

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081420\  
 Data File : BN011433.D  
 Acq On : 14 Aug 2020 19:24  
 Operator : CG/JU  
 Sample : L3631-02  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BFML8

Manual Integrations  
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 8/18/2020 1:48:00 PM

Quant Time: Aug 17 01:41:01 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN081420MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Aug 17 01:29:31 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.44  | 152  | 209792   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.18 | 136  | 781067   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.07 | 164  | 417311   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 16.83 | 188  | 868485   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.05 | 240  | 884618   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.16 | 264  | 886090   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.12  | 96  | 10424m  | 2.38  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.64  | 99  | 257662  | 17.37 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.80  | 67  | 128237  | 16.96 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 6.98  | 132 | 231402  | 17.40 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.15  | 113 | 212656  | 17.65 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.58  | 128 | 100988  | 16.68 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.29  | 143 | 116046  | 17.04 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.82  | 165 | 233495  | 18.15 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.33 | 131 | 244947  | 15.92 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.50 | 166 | 593354  | 18.26 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.76 | 160 | 766236  | 19.60 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.30 | 143 | 66511   | 12.08 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.07 | 176 | 530616  | 18.65 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.21 | 200 | 76537   | 13.29 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 16.92 | 188 | 850300  | 20.50 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.23 | 212 | 1039222 | 22.87 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.03 | 264 | 1132284 | 23.01 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |        | Ovalue |     |
|--------------------------------|-------|-----|---------|--------|--------|-----|
| 45) Dimethylphthalate          | 13.55 | 163 | 178284  | 5.345  | ng/ul  | 98  |
| 48) Acenaphthylene             | 13.79 | 152 | 64555   | 1.594  | ng/ul  | 96  |
| 50) Acenaphthene               | 14.13 | 153 | 41352   | 1.458  | ng/ul  | 95  |
| 54) Dibenzofuran               | 14.47 | 168 | 45175   | 1.099  | ng/ul  | 97  |
| 59) Fluorene                   | 15.13 | 166 | 50085   | 1.511  | ng/ul  | 95  |
| 70) Phenanthrene               | 16.87 | 178 | 1525393 | 29.612 | ng/ul  | 97  |
| 72) Anthracene                 | 16.96 | 178 | 356455  | 6.832  | ng/ul  | 100 |
| 75) Carbazole                  | 17.23 | 167 | 103334  | 2.355  | ng/ul  | 99  |
| 77) Fluoranthene               | 18.90 | 202 | 3614927 | 57.349 | ng/ul  | 99  |
| 80) Pyrene                     | 19.27 | 202 | 4381704 | 70.388 | ng/ul  | 99  |
| 83) Benzo(a)anthracene         | 21.03 | 228 | 1818986 | 30.908 | ng/ul  | 97  |
| 84) Bis(2-ethylhexyl)phthalate | 20.99 | 149 | 240443  | 7.592  | ng/ul  | 99  |
| 85) Chrysene                   | 21.08 | 228 | 1731607 | 29.621 | ng/ul  | 97  |
| 88) Benzo(b)fluoranthene       | 22.54 | 252 | 2361678 | 38.124 | ng/ul  | 99  |
| 89) Benzo(k)fluoranthene       | 22.57 | 252 | 613462m | 9.971  | ng/ul  |     |
| 91) Benzo(a)pyrene             | 23.07 | 252 | 2373697 | 41.588 | ng/ul  | 96  |
| 92) Indeno(1,2,3-cd)pyrene     | 25.22 | 276 | 1284901 | 17.564 | ng/ul  | 96  |
| 93) Dibenz(a,h)anthracene      | 25.22 | 278 | 257791  | 4.209  | ng/ul# | 84  |
| 94) Benzo(g,h,i)perylene       | 25.84 | 276 | 2451357 | 40.420 | ng/ul  | 97  |

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

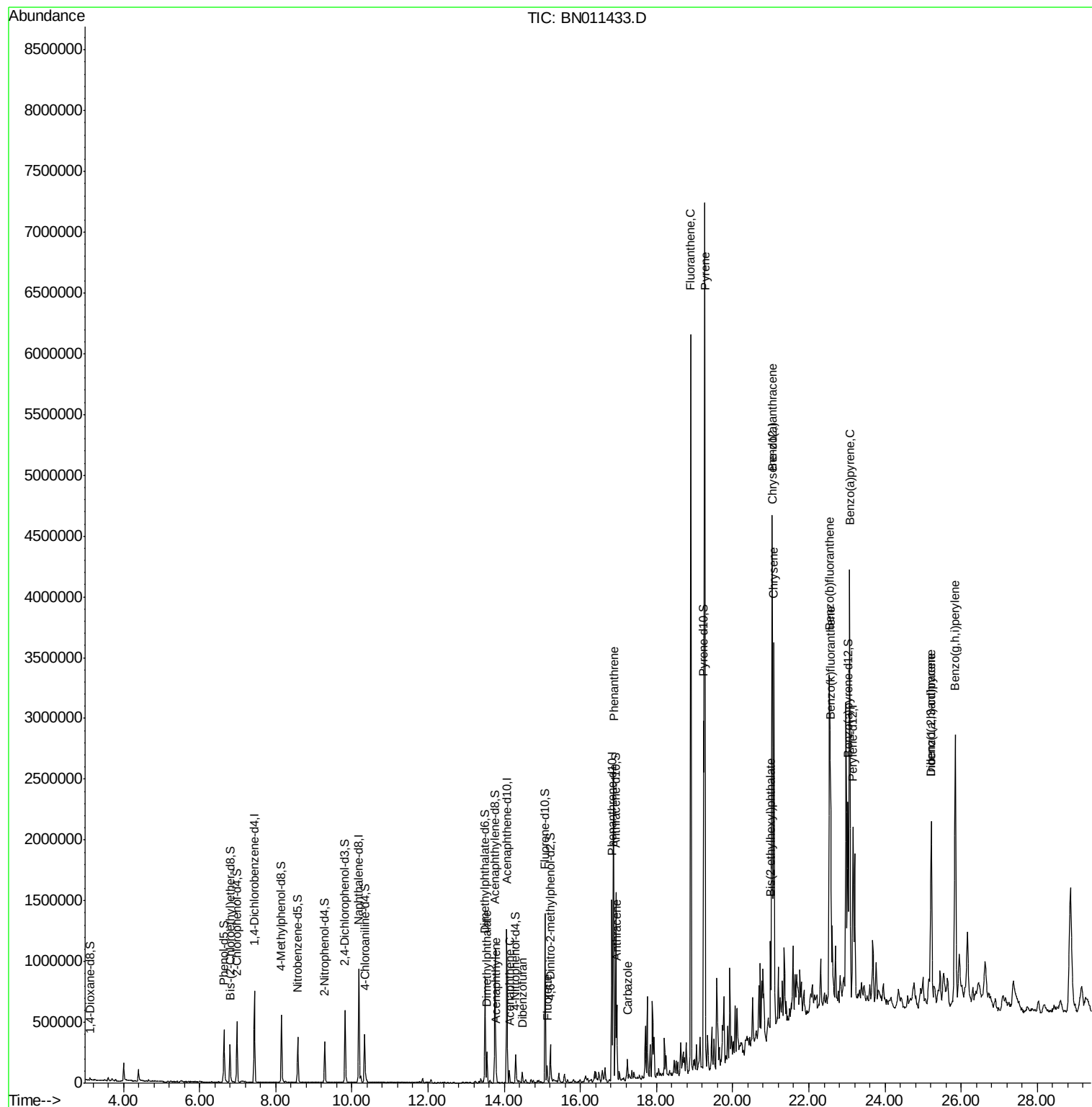
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081420\  
Data File : BN011433.D  
Acq On : 14 Aug 2020 19:24  
Operator : CG/JU  
Sample : L3631-02  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

