

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050119\  
 Data File : BN005406.D  
 Acq On : 01 May 2019 12:28  
 Operator : JU/SJ  
 Sample : K2596-17  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BFH43

Quant Time: May 01 23:19:08 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Apr 25 03:19:34 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.59  | 152  | 360199   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.35 | 136  | 1583444  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.22 | 164  | 1010614  | 20.00 | ng/ul | -0.01    |
| 61) Phenanthrene-d10      | 16.98 | 188  | 2281299  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.22 | 240  | 1565575  | 20.00 | ng/ul | -0.01    |
| 85) Perylene-d12          | 23.43 | 264  | 1593859  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.21  | 96  | 21166   | 2.84  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.78  | 99  | 472155  | 16.69 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.94  | 67  | 270492  | 15.33 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.13  | 132 | 397487  | 18.36 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.29  | 113 | 375699  | 16.99 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.73  | 128 | 196604  | 20.17 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.45  | 143 | 224922  | 22.76 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 9.98  | 165 | 422874  | 18.67 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.49 | 131 | 231691  | 9.92  | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.64 | 166 | 1382725 | 18.85 | ng/ul | -0.01 |
| 46) Acenaphthylene-d8          | 13.91 | 160 | 1740623 | 19.32 | ng/ul | -0.01 |
| 51) 4-Nitrophenol-d4           | 14.44 | 143 | 152955  | 13.20 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.22 | 176 | 1227080 | 19.93 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.36 | 200 | 71040   | 6.92  | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.07 | 188 | 1859910 | 19.45 | ng/ul | -0.01 |
| 78) Pyrene-d10                 | 19.39 | 212 | 1761550 | 21.99 | ng/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.29 | 264 | 1351311 | 19.40 | ng/ul | -0.01 |

## Target Compounds

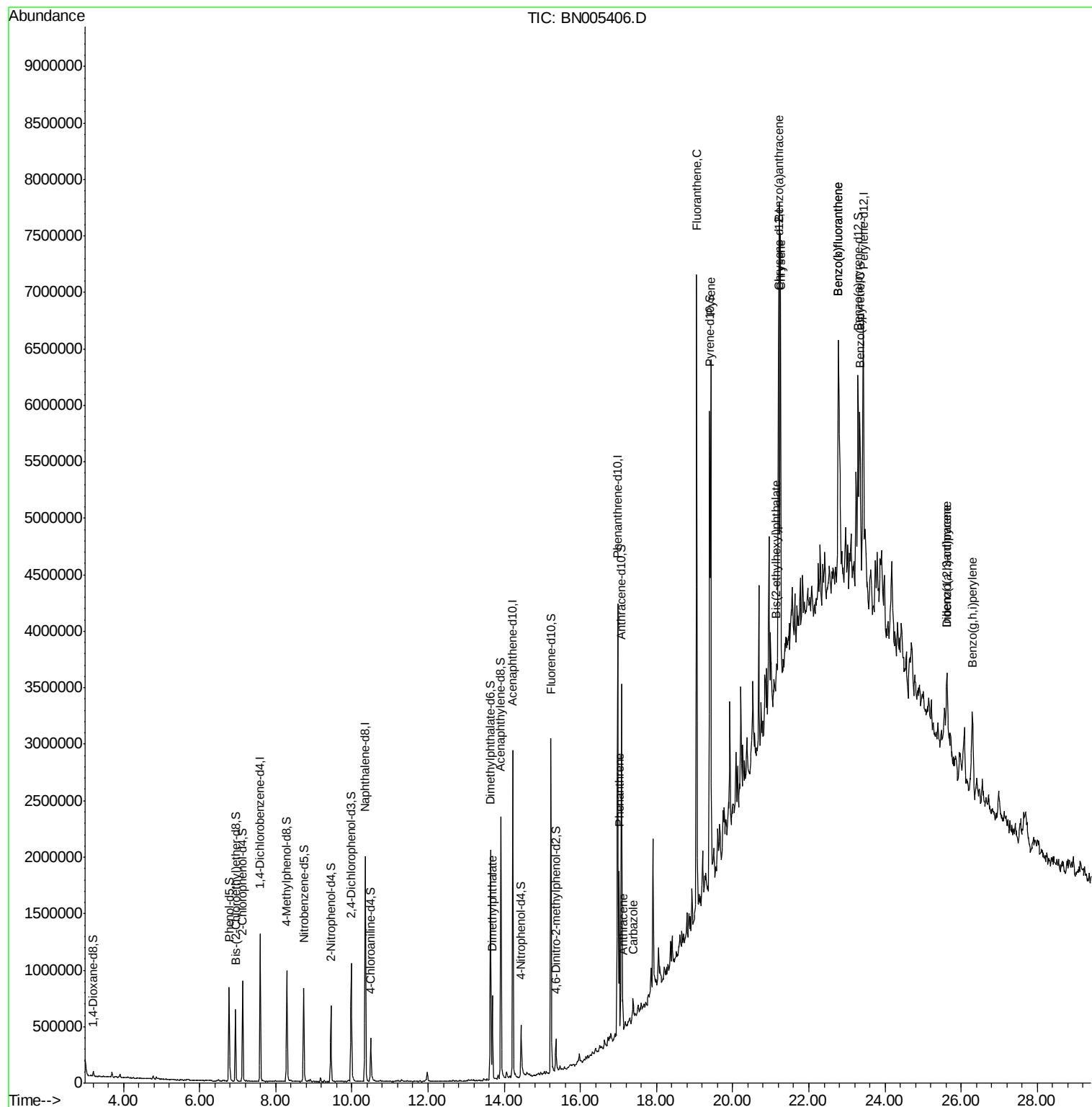
|                                |       |     |         |        | Ovalue |     |
|--------------------------------|-------|-----|---------|--------|--------|-----|
| 44) Dimethylphthalate          | 13.69 | 163 | 473943  | 6.484  | ng/ul  | 99  |
| 69) Phenanthrene               | 17.02 | 178 | 871895  | 7.848  | ng/ul  | 99  |
| 71) Anthracene                 | 17.11 | 178 | 153316  | 1.355  | ng/ul  | 100 |
| 74) Carbazole                  | 17.39 | 167 | 119737  | 1.232  | ng/ul  | 98  |
| 76) Fluoranthene               | 19.06 | 202 | 3490762 | 28.326 | ng/ul  | 97  |
| 79) Pyrene                     | 19.42 | 202 | 3009670 | 29.857 | ng/ul  | 97  |
| 82) Benzo(a)anthracene         | 21.20 | 228 | 1564107 | 16.059 | ng/ul  | 98  |
| 83) Bis(2-ethylhexyl)phthalate | 21.15 | 149 | 99284   | 1.616  | ng/ul# | 90  |
| 84) Chrysene                   | 21.26 | 228 | 1598931 | 17.689 | ng/ul  | 97  |
| 87) Benzo(b)fluoranthene       | 22.78 | 252 | 1746581 | 19.494 | ng/ul  | 95  |
| 88) Benzo(k)fluoranthene       | 22.78 | 252 | 1746581 | 20.411 | ng/ul  | 95  |
| 90) Benzo(a)pyrene             | 23.34 | 252 | 1065171 | 12.648 | ng/ul  | 95  |
| 91) Indeno(1,2,3-cd)pyrene     | 25.62 | 276 | 601735  | 6.463  | ng/ul# | 93  |
| 92) Dibenzo(a,h)anthracene     | 25.63 | 278 | 169650  | 2.147  | ng/ul# | 77  |
| 93) Benzo(g,h,i)perylene       | 26.29 | 276 | 616548  | 8.008  | ng/ul  | 96  |

