

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030620\  
 Data File : BN010132.D  
 Acq On : 06 Mar 2020 22:57  
 Operator : CG/JU  
 Sample : L1827-04  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Mar 07 02:00:05 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Mar 05 14:04:18 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.35  | 152  | 82429    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.10 | 136  | 345746   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.00 | 164  | 219349   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 16.76 | 188  | 479306   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 20.99 | 240  | 435396   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.07 | 264  | 484541   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.00  | 96  | 11269  | 5.62  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.57  | 99  | 42962  | 6.13  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.71  | 67  | 152012 | 31.42 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 6.90  | 132 | 137980 | 26.14 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.08  | 113 | 90217  | 16.18 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.50  | 128 | 85963  | 33.98 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.21  | 143 | 94548  | 34.17 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.75  | 165 | 155323 | 29.20 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.30 | 131 | 13473  | 2.25  | ng/ul | 0.04 |
| 44) Dimethylphthalate-d6       | 13.43 | 166 | 606545 | 37.02 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.68 | 160 | 699923 | 36.27 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.29 | 143 | 12235  | 4.09  | ng/ul | 0.04 |
| 58) Fluorene-d10               | 15.00 | 176 | 526762 | 37.24 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.17 | 200 | 90585  | 30.42 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 16.86 | 188 | 832791 | 37.90 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.17 | 212 | 936573 | 41.16 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 22.94 | 264 | 942390 | 38.95 | ng/ul | 0.00 |

## Target Compounds

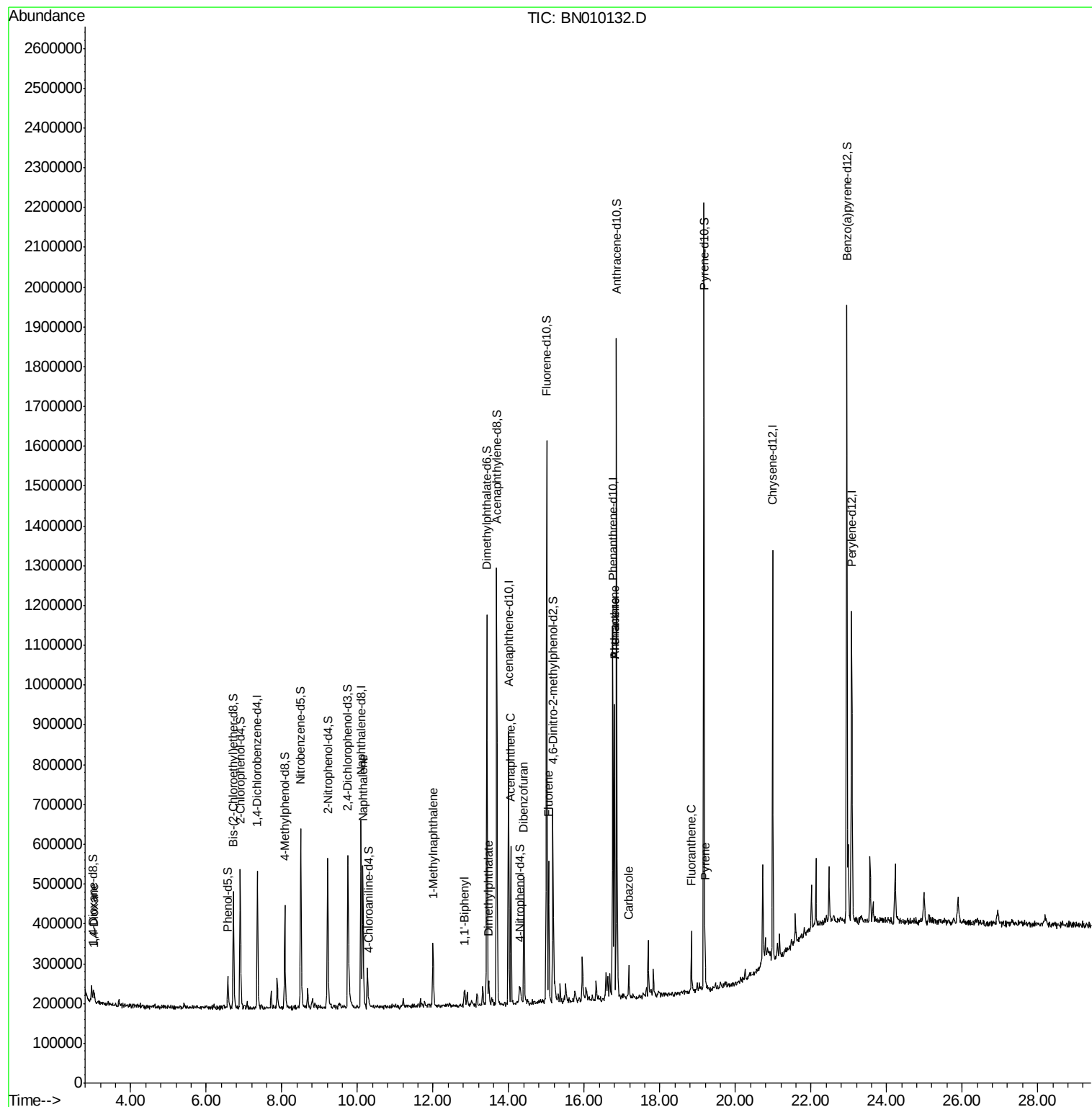
|                         |       |     |        |        | Ovalue    |
|-------------------------|-------|-----|--------|--------|-----------|
| 2) 1,4-Dioxane          | 3.04  | 88  | 9700   | 4.213  | ng/uL 92  |
| 28) Naphthalene         | 10.15 | 128 | 252868 | 13.563 | ng/ul 99  |
| 35) 1-Methylnaphthalene | 12.00 | 142 | 76065  | 5.862  | ng/uL 99  |
| 41) 1,1'-Biphenyl       | 12.83 | 154 | 18064  | 1.072  | ng/ul# 95 |
| 45) Dimethylphthalate   | 13.47 | 163 | 31747  | 1.857  | ng/ul# 95 |
| 50) Acenaphthene        | 14.06 | 153 | 153543 | 10.724 | ng/ul 97  |
| 54) Dibenzofuran        | 14.40 | 168 | 196045 | 9.755  | ng/ul 95  |
| 59) Fluorene            | 15.06 | 166 | 150544 | 8.926  | ng/ul 94  |
| 70) Phenanthrene        | 16.80 | 178 | 396254 | 14.486 | ng/ul 99  |
| 72) Anthracene          | 16.80 | 178 | 396254 | 14.170 | ng/ul 100 |
| 75) Carbazole           | 17.18 | 167 | 48130  | 1.954  | ng/ul 98  |
| 77) Fluoranthene        | 18.83 | 202 | 87351  | 2.726  | ng/ul 96  |
| 80) Pyrene              | 19.20 | 202 | 54252  | 1.728  | ng/ul 97  |