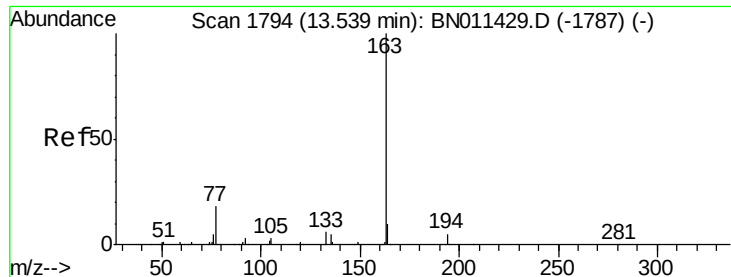
Instrument :  
BNA\_N  
ClientSampleId :  
BFML8

Quant Time: Aug 17 01:41:01 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN081420MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Aug 17 01:29:31 2020  
Response via : Initial Calibration

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#45

Dimethylphthalate

Concen: 5.345 ng/ul

RT: 13.55 min Scan# 1795

Delta R.T. 0.00 min

Lab File: BN011433.D

Acq: 14 Aug 2020 19:24

Instrument :

BNA\_N

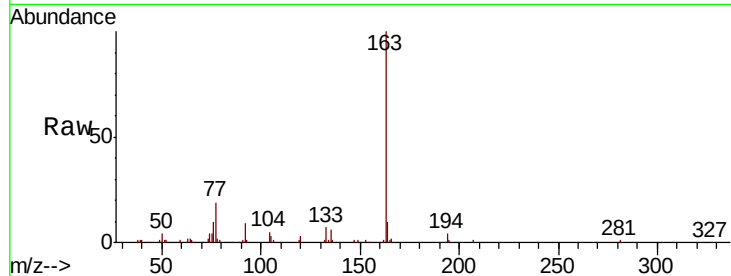
ClientSampleId :

BFML8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 163   | Resp: | 178284 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.4   | 3.8   | 5.6    |
| 164       | 10.0  | 8.7   | 13.1   |

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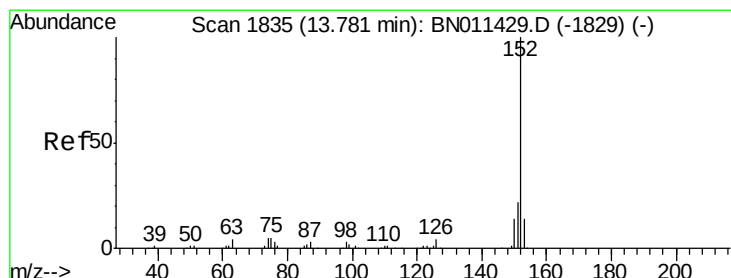
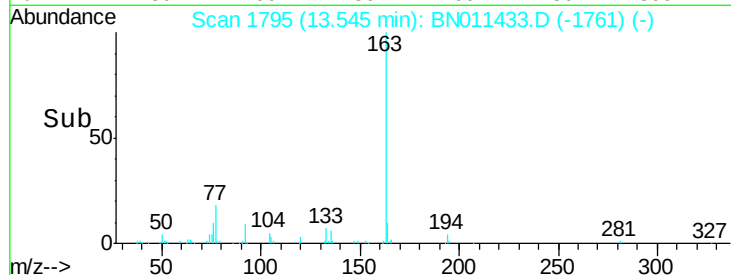
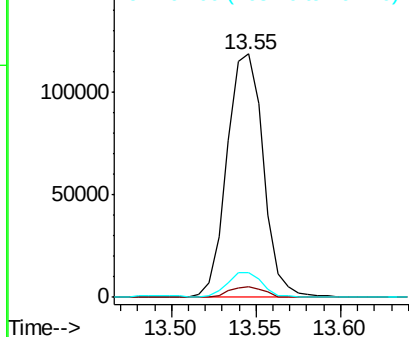


Abundance

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



#48

Acenaphthylene

Concen: 1.594 ng/ul

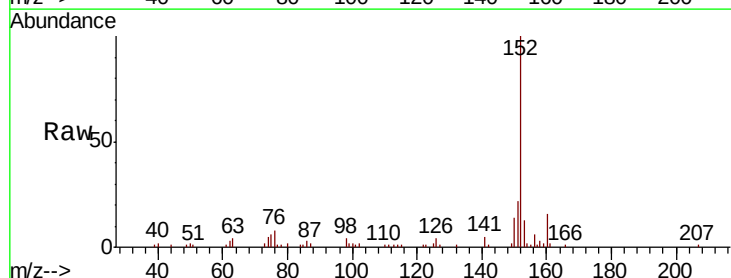
RT: 13.79 min Scan# 1836

Delta R.T. 0.00 min

Lab File: BN011433.D

Acq: 14 Aug 2020 19:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 64555 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 21.8  | 15.4  | 23.2  |
| 153       | 13.4  | 9.9   | 14.9  |

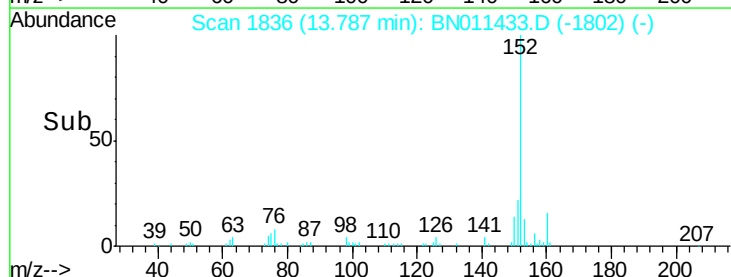
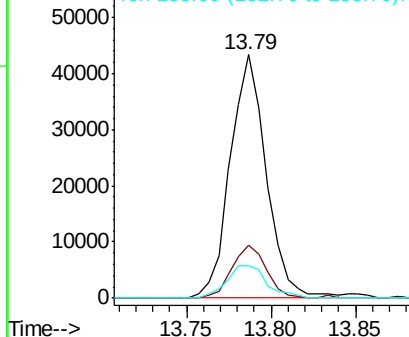


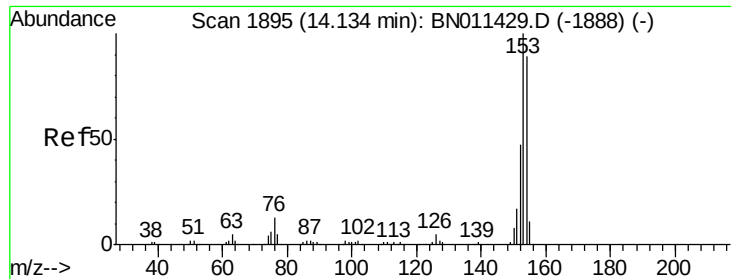
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#50

Acenaphthene

Concen: 1.458 ng/ul

RT: 14.13 min Scan# 1895

Delta R.T. 0.00 min

Lab File: BN011433.D

Acq: 14 Aug 2020 19:24

Instrument :

BNA\_N

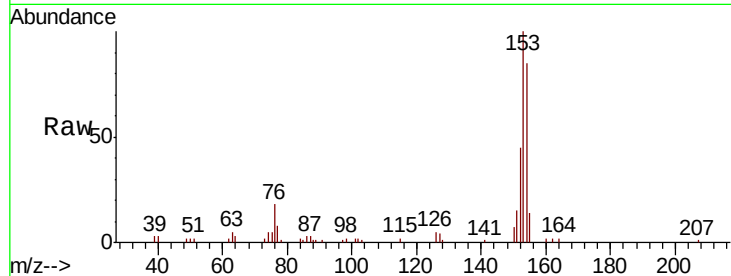
ClientSampleId :