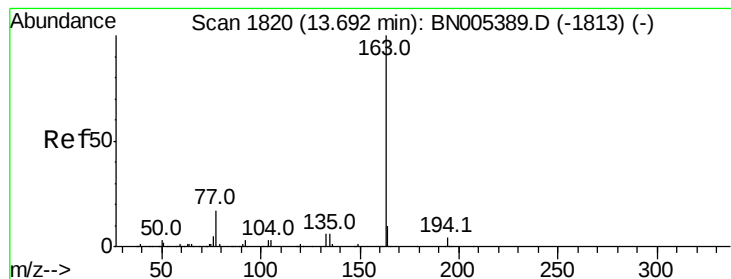
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN050119\  
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Quant Time: May 01 23:19:08 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Apr 25 03:19:34 2019  
Response via : Initial Calibration





#44

Dimethylphthalate

Concen: 6.484 ng/ul

RT: 13.69 min Scan# 1819

Delta R.T. -0.01 min

Lab File: BN005406.D

Acq: 01 May 2019 12:28

Instrument :

BNA\_N

ClientSampleId :

BFH43

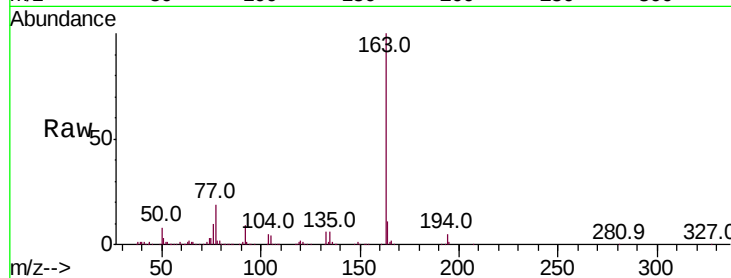
Tot Ion:163 Resp: 473943

Ion Ratio Lower Upper

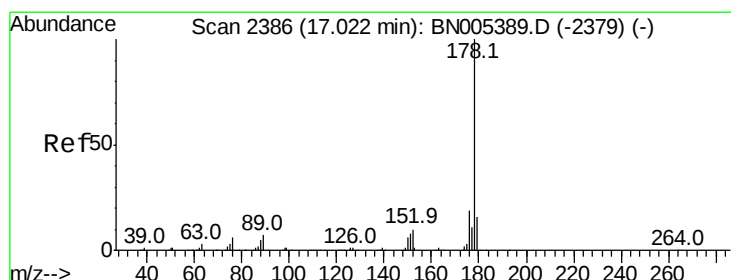
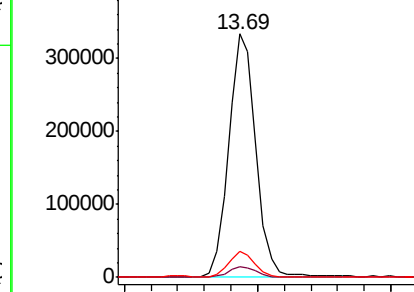
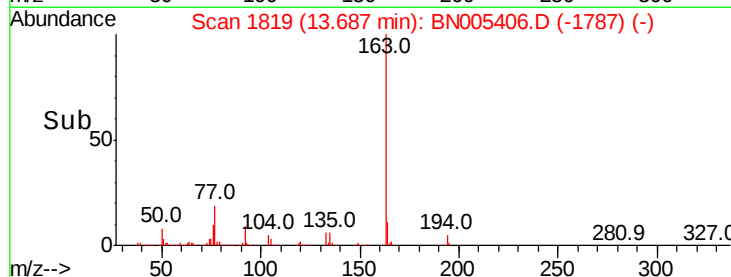
163 100

194 4.6 3.4 5.0

164 10.6 8.1 12.1



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E



#69

Phenanthrene

Concen: 7.848 ng/ul

RT: 17.02 min Scan# 2386

Delta R.T. -0.01 min

Lab File: BN005406.D

Acq: 01 May 2019 12:28

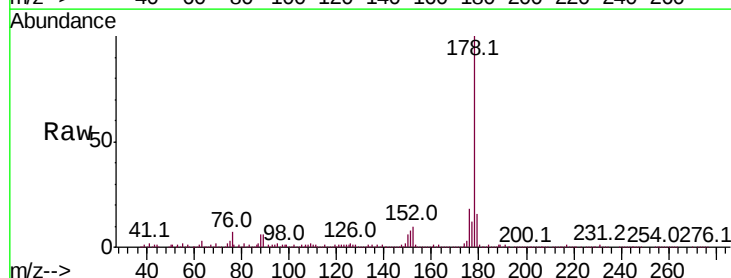
Tgt Ion:178 Resp: 871895

Ion Ratio Lower Upper

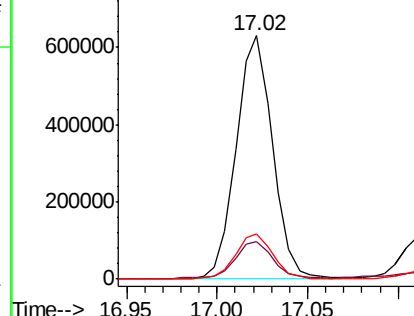
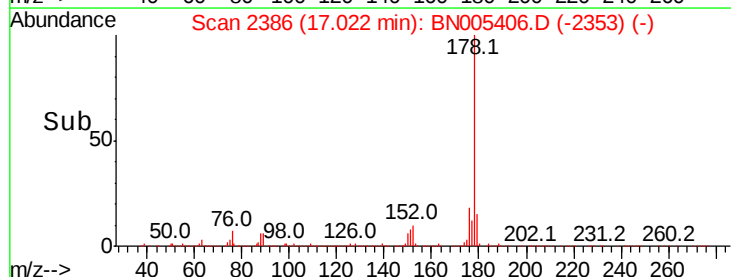
178 100

