

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121719\  
 Data File : BM024168.D  
 Acq On : 19 Dec 2019 00:35  
 Operator : JU  
 Sample : K6171-11  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Dec 19 02:43:49 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM121719MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 17 15:54:50 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.45  | 152  | 401702   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.22 | 136  | 1845871  | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.11 | 164  | 1155968  | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 16.86 | 188  | 2377725  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.07 | 240  | 1869746  | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.20 | 264  | 1765610  | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.01  | 96  | 28265   | 3.11  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.65  | 99  | 604535  | 15.89 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.80  | 67  | 390823  | 17.13 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 6.99  | 132 | 491894  | 18.13 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.17  | 113 | 416354  | 13.39 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.60  | 128 | 240889  | 18.16 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.32  | 143 | 271883  | 18.64 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.86  | 165 | 507665  | 17.91 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.37 | 131 | 412085  | 11.97 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.53 | 166 | 1641457 | 19.20 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.80 | 160 | 2033562 | 19.85 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.36 | 143 | 108277  | 7.05  | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.11 | 176 | 1483795 | 19.80 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.26 | 200 | 92670   | 6.39  | ng/ul | 0.00 |
| 71) Anthracene-d10             | 16.96 | 188 | 2214559 | 20.47 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.27 | 212 | 2318462 | 26.03 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.07 | 264 | 1882090 | 21.46 | ng/ul | 0.00 |

## Target Compounds

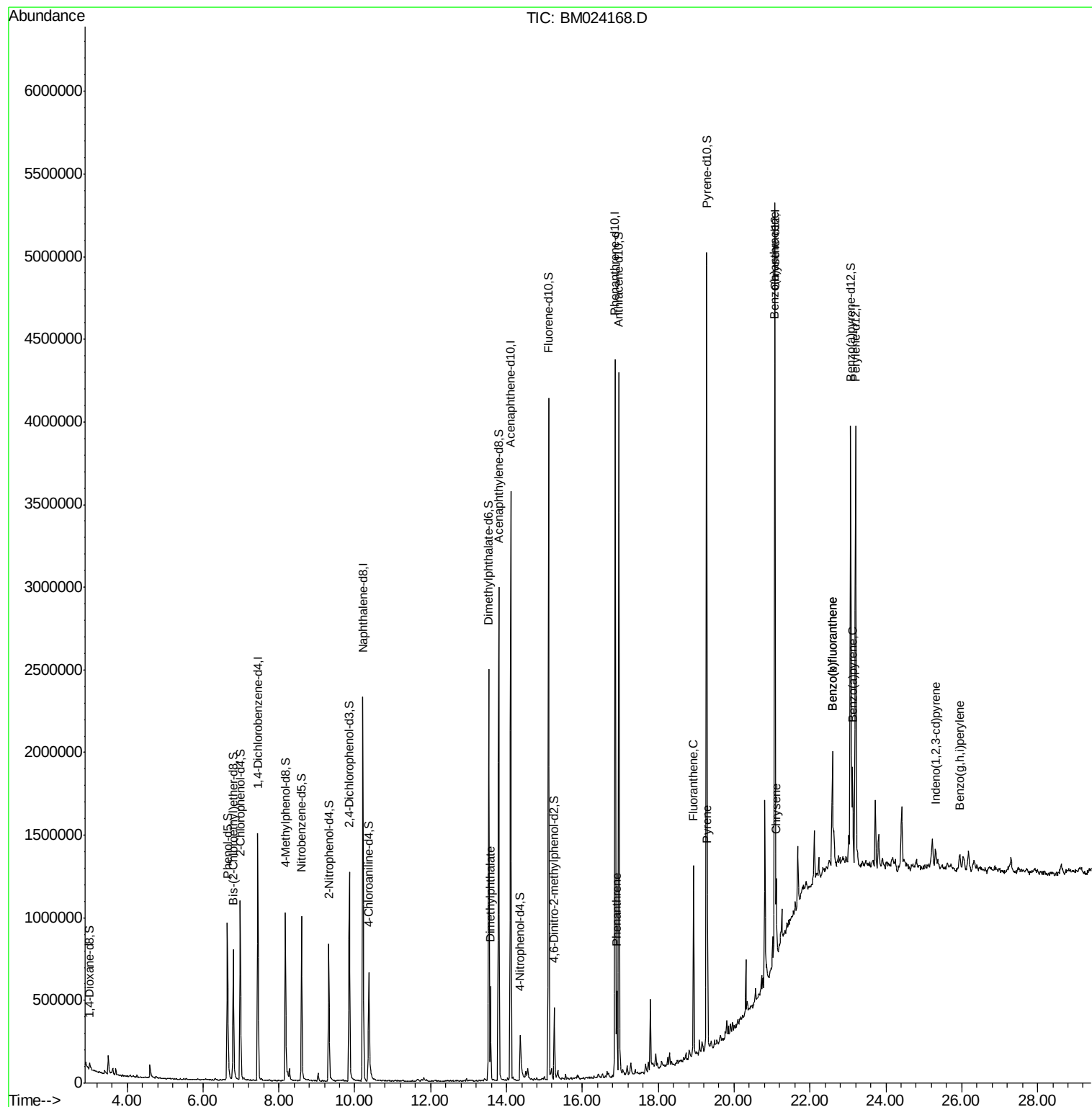
|                            |       |     |        |       | Ovalue    |
|----------------------------|-------|-----|--------|-------|-----------|
| 45) Dimethylphthalate      | 13.58 | 163 | 349355 | 3.932 | ng/ul 98  |
| 70) Phenanthrene           | 16.90 | 178 | 281231 | 2.113 | ng/ul 99  |
| 77) Fluoranthene           | 18.93 | 202 | 648551 | 4.470 | ng/ul 98  |
| 80) Pyrene                 | 19.30 | 202 | 519045 | 4.252 | ng/ul 100 |
| 83) Benzo(a)anthracene     | 21.06 | 228 | 210393 | 1.766 | ng/ul 99  |
| 85) Chrysene               | 21.11 | 228 | 231459 | 1.982 | ng/ul 96  |
| 88) Benzo(b)fluoranthene   | 22.58 | 252 | 280250 | 2.653 | ng/ul# 95 |
| 89) Benzo(k)fluoranthene   | 22.58 | 252 | 280250 | 2.704 | ng/ul# 96 |
| 91) Benzo(a)pyrene         | 23.12 | 252 | 158152 | 1.655 | ng/ul# 94 |
| 92) Indeno(1,2,3-cd)pyrene | 25.31 | 276 | 116999 | 1.020 | ng/ul# 93 |
| 94) Benzo(g,h,i)perylene   | 25.95 | 276 | 117987 | 1.259 | ng/ul 95  |

