

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN022519\  
 Data File : BN004483.D  
 Acq On : 25 Feb 2019 14:54  
 Operator : JU/SJ  
 Sample : K1491-07  
 Misc : GCMS Confirmation  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CB577

Quant Time: Feb 25 22:44:05 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020719MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Feb 25 22:41:06 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.74  | 152  | 21899    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.53 | 136  | 106767   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.38 | 164  | 80249    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.13 | 188  | 221652   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.33 | 240  | 320461   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.60 | 264  | 382444   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96  | 0      | 0.00  | ng/uL |      |
| 5) Phenol-d5                   | 0.00  | 99  | 0      | 0.00  | ng/ul |      |
| 7) Bis-(2-Chloroethyl)ether-d  | 0.00  | 67  | 0      | 0.00  | ng/ul |      |
| 9) 2-Chlorophenol-d4           | 0.00  | 132 | 0      | 0.00  | ng/ul |      |
| 13) 4-Methylphenol-d8          | 0.00  | 113 | 0      | 0.00  | ng/ul |      |
| 19) Nitrobenzene-d5            | 0.00  | 128 | 0      | 0.00  | ng/ul |      |
| 22) 2-Nitrophenol-d4           | 0.00  | 143 | 0      | 0.00  | ng/ul |      |
| 26) 2,4-Dichlorophenol-d3      | 0.00  | 165 | 0      | 0.00  | ng/ul |      |
| 29) 4-Chloroaniline-d4         | 0.00  | 131 | 0      | 0.00  | ng/ul |      |
| 44) Dimethylphthalate-d6       | 0.00  | 166 | 0      | 0.00  | ng/ul |      |
| 47) Acenaphthylene-d8          | 0.00  | 160 | 0      | 0.00  | ng/ul |      |
| 52) 4-Nitrophenol-d4           | 0.00  | 143 | 0      | 0.00  | ng/ul |      |
| 58) Fluorene-d10               | 0.00  | 176 | 0      | 0.00  | ng/ul |      |
| 63) 4,6-Dinitro-2-methylphenol | 0.00  | 200 | 0      | 0.00  | ng/ul |      |
| 71) Anthracene-d10             | 17.23 | 188 | 248    | 0.02  | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 0.00  | 212 | 0      | 0.00  | ng/ul |      |
| 90) Benzo(a)pyrene-d12         | 23.60 | 264 | 380458 | 18.96 | ng/ul | 0.15 |

