

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121817\  
 Data File : BM013504.D  
 Acq On : 18 Dec 2017 18:24  
 Operator : SJ/JU  
 Sample : I6776-04MEDL 30X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 F9A56MEDL

Manual Integrations  
 APPROVED

Sohil  
 12/19/2017 4:56:45 PM

Quant Time: Dec 19 03:17:46 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 19 00:41:55 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.67  | 152  | 181499   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.45 | 136  | 802656   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.32 | 164  | 474990   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.06 | 188  | 1045646  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.26 | 240  | 931074   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.48 | 264  | 801169   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.23  | 96  | 742    | 0.20 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.86  | 99  | 15922m | 1.01 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.02  | 67  | 9382   | 1.05 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.21  | 132 | 11112  | 0.91 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.40  | 113 | 11608m | 0.87 | ng/ul | 0.02 |
| 19) Nitrobenzene-d5            | 8.84  | 128 | 7002   | 1.10 | ng/ul | 0.01 |
| 22) 2-Nitrophenol-d4           | 9.55  | 143 | 5954   | 0.87 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.10 | 165 | 12400m | 0.88 | ng/ul | 0.02 |
| 29) 4-Chloroaniline-d4         | 10.62 | 131 | 11415m | 0.88 | ng/ul | 0.02 |
| 43) Dimethylphthalate-d6       | 13.73 | 166 | 44194  | 1.05 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.01 | 160 | 56341  | 1.08 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.57 | 143 | 2730m  | 0.37 | ng/ul | 0.04 |
| 57) Fluorene-d10               | 15.32 | 176 | 41976  | 1.15 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.46 | 200 | 2024m  | 0.31 | ng/ul | 0.01 |
| 70) Anthracene-d10             | 17.16 | 188 | 64136  | 1.22 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.46 | 212 | 69416  | 1.50 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.34 | 264 | 48357  | 1.18 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |        | Qvalue |    |
|----------------------------|-------|-----|---------|--------|--------|----|
| 74) Fluoranthene           | 19.13 | 202 | 2827010 | 38.833 | ng/ul# | 93 |
| 77) Pyrene                 | 19.50 | 202 | 3417689 | 60.420 | ng/ul# | 93 |
| 80) Benzo(a)anthracene     | 21.24 | 228 | 537222  | 9.094  | ng/ul  | 99 |
| 82) Chrysene               | 21.29 | 228 | 616823  | 11.255 | ng/ul  | 99 |
| 85) Benzo(b)fluoranthene   | 22.81 | 252 | 374182  | 6.928  | ng/ul# | 98 |
| 86) Benzo(k)fluoranthene   | 22.86 | 252 | 115304m | 2.269  | ng/ul  |    |
| 88) Benzo(a)pyrene         | 23.39 | 252 | 95385   | 1.966  | ng/ul# | 92 |
| 89) Indeno(1,2,3-cd)pyrene | 25.71 | 276 | 55128   | 1.145  | ng/ul  | 92 |
| 91) Benzo(g,h,i)perylene   | 26.40 | 276 | 39832   | 1.049  | ng/ul# | 86 |