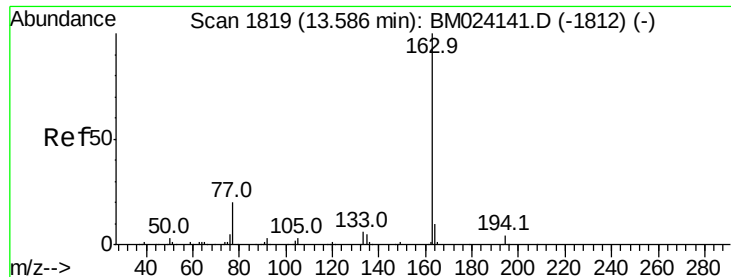
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SVOA CALIBRATION  
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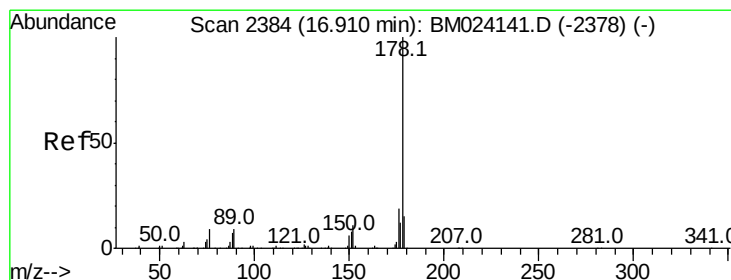
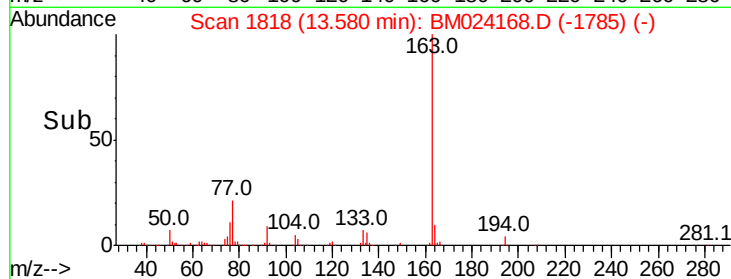
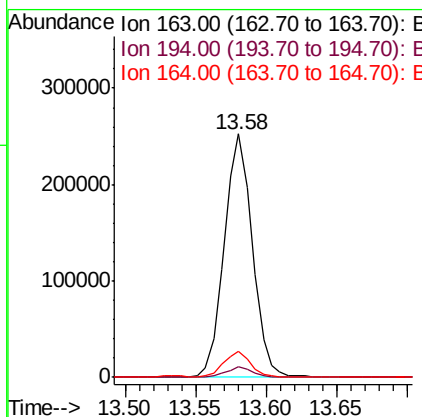
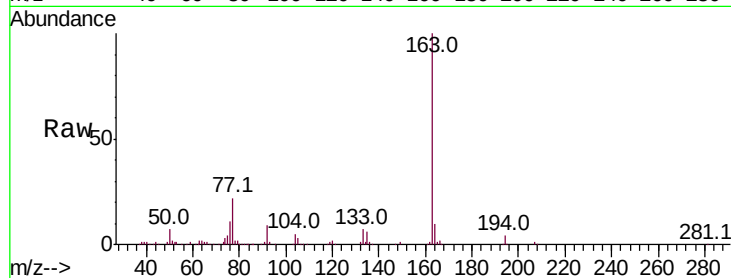