## Target Compounds

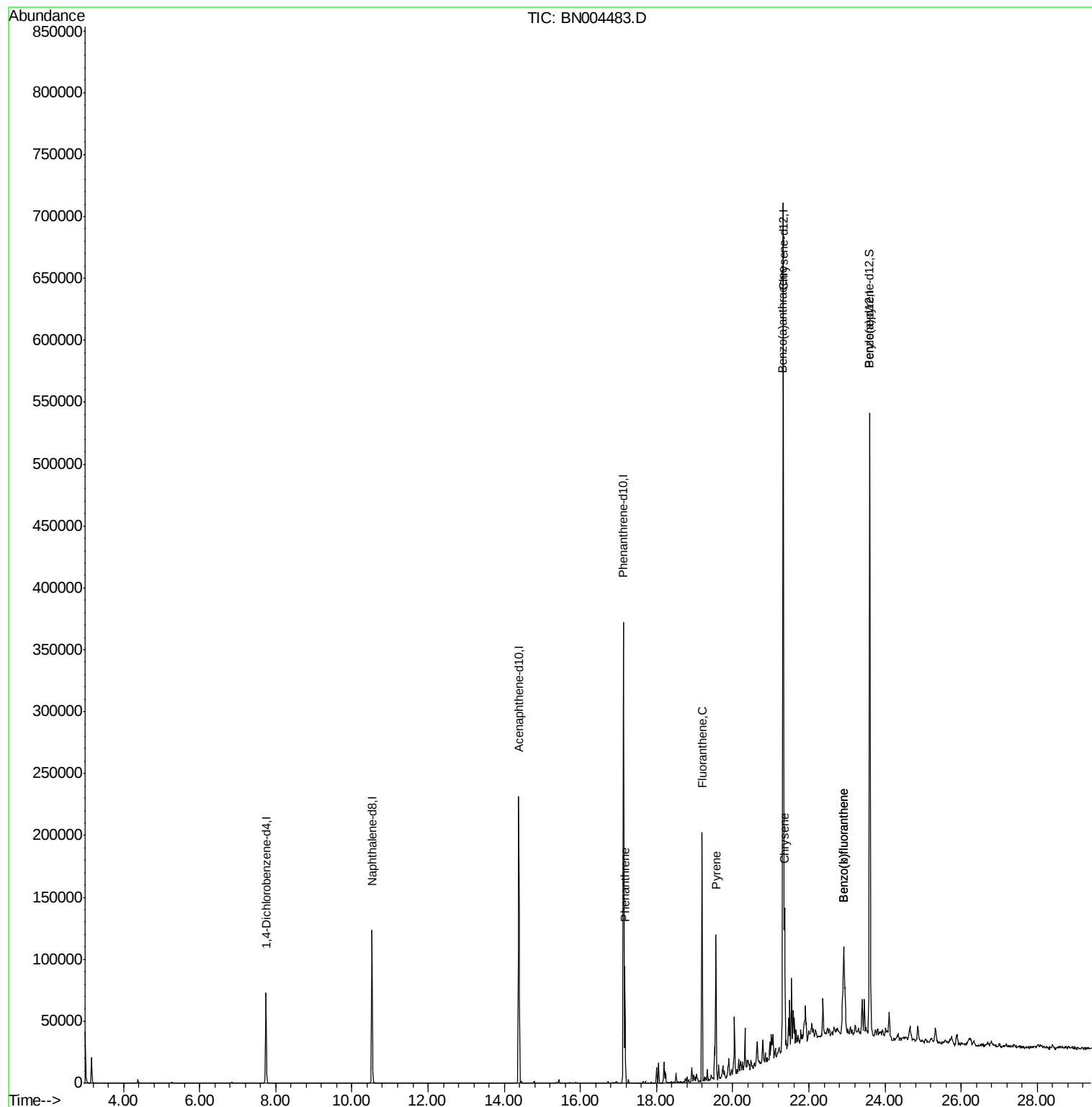
|                          |       |     |        |       | Qvalue |     |
|--------------------------|-------|-----|--------|-------|--------|-----|
| 70) Phenanthrene         | 17.17 | 178 | 58489  | 4.756 | ng/ul  | 99  |
| 77) Fluoranthene         | 19.19 | 202 | 118480 | 7.826 | ng/ul  | 96  |
| 80) Pyrene               | 19.56 | 202 | 72211  | 4.075 | ng/ul  | 100 |
| 83) Benzo(a)anthracene   | 21.32 | 228 | 58630  | 2.968 | ng/ul  | 98  |
| 85) Chrysene             | 21.36 | 228 | 65332  | 3.484 | ng/ul  | 98  |
| 88) Benzo(b)fluoranthene | 22.91 | 252 | 69575  | 3.072 | ng/ul  | 98  |
| 89) Benzo(k)fluoranthene | 22.91 | 252 | 69575  | 3.160 | ng/ul  | 98  |