BFML8

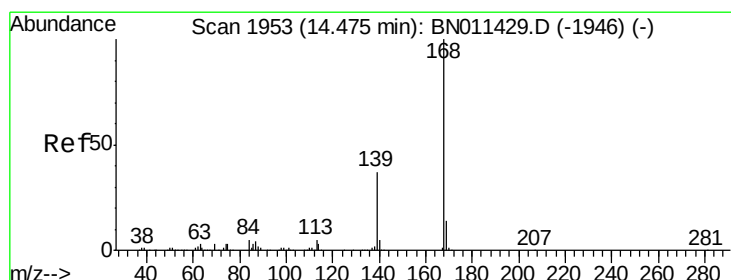
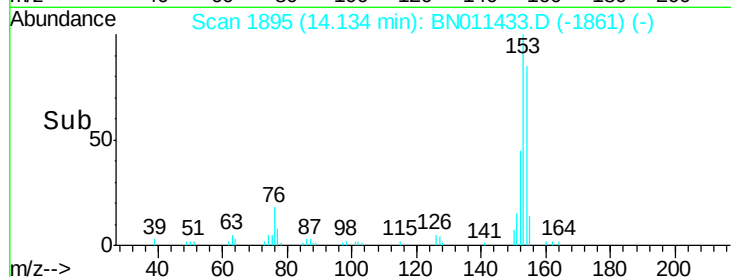
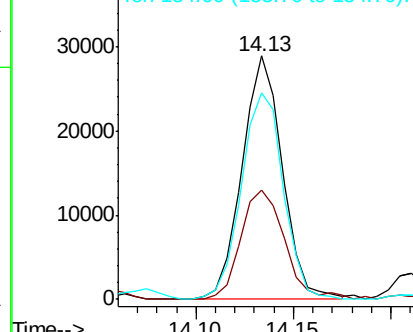
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 153   | Resp: | 41352 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 44.7  | 37.6  | 56.4  |
| 154       | 85.0  | 72.0  | 108.0 |

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Abundance Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E  
Ion 154.00 (153.70 to 154.70): E



#54

Dibenzofuran

Concen: 1.099 ng/ul

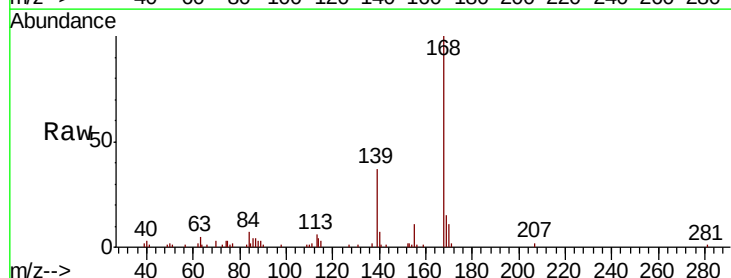
RT: 14.47 min Scan# 1953

Delta R.T. 0.00 min

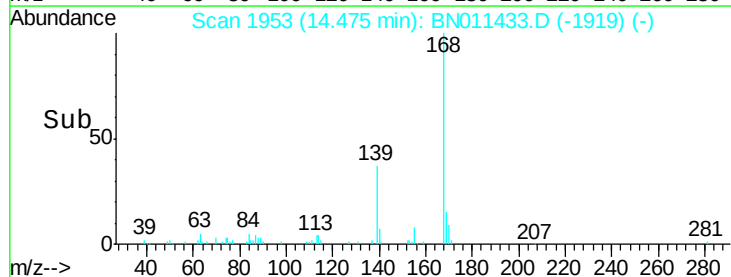
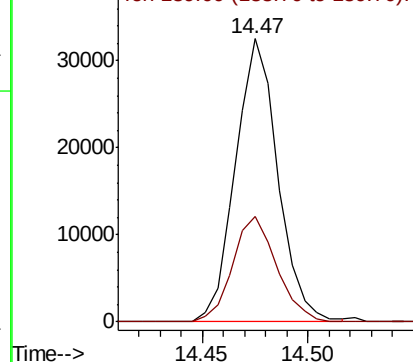
Lab File: BN011433.D

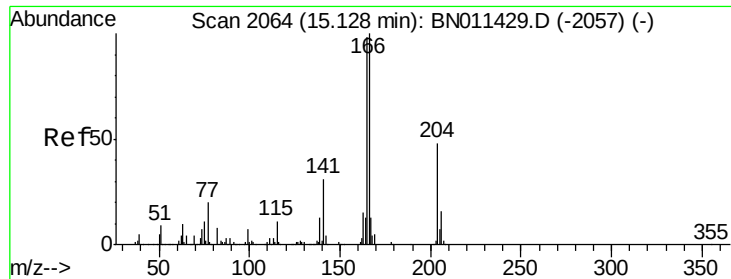
Acq: 14 Aug 2020 19:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 168   | Resp: | 45175 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 37.2  | 31.1  | 46.7  |



Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E





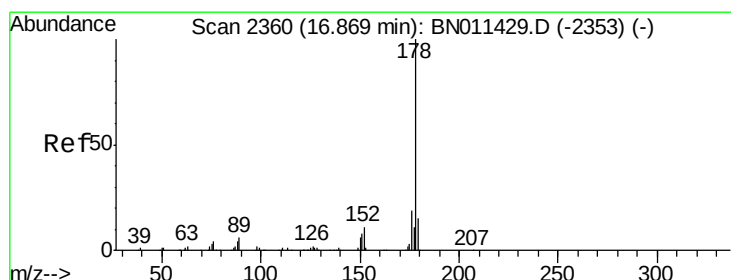
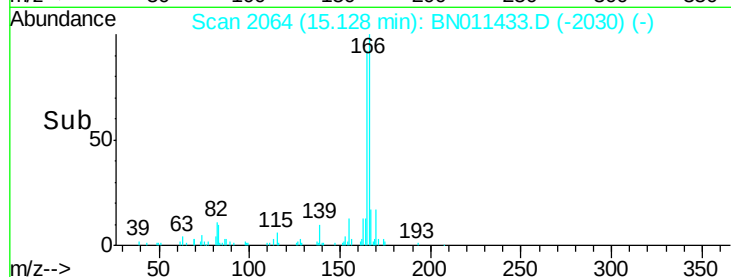
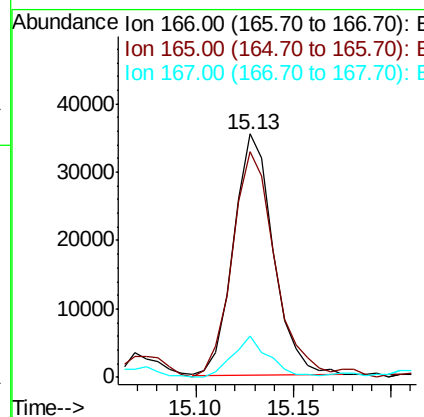
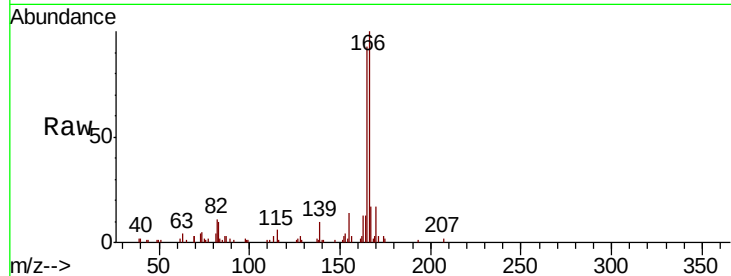
#59  
Fluorene  
Concen: 1.511 ng/ul  
RT: 15.13 min Scan# 2064  
Delta R.T. 0.00 min  
Lab File: BN011433.D  
Acq: 14 Aug 2020 19:24

Instrument :  
BNA\_N  
ClientSampleId :  
BFML8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 92.9  | 78.0  | 117.0 |
| 167     | 16.9  | 11.9  | 17.9  |