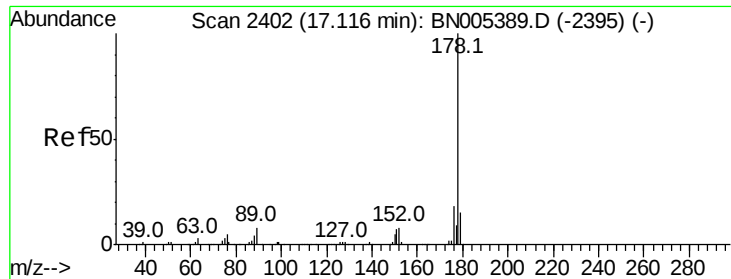
179 15.6 12.2 18.4

176 18.4 15.1 22.7



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

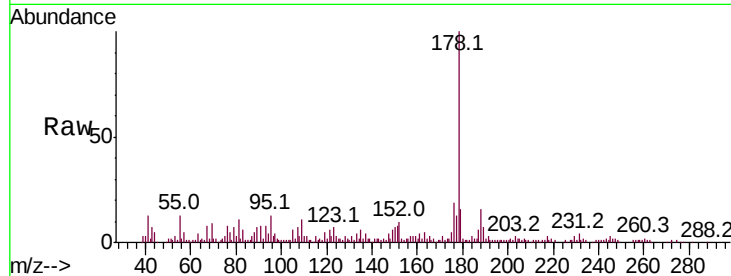




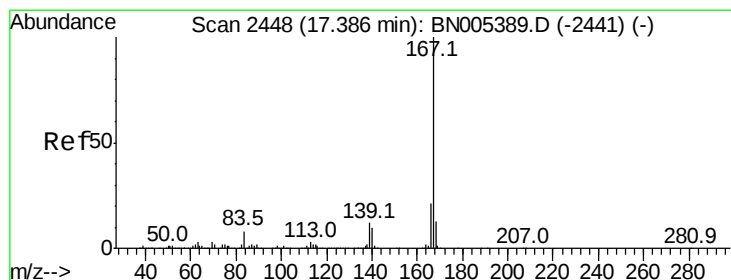
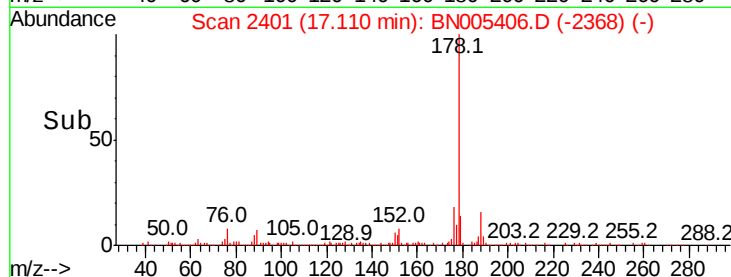
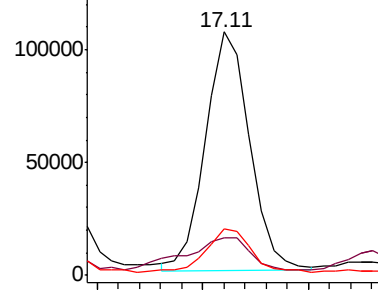
#71  
 Anthracene  
 Concen: 1.355 ng/ul  
 RT: 17.11 min Scan# 2401  
 Delta R.T. -0.01 min  
 Lab File: BN005406.D  
 Acq: 01 May 2019 12:28

Instrument :  
 BNA\_N  
 ClientSampleID :  
 BFH43

Tot Ion:178 Resp: 153316  
 Ion Ratio Lower Upper  
 178 100  
 179 15.6 12.3 18.5  
 176 18.9 15.1 22.7

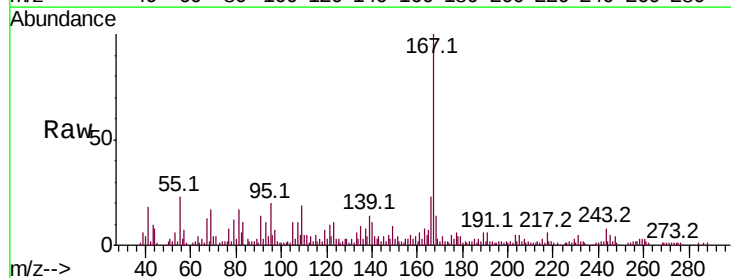


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 179.00 (178.70 to 179.70): E  
 Ion 176.00 (175.70 to 176.70): E

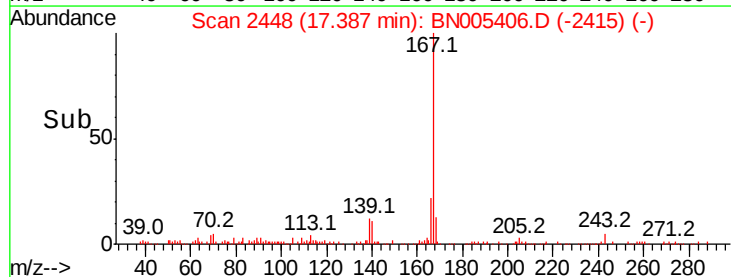
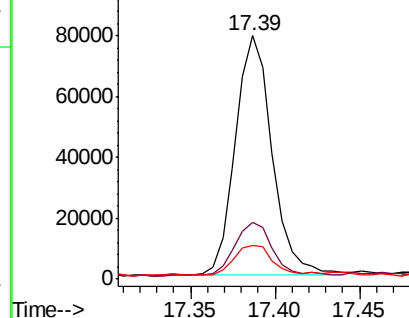


