

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN042519\  
 Data File : BN005310.D  
 Acq On : 26 Apr 2019 08:46  
 Operator : JU/SJ  
 Sample : K2481-19  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampled :  
 GAHX2

Manual Integrations  
 APPROVED

Sohil  
 4/26/2019 6:22:10 PM

Quant Time: Apr 26 11:42:59 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  | 500037   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.36 | 136  | 2197761  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.23 | 164  | 1300148  | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.98 | 188  | 2909946  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.21 | 240  | 2602539  | 20.00 | ng/ul | -0.02    |
| 85) Perylene-d12          | 23.41 | 264  | 2385164  | 20.00 | ng/ul | -0.03    |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.22  | 96  | 28121   | 2.72  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.78  | 99  | 614924  | 15.66 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.94  | 67  | 379199  | 15.48 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.13  | 132 | 504624  | 16.79 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.29  | 113 | 444939  | 14.49 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.73  | 128 | 271128  | 20.04 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.45  | 143 | 303854  | 22.16 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 9.98  | 165 | 561831  | 17.87 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.49 | 131 | 429343  | 13.24 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.65 | 166 | 1838817 | 19.48 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 13.92 | 160 | 2256299 | 19.46 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.43 | 143 | 271571  | 18.22 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.23 | 176 | 1596778 | 20.16 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.35 | 200 | 195864  | 14.97 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.08 | 188 | 2485913 | 20.38 | ng/ul | 0.00  |
| 78) Pyrene-d10                 | 19.39 | 212 | 2842767 | 21.35 | ng/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.27 | 264 | 2163336 | 20.75 | ng/ul | -0.03 |

## Target Compounds

|                            |       |     |         |        | Qvalue |    |
|----------------------------|-------|-----|---------|--------|--------|----|
| 44) Dimethylphthalate      | 13.69 | 163 | 367473  | 3.908  | ng/ul  | 99 |
| 47) Acenaphthylene         | 13.95 | 152 | 1919894 | 16.853 | ng/ul  | 99 |
| 58) Fluorene               | 15.30 | 166 | 109031  | 1.248  | ng/ul# | 60 |
| 71) Anthracene             | 17.12 | 178 | 969261  | 6.714  | ng/ul  | 99 |
| 76) Fluoranthene           | 19.05 | 202 | 442602  | 2.816  | ng/ul  | 99 |
| 79) Pyrene                 | 19.42 | 202 | 1342041 | 8.009  | ng/ul  | 99 |
| 82) Benzo(a)anthracene     | 21.20 | 228 | 904630  | 5.587  | ng/ul# | 68 |
| 84) Chrysene               | 21.25 | 228 | 482181m | 3.209  | ng/ul  |    |
| 87) Benzo(b)fluoranthene   | 22.76 | 252 | 1761861 | 13.141 | ng/ul  | 98 |
| 88) Benzo(k)fluoranthene   | 22.80 | 252 | 623147m | 4.866  | ng/ul  |    |
| 90) Benzo(a)pyrene         | 23.32 | 252 | 1596966 | 12.672 | ng/ul  | 98 |
| 91) Indeno(1,2,3-cd)pyrene | 25.59 | 276 | 946373  | 6.792  | ng/ul  | 97 |
| 92) Dibenzo(a,h)anthracene | 25.59 | 278 | 310201  | 2.623  | ng/ul  | 94 |
| 93) Benzo(g,h,i)perylene   | 26.25 | 276 | 647842  | 5.623  | ng/ul  | 97 |

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

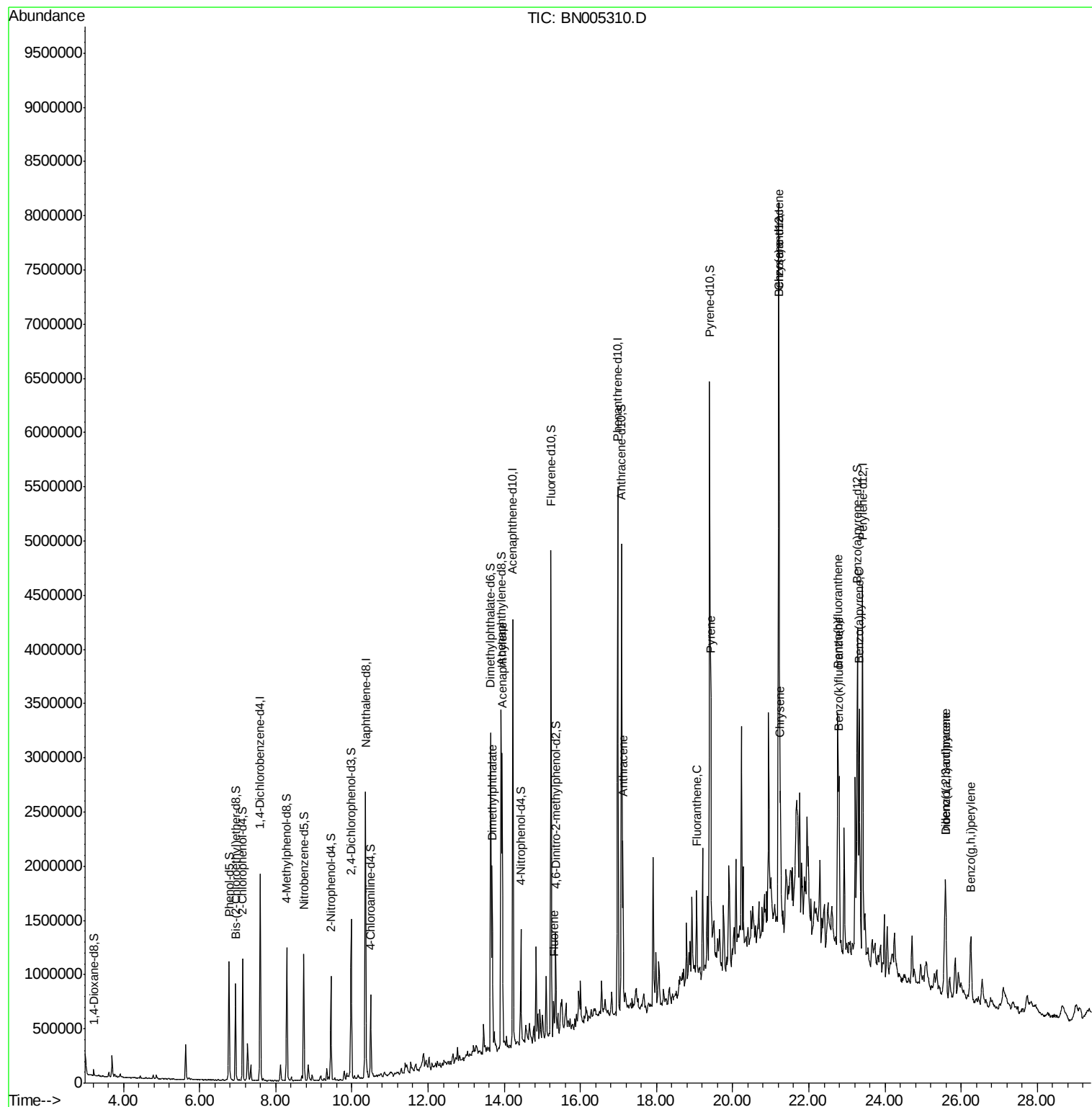
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN042519\  
Data File : BN005310.D  
Acq On : 26 Apr 2019 08:46  
Operator : JU/SJ  
Sample : K2481-19  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