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

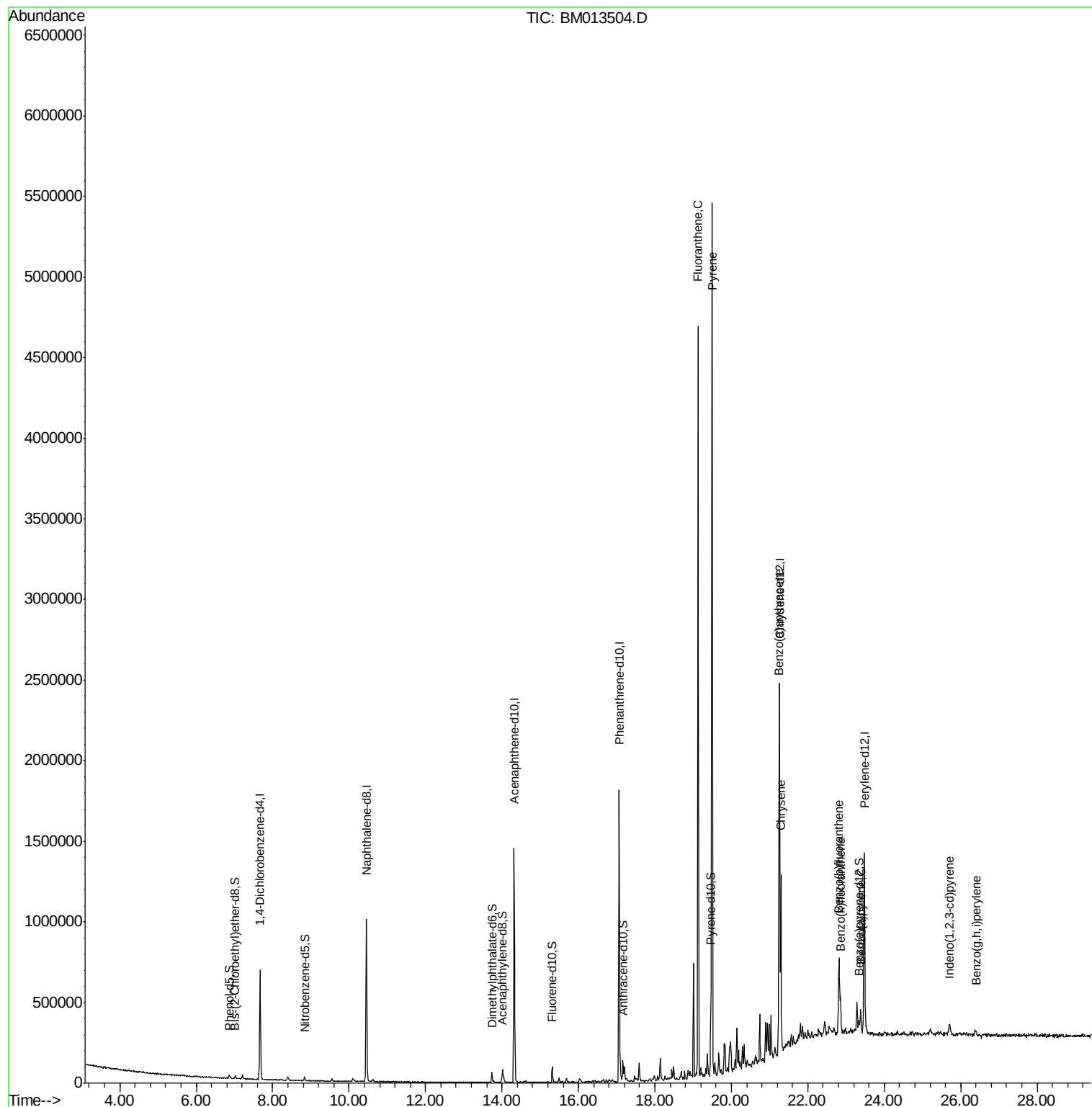
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121817\  
Data File : BM013504.D  
Acq On : 18 Dec 2017 18:24  
Operator : SJ/JU  
Sample : I6776-04MEDL 30X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

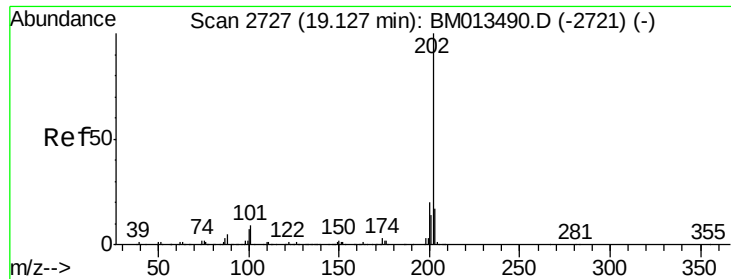
Instrument :  
BNA\_M  
ClientSampleId :  
F9A56MEDL

Manual Integrations  
APPROVED

Sohil  
12/19/2017 4:56:45 PM

Quant Time: Dec 19 03:17:46 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM113017.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Dec 19 00:41:55 2017  
Response via : Initial Calibration





#74

Fluoranthene

Concen: 38.833 ng/ul

RT: 19.13 min Scan# 2728

Delta R.T. 0.01 min

Lab File: BM013504.D

Acq: 18 Dec 2017 18:24

Instrument :

