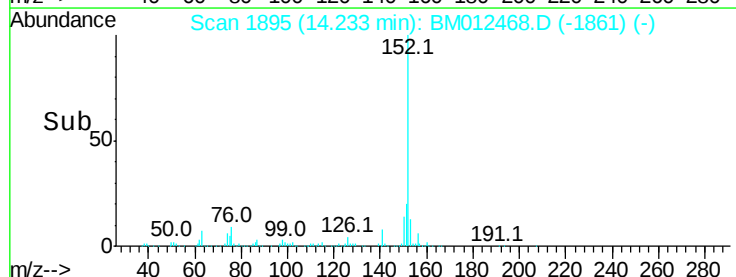
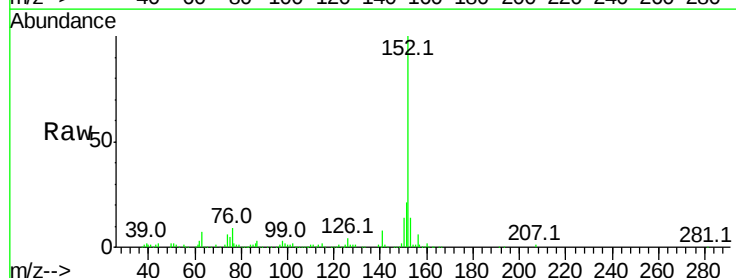
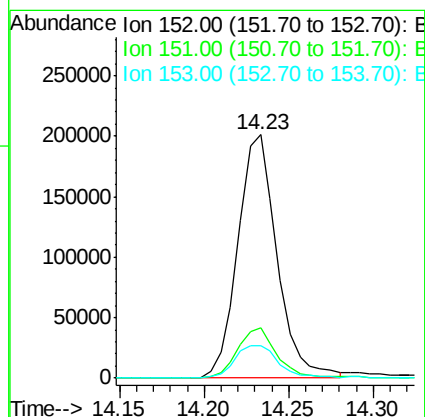
RT: 14.23 min Scan# 1895

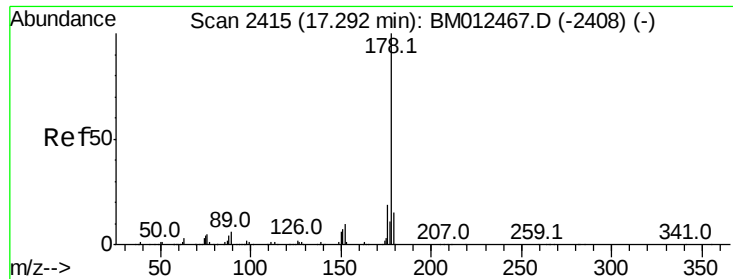
Delta R.T. 0.00 min

Lab File: BM012468.D

Acq: 26 Oct 2017 11:48

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 152  | Resp: | 321772 |
| Ion Ratio |      | Lower | Upper  |
| 152       | 100  |       |        |
| 151       | 20.5 | 16.3  | 24.5   |
| 153       | 13.6 | 10.2  | 15.4   |





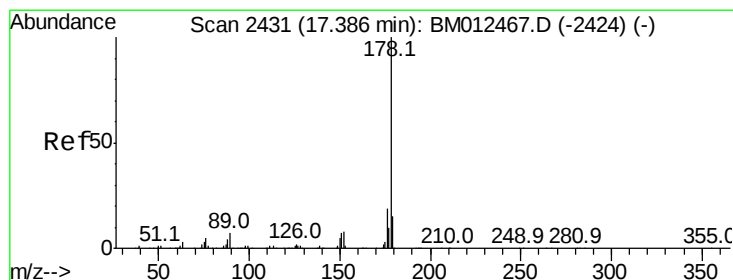
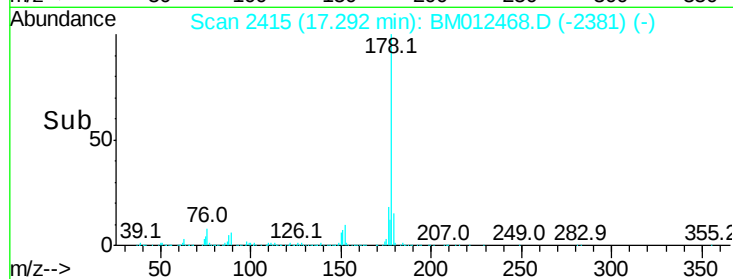
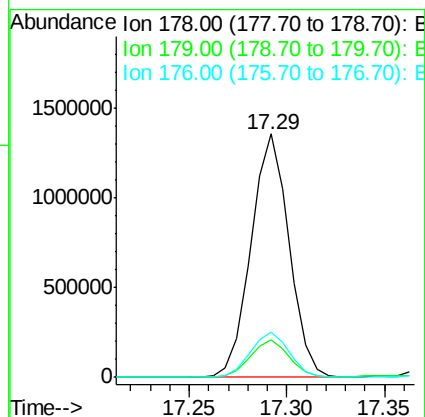
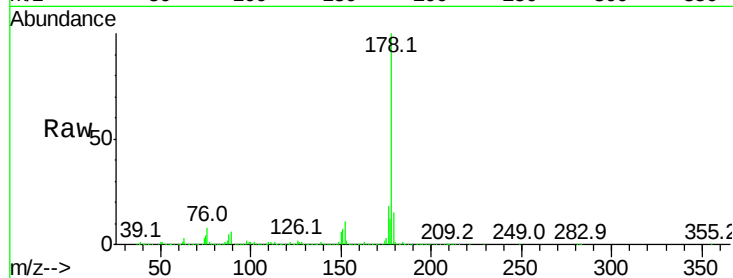
#69  
 Phenanthrene  
 Concen: 12.873 ng/ul  
 RT: 17.29 min Scan# 2415  
 Delta R.T. 0.00 min  
 Lab File: BM012468.D  
 Acq: 26 Oct 2017 11:48