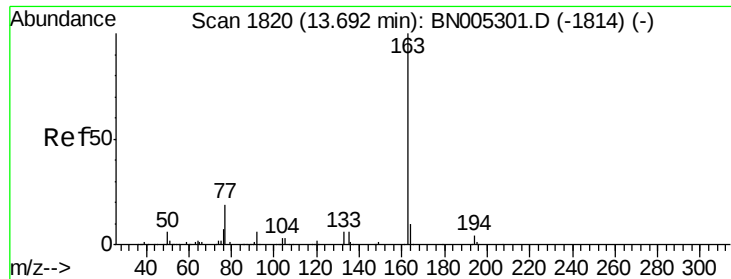
Instrument :  
BNA\_N  
ClientSampleID :  
GAHX2

Quant Time: Apr 26 11:42:59 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

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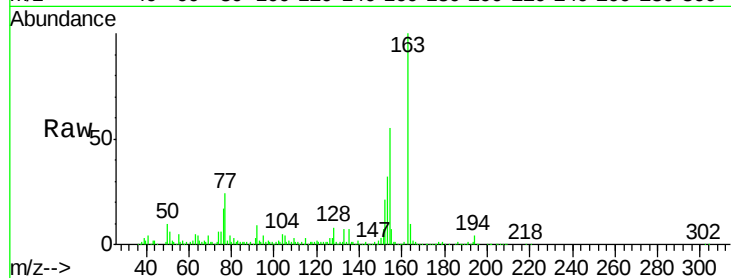
#44  
Dimethylphthalate  
Concen: 3.908 ng/ul  
RT: 13.69 min Scan# 1820  
Delta R.T. -0.01 min  
Lab File: BN005310.D  
Acq: 26 Apr 2019 08:46

Instrument :  
BNA\_N  
ClientSampleId :  
GAHX2

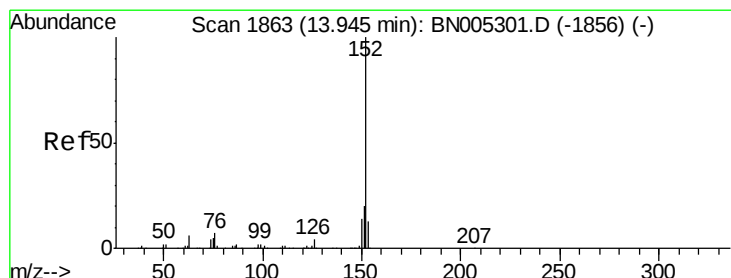
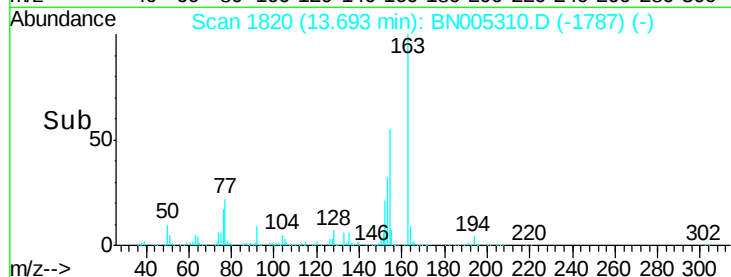
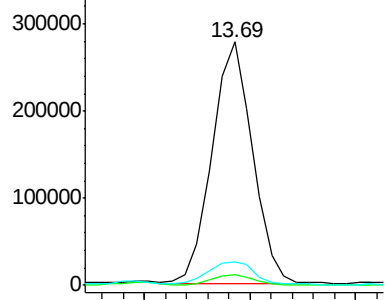
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 367473 |       |       |
| 194     | 4.4   | 3.4    | 5.0   |       |
| 164     | 9.7   | 8.1    | 12.1  |       |

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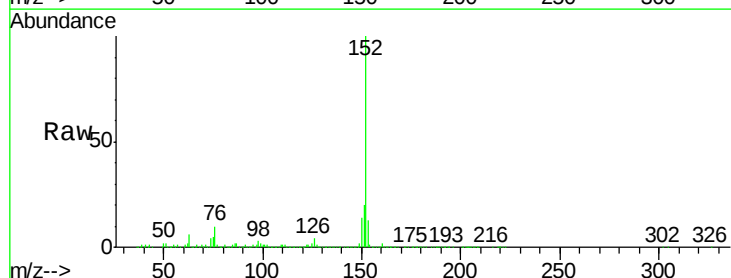