BNA\_M

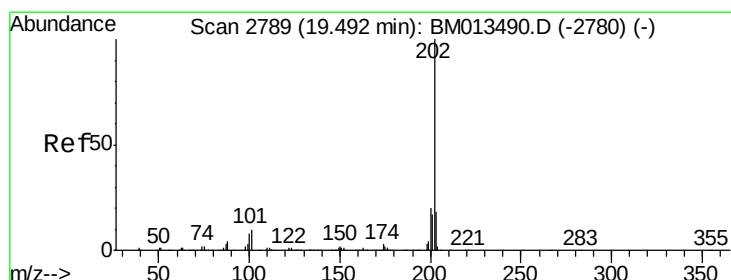
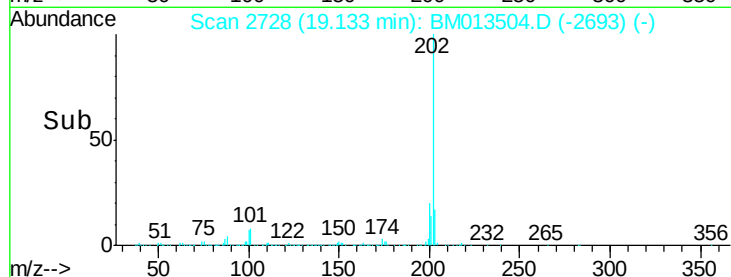
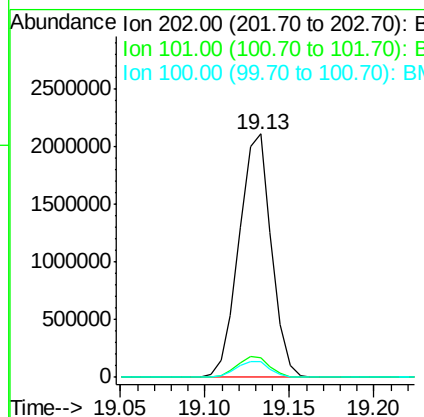
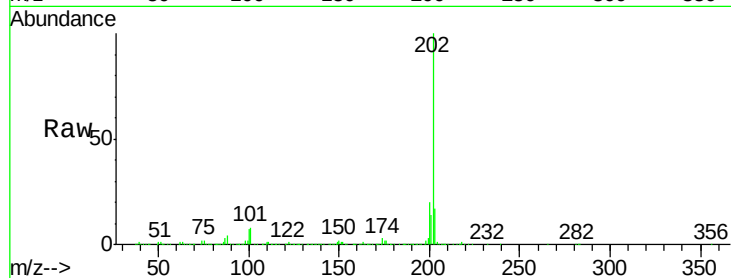
ClientSampleId :

F9A56MEDL

| Tgt | Ion | Ratio | Lower | Upper |
|-----|-----|-------|-------|-------|
| 202 | 100 |       |       |       |
| 101 | 8.1 | 4.6   | 7.0#  |       |
| 100 | 6.6 | 3.4   | 5.2#  |       |

Manual Integrations  
APPROVED

Sohil  
12/19/2017 4:56:45 PM



#77

Pyrene

Concen: 60.420 ng/ul

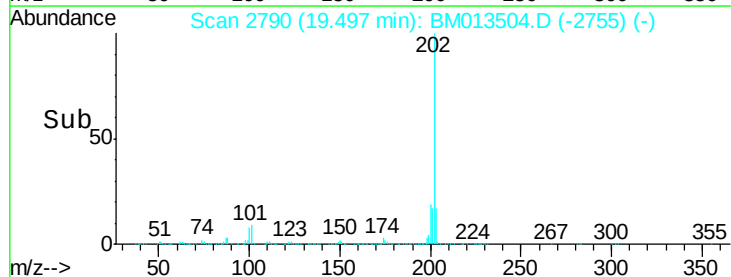
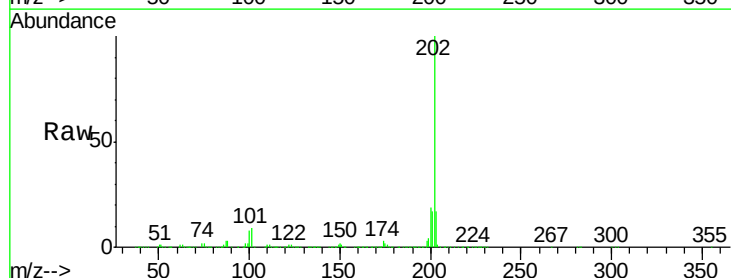
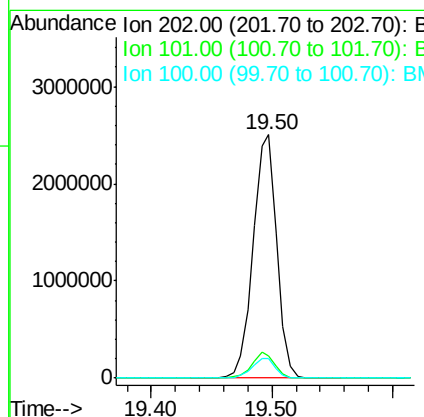
RT: 19.50 min Scan# 2790