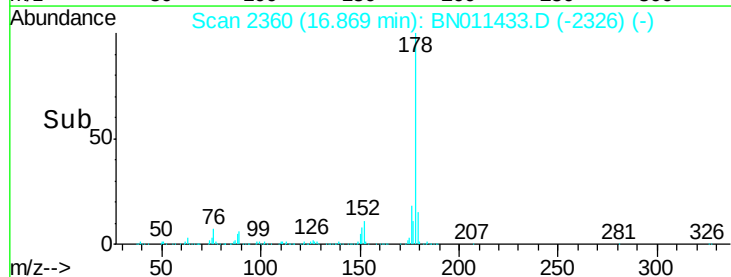
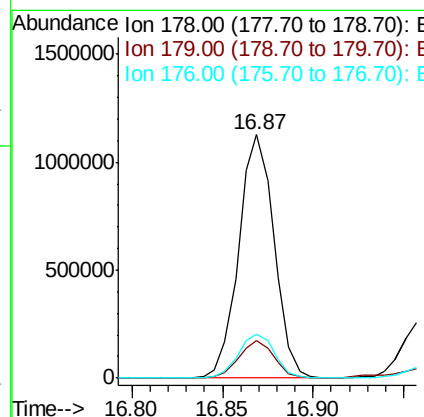
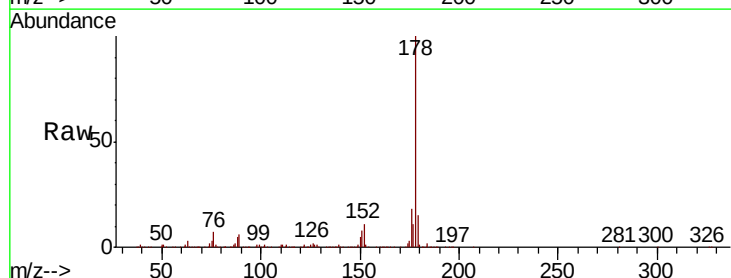
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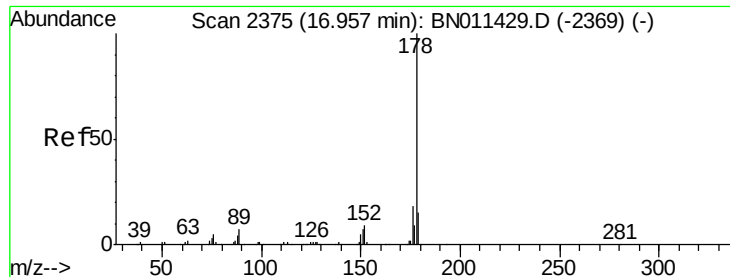
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#70  
Phenanthrene  
Concen: 29.612 ng/ul  
RT: 16.87 min Scan# 2360  
Delta R.T. 0.00 min  
Lab File: BN011433.D  
Acq: 14 Aug 2020 19:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.3  | 13.1  | 19.7  |
| 176     | 18.0  | 15.7  | 23.5  |





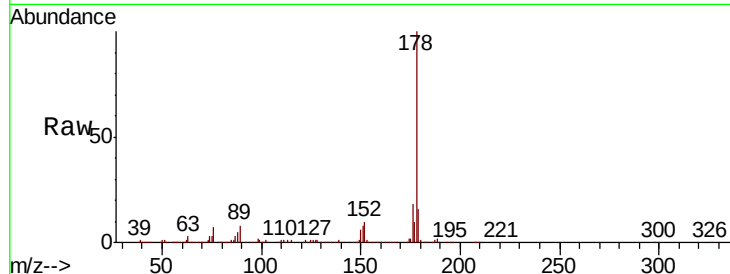
#72  
 Anthracene  
 Concen: 6.832 ng/ul  
 RT: 16.96 min Scan# 2375  
 Delta R.T. 0.00 min  
 Lab File: BN011433.D  
 Acq: 14 Aug 2020 19:24

Instrument :  
 BNA\_N  
 ClientSampled :  
 BFML8

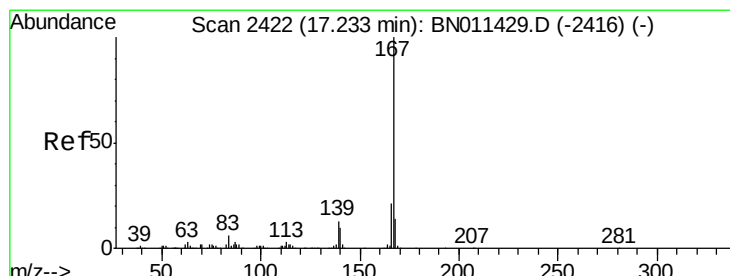
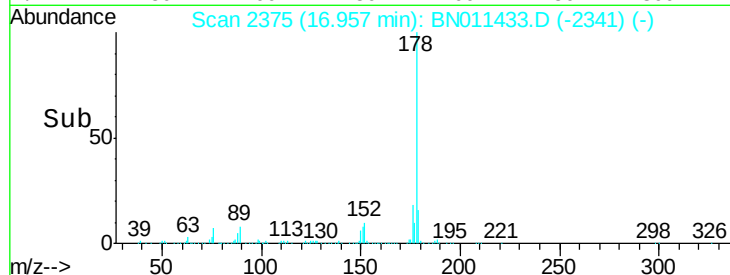
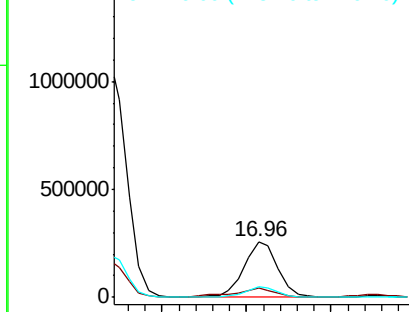
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 356455 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 16.5  | 13.0  | 19.4   |
| 176       | 18.1  | 14.6  | 21.8   |

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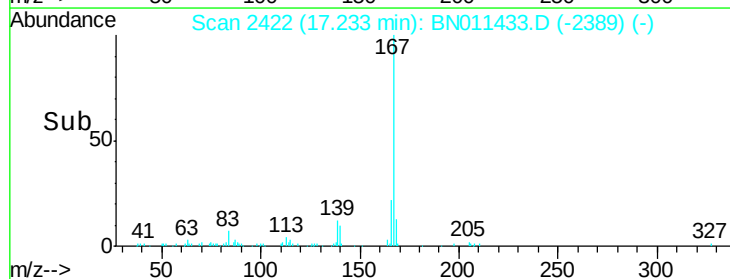
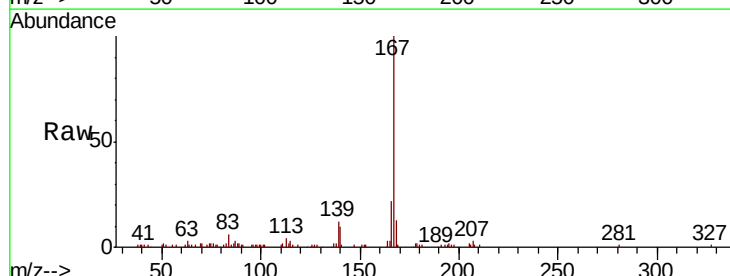
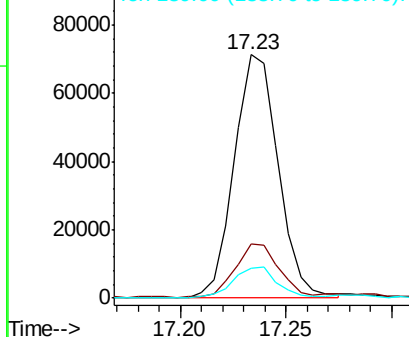
Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 179.00 (178.70 to 179.70): E  
 Ion 176.00 (175.70 to 176.70): E

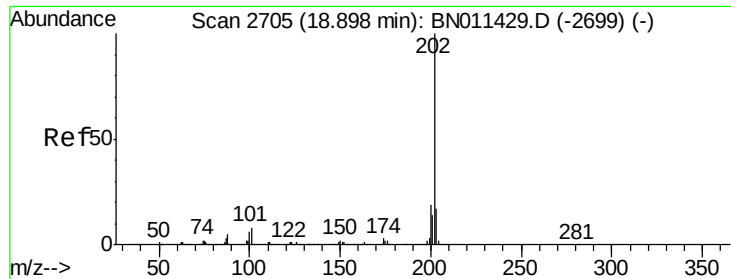


#75  
 Carbazole  
 Concen: 2.355 ng/ul  
 RT: 17.23 min Scan# 2422  
 Delta R.T. -0.01 min  
 Lab File: BN011433.D  
 Acq: 14 Aug 2020 19:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 103334 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 166       | 22.2  | 17.2  | 25.8   |
| 139       | 12.4  | 10.2  | 15.2   |