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

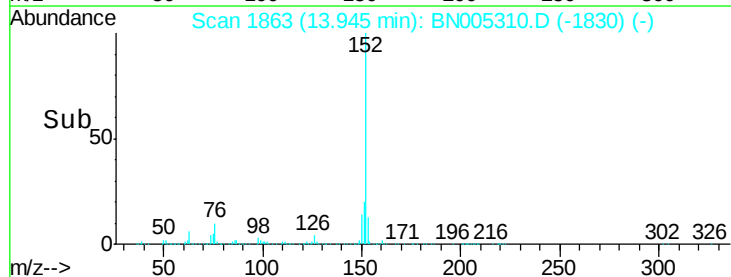
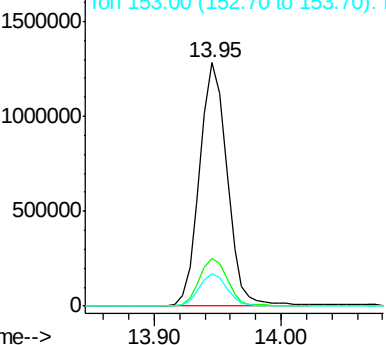


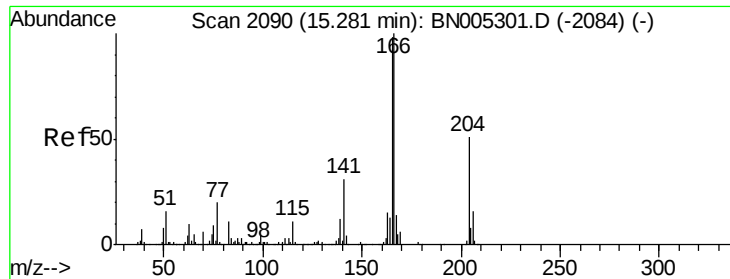
#47  
Acenaphthylene  
Concen: 16.853 ng/ul  
RT: 13.95 min Scan# 1863  
Delta R.T. -0.01 min  
Lab File: BN005310.D  
Acq: 26 Apr 2019 08:46

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 152     | 100   | 1919894 |       |       |
| 151     | 19.8  | 15.8    | 23.8  |       |
| 153     | 13.1  | 9.8     | 14.8  |       |



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





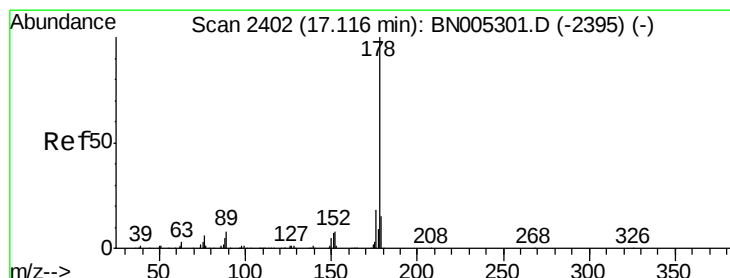
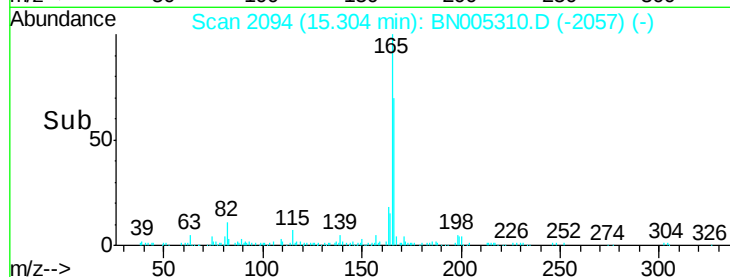
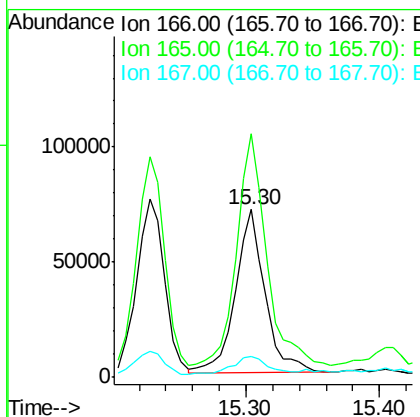
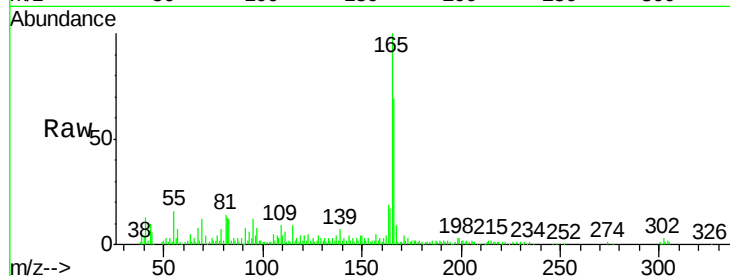
#58  
 Fluorene  
 Concen: 1.248 ng/ul  
 RT: 15.30 min Scan# 2094  
 Delta R.T. 0.02 min  
 Lab File: BN005310.D  
 Acq: 26 Apr 2019 08:46

Instrument :  
 BNA\_N  
 ClientSampled :  
 GAHX2

| Tgt Ion | Ratio | Resp   | Lower  | Upper |
|---------|-------|--------|--------|-------|
| 166     | 100   | 109031 |        |       |
| 165     | 145.2 | 80.0   | 120.0# |       |
| 167     | 12.7  | 10.7   | 16.1   |       |