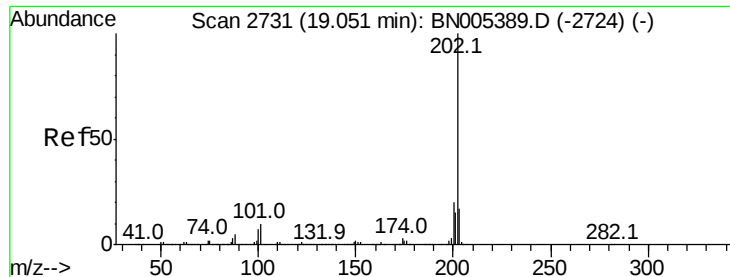
#74  
 Carbazole  
 Concen: 1.232 ng/ul  
 RT: 17.39 min Scan# 2448  
 Delta R.T. -0.01 min  
 Lab File: BN005406.D  
 Acq: 01 May 2019 12:28

Tgt Ion:167 Resp: 119737  
 Ion Ratio Lower Upper  
 167 100  
 166 23.1 17.2 25.8  
 139 13.7 10.6 16.0



Abundance Ion 167.00 (166.70 to 167.70): E  
 Ion 166.00 (165.70 to 166.70): E  
 Ion 139.00 (138.70 to 139.70): E





#76

Fluoranthene

Concen: 28.326 ng/ul

RT: 19.06 min Scan# 2732

Delta R.T. -0.01 min

Lab File: BN005406.D

Acq: 01 May 2019 12:28

Instrument :

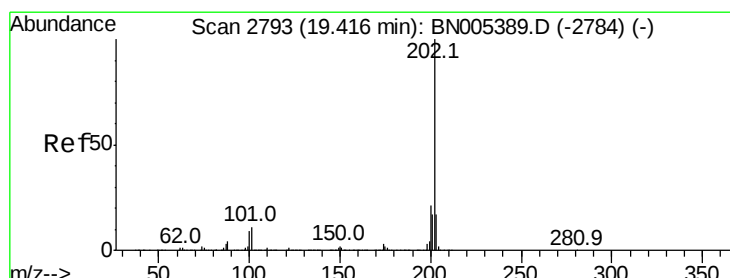
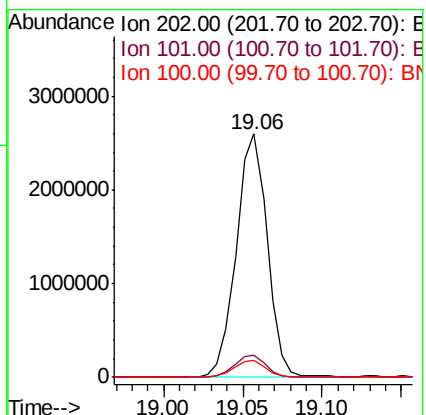
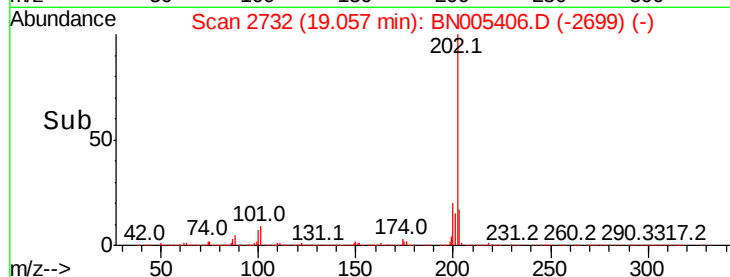
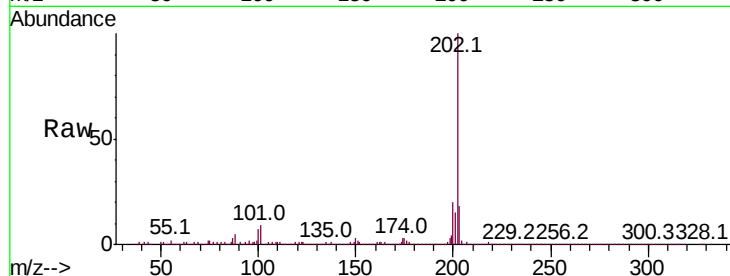
BNA\_N

ClientSampleId :

BFH43

Tot Ion:202 Resp: 3490762

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 9.3   | 8.6   | 12.8  |
| 100 | 7.2   | 6.3   | 9.5   |



#79

Pyrene

Concen: 29.857 ng/ul

RT: 19.42 min Scan# 2794

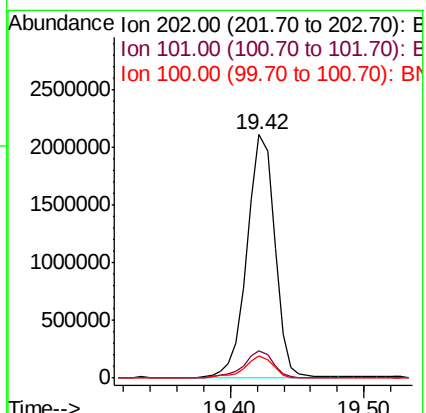
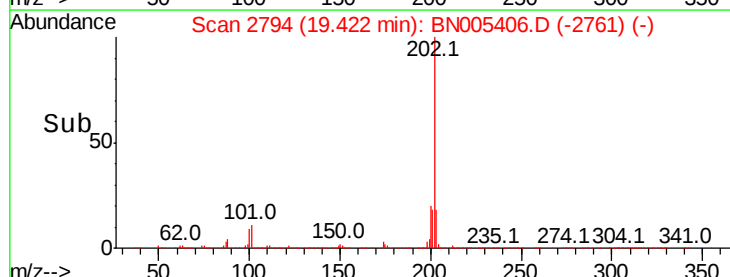
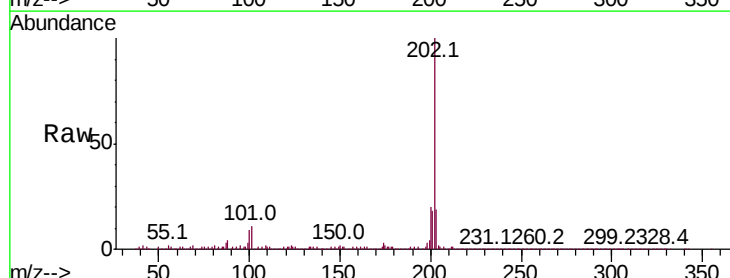
Delta R.T. -0.01 min