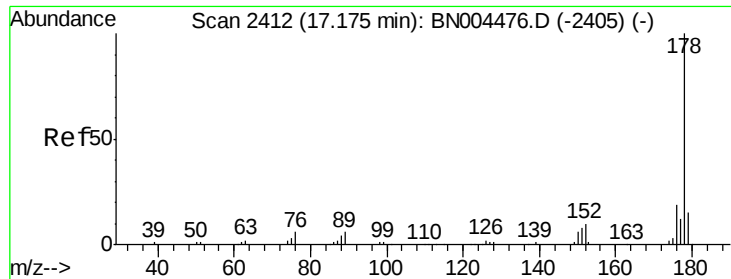
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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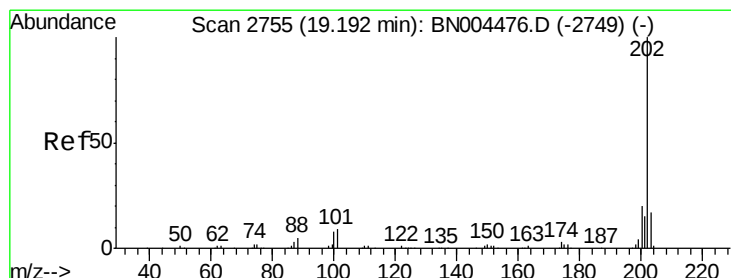
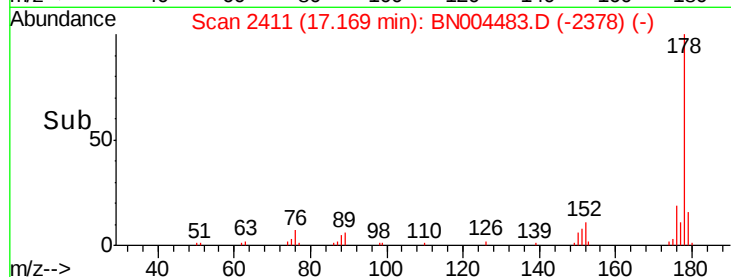
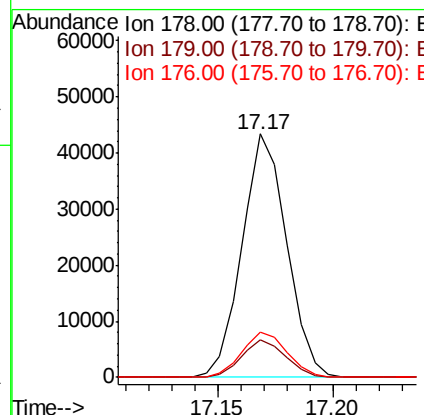
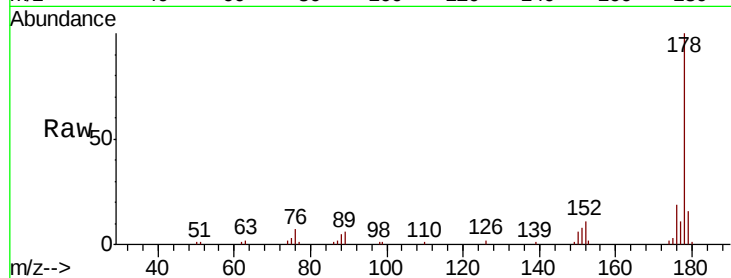




#70  
Phenanthrene  
Concen: 4.756 ng/ul  
RT: 17.17 min Scan# 2411  
Delta R.T. -0.01 min  
Lab File: BN004483.D  
Acq: 25 Feb 2019 14:54

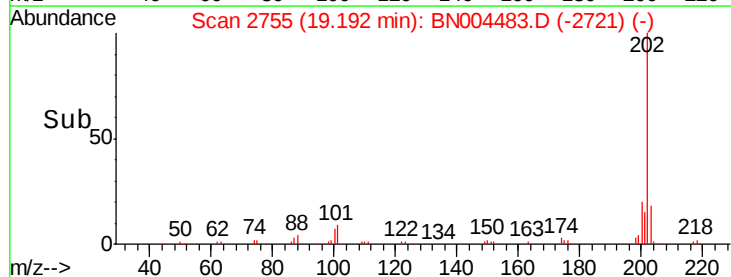
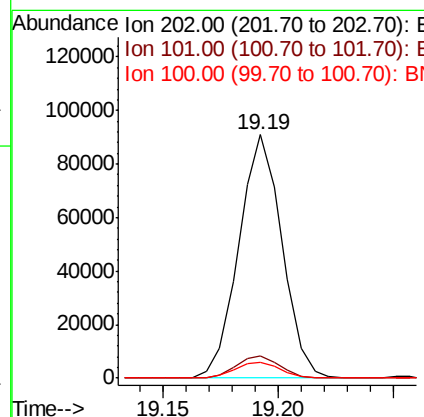
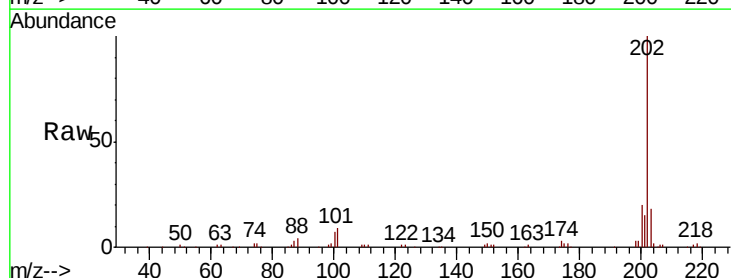
Instrument :  
BNA\_N  
ClientSampleId :  
CB577

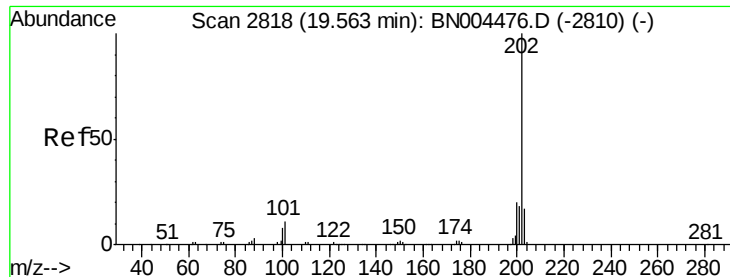
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.6  | 12.3  | 18.5  |
| 176     | 18.7  | 15.4  | 23.0  |