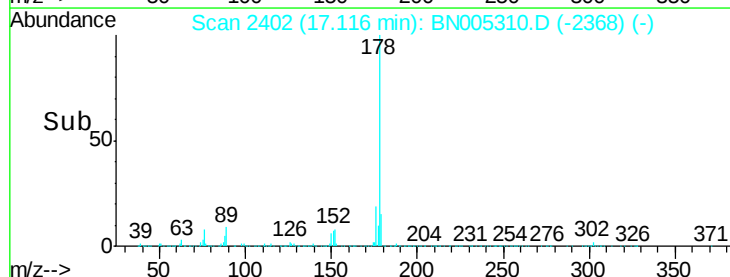
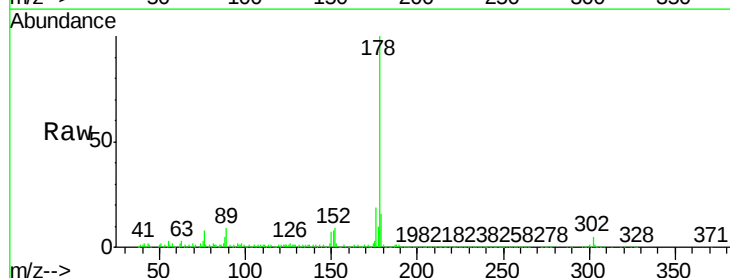
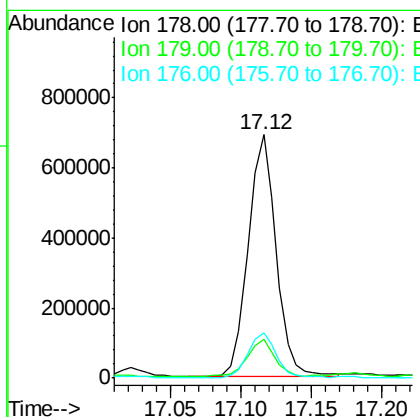
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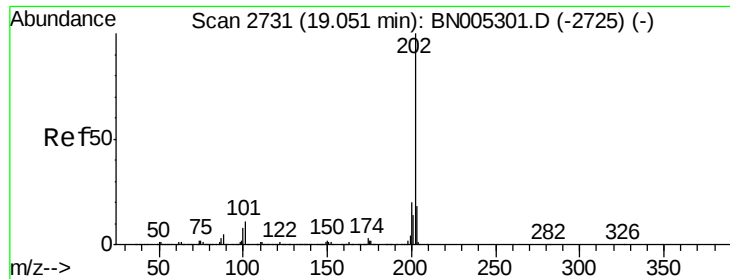
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#71  
 Anthracene  
 Concen: 6.714 ng/ul  
 RT: 17.12 min Scan# 2402  
 Delta R.T. 0.00 min  
 Lab File: BN005310.D  
 Acq: 26 Apr 2019 08:46

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 969261 |       |       |
| 179     | 15.9  | 12.3   | 18.5  |       |
| 176     | 18.7  | 15.1   | 22.7  |       |





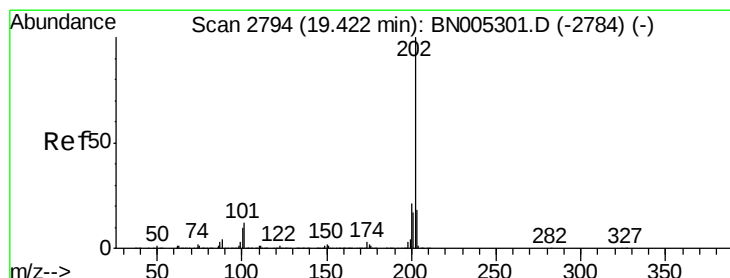
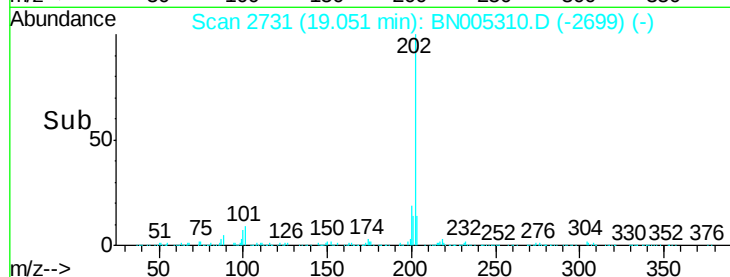
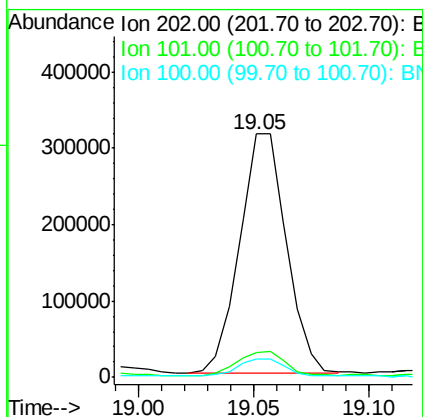
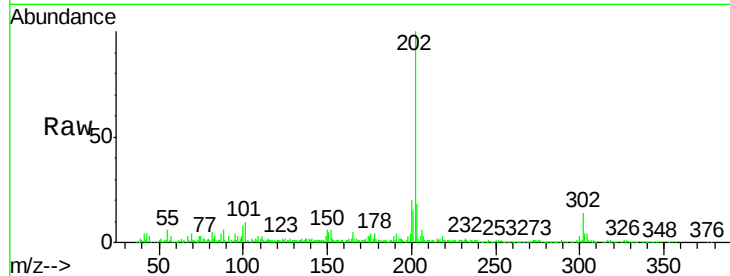
#76  
 Fluoranthene  
 Concen: 2.816 ng/ul  
 RT: 19.05 min Scan# 2731  
 Delta R.T. -0.01 min  
 Lab File: BN005310.D  
 Acq: 26 Apr 2019 08:46

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAHX2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 442602 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.2  | 8.6   | 12.8   |
| 100       | 7.6   | 6.3   | 9.5    |