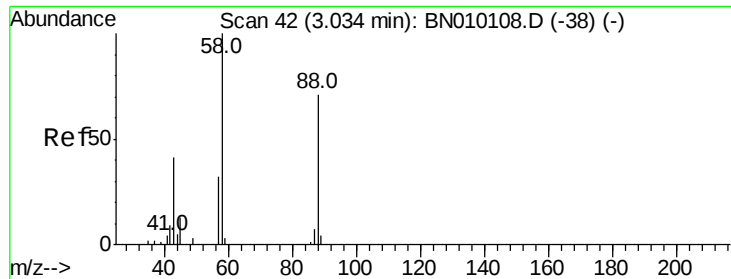
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN030620\  
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Quant Time: Mar 07 02:00:05 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN021220MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Mar 05 14:04:18 2020  
Response via : Initial Calibration





#2

1,4-Dioxane

Concen: 4.213 ng/uL

RT: 3.04 min Scan# 43

Delta R.T. -0.00 min

Lab File: BN010132.D

Acq: 06 Mar 2020 22:57

Instrument :

BNA\_N

ClientSampleId :

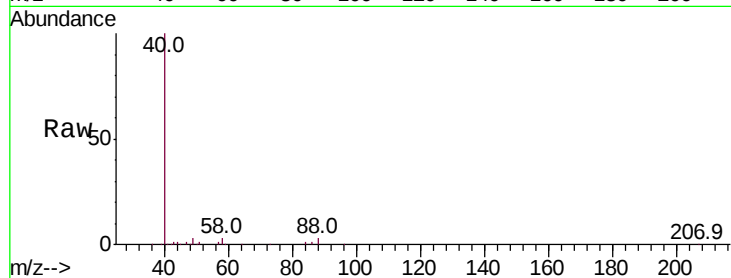
Tot Ion: 88 Resp: 9700

Ion Ratio Lower Upper

88 100

43 46.3 44.7 67.1

58 113.9 96.2 144.2

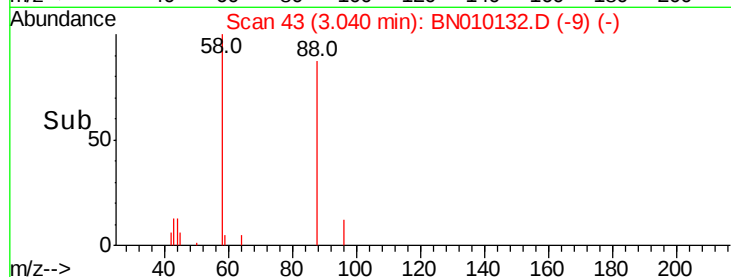


Abundance Ion 88.00 (87.70 to 88.70): BN010108.D (-38) (-)

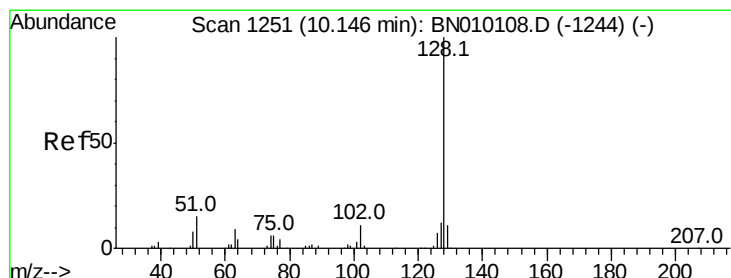
Ion 43.00 (42.70 to 43.70): BN010108.D (-38) (-)

Ion 58.00 (57.70 to 58.70): BN010108.D (-38) (-)