#45  
Dimethylphthalate  
Concen: 3.932 ng/ul  
RT: 13.58 min Scan# 1818  
Delta R.T. -0.01 min  
Lab File: BM024168.D  
Acq: 19 Dec 2019 00:35

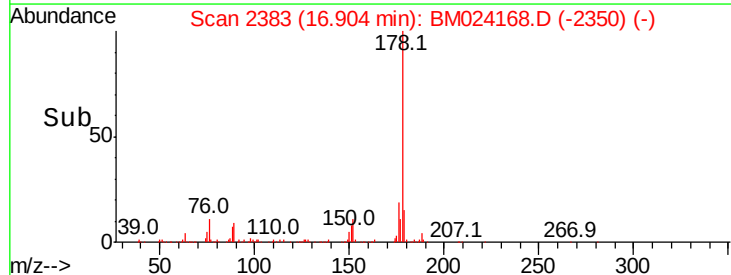
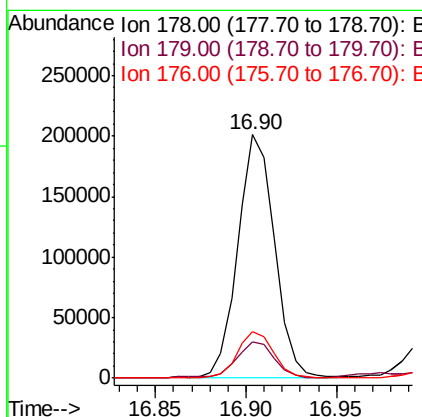
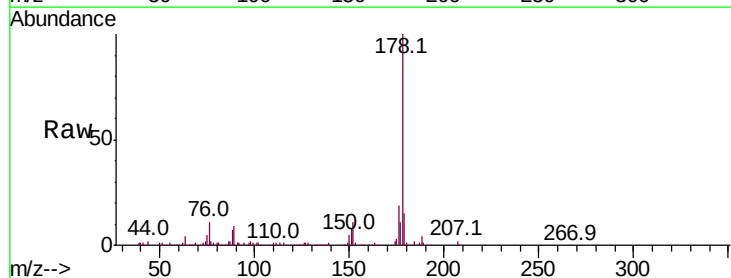
Instrument :  
BNA\_M  
ClientSampleId :

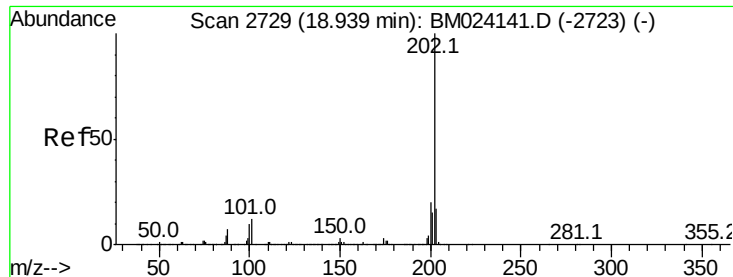
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.4   | 3.2   | 4.8   |
| 164     | 10.5  | 7.8   | 11.6  |



#70  
Phenanthrene  
Concen: 2.113 ng/ul  
RT: 16.90 min Scan# 2383  
Delta R.T. -0.01 min  
Lab File: BM024168.D  
Acq: 19 Dec 2019 00:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.1  | 12.6  | 19.0  |
| 176     | 18.9  | 15.1  | 22.7  |