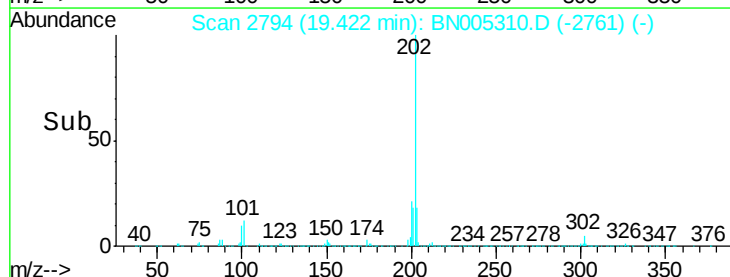
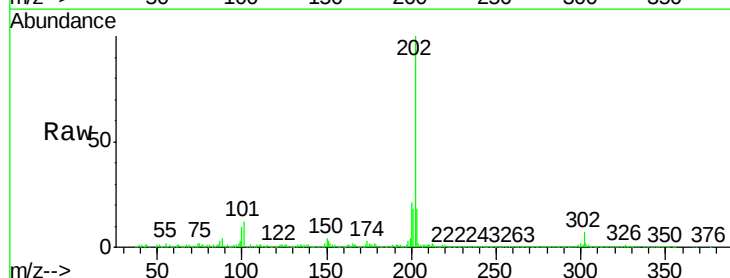
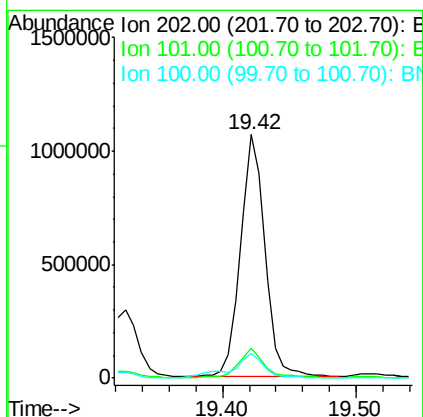
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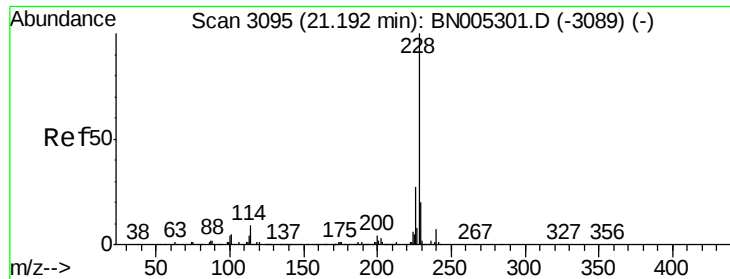
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#79  
 Pyrene  
 Concen: 8.009 ng/ul  
 RT: 19.42 min Scan# 2794  
 Delta R.T. -0.01 min  
 Lab File: BN005310.D  
 Acq: 26 Apr 2019 08:46

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1342041 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 12.2  | 10.3  | 15.5    |
| 100       | 9.9   | 7.9   | 11.9    |





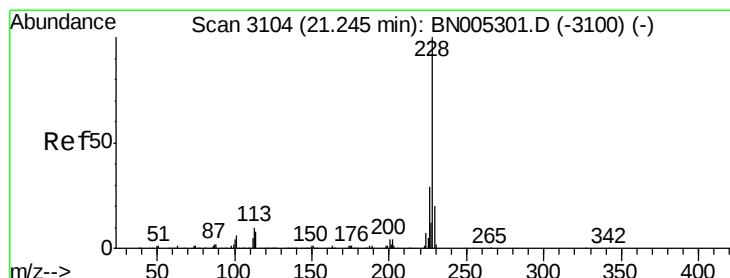
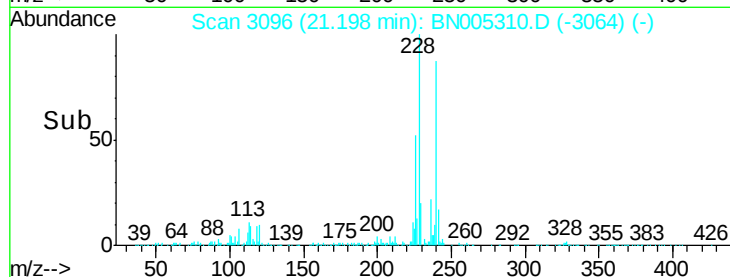
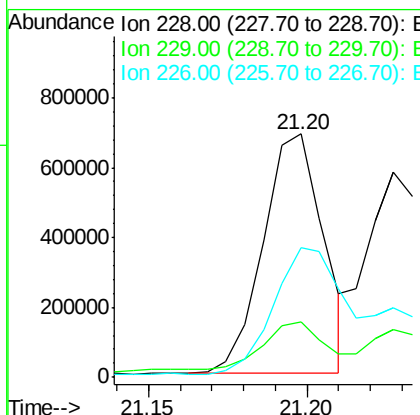
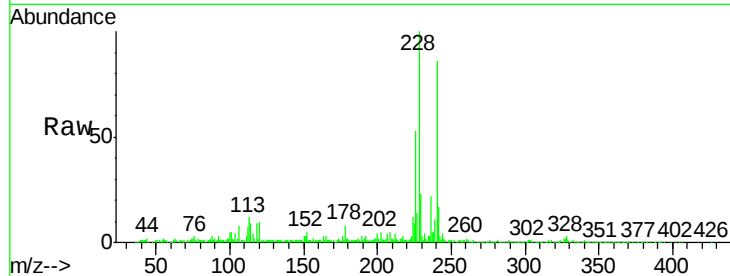
#82  
Benzo(a)anthracene  
Concen: 5.587 ng/ul  
RT: 21.20 min Scan# 3096  
Delta R.T. -0.01 min  
Lab File: BN005310.D  
Acq: 26 Apr 2019 08:46

Instrument :  
BNA\_N  
ClientSampleId :  
GAHX2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.7  | 15.8  | 23.6  |
| 226     | 53.1  | 21.4  | 32.2  |