Time-->



Time-->



#28

Naphthalene

Concen: 13.563 ng/uL

RT: 10.15 min Scan# 1251

Delta R.T. -0.00 min

Lab File: BN010132.D

Acq: 06 Mar 2020 22:57

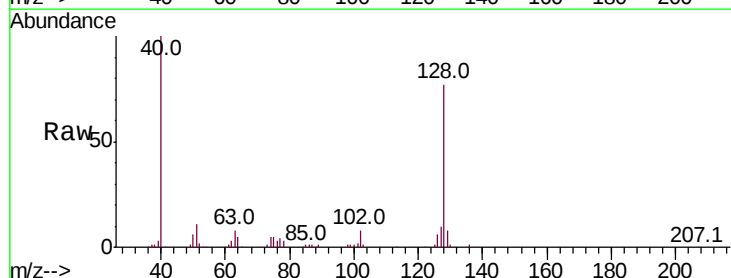
Tgt Ion: 128 Resp: 252868

Ion Ratio Lower Upper

128 100

129 10.6 8.6 13.0

127 12.7 10.3 15.5

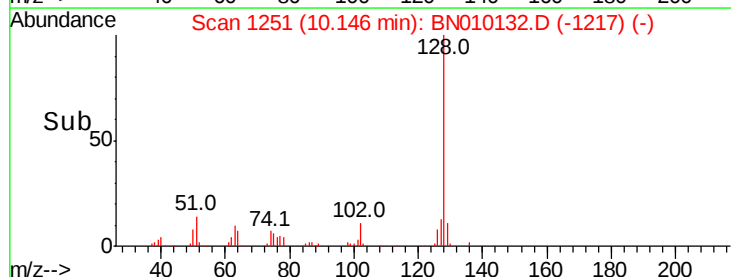


Abundance Ion 128.00 (127.70 to 128.70): BN010108.D (-1244) (-)

Ion 129.00 (128.70 to 129.70): BN010108.D (-1244) (-)

Ion 127.00 (126.70 to 127.70): BN010108.D (-1244) (-)

Time-->



Time-->

Time-->

Time-->

Time-->

Time-->

Time-->

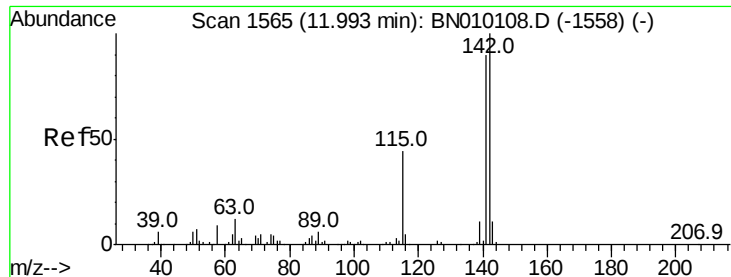
Time-->

Time-->

Time-->

Time-->

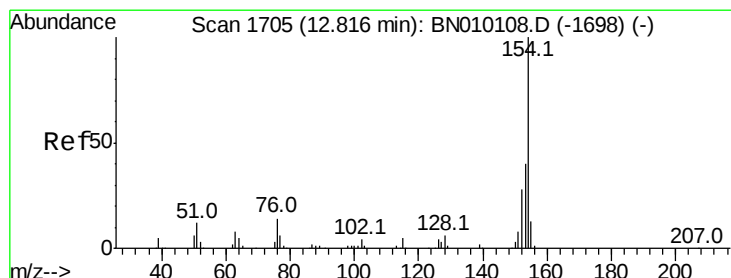
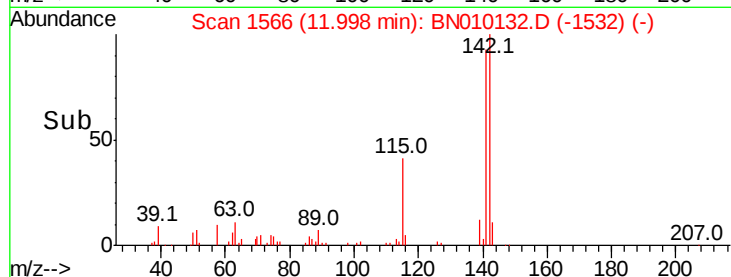
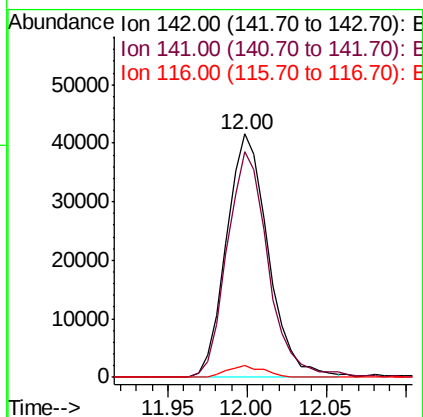
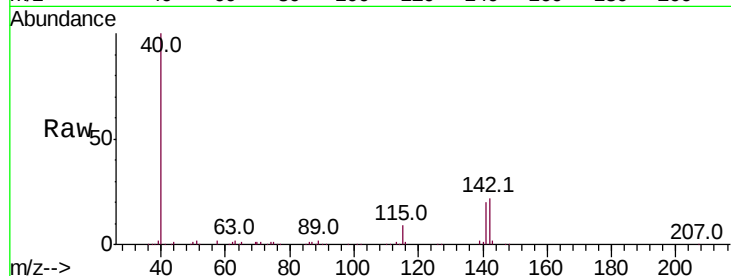
Time-->



#35  
 1-Methylnaphthalene  
 Concen: 5.862 ng/uL  
 RT: 12.00 min Scan# 1566  
 Delta R.T. -0.00 min  
 Lab File: BN010132.D  
 Acq: 06 Mar 2020 22:57