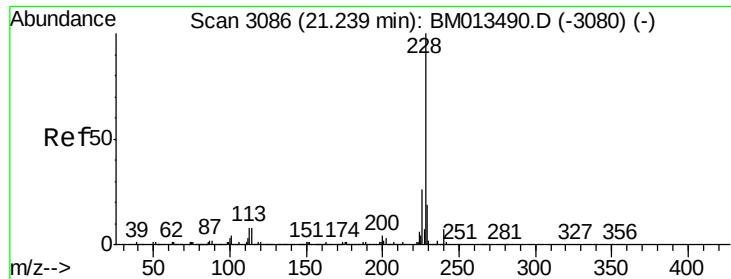
Delta R.T. 0.01 min

Lab File: BM013504.D

Acq: 18 Dec 2017 18:24

| Tgt | Ion | Ratio | Lower | Upper |
|-----|-----|-------|-------|-------|
| 202 | 100 |       |       |       |
| 101 | 9.3 | 5.1   | 7.7#  |       |
| 100 | 7.9 | 4.9   | 7.3#  |       |





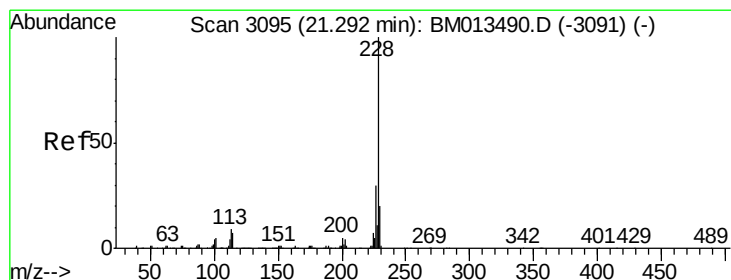
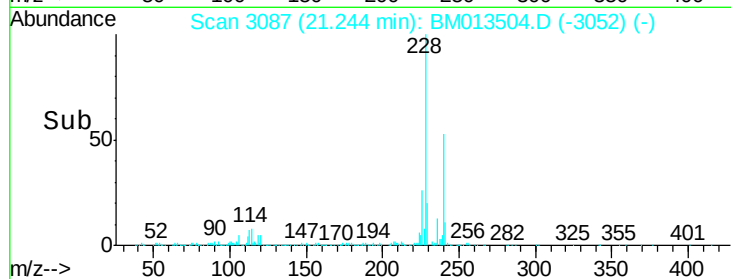
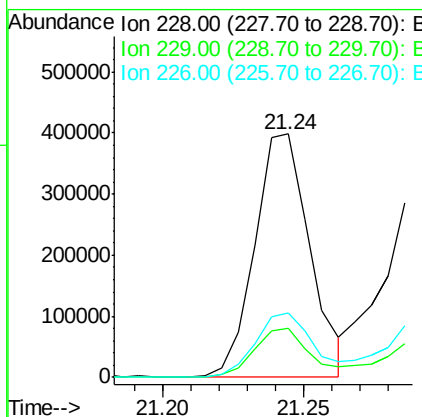
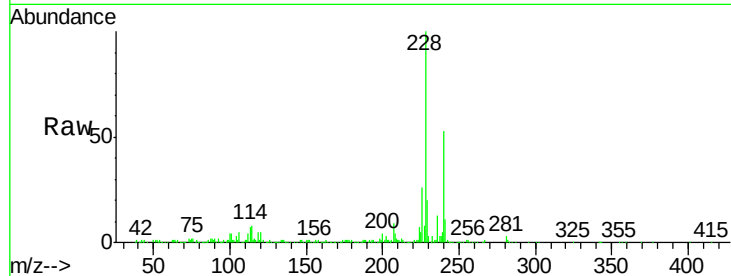
#80  
Benzo(a)anthracene  
Concen: 9.094 ng/ul  
RT: 21.24 min Scan# 3087  
Delta R.T. 0.01 min  
Lab File: BM013504.D  
Acq: 18 Dec 2017 18:24