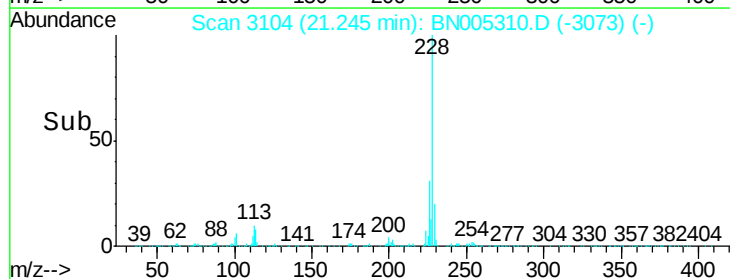
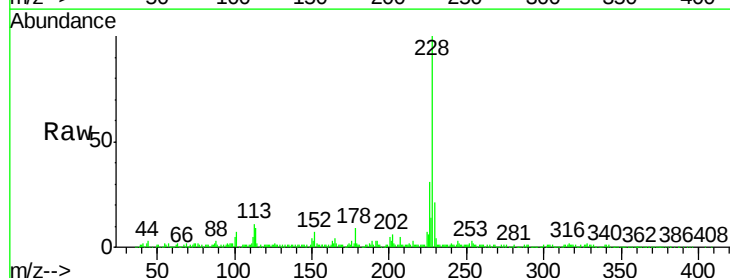
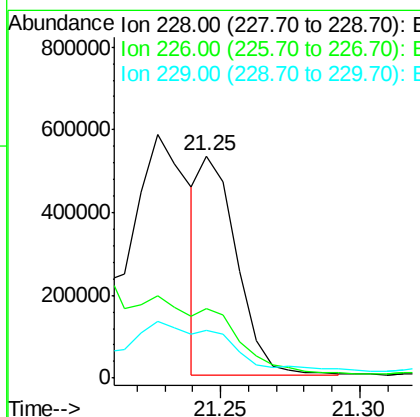
Manual Integrations  
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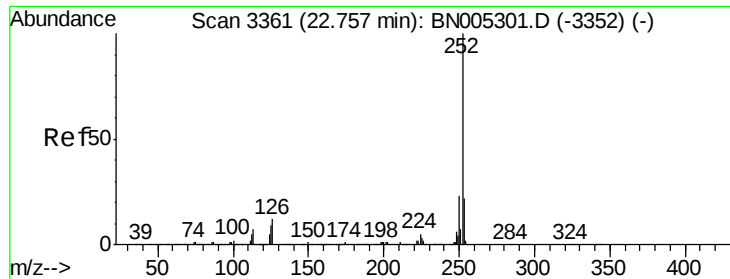
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#84  
Chrysene  
Concen: 3.209 ng/ul m  
RT: 21.25 min Scan# 3104  
Delta R.T. -0.02 min  
Lab File: BN005310.D  
Acq: 26 Apr 2019 08:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.2  | 24.0  | 36.0  |
| 229     | 21.5  | 15.4  | 23.0  |





#87

Benzo(b)fluoranthene

Concen: 13.141 ng/ul

RT: 22.76 min Scan# 3362

Delta R.T. -0.02 min

Lab File: BN005310.D

Acq: 26 Apr 2019 08:46

Instrument :

BNA\_N

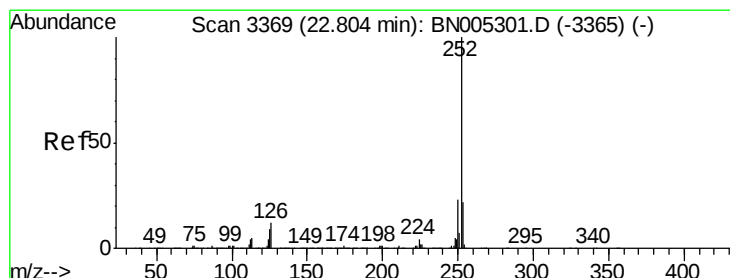
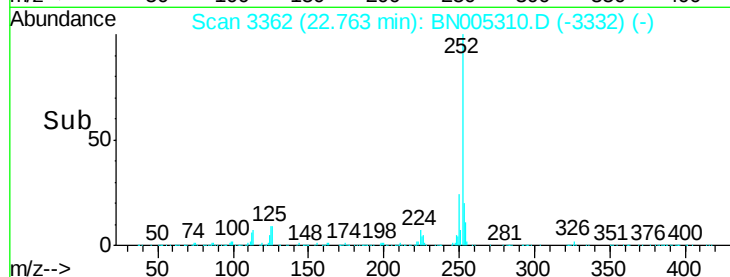
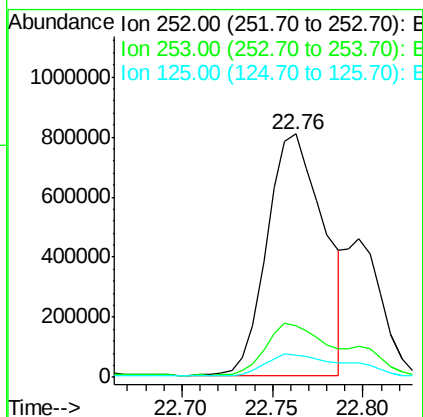
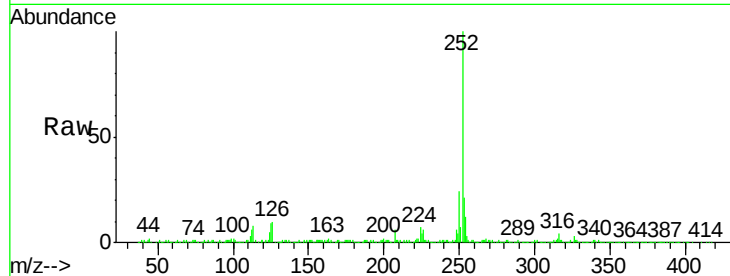
ClientSampled :

GAHX2

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 1761861 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 21.3  | 17.7  | 26.5    |
| 125       | 9.4   | 8.4   | 12.6    |