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B0CK4DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.2  | 12.6  | 19.0  |
| 176     | 18.5  | 14.9  | 22.3  |

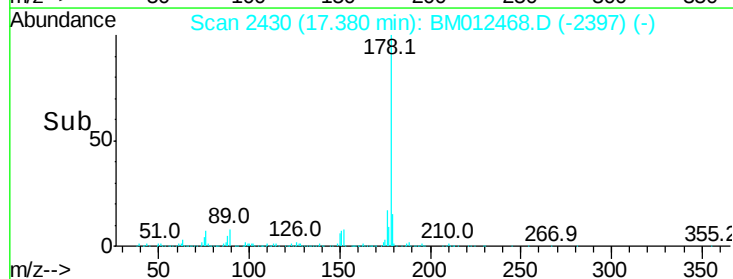
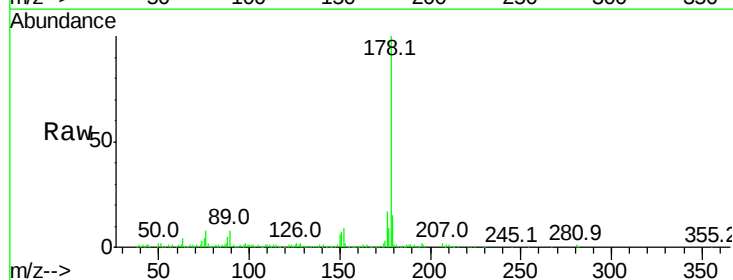
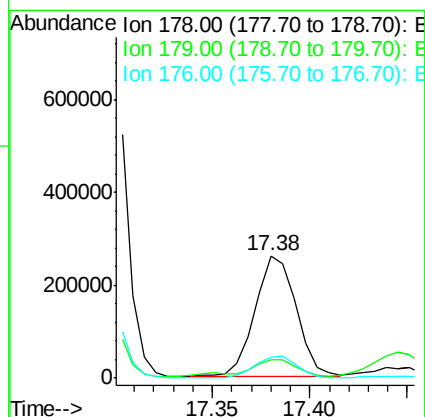
Manual Integrations  
 APPROVED

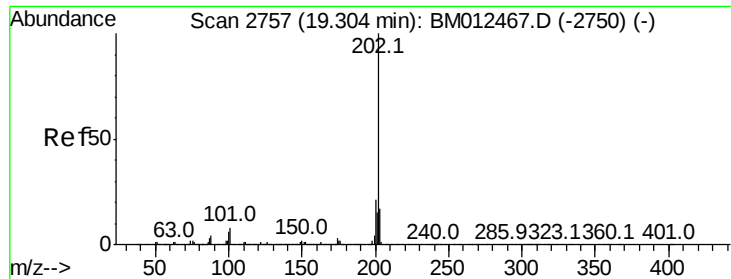
Sohil  
 10/27/2017 8:54:35 AM



#71  
 Anthracene  
 Concen: 2.596 ng/ul  
 RT: 17.38 min Scan# 2430  
 Delta R.T. -0.01 min  
 Lab File: BM012468.D  
 Acq: 26 Oct 2017 11:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.4  | 11.7  | 17.5  |
| 176     | 17.2  | 14.6  | 21.8  |





#74

Fluoranthene

Concen: 17.310 ng/ul

RT: 19.30 min Scan# 2757

Delta R.T. 0.00 min

Lab File: BM012468.D

Acq: 26 Oct 2017 11:48

Instrument :