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





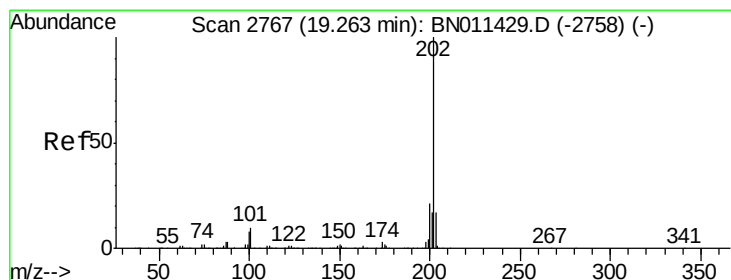
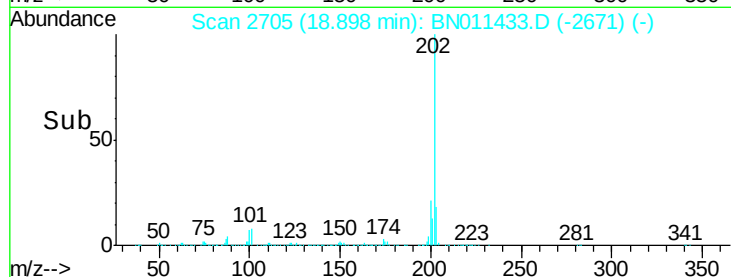
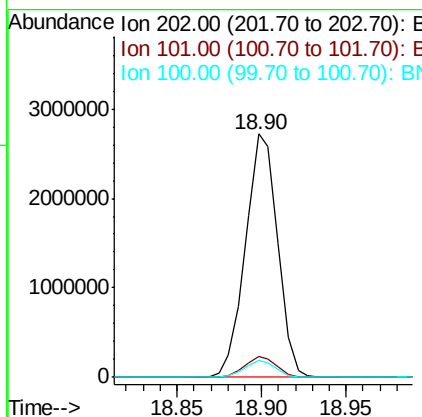
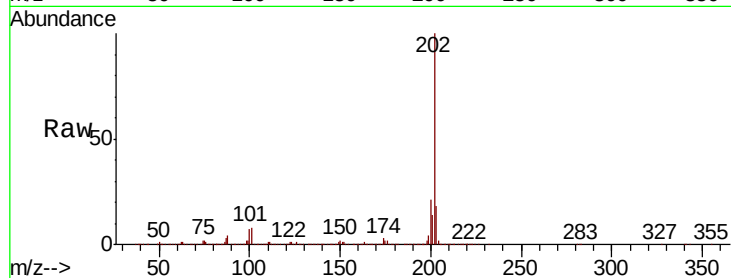
#77  
**Fluoranthene**  
 Concen: 57.349 ng/ul  
 RT: 18.90 min Scan# 2705  
 Delta R.T. 0.00 min  
 Lab File: BN011433.D  
 Acq: 14 Aug 2020 19:24

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BFML8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.4   | 7.3   | 10.9  |
| 100     | 6.8   | 5.2   | 7.8   |

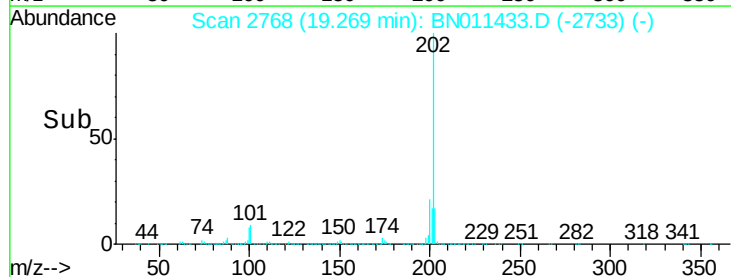
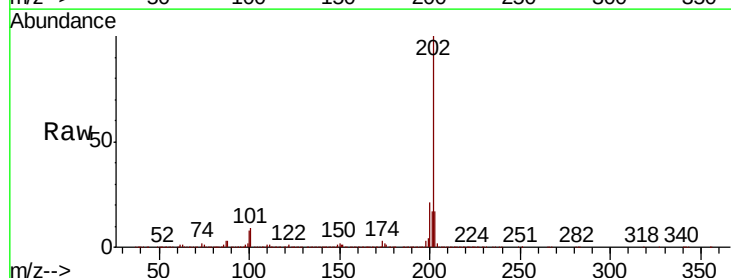
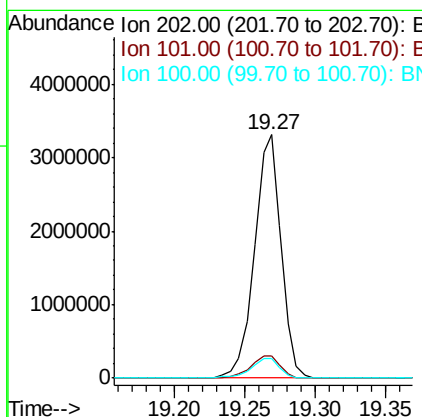
Manual Integrations  
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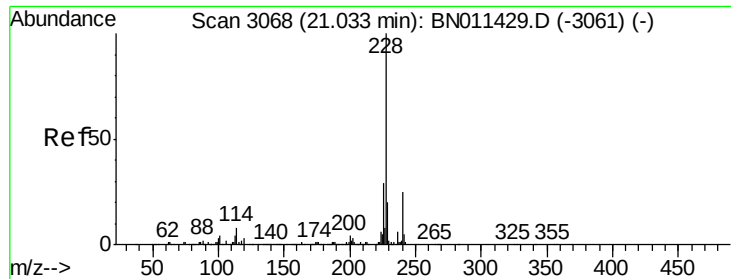
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 8/18/2020 1:48:00 PM



#80  
**Pyrene**  
 Concen: 70.388 ng/ul  
 RT: 19.27 min Scan# 2768  
 Delta R.T. 0.01 min  
 Lab File: BN011433.D  
 Acq: 14 Aug 2020 19:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.3   | 7.8   | 11.8  |
| 100     | 8.0   | 6.5   | 9.7   |





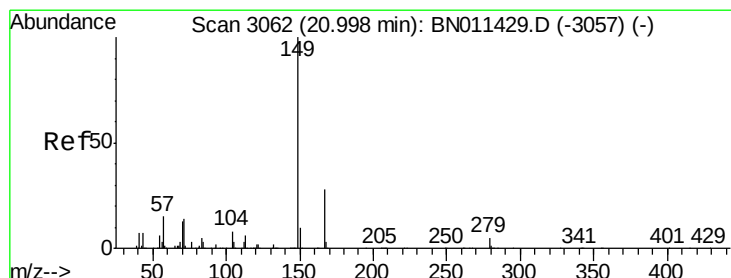
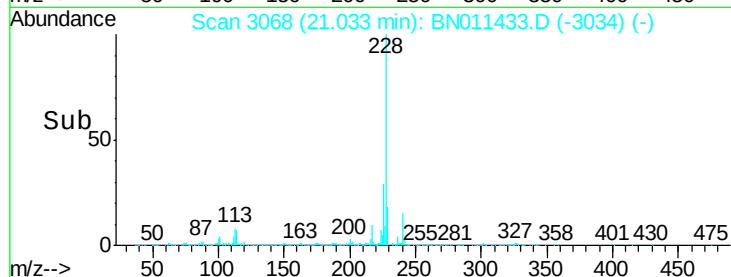
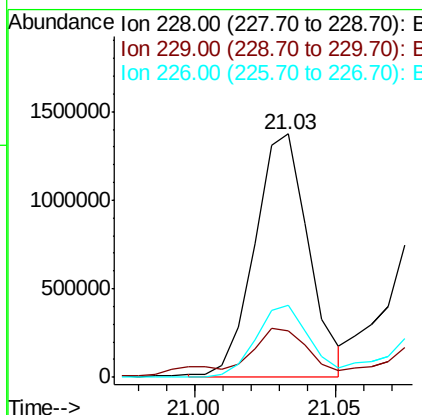
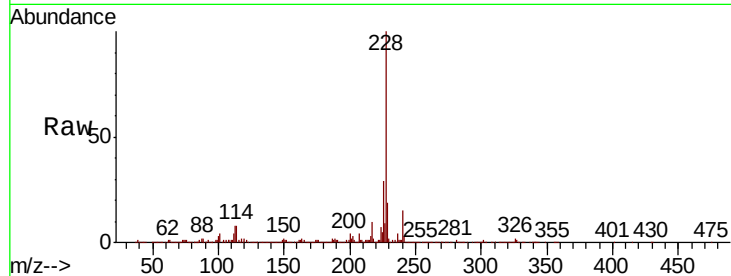
#83  
Benzo(a)anthracene  
Concen: 30.908 ng/ul  
RT: 21.03 min Scan# 3068  
Delta R.T. 0.00 min  
Lab File: BN011433.D  
Acq: 14 Aug 2020 19:24