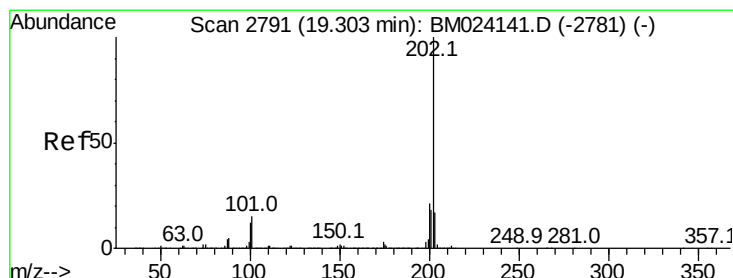
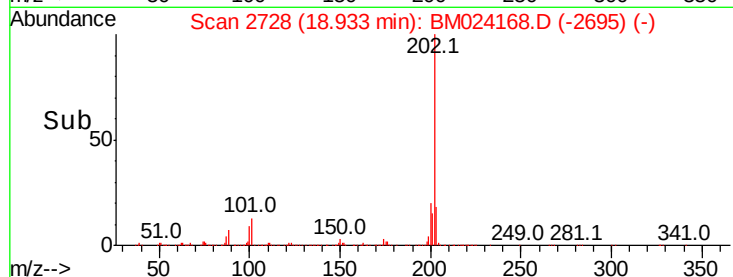
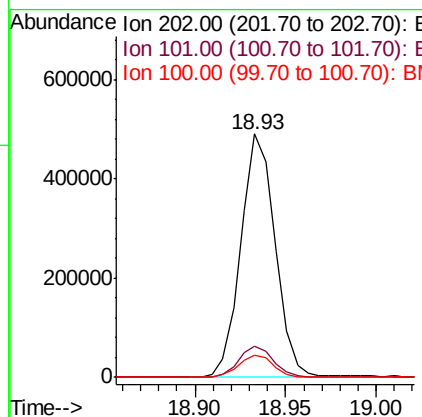
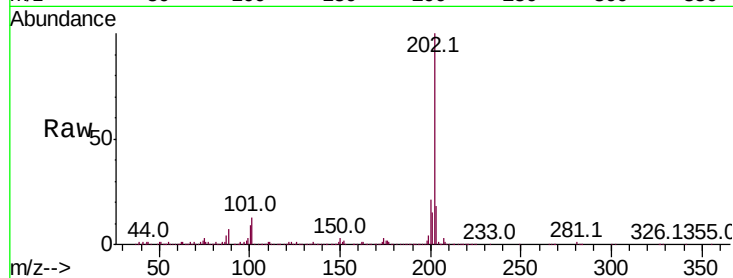




#77  
 Fluoranthene  
 Concen: 4.470 ng/ul  
 RT: 18.93 min Scan# 2728  
 Delta R.T. -0.01 min  
 Lab File: BM024168.D  
 Acq: 19 Dec 2019 00:35

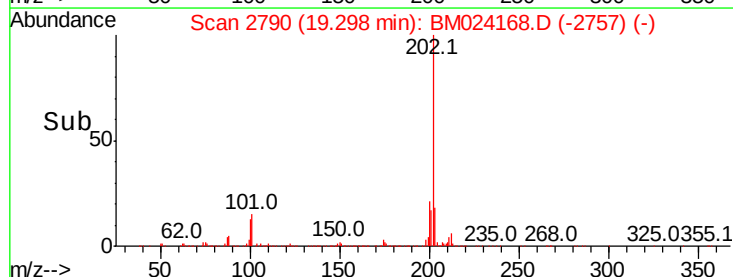
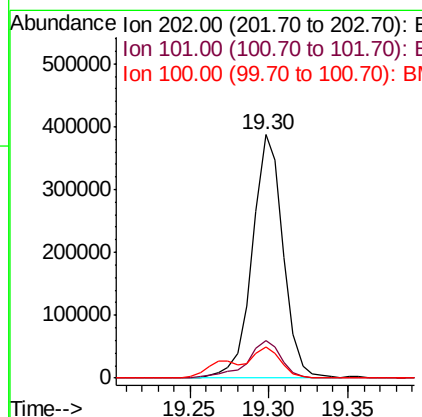
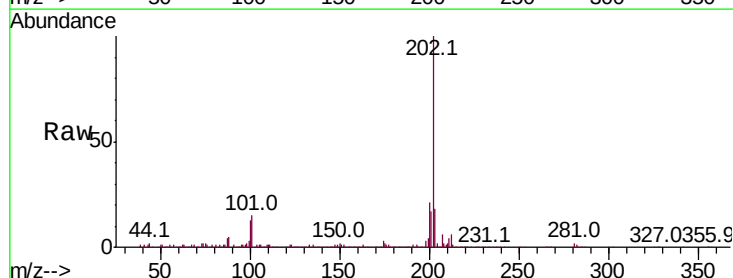
Instrument :  
 BNA\_M  
 ClientSampleId :

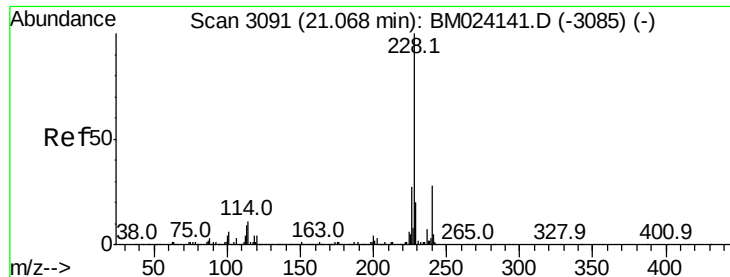
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 202   | Resp: | 648551 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 12.7  | 10.6  | 15.8   |
| 100      | 9.1   | 8.1   | 12.1   |