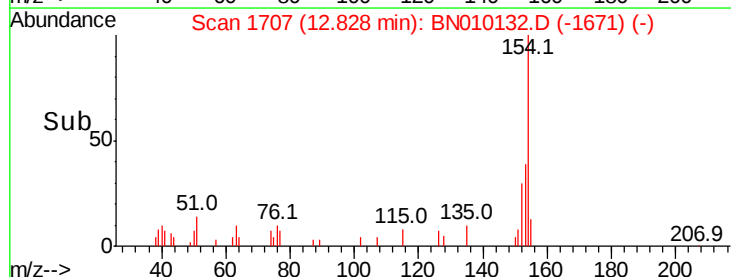
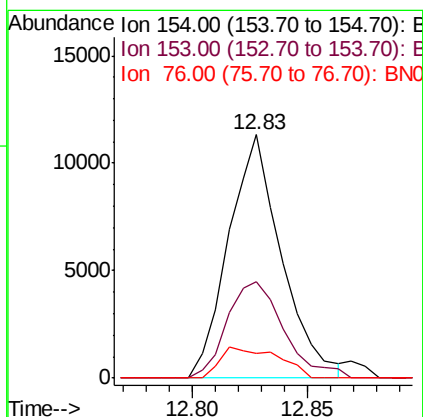
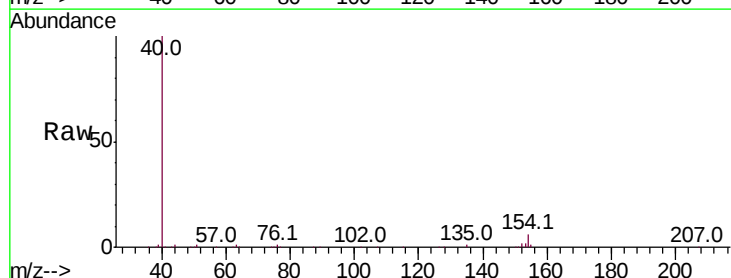
Instrument :  
 BNA\_N  
 ClientSampleId :

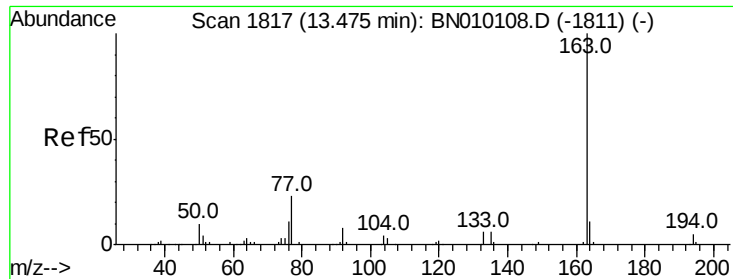
Tot Ion:142 Resp: 76065  
 Ion Ratio Lower Upper  
 142 100  
 141 90.3 72.8 109.2  
 116 4.3 3.2 4.8



#41  
 1,1'-Biphenyl  
 Concen: 1.072 ng/uL  
 RT: 12.83 min Scan# 1707  
 Delta R.T. 0.01 min  
 Lab File: BN010132.D  
 Acq: 06 Mar 2020 22:57

Tgt Ion:154 Resp: 18064  
 Ion Ratio Lower Upper  
 154 100  
 153 39.4 33.2 49.8  
 76 10.3 11.0 16.4#





#45

Dimethylphthalate

Concen: 1.857 ng/ul

RT: 13.47 min Scan# 1817

Delta R.T. -0.00 min

Lab File: BN010132.D

Acq: 06 Mar 2020 22:57

Instrument :

BNA\_N

ClientSampleId :

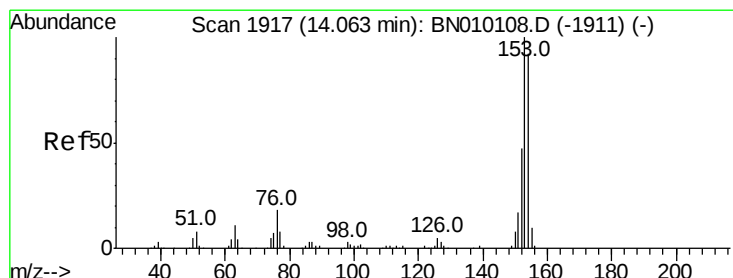
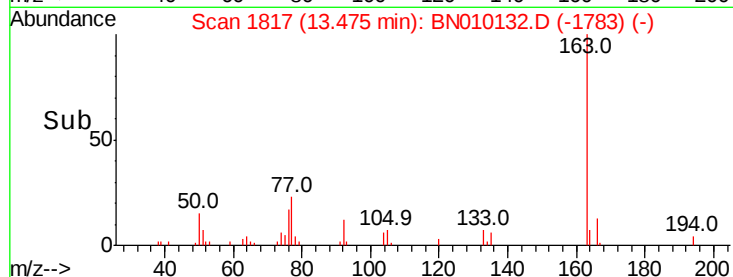
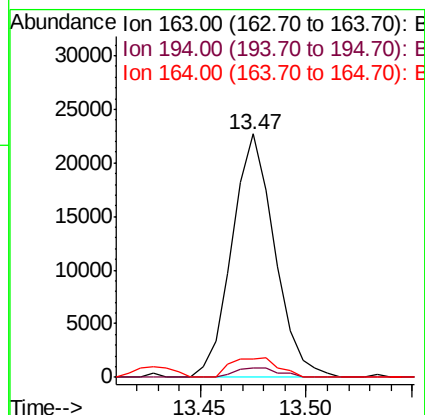
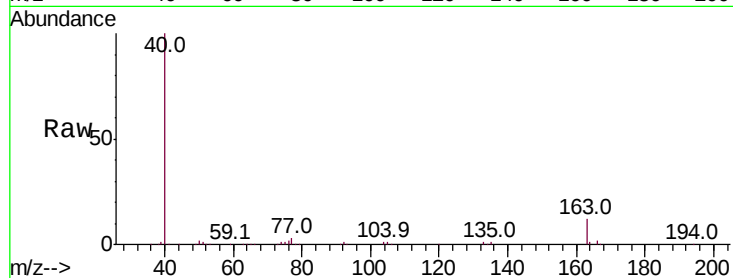
Tot Ion:163 Resp: 31747