Instrument :  
BNA\_M  
ClientSampleId :  
F9A56MEDL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 19.9  | 15.4  | 23.0  |
| 226     | 26.3  | 21.4  | 32.0  |

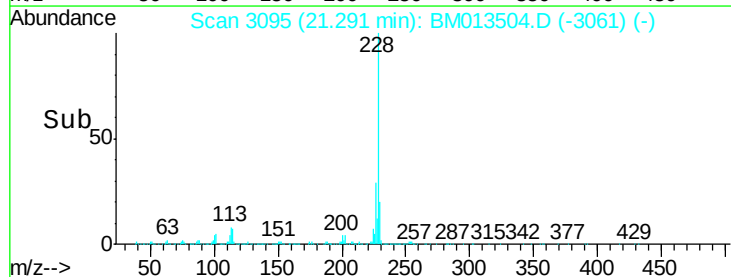
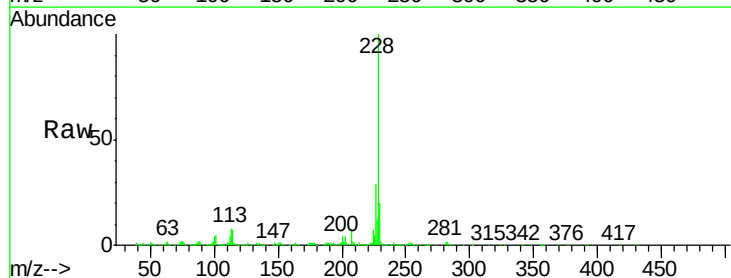
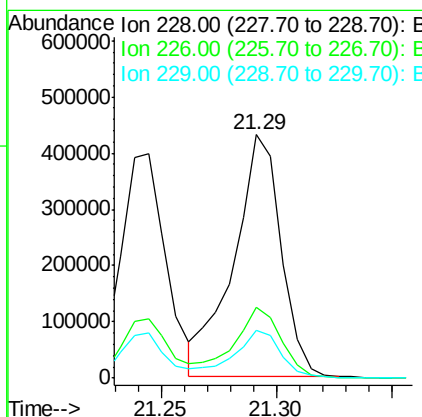
Manual Integrations  
APPROVED

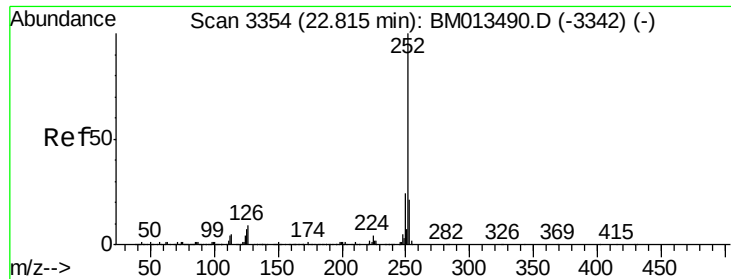
Sohil  
12/19/2017 4:56:45 PM



#82  
Chrysene  
Concen: 11.255 ng/ul  
RT: 21.29 min Scan# 3095  
Delta R.T. -0.00 min  
Lab File: BM013504.D  
Acq: 18 Dec 2017 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.9  | 23.4  | 35.2  |
| 229     | 19.9  | 15.5  | 23.3  |





#85

Benzo(b)fluoranthene

Concen: 6.928 ng/ul

RT: 22.81 min Scan# 3354

Delta R.T. -0.00 min

Lab File: BM013504.D

Acq: 18 Dec 2017 18:24

Instrument :