BNA\_M

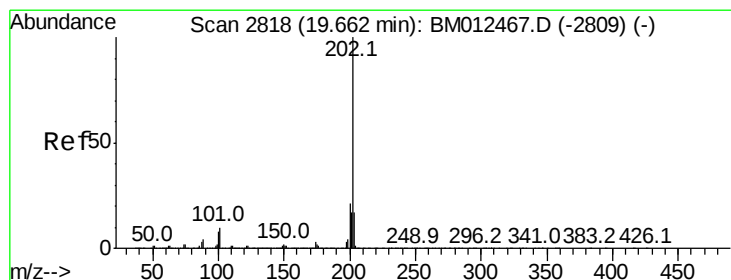
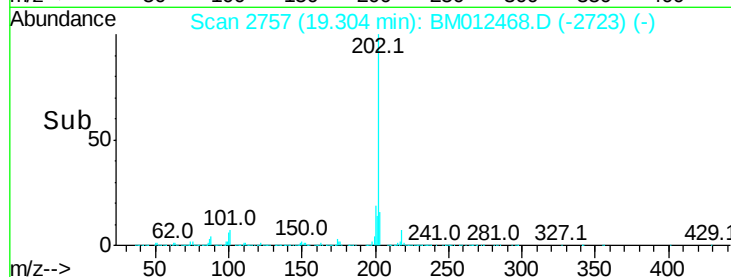
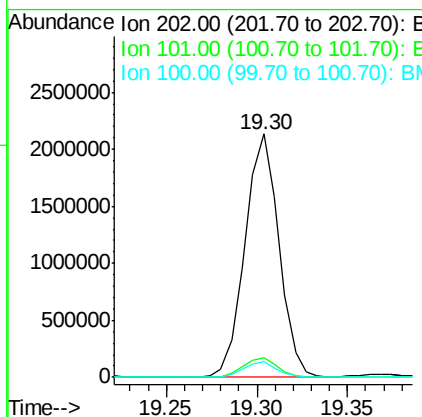
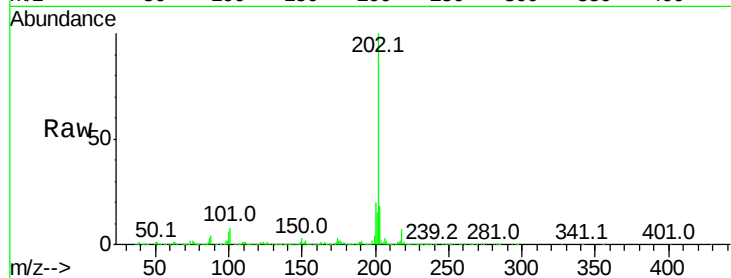
ClientSampled :

B0CK4DL

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 2767480 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 8.0   | 4.6   | 7.0#    |
| 100       | 6.4   | 3.4   | 5.2#    |

Manual Integrations  
APPROVED

Sohil  
10/27/2017 8:54:35 AM



#77

Pyrene

Concen: 29.724 ng/ul

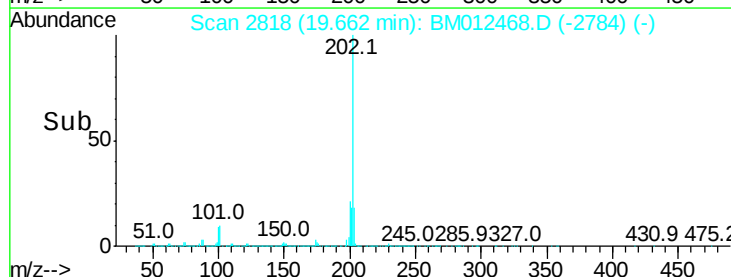
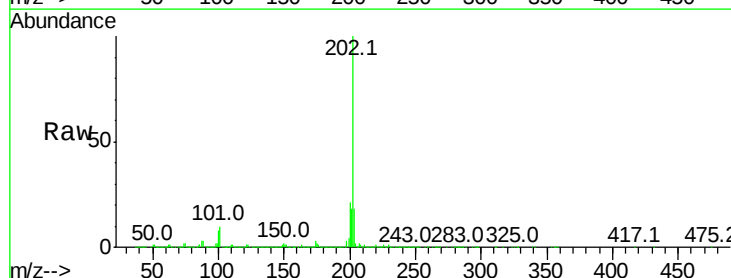
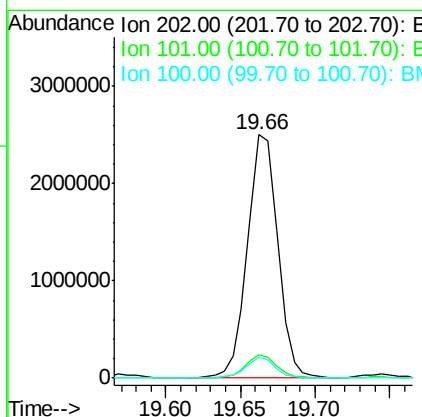
RT: 19.66 min Scan# 2818