#77  
Fluoranthene  
Concen: 7.826 ng/ul  
RT: 19.19 min Scan# 2755  
Delta R.T. -0.00 min  
Lab File: BN004483.D  
Acq: 25 Feb 2019 14:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.2   | 8.2   | 12.4  |
| 100     | 6.7   | 6.6   | 9.8   |

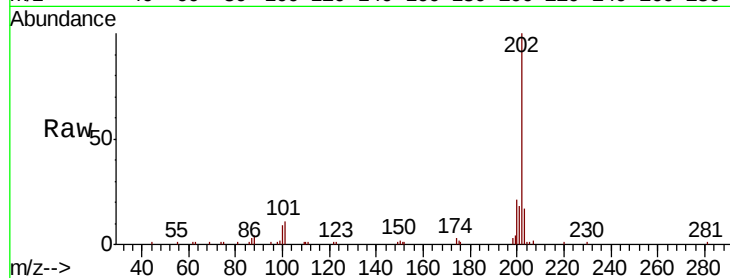




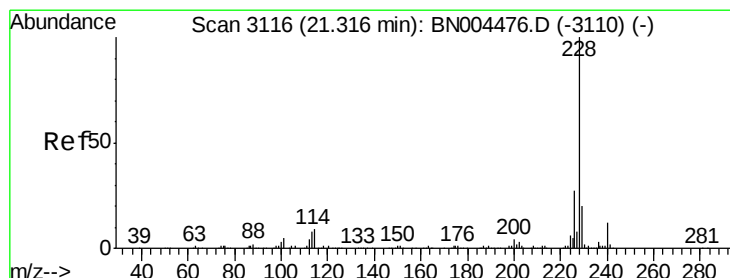
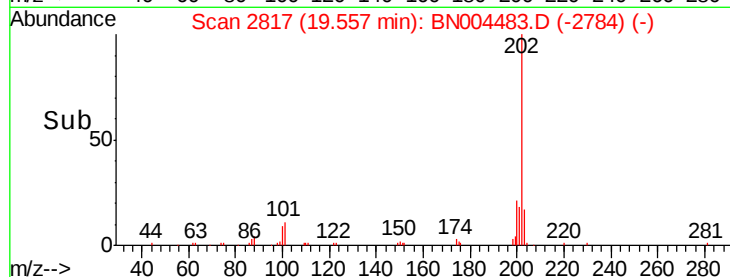
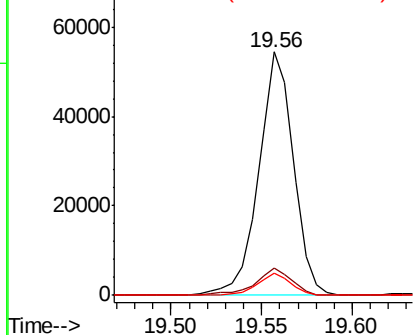
#80  
 Pyrene  
 Concen: 4.075 ng/ul  
 RT: 19.56 min Scan# 2817  
 Delta R.T. -0.01 min  
 Lab File: BN004483.D  
 Acq: 25 Feb 2019 14:54

Instrument :  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.2  | 9.2   | 13.8  |
| 100     | 9.4   | 7.5   | 11.3  |