#80  
 Pyrene  
 Concen: 4.252 ng/ul  
 RT: 19.30 min Scan# 2790  
 Delta R.T. -0.01 min  
 Lab File: BM024168.D  
 Acq: 19 Dec 2019 00:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 202   | Resp: | 519045 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 15.2  | 12.2  | 18.4   |
| 100      | 12.5  | 10.0  | 15.0   |





#83

Benzo(a)anthracene

Concen: 1.766 ng/ul

RT: 21.06 min Scan# 3090

Delta R.T. -0.01 min

Lab File: BM024168.D

Acq: 19 Dec 2019 00:35

Instrument :

BNA\_M

ClientSampleId :

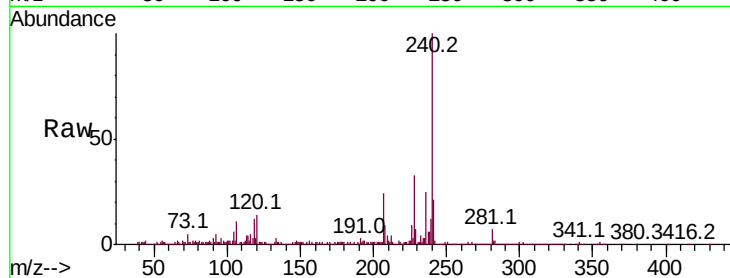
Tot Ion:228 Resp: 210393

Ion Ratio Lower Upper

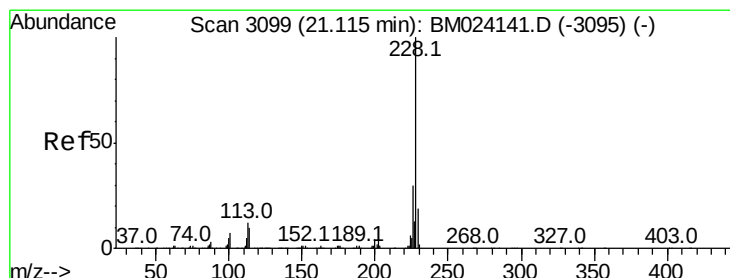
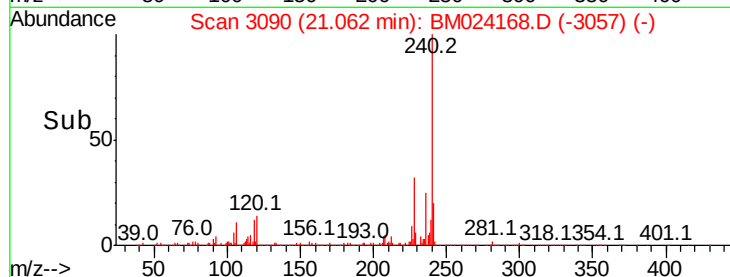
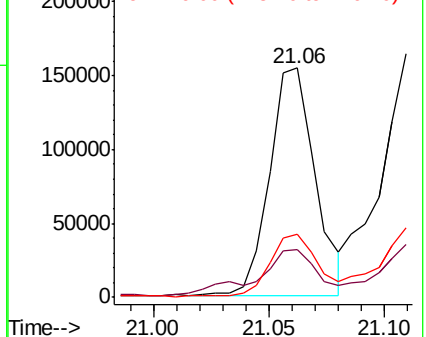
228 100

229 20.6 15.8 23.8

226 27.8 22.2 33.2



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



#85

Chrysene

Concen: 1.982 ng/ul

RT: 21.11 min Scan# 3098

Delta R.T. -0.01 min

Lab File: BM024168.D

Acq: 19 Dec 2019 00:35

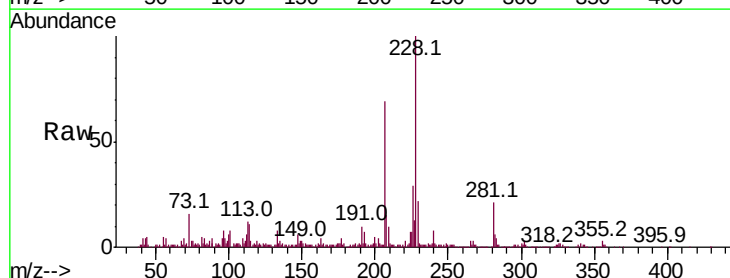
Tgt Ion:228 Resp: 231459

Ion Ratio Lower Upper

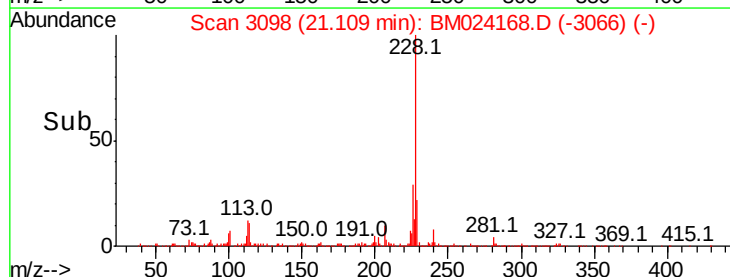
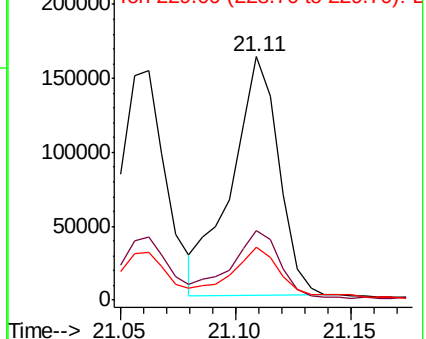
228 100