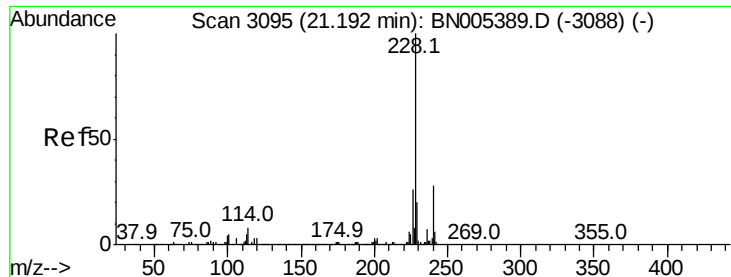
Lab File: BN005406.D

Acq: 01 May 2019 12:28

Tgt Ion:202 Resp: 3009670

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 11.2  | 10.3  | 15.5  |
| 100 | 9.2   | 7.9   | 11.9  |





#82

Benzo(a)anthracene

Concen: 16.059 ng/ul

RT: 21.20 min Scan# 3096

Delta R.T. -0.01 min

Lab File: BN005406.D

Acq: 01 May 2019 12:28

Instrument :

BNA\_N

ClientSampled :

BFH43

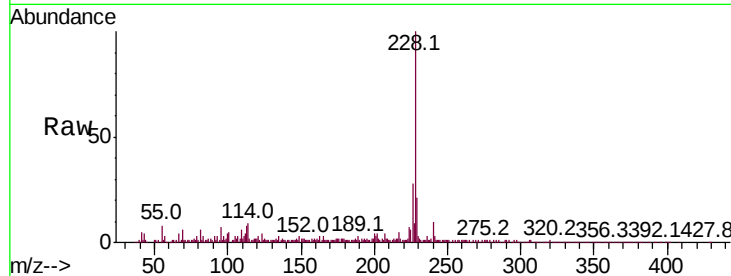
Tot Ion:228 Resp: 1564107

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 229 | 21.4  | 15.8  | 23.6  |
| 226 | 27.5  | 21.4  | 32.2  |

228 100

229 21.4 15.8 23.6

226 27.5 21.4 32.2

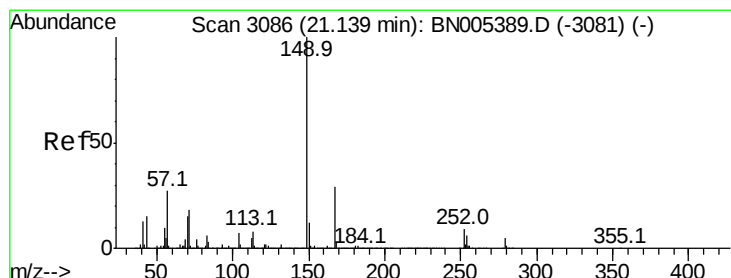
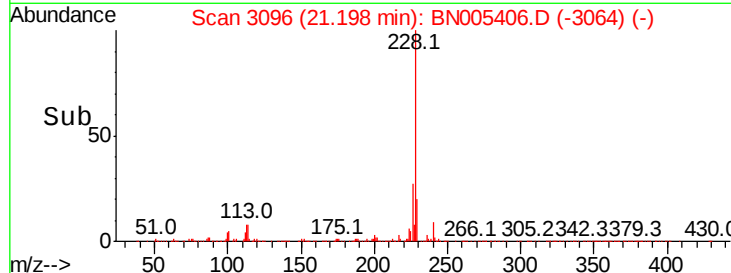
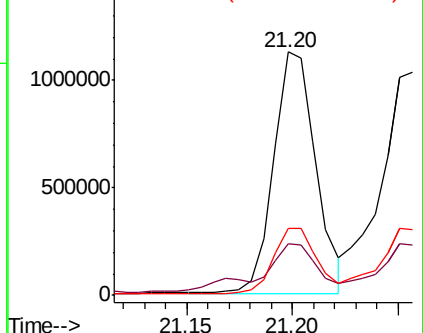


Abundance

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



#83

Bis(2-ethylhexyl)phthalate

Concen: 1.616 ng/ul

RT: 21.15 min Scan# 3088

Delta R.T. -0.02 min

Lab File: BN005406.D

Acq: 01 May 2019 12:28

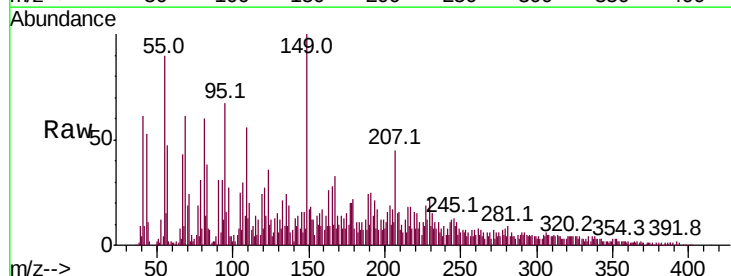
Tgt Ion:149 Resp: 99284

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 32.8  | 22.3  | 33.5  |
| 279 | 8.1   | 3.3   | 4.9   |

149 100

167 32.8 22.3 33.5

279 8.1 3.3 4.9

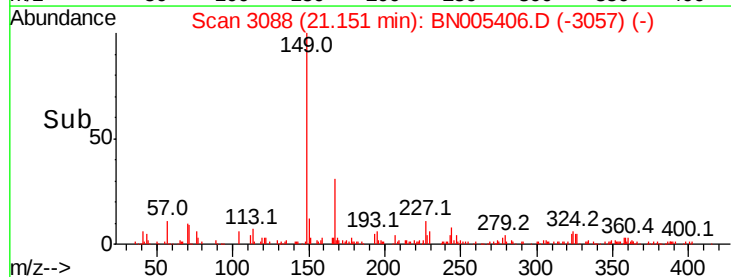
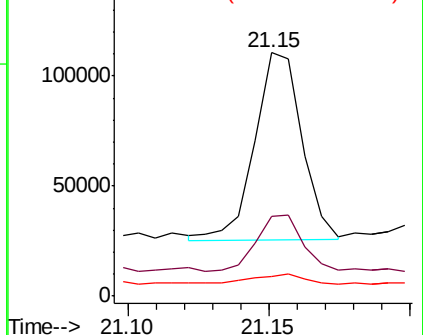