BNA\_M

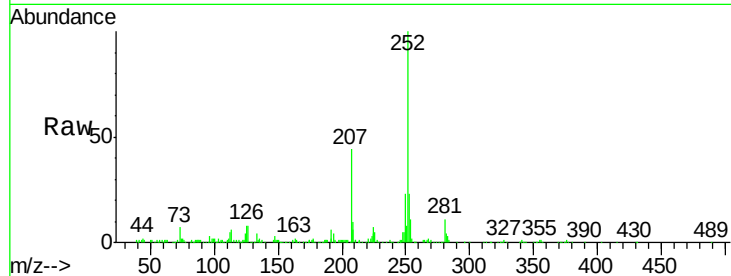
ClientSampleId :

F9A56MEDL

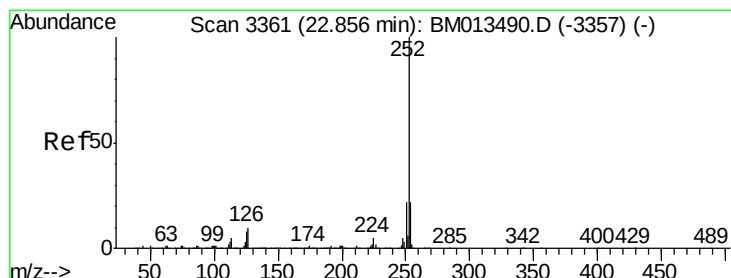
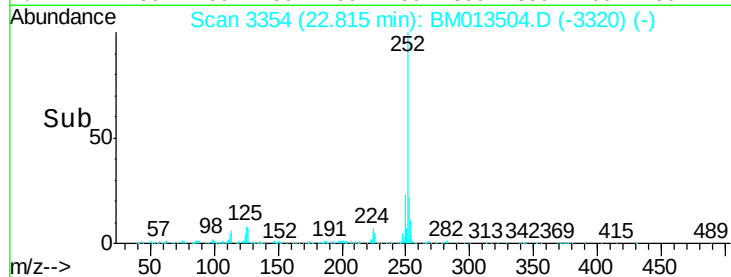
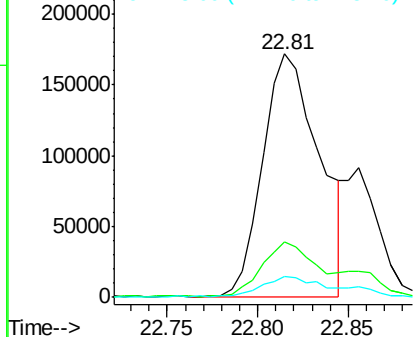
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.9  | 26.9  |
| 125     | 8.4   | 3.6   | 5.4#  |

Manual Integrations  
APPROVED

Sohil  
12/19/2017 4:56:45 PM



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#86

Benzo(k)fluoranthene

Concen: 2.269 ng/ul m

RT: 22.86 min Scan# 3361

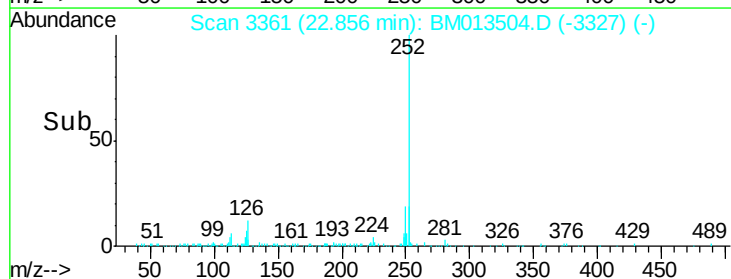
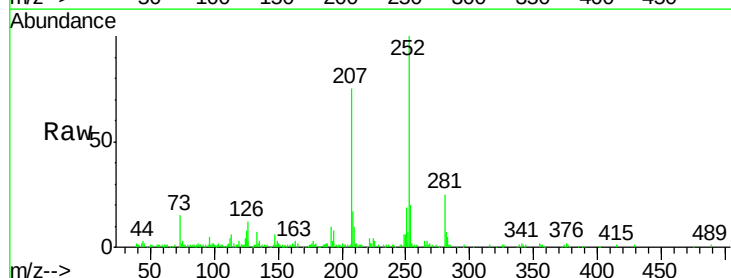
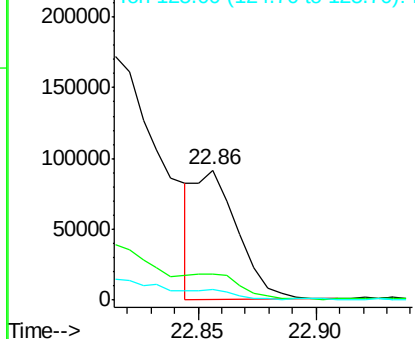
Delta R.T. -0.00 min