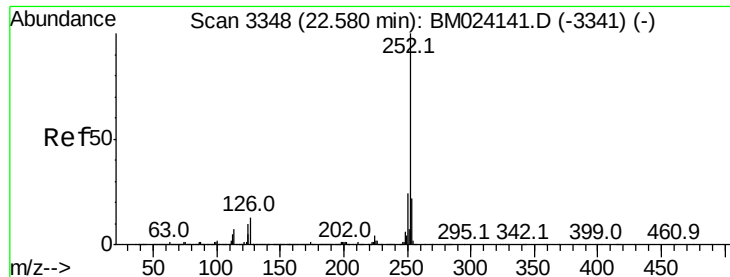
226 28.7 24.0 36.0

229 22.0 15.4 23.2



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





#88

Benzo(b)fluoranthene

Concen: 2.653 ng/ul

RT: 22.58 min Scan# 3348

Delta R.T. -0.01 min

Lab File: BM024168.D

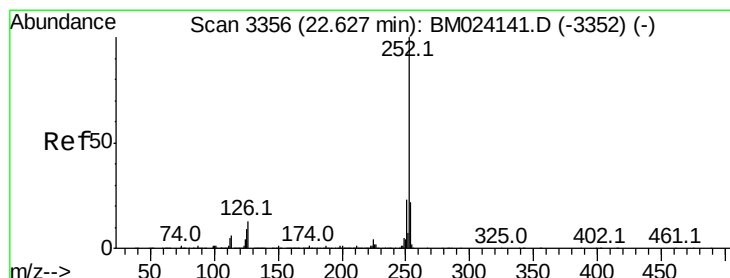
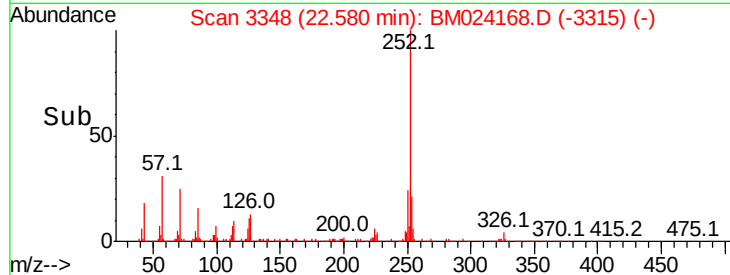
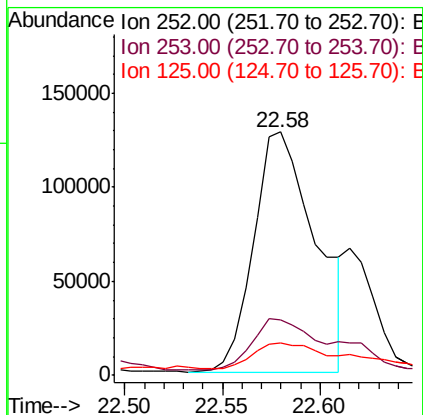
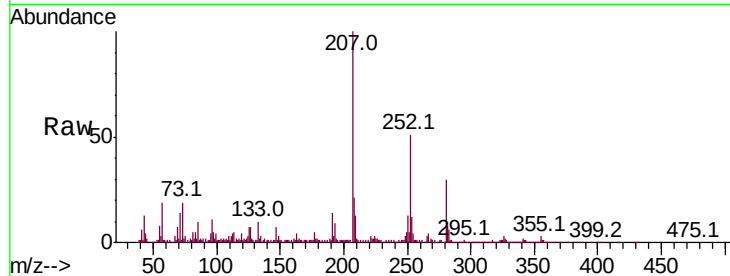
Acq: 19 Dec 2019 00:35

Instrument :

BNA\_M

ClientSampleId :

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 280250 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.0  | 17.2  | 25.8   |
| 125       | 13.5  | 7.8   | 11.8#  |