Ion Ratio Lower Upper

163 100

194 3.9 3.4 5.0

164 7.4 8.0 12.0#



#50

Acenaphthene

Concen: 10.724 ng/ul

RT: 14.06 min Scan# 1917

Delta R.T. -0.00 min

Lab File: BN010132.D

Acq: 06 Mar 2020 22:57

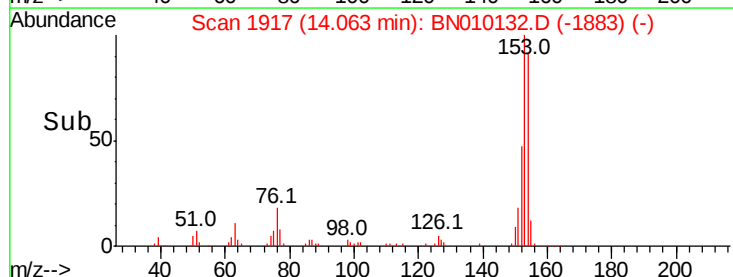
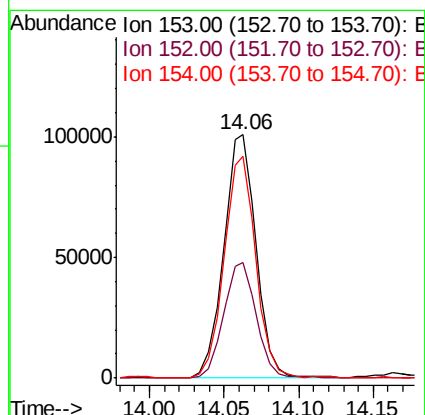
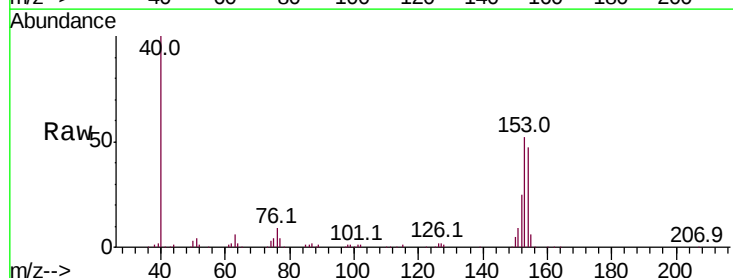
Tgt Ion:153 Resp: 153543

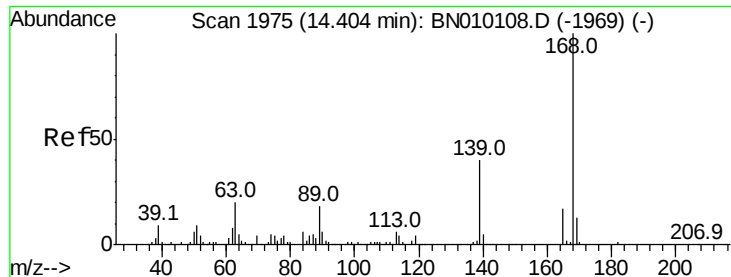
Ion Ratio Lower Upper

153 100

152 47.4 36.6 54.8

154 91.0 70.6 106.0





#54

Dibenzenofuran

Concen: 9.755 ng/ul

RT: 14.40 min Scan# 1975

Delta R.T. -0.00 min

Lab File: BN010132.D

Acq: 06 Mar 2020 22:57

Instrument :

BNA\_N

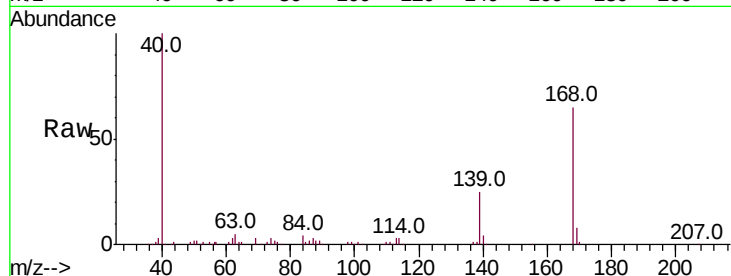
ClientSampleId :

Tot Ion:168 Resp: 196045

Ion Ratio Lower Upper

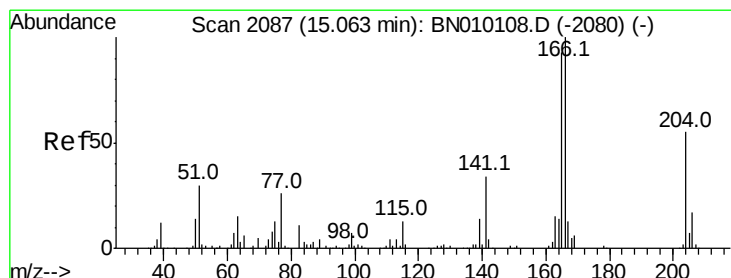
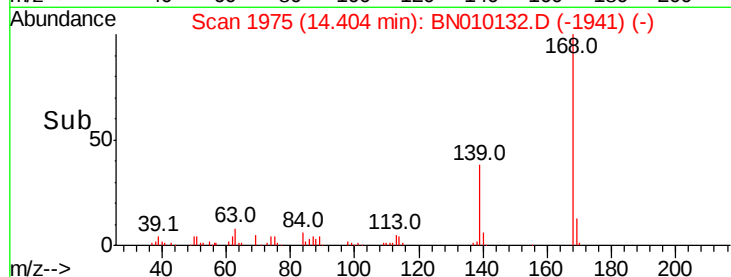
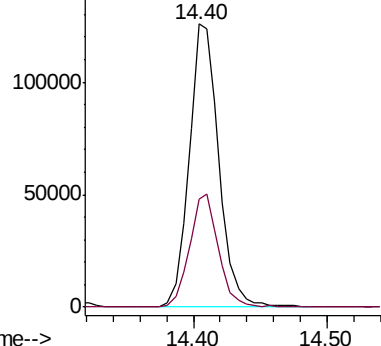
168 100