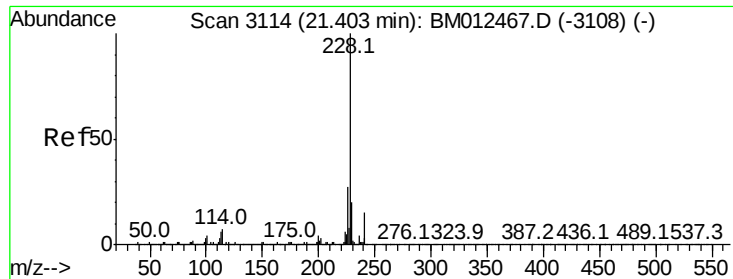
Delta R.T. 0.00 min

Lab File: BM012468.D

Acq: 26 Oct 2017 11:48

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 3492772 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 9.8   | 5.1   | 7.7#    |
| 100       | 8.4   | 4.9   | 7.3#    |





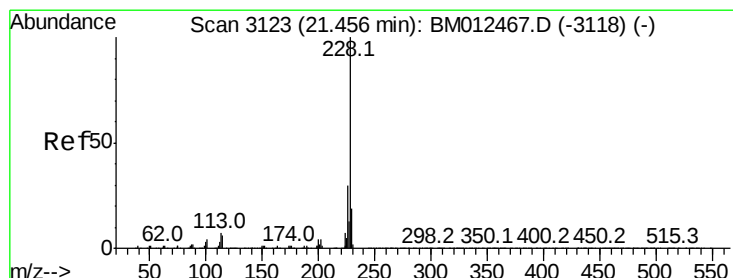
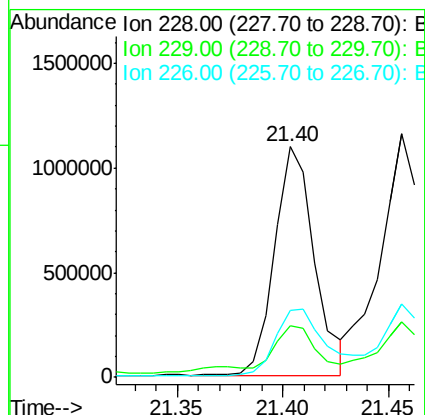
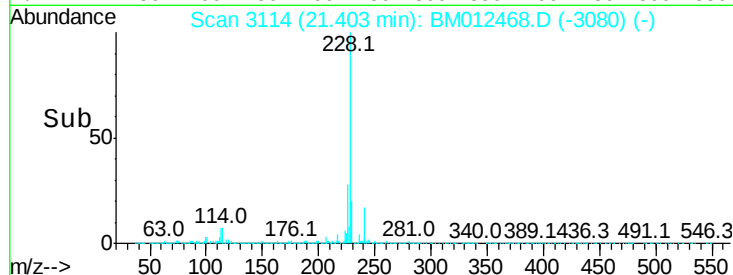
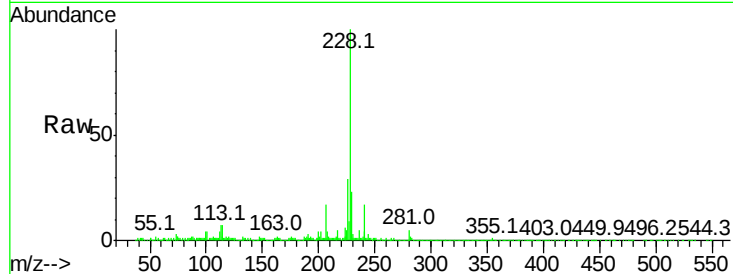
#80  
Benzo(a)anthracene  
Concen: 11.561 ng/ul  
RT: 21.40 min Scan# 3114  
Delta R.T. 0.00 min  
Lab File: BM012468.D  
Acq: 26 Oct 2017 11:48

Instrument :  
BNA\_M  
ClientSampled :  
B0CK4DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.7  | 15.4  | 23.0  |
| 226     | 29.3  | 21.4  | 32.0  |

