

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN042519\  
 Data File : BN005305.D  
 Acq On : 26 Apr 2019 05:54  
 Operator : JU/SJ  
 Sample : K2481-03 10X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampled :  
 GAHT8

Manual Integrations  
 APPROVED

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 4/26/2019 6:21:58 PM

Quant Time: Apr 26 07:11:36 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  | 470626   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.35 | 136  | 1987999  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.23 | 164  | 1187461  | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.98 | 188  | 2728330  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.21 | 240  | 2736499  | 20.00 | ng/ul | -0.02    |
| 85) Perylene-d12          | 23.42 | 264  | 2709624  | 20.00 | ng/ul | -0.02    |

## System Monitoring Compounds

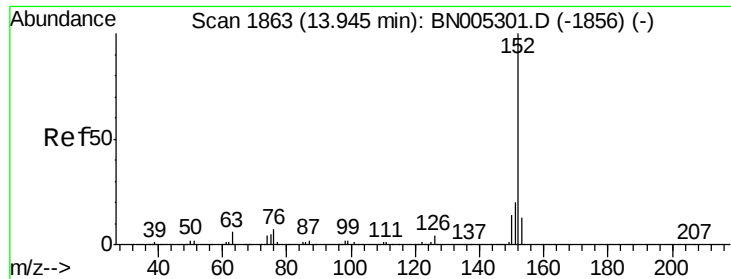
|                                |       |     |        |      |       |       |
|--------------------------------|-------|-----|--------|------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.22  | 96  | 4020   | 0.41 | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.78  | 99  | 88292  | 2.39 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.94  | 67  | 54584  | 2.37 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.13  | 132 | 68534  | 2.42 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.29  | 113 | 71718  | 2.48 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.73  | 128 | 35945  | 2.94 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.45  | 143 | 36602  | 2.95 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 9.98  | 165 | 71278  | 2.51 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.50 | 131 | 29420  | 1.00 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.64 | 166 | 242437 | 2.81 | ng/ul | -0.01 |
| 46) Acenaphthylene-d8          | 13.92 | 160 | 291151 | 2.75 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.43 | 143 | 31061m | 2.28 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.22 | 176 | 217163 | 3.00 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.35 | 200 | 19624  | 1.60 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.07 | 188 | 338269 | 2.96 | ng/ul | -0.01 |
| 78) Pyrene-d10                 | 19.39 | 212 | 378012 | 2.70 | ng/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.27 | 264 | 333567 | 2.82 | ng/ul | -0.03 |

## Target Compounds

|                            |       |     |         |              | Qvalue |
|----------------------------|-------|-----|---------|--------------|--------|
| 47) Acenaphthylene         | 13.95 | 152 | 275633  | 2.649 ng/ul  | 98     |
| 69) Phenanthrene           | 17.02 | 178 | 510080  | 3.839 ng/ul  | 99     |
| 71) Anthracene             | 17.11 | 178 | 185862  | 1.373 ng/ul  | 98     |
| 76) Fluoranthene           | 19.05 | 202 | 681977  | 4.627 ng/ul  | 99     |
| 79) Pyrene                 | 19.42 | 202 | 1034636 | 5.872 ng/ul  | 98     |
| 82) Benzo(a)anthracene     | 21.20 | 228 | 429556m | 2.523 ng/ul  |        |
| 84) Chrysene               | 21.25 | 228 | 483328  | 3.059 ng/ul  | 97     |
| 87) Benzo(b)fluoranthene   | 22.76 | 252 | 818915  | 5.376 ng/ul  | 98     |
| 88) Benzo(k)fluoranthene   | 22.80 | 252 | 234014m | 1.609 ng/ul  |        |
| 90) Benzo(a)pyrene         | 23.32 | 252 | 344431  | 2.406 ng/ul  | 96     |
| 91) Indeno(1,2,3-cd)pyrene | 25.59 | 276 | 477046  | 3.014 ng/ul# | 95     |
| 92) Dibenzo(a,h)anthracene | 25.60 | 278 | 136016  | 1.013 ng/ul# | 89     |
| 93) Benzo(g,h,i)perylene   | 26.24 | 276 | 413705  | 3.161 ng/ul  | 97     |

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





#47

Acenaphthylene

Concen: 2.649 ng/ul

RT: 13.95 min Scan# 1863

Delta R.T. -0.01 min

Lab File: BN005305.D

Acq: 26 Apr 2019 05:54

Instrument :