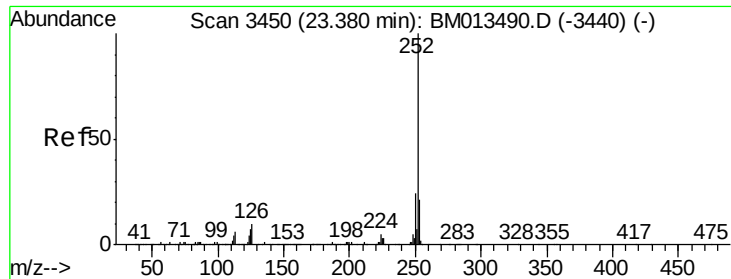
Lab File: BM013504.D

Acq: 18 Dec 2017 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 19.8  | 17.1  | 25.7  |
| 125     | 8.1   | 3.4   | 5.2#  |

Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





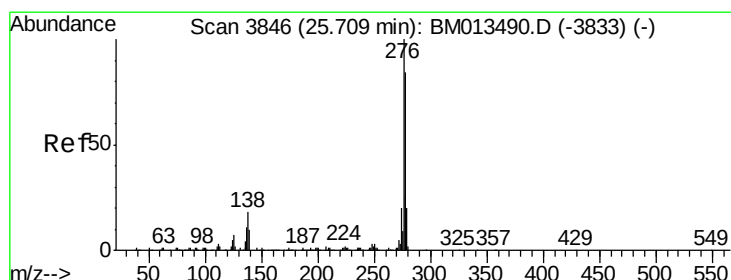
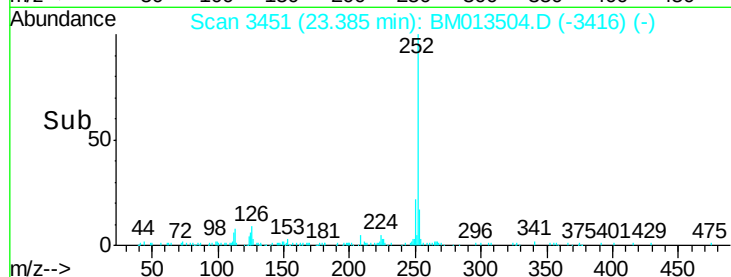
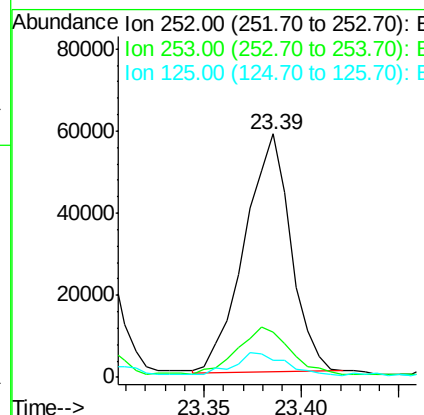
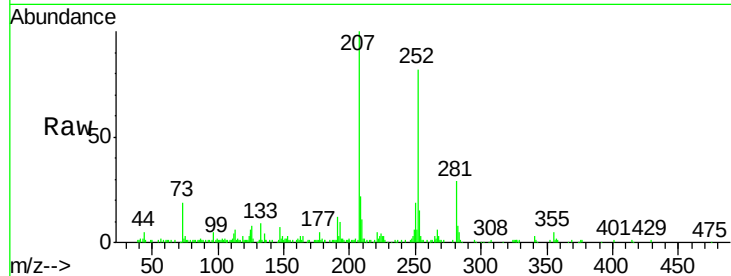
#88  
Benzo(a)pyrene  
Concen: 1.966 ng/ul  
RT: 23.39 min Scan# 3451  
Delta R.T. 0.01 min  
Lab File: BM013504.D  
Acq: 18 Dec 2017 18:24