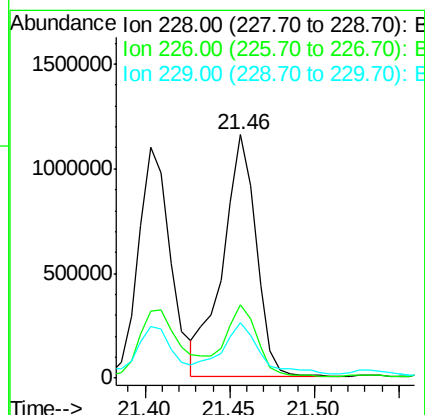
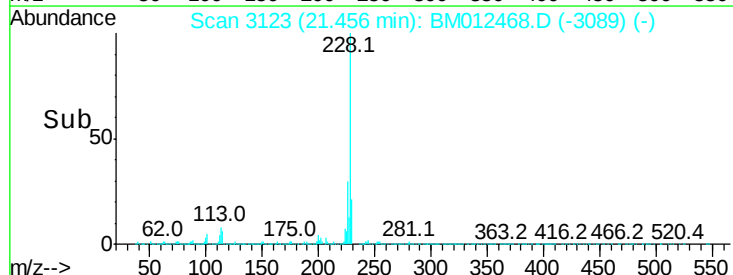
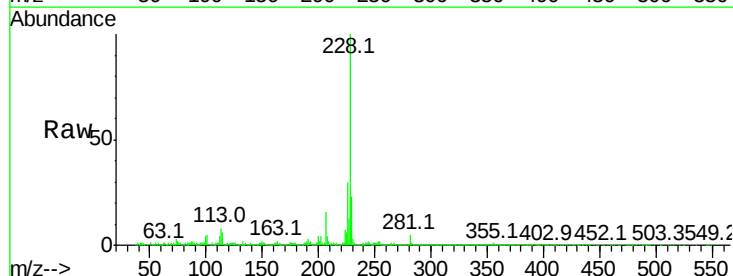
Manual Integrations  
APPROVED

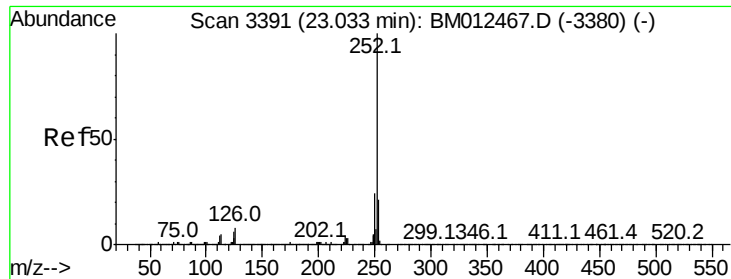
Sohil  
10/27/2017 8:54:35 AM



#82  
Chrysene  
Concen: 14.406 ng/ul  
RT: 21.46 min Scan# 3123  
Delta R.T. 0.00 min  
Lab File: BM012468.D  
Acq: 26 Oct 2017 11:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.3  | 23.4  | 35.2  |
| 229     | 22.6  | 15.5  | 23.3  |





#85

Benzo(b)fluoranthene

Concen: 11.468 ng/ul

RT: 23.04 min Scan# 3392

Delta R.T. 0.01 min

Lab File: BM012468.D

Acq: 26 Oct 2017 11:48

Instrument :

BNA\_M

ClientSampleId :

B0CK4DL

Tot Ion:252 Resp: 1615386

Ion Ratio Lower Upper

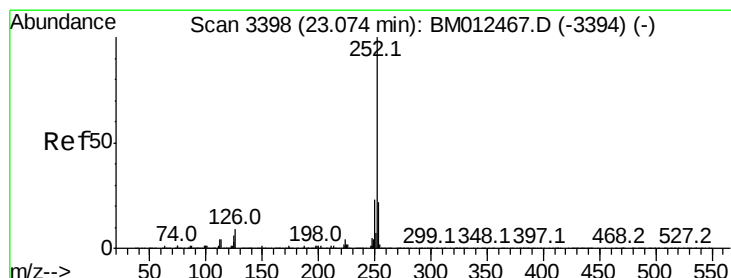
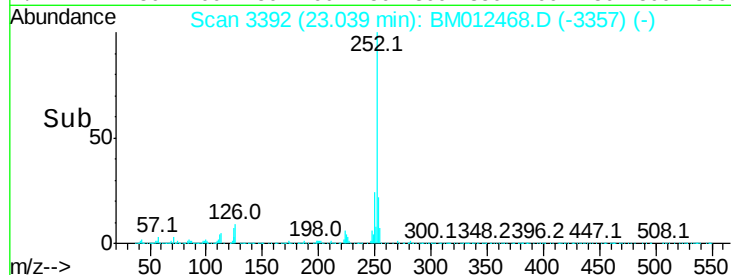
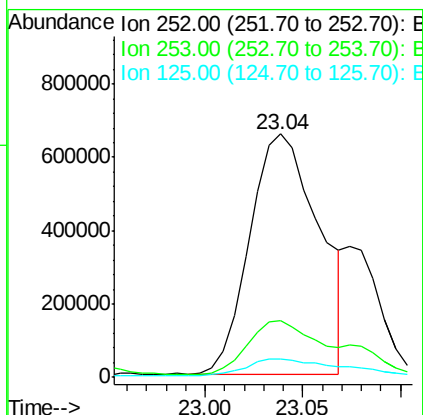
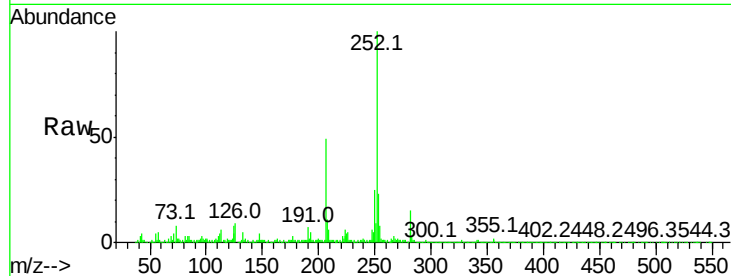
252 100