Instrument :  
BNA\_N  
ClientSampled :  
BFML8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 18.9  | 15.0  | 22.4  |
| 226     | 29.3  | 21.5  | 32.3  |

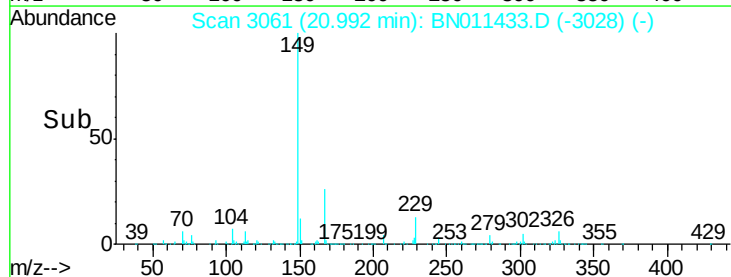
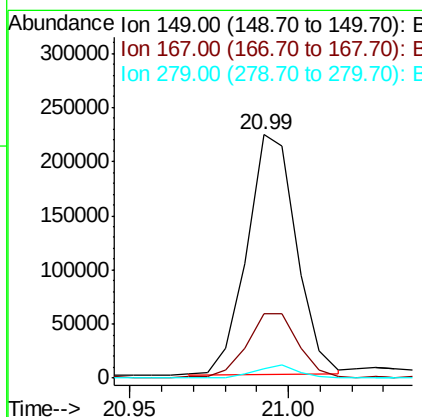
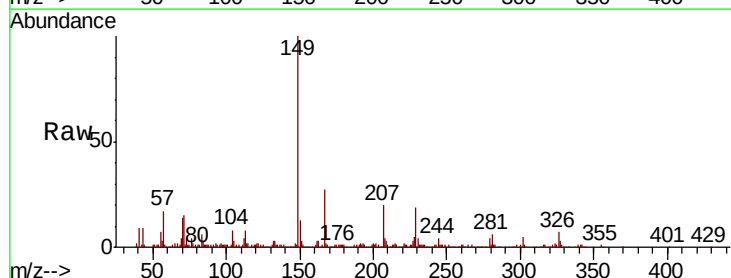
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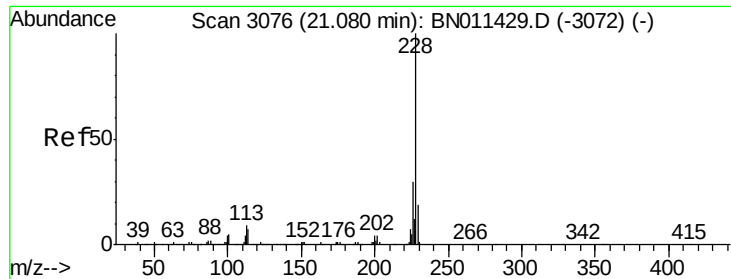


#84  
Bis(2-ethylhexyl)phthalate  
Concen: 7.592 ng/ul  
RT: 20.99 min Scan# 3061  
Delta R.T. -0.01 min  
Lab File: BN011433.D  
Acq: 14 Aug 2020 19:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.6  | 21.8  | 32.6  |
| 279     | 4.0   | 3.3   | 4.9   |







#85

Chrysene

Concen: 29.621 ng/ul

RT: 21.08 min Scan# 3076

Delta R.T. 0.00 min

Lab File: BN011433.D

Acq: 14 Aug 2020 19:24

Instrument :

BNA\_N

ClientSampled :

BFML8

Tot Ion:228 Resp: 1731607

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 28.9  | 23.5  | 35.3  |
| 229 | 21.2  | 15.0  | 22.6  |

228 100

226 28.9 23.5 35.3

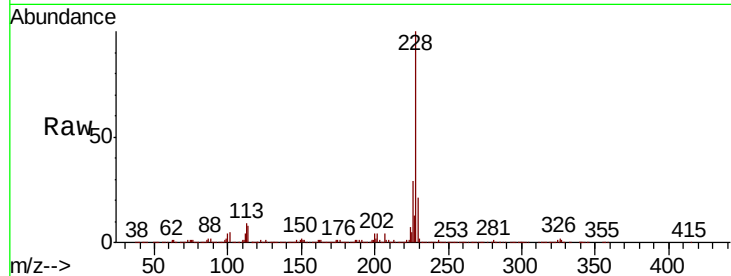
229 21.2 15.0 22.6

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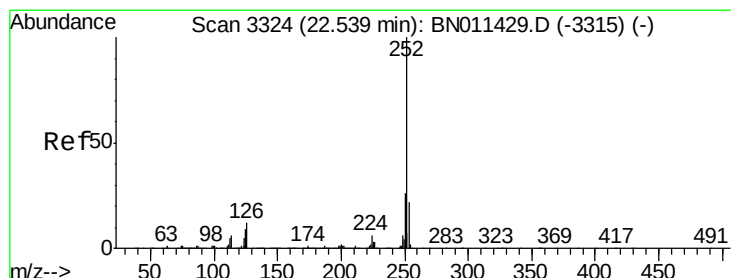
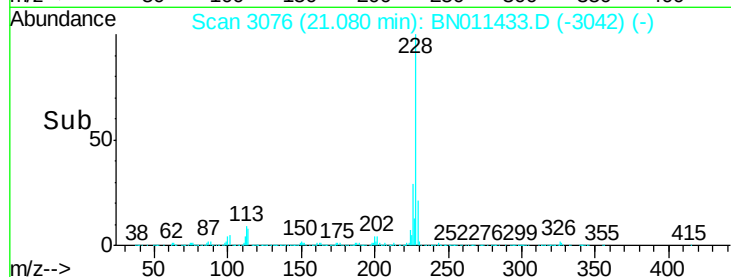
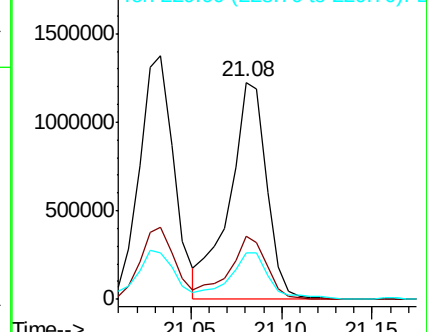


Abundance

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: 38.124 ng/ul

RT: 22.54 min Scan# 3324

Delta R.T. 0.00 min

Lab File: BN011433.D

Acq: 14 Aug 2020 19:24

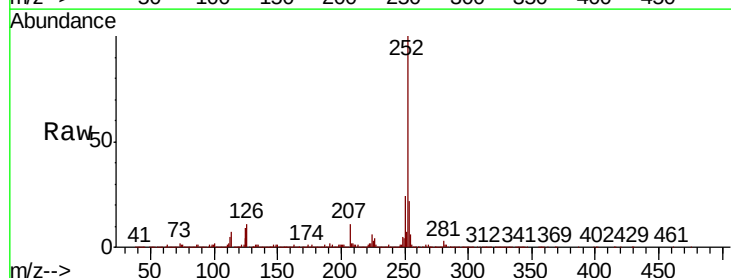
Tgt Ion:252 Resp: 2361678

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 21.7  | 17.2  | 25.8  |
| 125 | 8.8   | 6.6   | 9.8   |