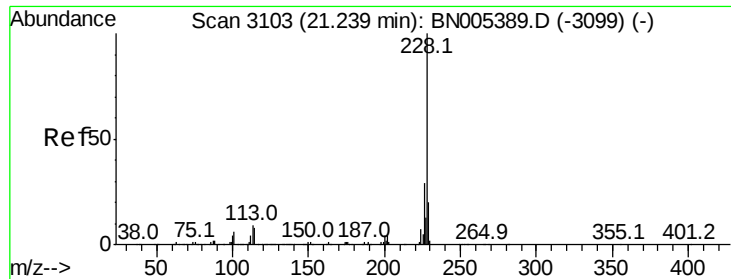
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#84

Chrysene

Concen: 17.689 ng/ul

RT: 21.26 min Scan# 3106

Delta R.T. -0.01 min

Lab File: BN005406.D

Acq: 01 May 2019 12:28

Instrument :

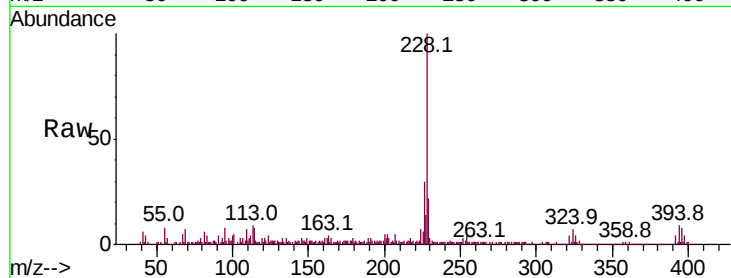
BNA\_N

ClientSampled :

BFH43

Tot Ion:228 Resp: 1598931

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.6  | 24.0  | 36.0  |
| 229 | 22.5  | 15.4  | 23.0  |

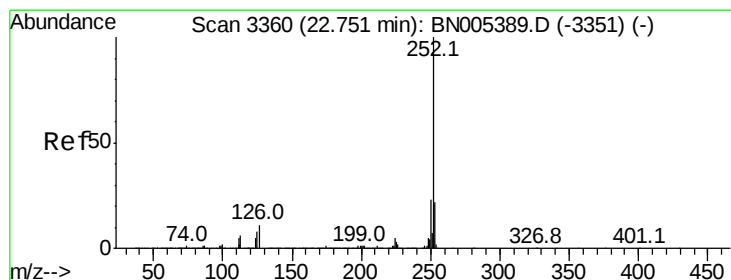
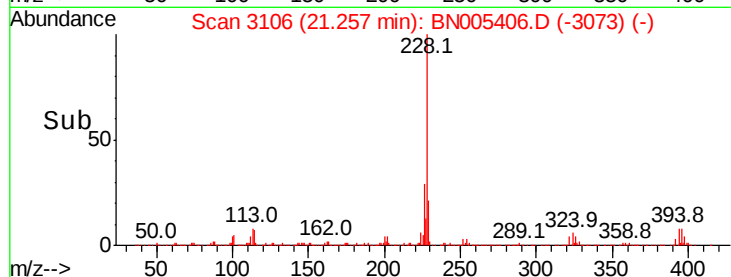
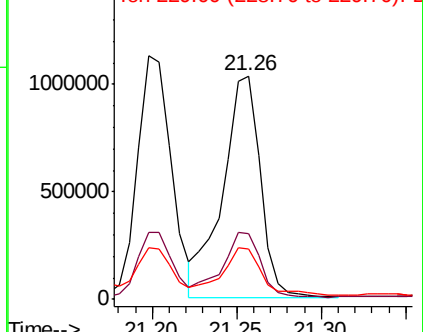


Abundance

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



#87

Benzo(b)fluoranthene

Concen: 19.494 ng/ul

RT: 22.78 min Scan# 3365

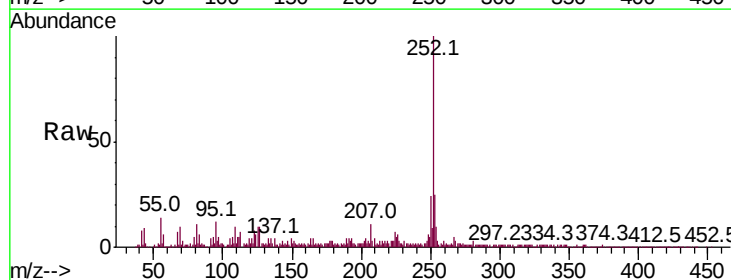
Delta R.T. -0.01 min

Lab File: BN005406.D

Acq: 01 May 2019 12:28

Tgt Ion:252 Resp: 1746581

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 25.1  | 17.7  | 26.5  |
| 125 | 9.9   | 8.4   | 12.6  |

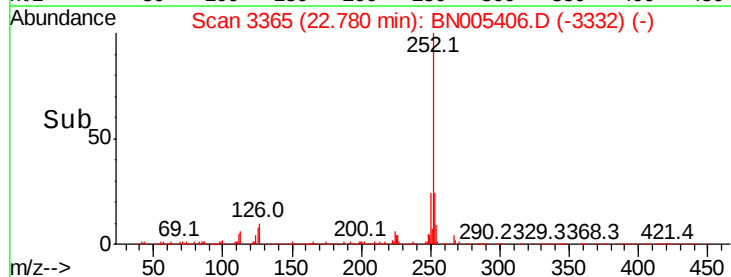
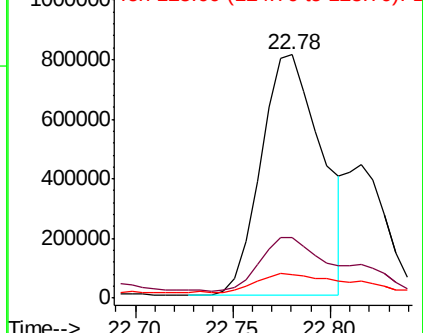