139 38.0 32.7 49.1



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 8.926 ng/ul

RT: 15.06 min Scan# 2086

Delta R.T. -0.01 min

Lab File: BN010132.D

Acq: 06 Mar 2020 22:57

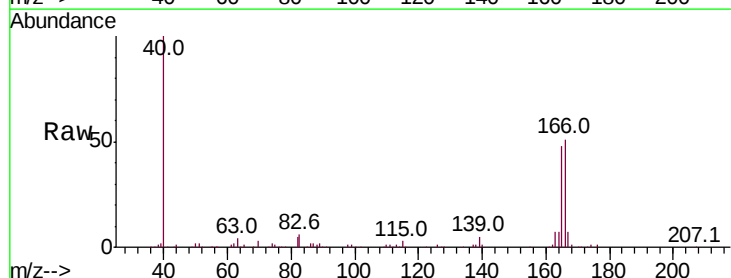
Tgt Ion:166 Resp: 150544

Ion Ratio Lower Upper

166 100

165 93.4 79.8 119.8

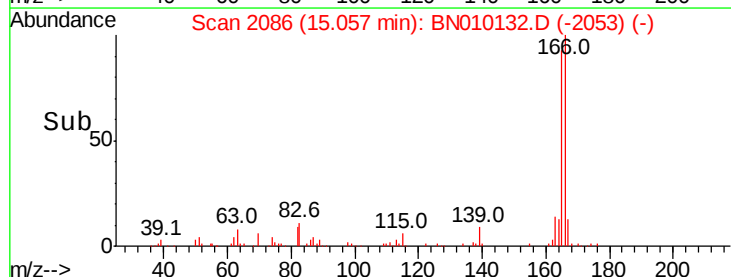
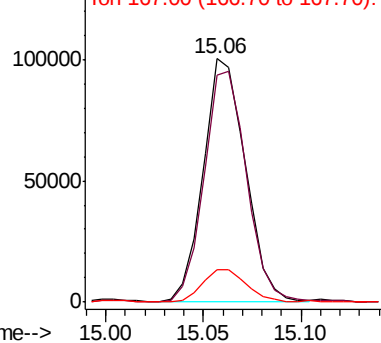
167 13.3 10.7 16.1

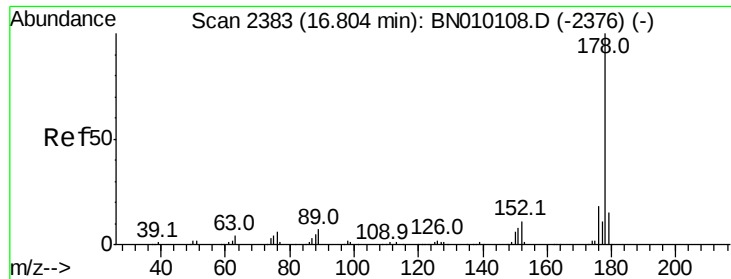


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 14.486 ng/ul

RT: 16.80 min Scan# 2382

Delta R.T. -0.01 min

Lab File: BN010132.D

Acq: 06 Mar 2020 22:57

Instrument :

BNA\_N

ClientSampleId :