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#88

Benzo(k)fluoranthene

Concen: 4.866 ng/ul m

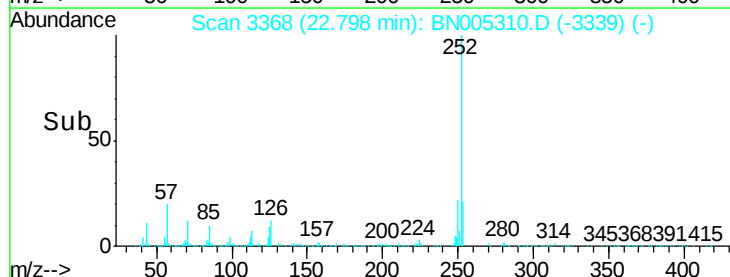
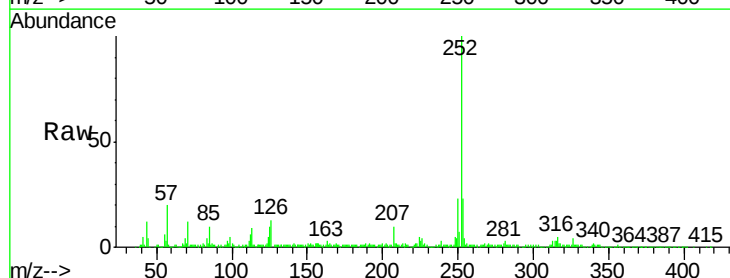
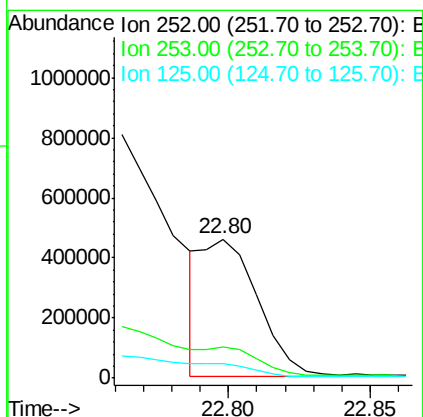
RT: 22.80 min Scan# 3368

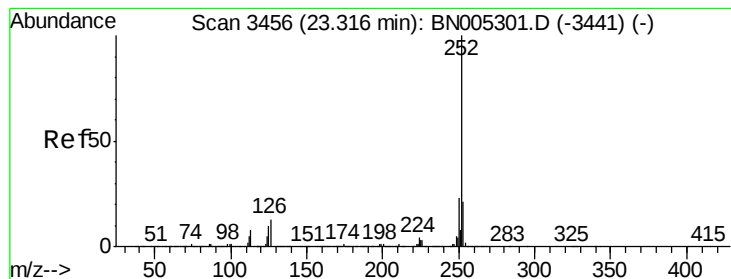
Delta R.T. -0.03 min

Lab File: BN005310.D

Acq: 26 Apr 2019 08:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 623147 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.5  | 17.4  | 26.0   |
| 125       | 10.3  | 7.5   | 11.3   |





#90

Benzo(a)pyrene

Concen: 12.672 ng/ul

RT: 23.32 min Scan# 3456

Delta R.T. -0.03 min

Lab File: BN005310.D

Acq: 26 Apr 2019 08:46

Instrument :

BNA\_N

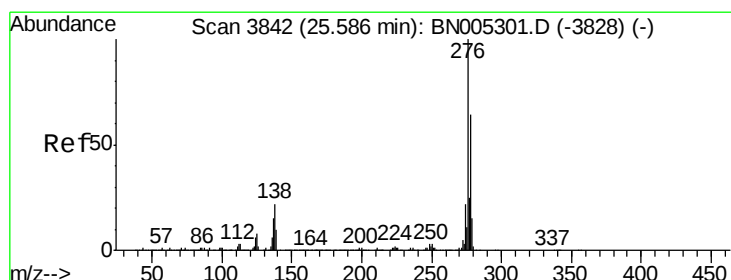
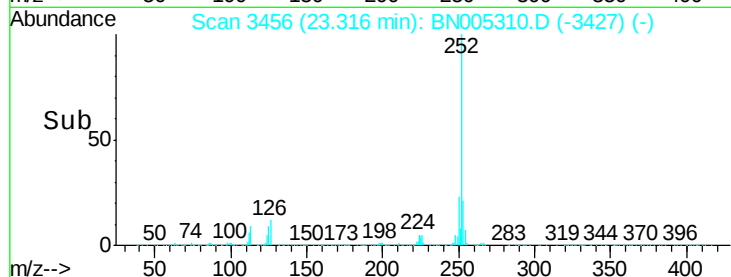
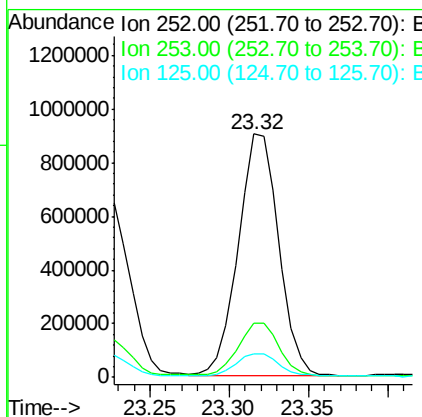
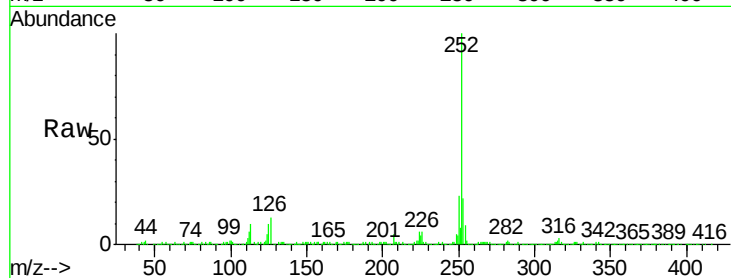
ClientSampleId :

GAHX2

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 1596966 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 22.2  | 17.3  | 25.9    |
| 125       | 9.8   | 8.6   | 13.0    |