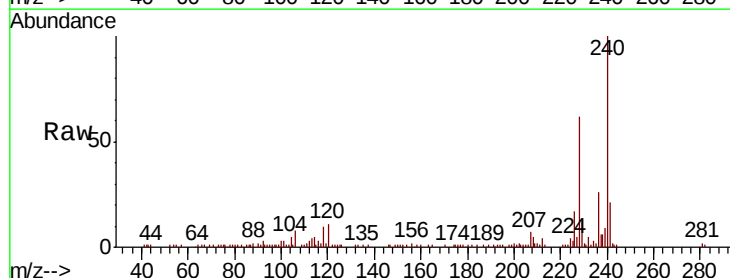


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): E

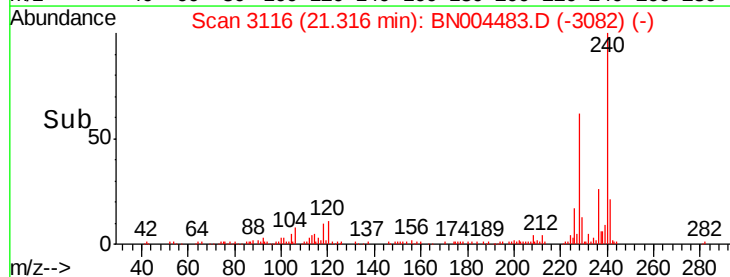
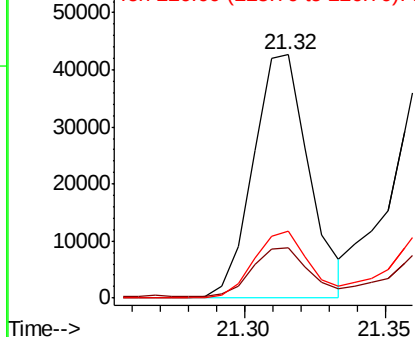


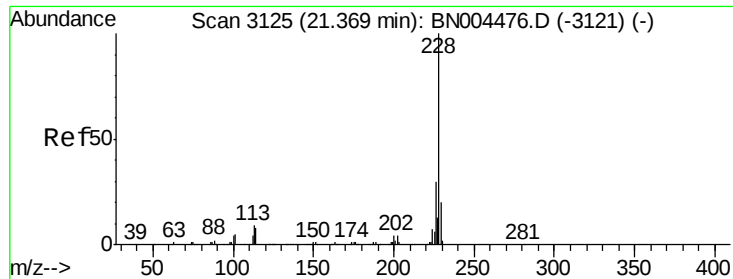
#83  
 Benzo(a)anthracene  
 Concen: 2.968 ng/ul  
 RT: 21.32 min Scan# 3116  
 Delta R.T. -0.00 min  
 Lab File: BN004483.D  
 Acq: 25 Feb 2019 14:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.4  | 15.4  | 23.2  |
| 226     | 27.3  | 21.4  | 32.2  |



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: 3.484 ng/ul

RT: 21.36 min Scan# 3124

Delta R.T. -0.01 min

Lab File: BN004483.D

Acq: 25 Feb 2019 14:54

Instrument :

BNA\_N

ClientSampleId :

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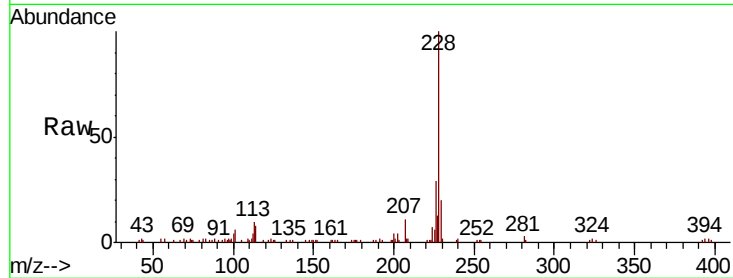
Tgt Ion:228 Resp: 65332

Ion Ratio Lower Upper

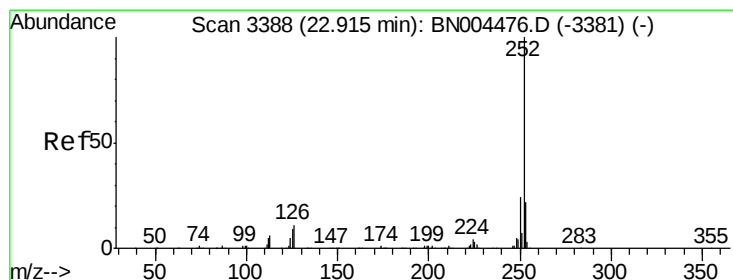
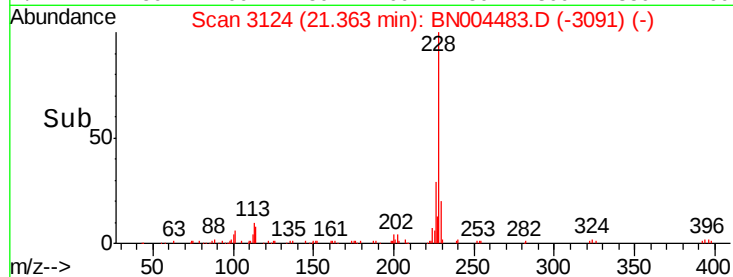
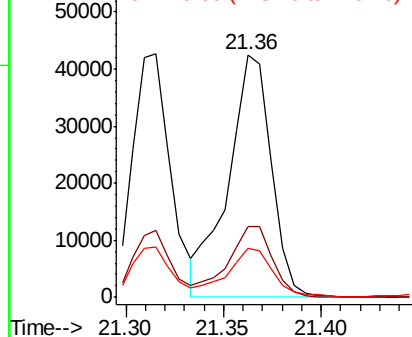
228 100