Instrument :  
BNA\_M  
ClientSampleId :  
F9A56MEDL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 18.4  | 18.2       | 27.2       |
| 125     | 7.0   | 4.0        | 6.0#       |

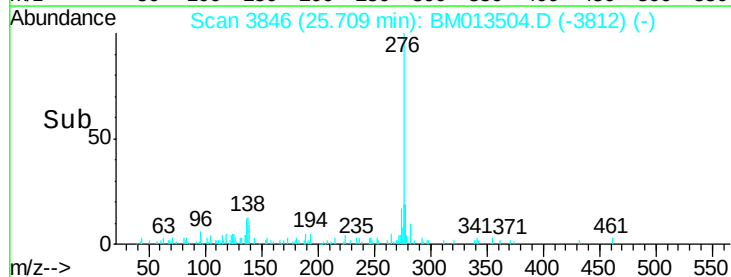
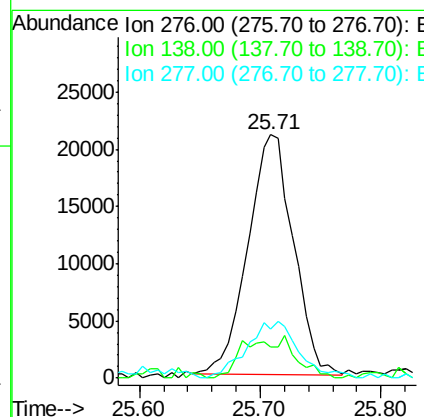
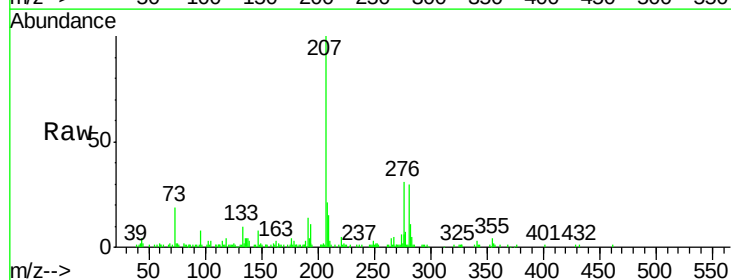
Manual Integrations  
APPROVED

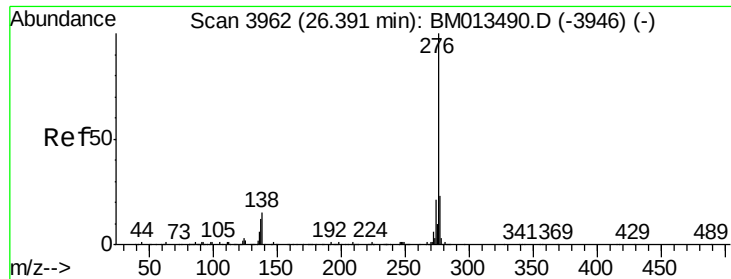
Sohil  
12/19/2017 4:56:45 PM



#89  
Indeno(1,2,3-cd)pyrene  
Concen: 1.145 ng/ul  
RT: 25.71 min Scan# 3846  
Delta R.T. -0.00 min  
Lab File: BM013504.D  
Acq: 18 Dec 2017 18:24

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 12.9  | 9.3        | 13.9       |
| 277     | 20.0  | 19.9       | 29.9       |





#91

Benzo(g,h,i)perylene

Concen: 1.049 ng/ul

RT: 26.40 min Scan# 3963

Delta R.T. 0.01 min

Lab File: BM013504.D

Acq: 18 Dec 2017 18:24

Instrument :

BNA\_M

ClientSampleId :

F9A56MEDL

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 276  | Resp: | 39832 |
| Ion Ratio |      | Lower | Upper |
| 276       | 100  |       |       |
| 138       | 23.7 | 8.5   | 12.7# |
| 277       | 20.9 | 18.6  | 28.0  |

Manual Integrations  
APPROVED

Sohil  
12/19/2017 4:56:45 PM