252 100

253 21.7 17.2 25.8

125 8.8 6.6 9.8

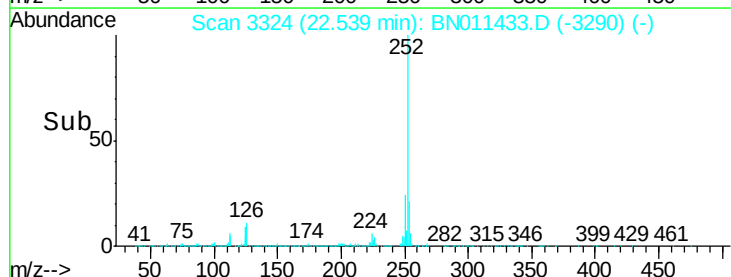
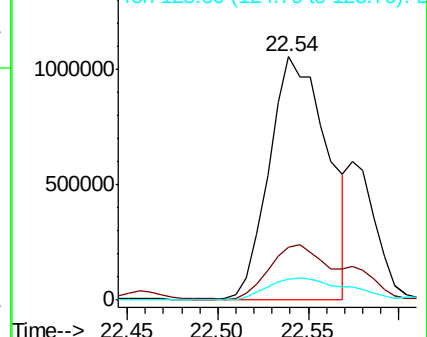


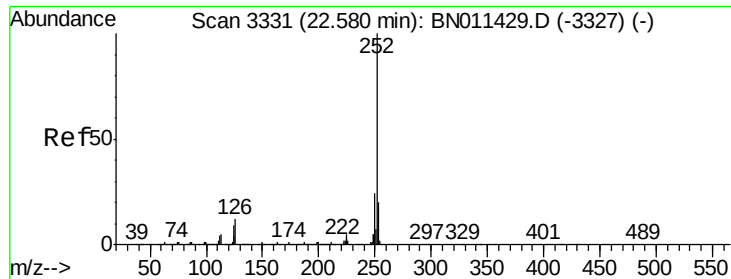
Abundance

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





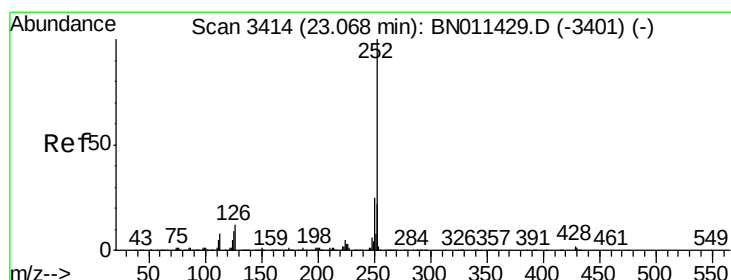
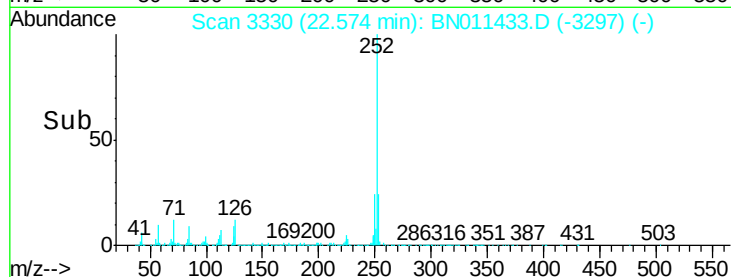
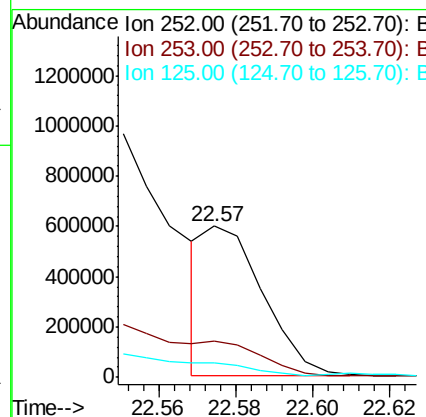
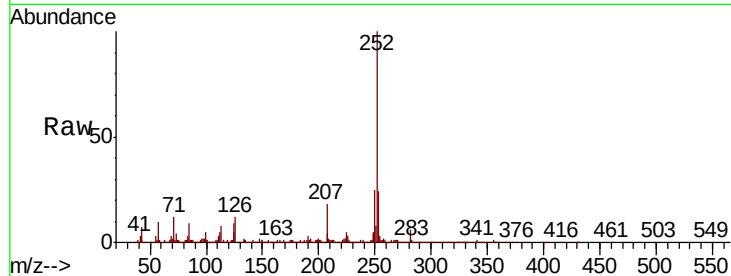
#89  
Benzo(k)fluoranthene  
Concen: 9.971 ng/ul m  
RT: 22.57 min Scan# 3330  
Delta R.T. -0.01 min  
Lab File: BN011433.D  
Acq: 14 Aug 2020 19:24

Instrument :  
BNA\_N  
ClientSampleId :  
BFML8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 15.8  | 23.6# |
| 125     | 9.5   | 6.0   | 9.0#  |

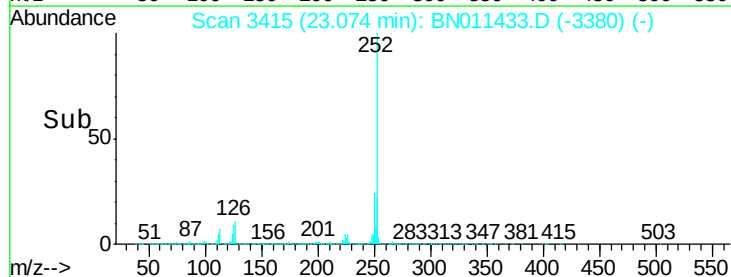
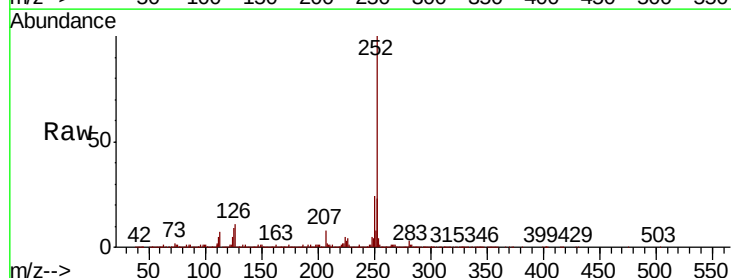
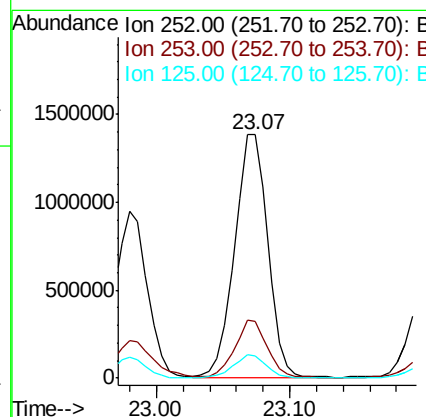
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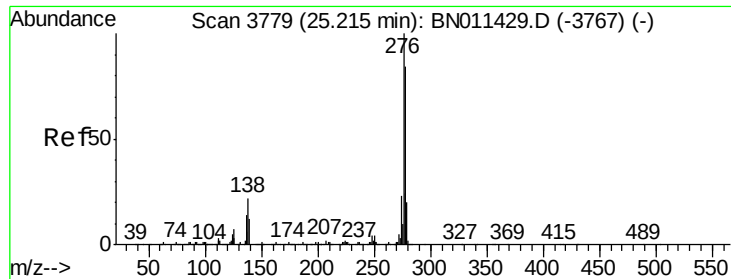
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#91  
Benzo(a)pyrene  
Concen: 41.588 ng/ul  
RT: 23.07 min Scan# 3415  
Delta R.T. 0.01 min  
Lab File: BN011433.D  
Acq: 14 Aug 2020 19:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 16.6  | 25.0  |
| 125     | 8.9   | 7.1   | 10.7  |