#89

Benzo(k)fluoranthene

Concen: 2.704 ng/ul

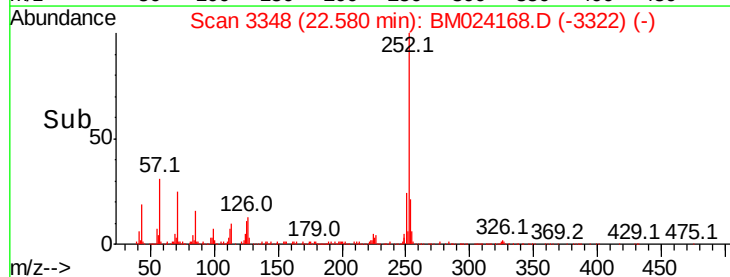
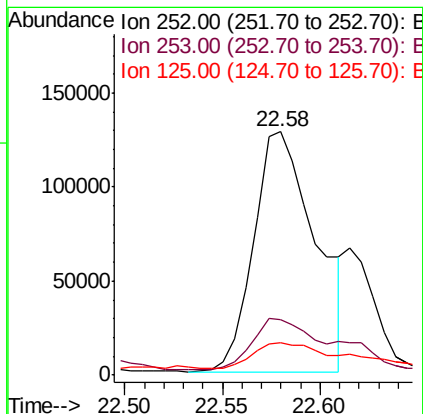
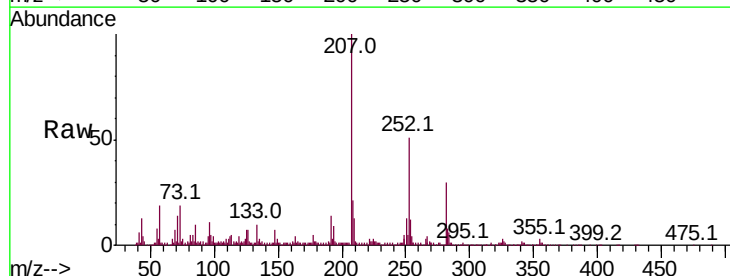
RT: 22.58 min Scan# 3348

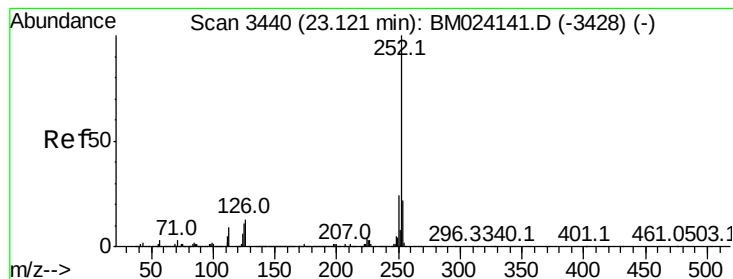
Delta R.T. -0.05 min

Lab File: BM024168.D

Acq: 19 Dec 2019 00:35

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 280250 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.0  | 17.8  | 26.8   |
| 125       | 13.5  | 7.9   | 11.9#  |





#91

Benzo(a)pyrene

Concen: 1.655 ng/ul

RT: 23.12 min Scan# 3439

Delta R.T. -0.01 min

Lab File: BM024168.D

Acq: 19 Dec 2019 00:35

Instrument :

BNA\_M

ClientSampleId :

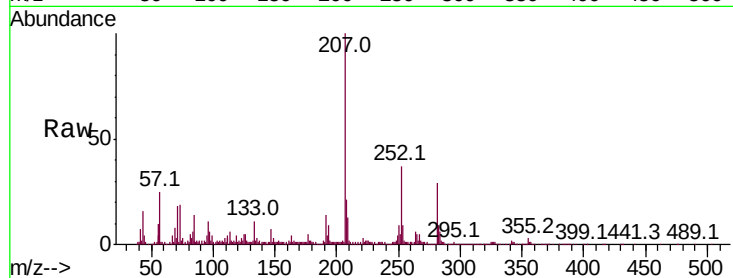
Tot Ion:252 Resp: 158152

Ion Ratio Lower Upper

252 100

253 24.0 17.5 26.3

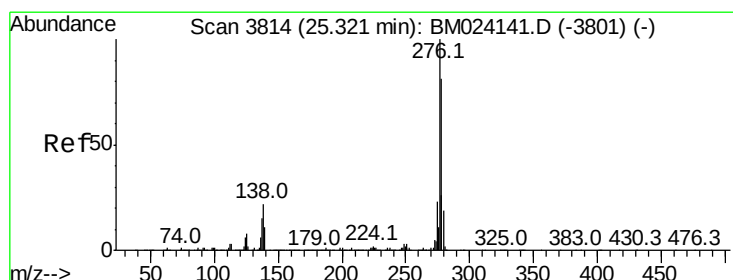
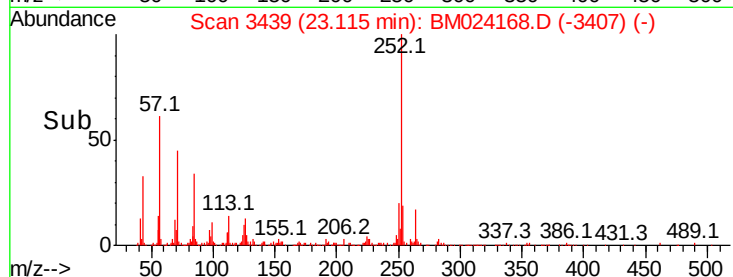
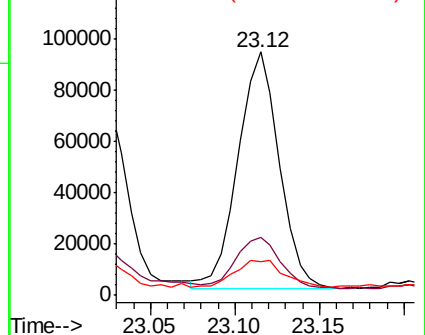
125 14.1 8.2 12.4#