Manual Integrations  
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#91

Indeno(1,2,3-cd)pyrene

Concen: 6.792 ng/ul

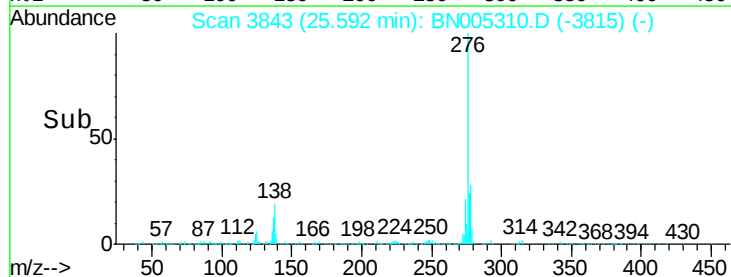
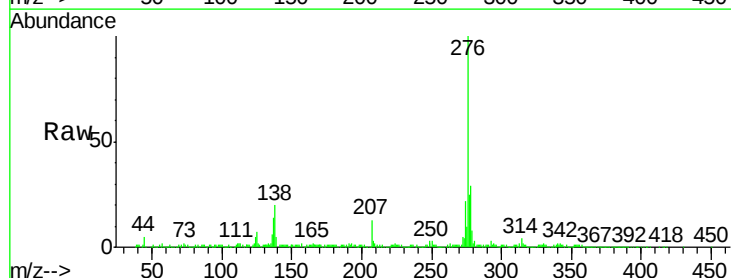
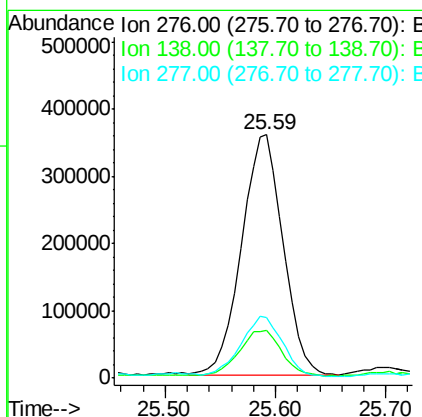
RT: 25.59 min Scan# 3843

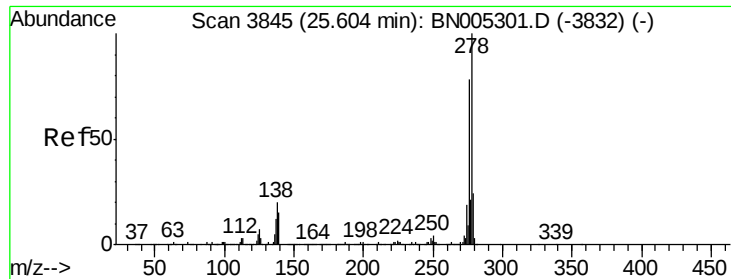
Delta R.T. -0.03 min

Lab File: BN005310.D

Acq: 26 Apr 2019 08:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 946373 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 19.7  | 17.9  | 26.9   |
| 277       | 24.8  | 19.7  | 29.5   |





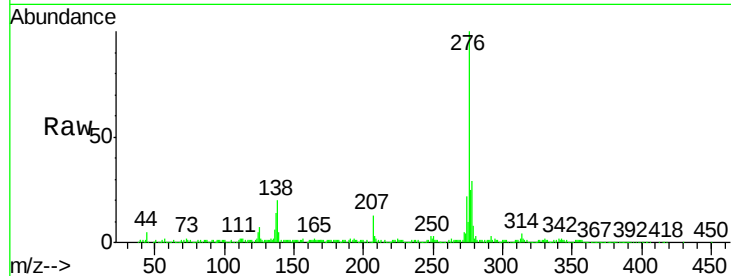
#92  
Dibenzo(a,h)anthracene  
Concen: 2.623 ng/ul  
RT: 25.59 min Scan# 3843  
Delta R.T. -0.05 min  
Lab File: BN005310.D  
Acq: 26 Apr 2019 08:46

Instrument :  
BNA\_N  
ClientSampled :  
GAHX2

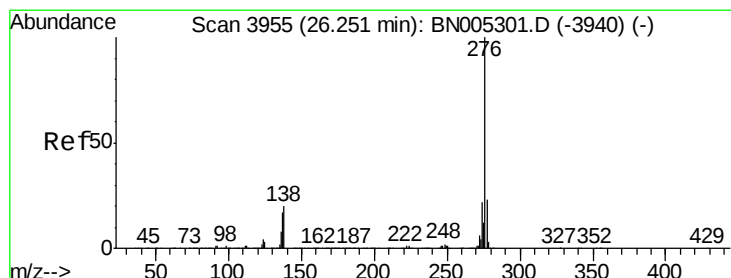
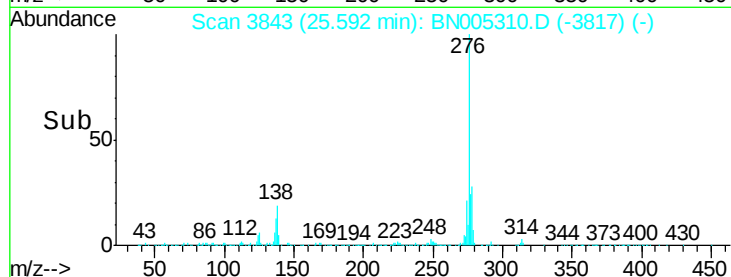
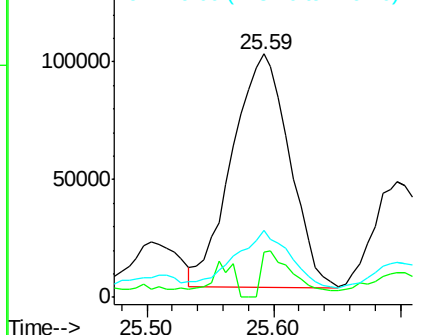
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 278   | Resp: | 310201 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 18.7  | 13.1  | 19.7   |
| 279       | 27.3  | 19.4  | 29.0   |

Manual Integrations  
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4/26/2019 6:22:10 PM



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(g,h,i)perylene  
Concen: 5.623 ng/ul  
RT: 26.25 min Scan# 3955  
Delta R.T. -0.04 min  
Lab File: BN005310.D  
Acq: 26 Apr 2019 08:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 647842 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 19.0  | 16.7  | 25.1   |
| 277       | 23.6  | 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