BNA\_N

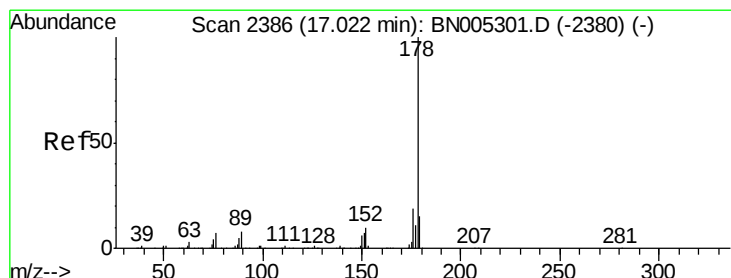
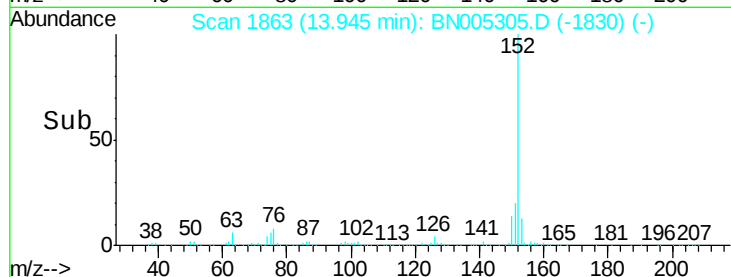
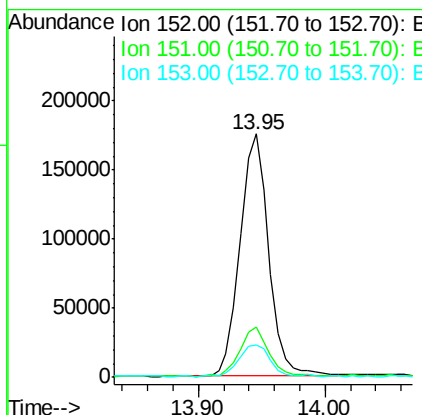
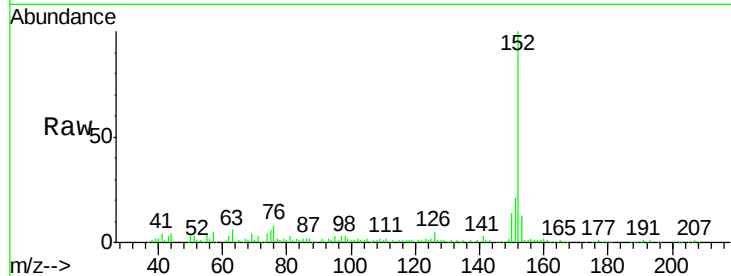
ClientSampleId :

GAHT8

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 152  | Resp: | 275633 |
| Ion Ratio |      | Lower | Upper  |
| 152       | 100  |       |        |
| 151       | 20.7 | 15.8  | 23.8   |
| 153       | 13.3 | 9.8   | 14.8   |

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#69

Phenanthrene

Concen: 3.839 ng/ul

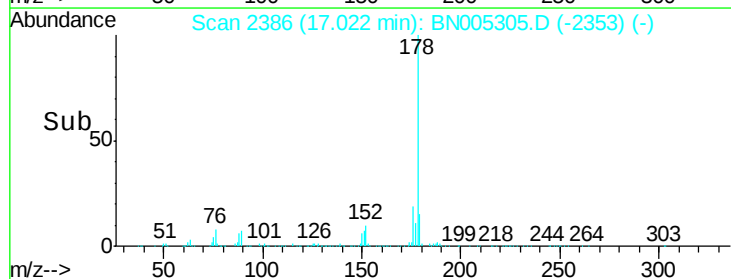
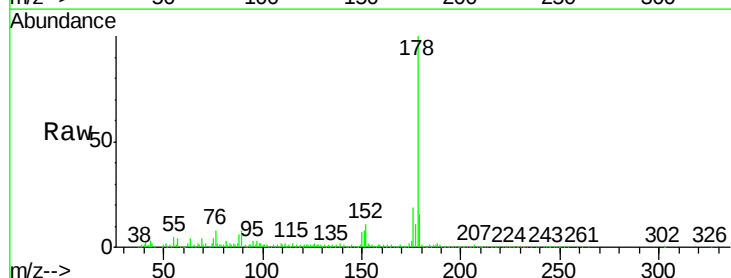
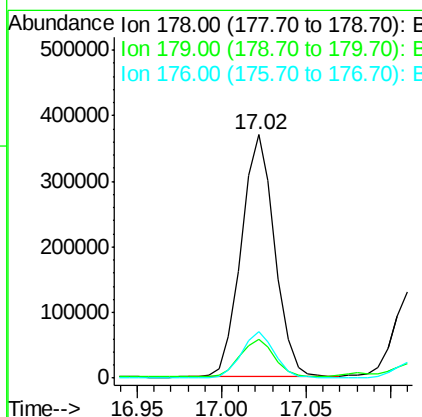
RT: 17.02 min Scan# 2386