#92

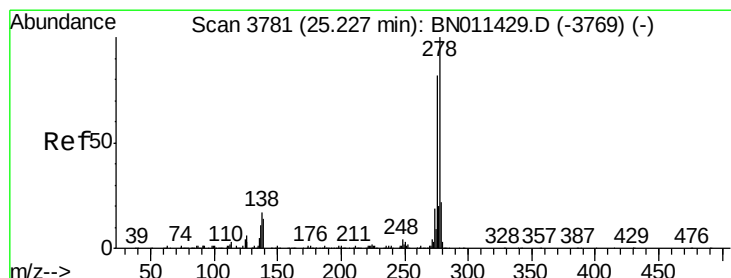
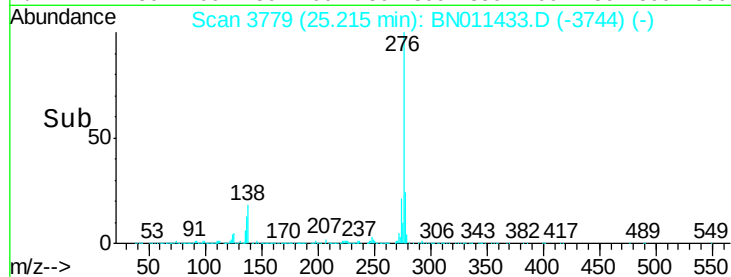
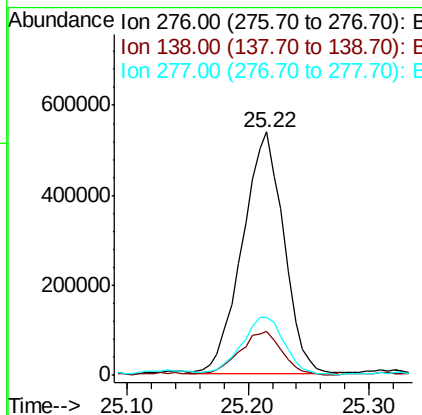
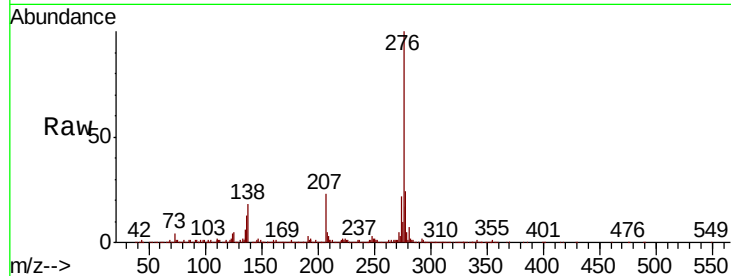
Indeno(1,2,3-cd)pyrene  
Concen: 17.564 ng/ul  
RT: 25.22 min Scan# 3779  
Delta R.T. 0.01 min  
Lab File: BN011433.D  
Acq: 14 Aug 2020 19:24

Instrument :  
BNA\_N  
ClientSampleId :  
BFML8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.2  | 17.0  | 25.4  |
| 277     | 23.8  | 18.1  | 27.1  |

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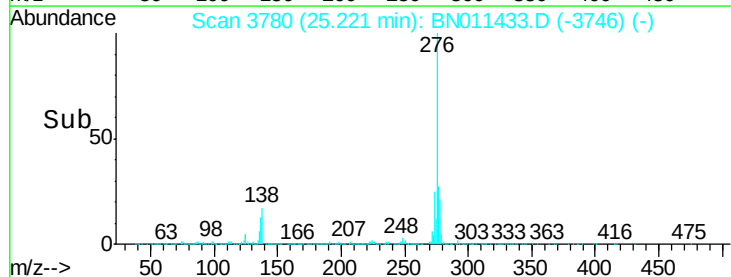
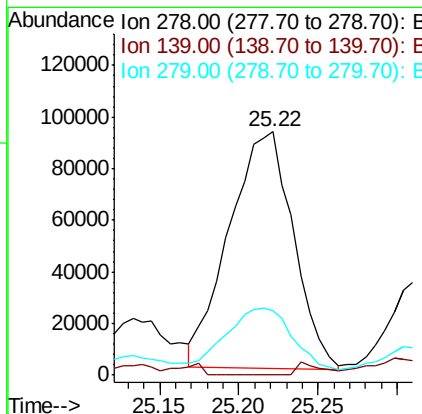
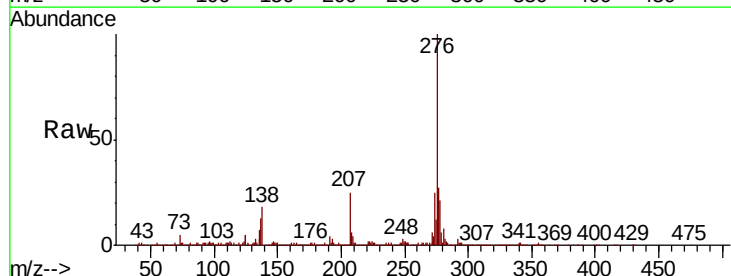
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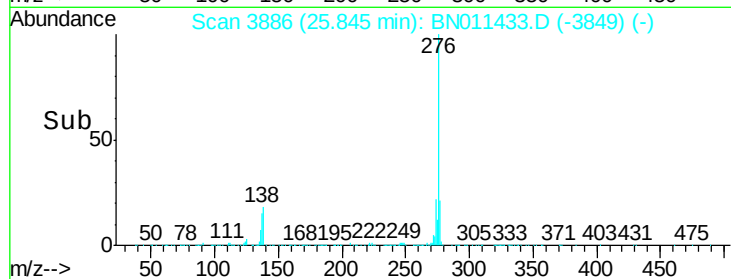
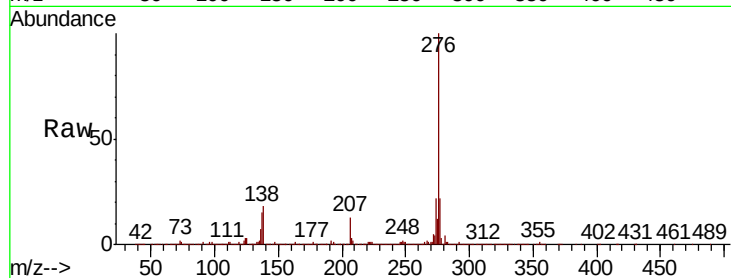
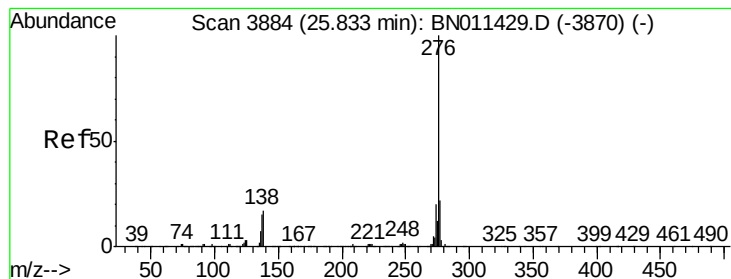


#93

Dibenzo(a,h)anthracene  
Concen: 4.209 ng/ul  
RT: 25.22 min Scan# 3780  
Delta R.T. 0.00 min  
Lab File: BN011433.D  
Acq: 14 Aug 2020 19:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 11.7  | 17.5# |
| 279     | 26.4  | 19.3  | 28.9  |





#94

Benzo(a,h,i)perylene

Concen: 40.420 ng/ul

RT: 25.84 min Scan# 3886

Delta R.T. 0.02 min

Lab File: BN011433.D

Acq: 14 Aug 2020 19:24

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 276   | Resp: | 2451357 |
| Ion Ratio | Lower | Upper |         |
| 276       | 100   |       |         |
| 138       | 17.9  | 15.3  | 22.9    |
| 277       | 21.8  | 16.2  | 24.4    |

Instrument :

BNA\_N

ClientSampleId :

BFML8

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