253 23.3 17.9 26.9

125 7.6 3.6 5.4#

Manual Integrations  
APPROVED

Sohil  
10/27/2017 8:54:35 AM



#86

Benzo(k)fluoranthene

Concen: 3.194 ng/ul m

RT: 23.07 min Scan# 3398

Delta R.T. -0.01 min

Lab File: BM012468.D

Acq: 26 Oct 2017 11:48

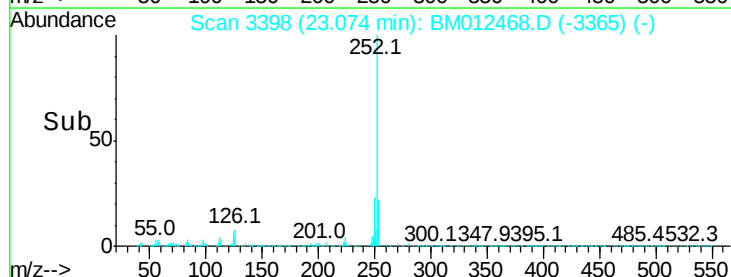
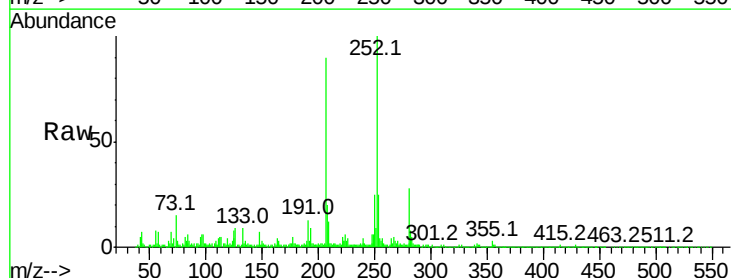
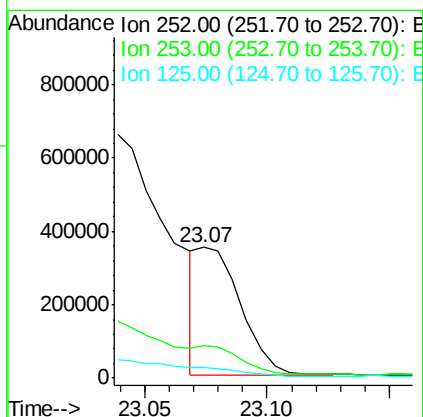
Tgt Ion:252 Resp: 423468