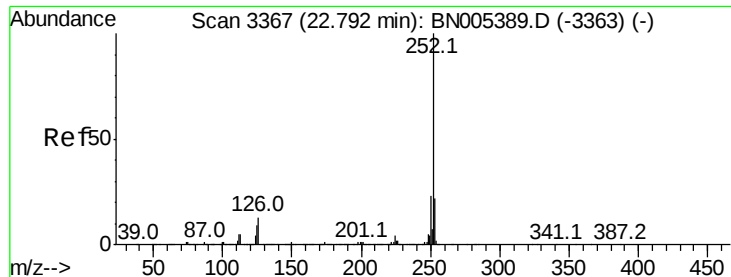
Abundance

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(k)fluoranthene

Concen: 20.411 ng/ul

RT: 22.78 min Scan# 3365

Delta R.T. -0.05 min

Lab File: BN005406.D

Acq: 01 May 2019 12:28

Instrument :

BNA\_N

ClientSampleId :

BFH43

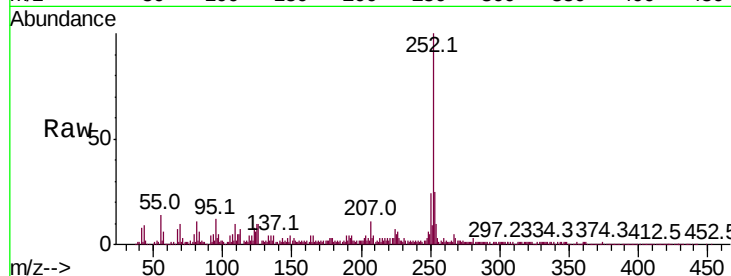
Tot Ion:252 Resp: 1746581

Ion Ratio Lower Upper

252 100

253 25.1 17.4 26.0

125 9.9 7.5 11.3



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

22.78

800000

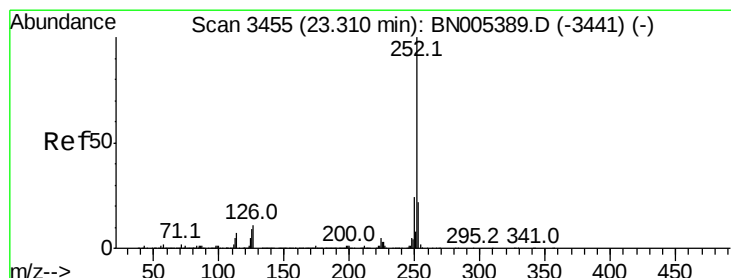
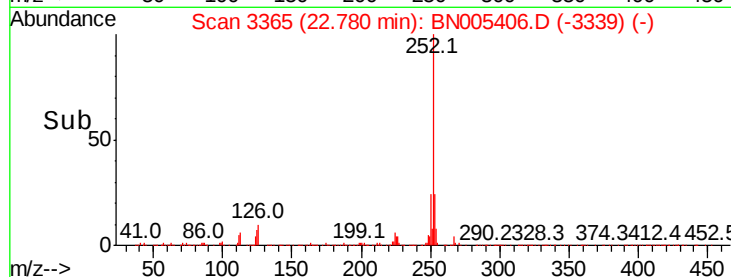
600000

400000

200000

0

Time-->



#90

Benzo(a)pyrene

Concen: 12.648 ng/ul

RT: 23.34 min Scan# 3460

Delta R.T. -0.01 min

Lab File: BN005406.D

Acq: 01 May 2019 12:28

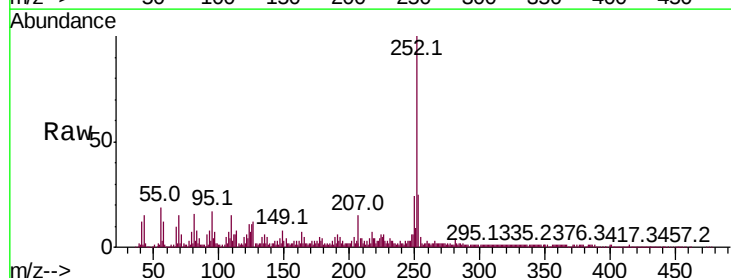
Tgt Ion:252 Resp: 1065171

Ion Ratio Lower Upper

252 100

253 24.9 17.3 25.9

125 11.5 8.6 13.0



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

23.34

800000

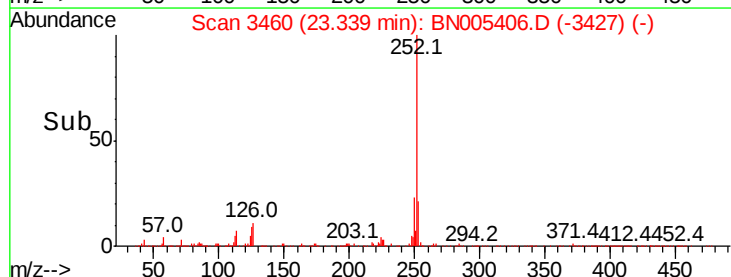
600000

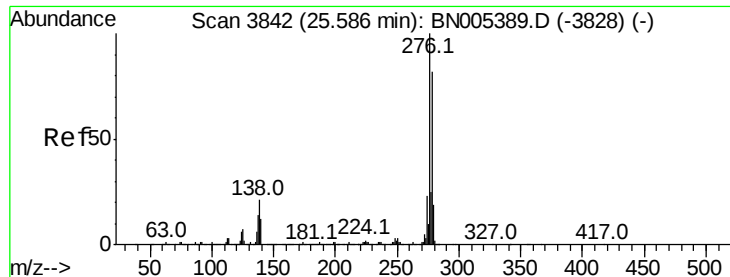
400000

200000

0

Time-->





#91

Indeno(1,2,3-cd)pyrene

Concen: 6.463 ng/ul

RT: 25.62 min Scan# 3848

Delta R.T. -0.01 min

Lab File: BN005406.D

Acq: 01 May 2019 12:28

Instrument :

BNA\_N

ClientSampleId :