226 29.3 24.0 36.0

229 20.4 15.7 23.5



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: 3.072 ng/ul

RT: 22.91 min Scan# 3387

Delta R.T. -0.00 min

Lab File: BN004483.D

Acq: 25 Feb 2019 14:54

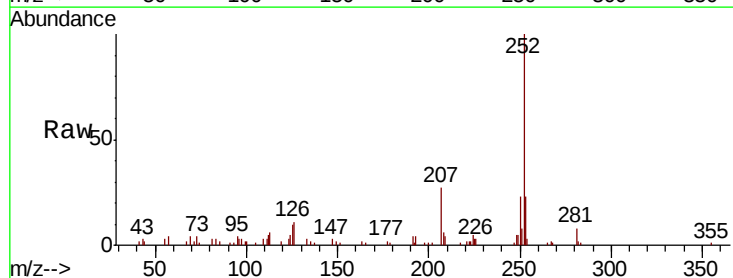
Tgt Ion:252 Resp: 69575

Ion Ratio Lower Upper

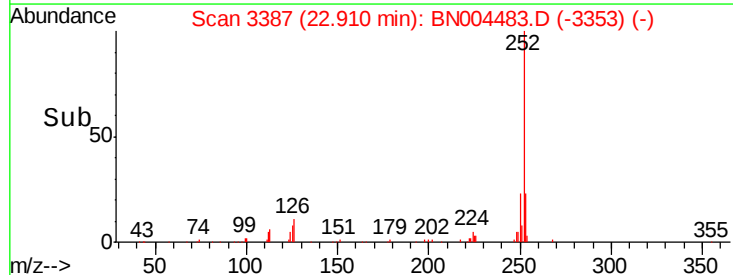
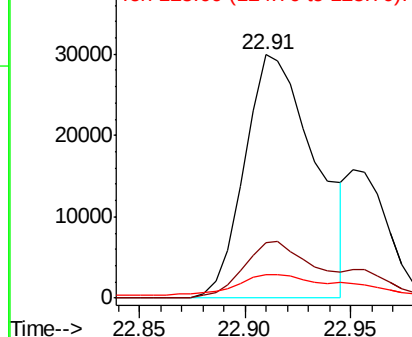
252 100

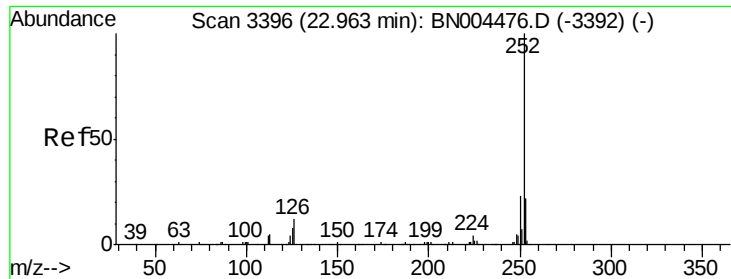
253 23.0 17.7 26.5

125 9.7 7.4 11.2



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





#89

Benzo(k)fluoranthene

Concen: 3.160 ng/ul

RT: 22.91 min Scan# 3387

Delta R.T. -0.05 min

Lab File: BN004483.D

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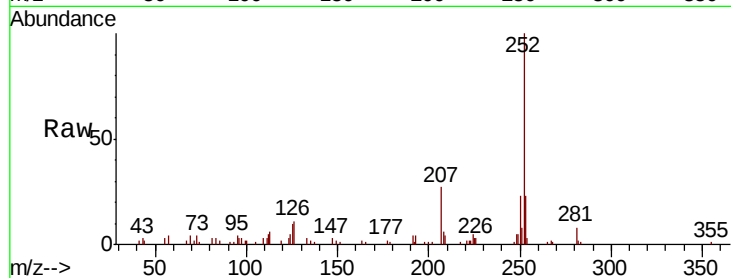
Tgt Ion:252 Resp: 69575

Ion Ratio Lower Upper

252 100

253 23.0 17.4 26.2

125 9.7 7.4 11.0



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