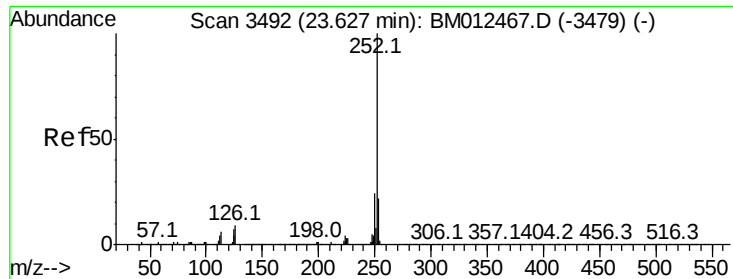
Ion Ratio Lower Upper

252 100

253 24.8 17.1 25.7

125 8.0 3.4 5.2#





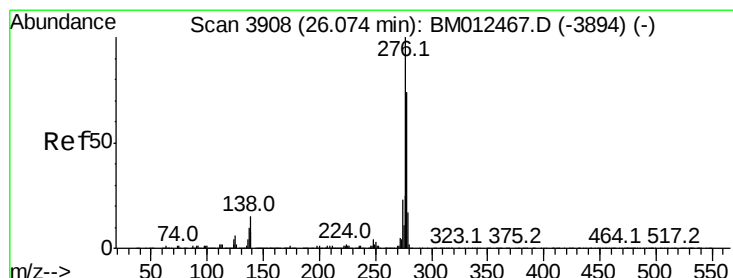
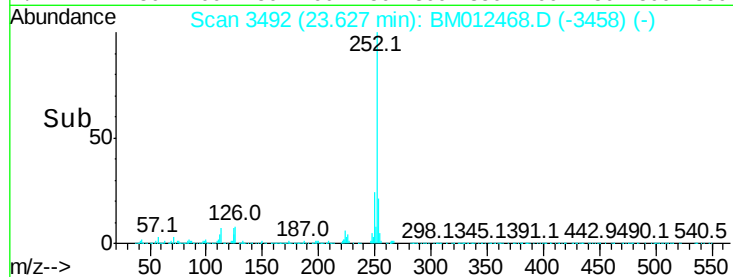
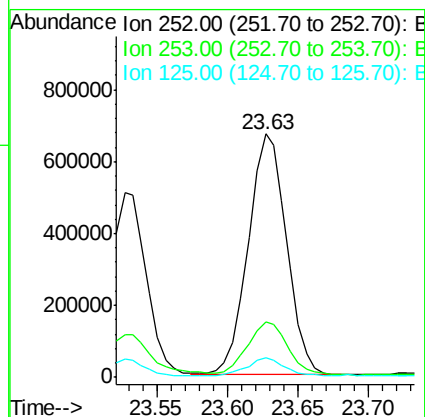
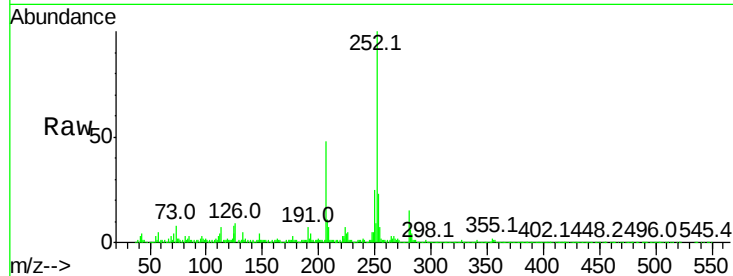
#88  
Benzo(a)pyrene  
Concen: 9.504 ng/ul  
RT: 23.63 min Scan# 3492  
Delta R.T. 0.00 min  
Lab File: BM012468.D  
Acq: 26 Oct 2017 11:48

Instrument :  
BNA\_M  
ClientSampleId :  
B0CK4DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 18.2  | 27.2  |
| 125     | 8.2   | 4.0   | 6.0   |

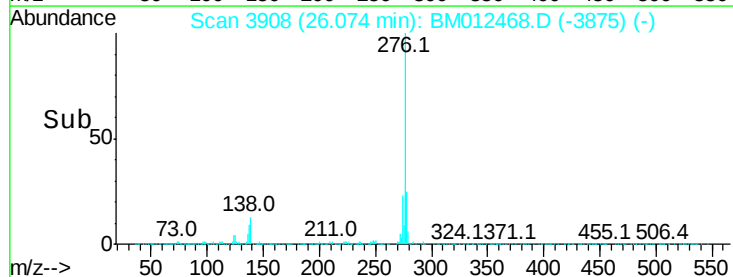
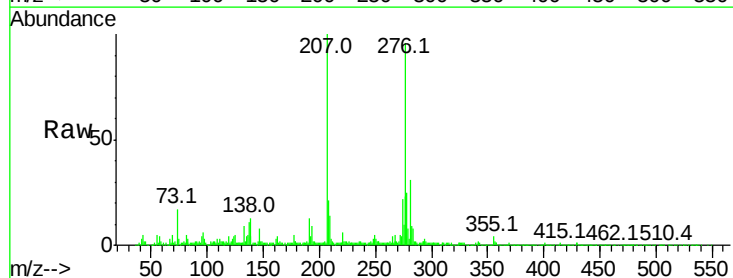
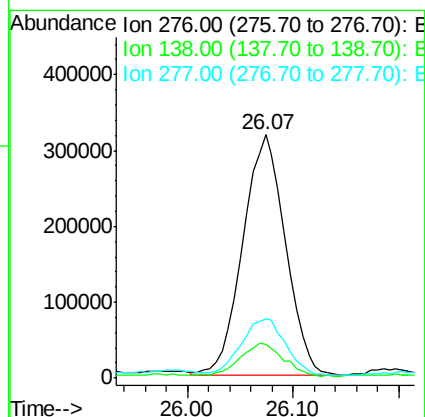
Manual Integrations  
APPROVED