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



#92

Indeno(1,2,3-cd)pyrene

Concen: 1.020 ng/ul

RT: 25.31 min Scan# 3812

Delta R.T. -0.02 min

Lab File: BM024168.D

Acq: 19 Dec 2019 00:35

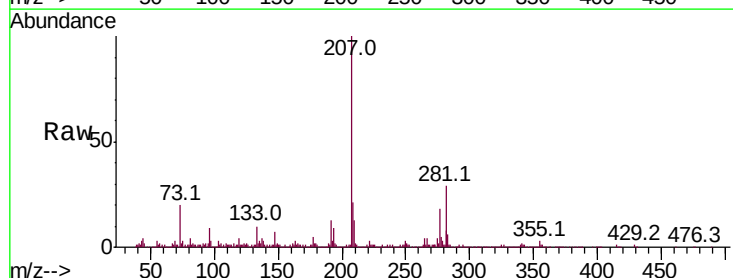
Tgt Ion:276 Resp: 116999

Ion Ratio Lower Upper

276 100

138 18.1 18.3 27.5#

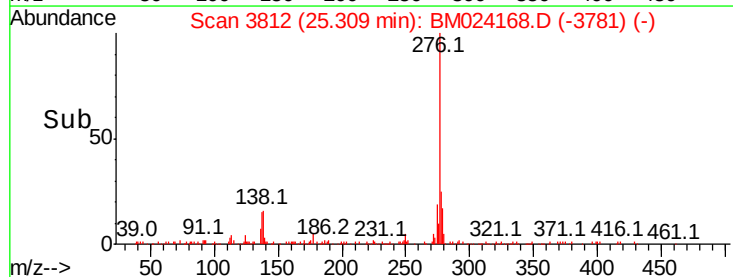
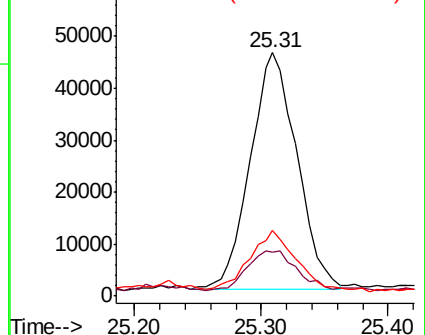
277 27.0 20.2 30.2

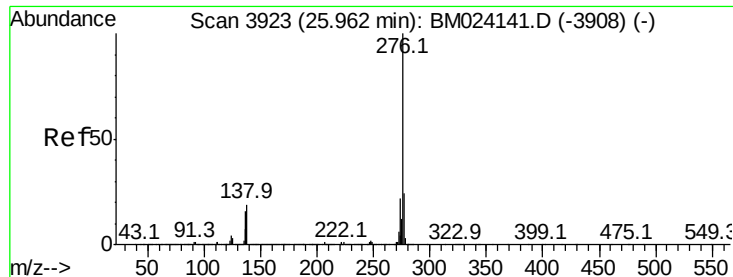


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#94

Benzo(a,h,i)perylene

Concen: 1.259 ng/ul

RT: 25.95 min Scan# 3921

Delta R.T. -0.02 min

Lab File: BM024168.D

Acq: 19 Dec 2019 00:35

Instrument :

BNA\_M

ClientSampleId :

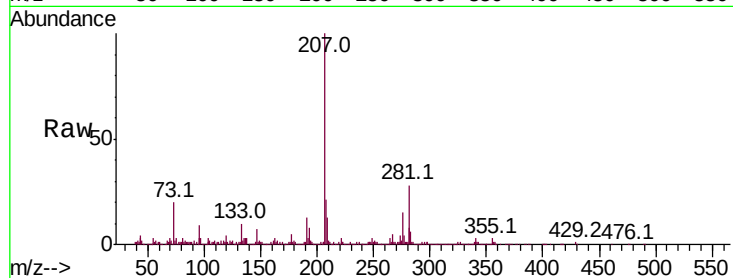
Tot Ion: 276 Resp: 117987

Ion Ratio Lower Upper

276 100

138 20.6 15.3 22.9

277 27.2 19.3 28.9



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