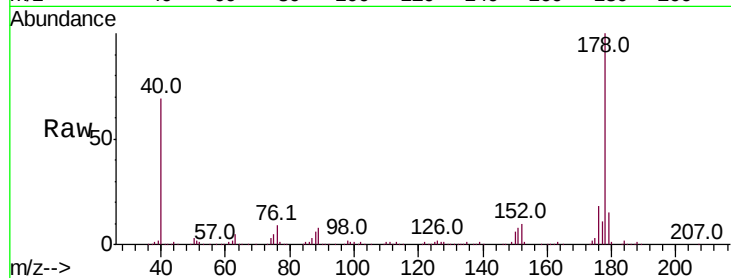
Tot Ion:178 Resp: 396254

Ion Ratio Lower Upper

178 100

179 14.8 12.5 18.7

176 18.2 14.6 22.0

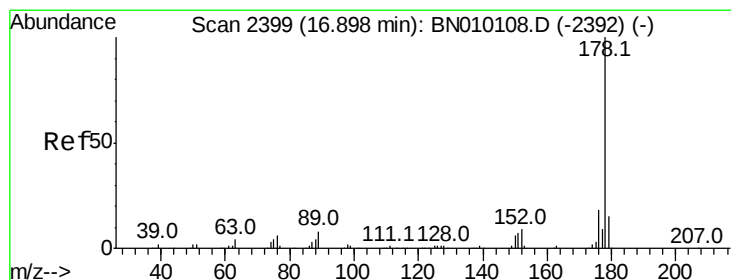
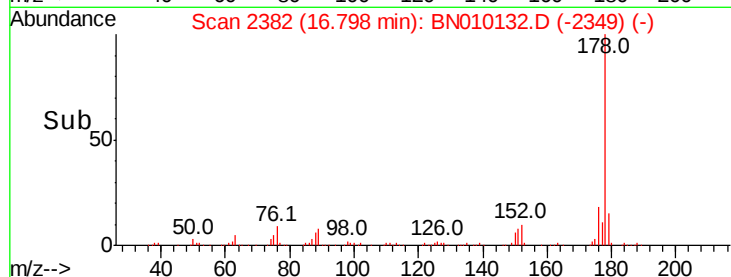
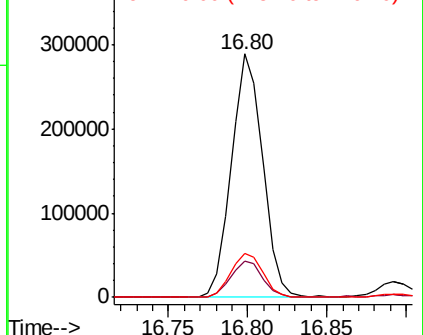


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72

Anthracene

Concen: 14.170 ng/ul

RT: 16.80 min Scan# 2382

Delta R.T. -0.10 min

Lab File: BN010132.D

Acq: 06 Mar 2020 22:57

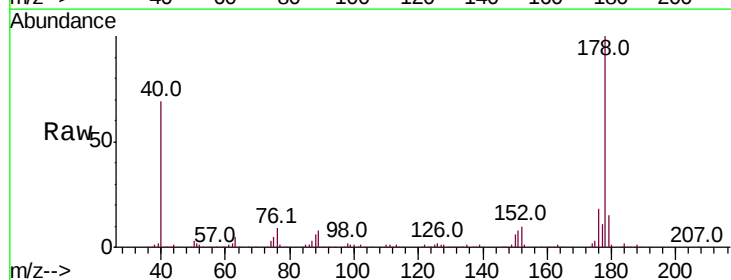
Tgt Ion:178 Resp: 396254

Ion Ratio Lower Upper

178 100

179 14.8 12.2 18.2

176 18.2 14.6 21.8

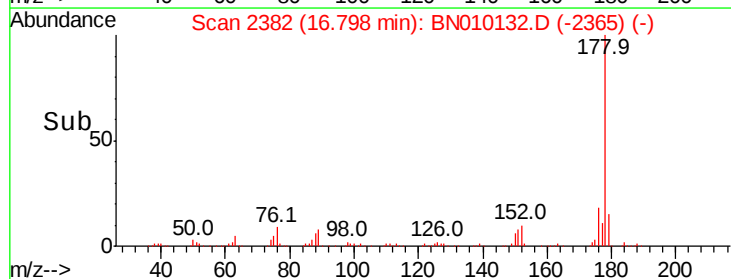
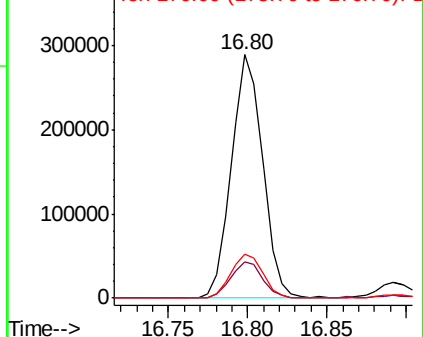


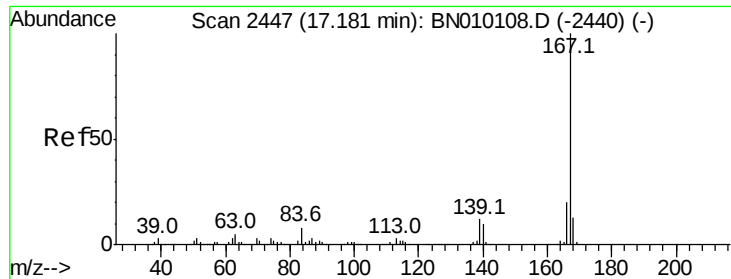
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

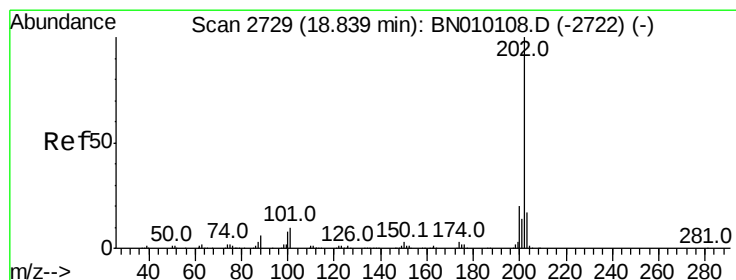
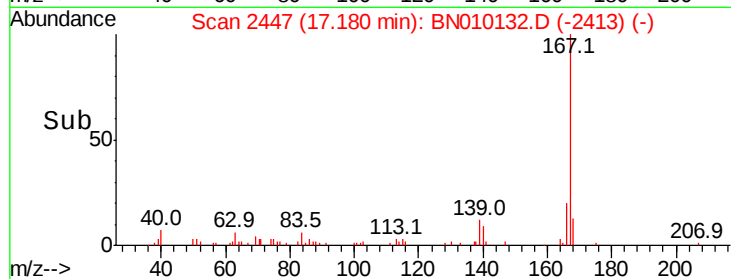
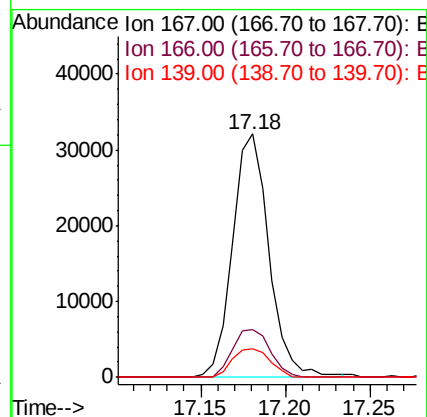
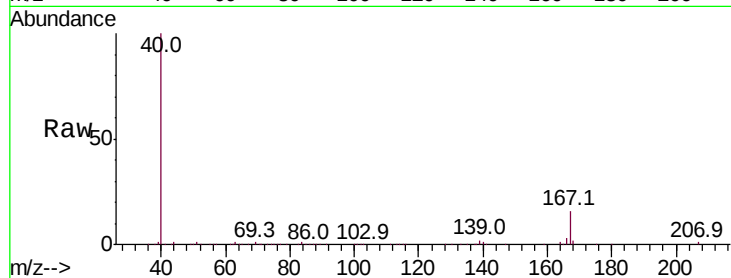