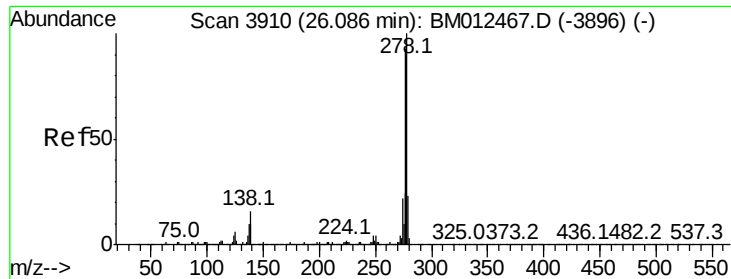
Sohil  
10/27/2017 8:54:35 AM



#89  
Indeno(1,2,3-cd)pyrene  
Concen: 5.585 ng/ul  
RT: 26.07 min Scan# 3908  
Delta R.T. -0.01 min  
Lab File: BM012468.D  
Acq: 26 Oct 2017 11:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 13.8  | 9.3   | 13.9  |
| 277     | 24.3  | 19.9  | 29.9  |





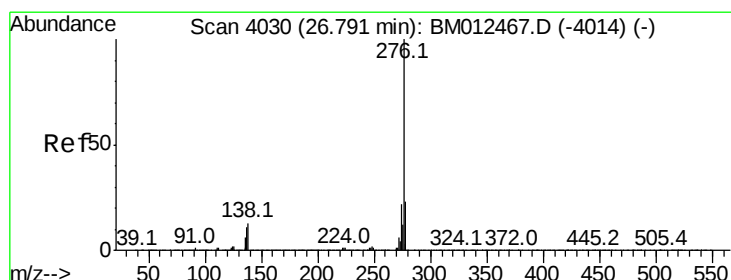
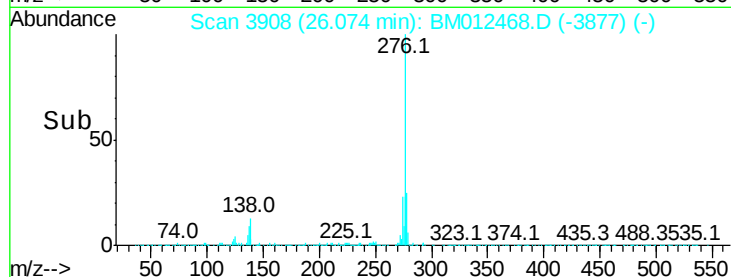
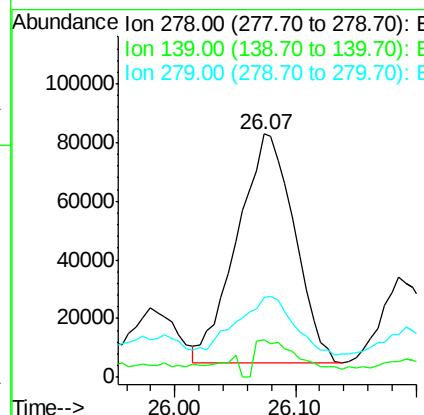
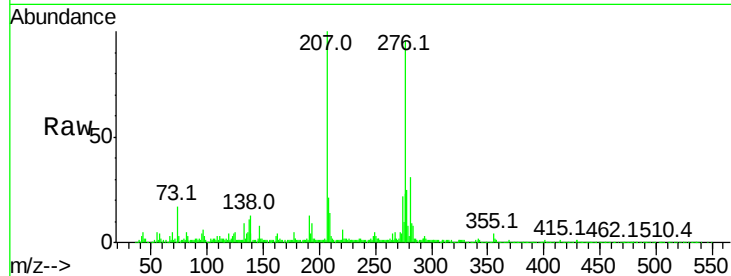
#90  
Dibenzo(a,h)anthracene  
Concen: 1.908 ng/ul  
RT: 26.07 min Scan# 3908  
Delta R.T. -0.02 min  
Lab File: BM012468.D  
Acq: 26 Oct 2017 11:48

Instrument :  
BNA\_M  
ClientSampled :  
B0CK4DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 15.3  | 5.8   | 8.8#  |
| 279     | 32.6  | 18.6  | 27.8# |

Manual Integrations  
APPROVED

Sohil  
10/27/2017 8:54:35 AM



#91  
Benzo(g,h,i)perylene  
Concen: 6.839 ng/ul  
RT: 26.79 min Scan# 4030  
Delta R.T. -0.01 min  
Lab File: BM012468.D  
Acq: 26 Oct 2017 11:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 16.4  | 8.5   | 12.7# |
| 277     | 23.9  | 18.6  | 28.0  |