BFH43

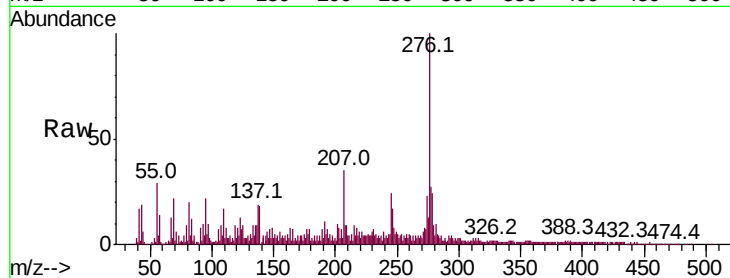
Tot Ion:276 Resp: 601735

Ion Ratio Lower Upper

276 100

138 17.8 17.9 26.9#

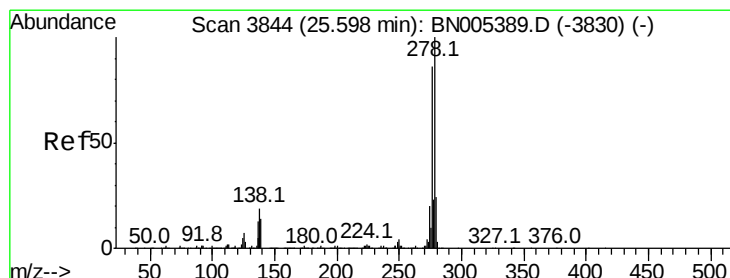
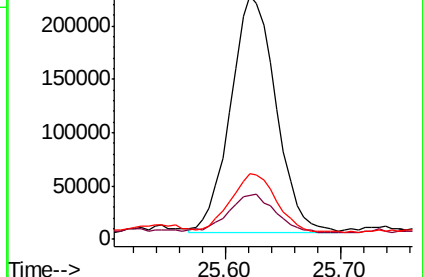
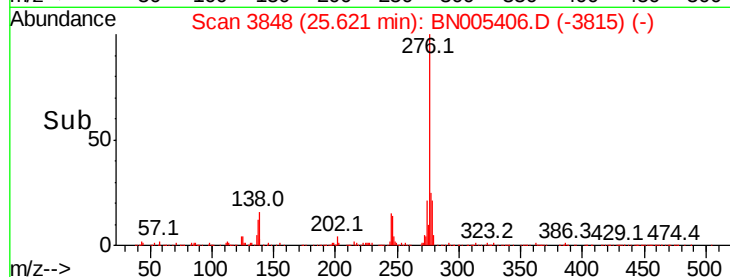
277 27.1 19.7 29.5



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



#92

Dibenzo(a,h)anthracene

Concen: 2.147 ng/ul

RT: 25.63 min Scan# 3849

Delta R.T. -0.01 min

Lab File: BN005406.D

Acq: 01 May 2019 12:28

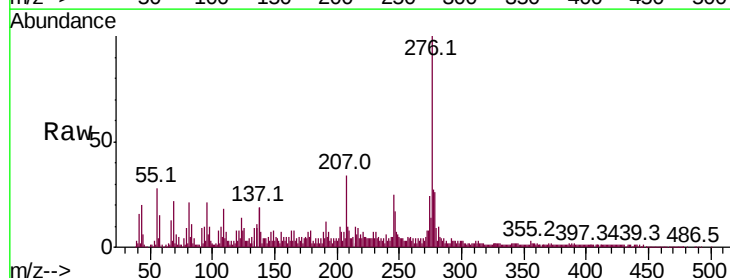
Tgt Ion:278 Resp: 169650

Ion Ratio Lower Upper

278 100

139 25.7 13.1 19.7#

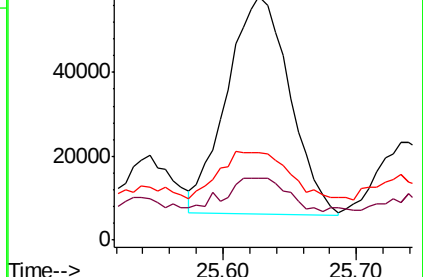
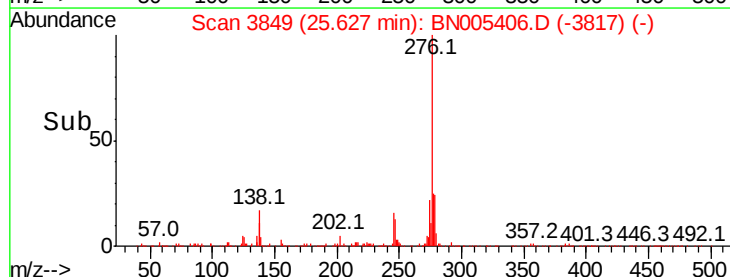
279 35.9 19.4 29.0#

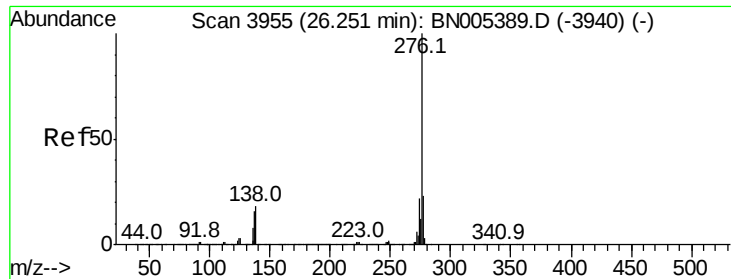


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#93

Benzo(a,h,i)perylene

Concen: 8.008 ng/ul

RT: 26.29 min Scan# 3962

Delta R.T. 0.00 min

Lab File: BN005406.D

Acq: 01 May 2019 12:28

Instrument :

BNA\_N

ClientSampleId :

BFH43

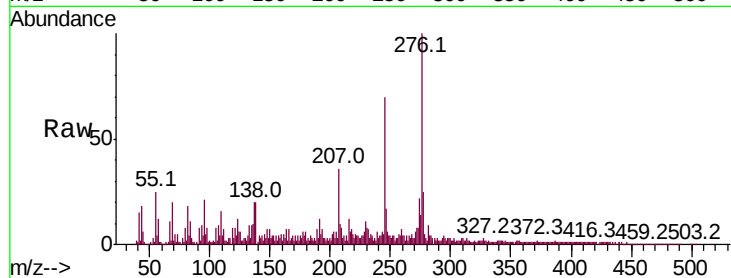
Tot Ion:276 Resp: 616548

Ion Ratio Lower Upper

276 100

138 19.9 16.7 25.1

277 25.4 18.2 27.2



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