#75  
 Carbazole  
 Concen: 1.954 ng/ul  
 RT: 17.18 min Scan# 2447  
 Delta R.T. -0.00 min  
 Lab File: BN010132.D  
 Acq: 06 Mar 2020 22:57

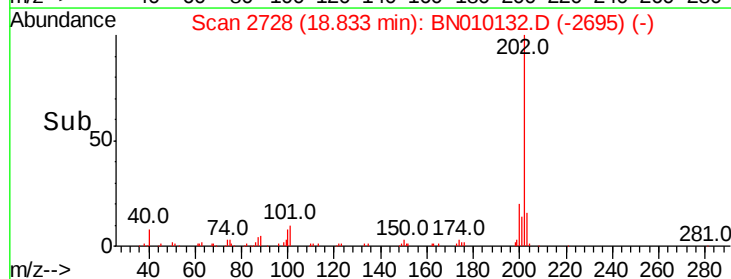
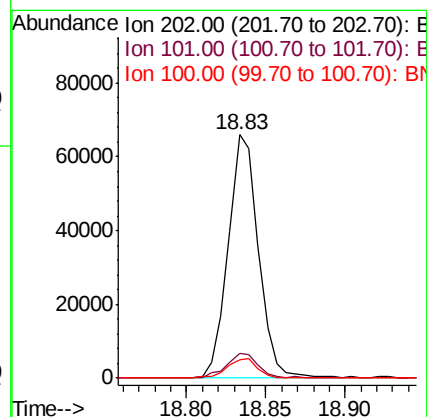
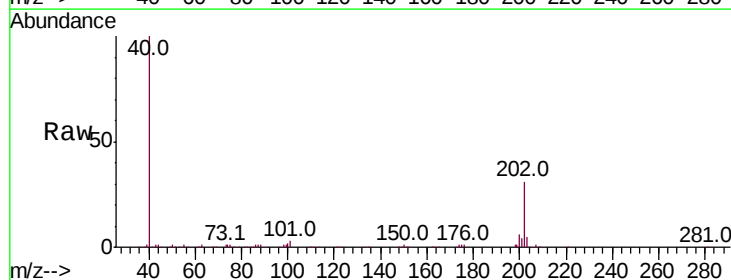
Instrument :  
 BNA\_N  
 ClientSampleId :

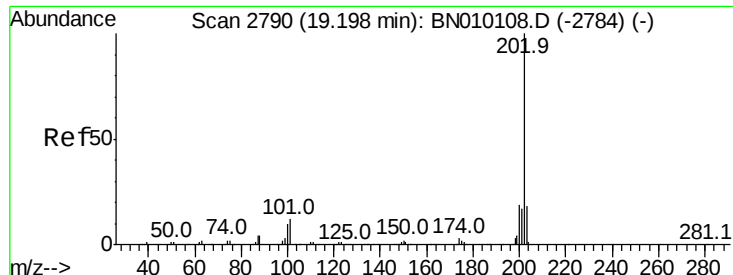
Tot Ion:167 Resp: 48130  
 Ion Ratio Lower Upper  
 167 100  
 166 19.8 16.6 24.8  
 139 11.9 9.9 14.9



#77  
 Fluoranthene  
 Concen: 2.726 ng/ul  
 RT: 18.83 min Scan# 2728  
 Delta R.T. -0.01 min  
 Lab File: BN010132.D  
 Acq: 06 Mar 2020 22:57

Tgt Ion:202 Resp: 87351  
 Ion Ratio Lower Upper  
 202 100  
 101 10.2 9.4 14.2  
 100 7.8 7.2 10.8

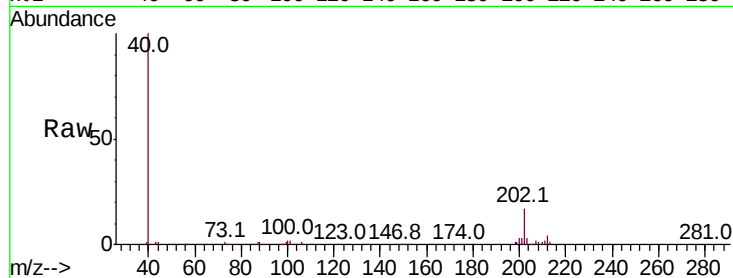




#80  
 Pvrene  
 Concen: 1.728 ng/ul  
 RT: 19.20 min Scan# 2790  
 Delta R.T. -0.01 min  
 Lab File: BN010132.D  
 Acq: 06 Mar 2020 22:57

Instrument :  
 BNA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.7  | 11.3  | 16.9  |
| 100     | 11.3  | 9.0   | 13.6  |



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): B