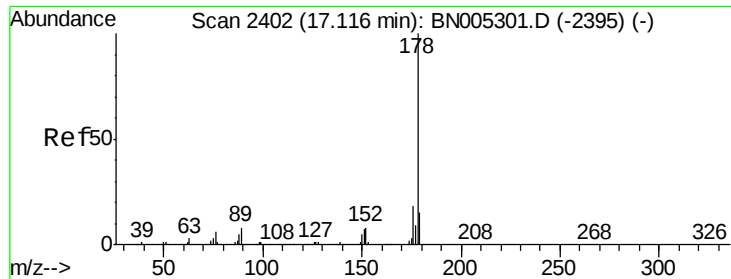
Delta R.T. -0.01 min

Lab File: BN005305.D

Acq: 26 Apr 2019 05:54

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 178  | Resp: | 510080 |
| Ion Ratio |      | Lower | Upper  |
| 178       | 100  |       |        |
| 179       | 16.1 | 12.2  | 18.4   |
| 176       | 19.2 | 15.1  | 22.7   |





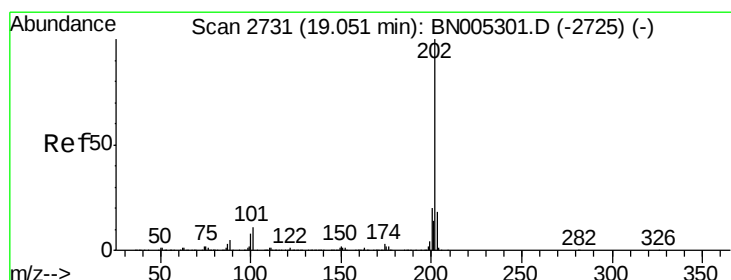
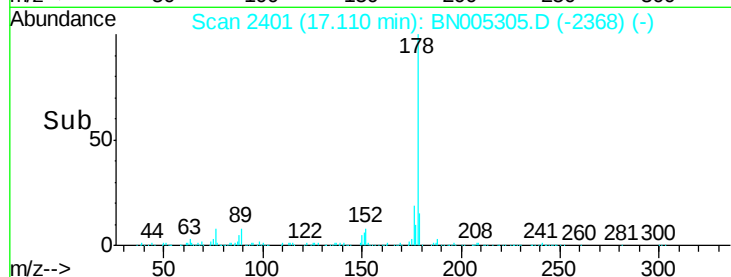
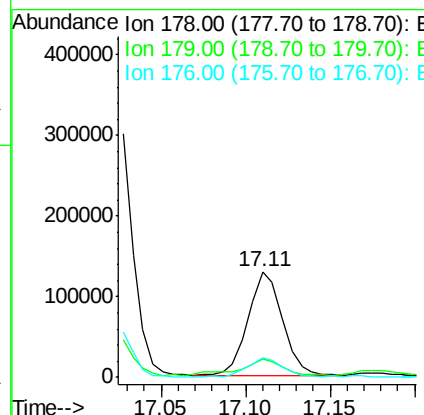
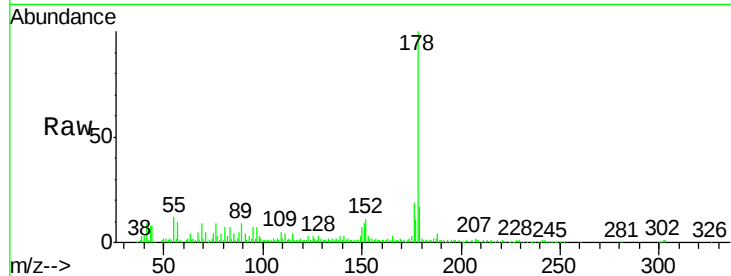
#71  
 Anthracene  
 Concen: 1.373 ng/ul  
 RT: 17.11 min Scan# 2401  
 Delta R.T. -0.01 min  
 Lab File: BN005305.D  
 Acq: 26 Apr 2019 05:54

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAHT8

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 185862 |       |       |
| 179     | 17.1  | 12.3   | 18.5  |       |
| 176     | 19.1  | 15.1   | 22.7  |       |

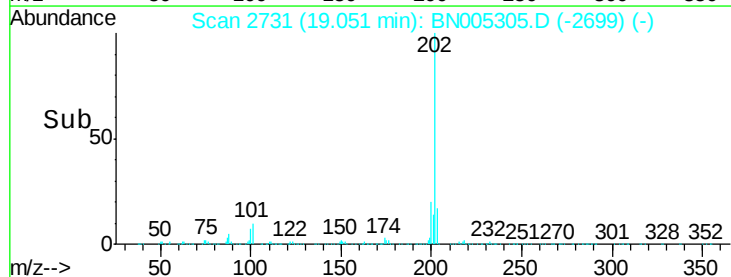
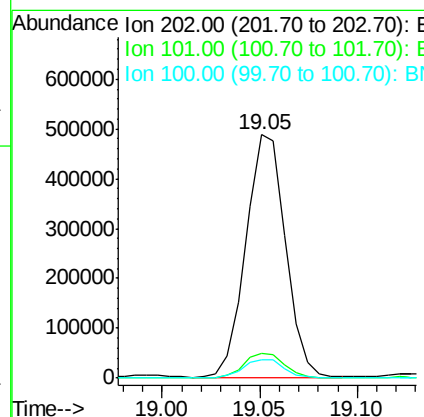
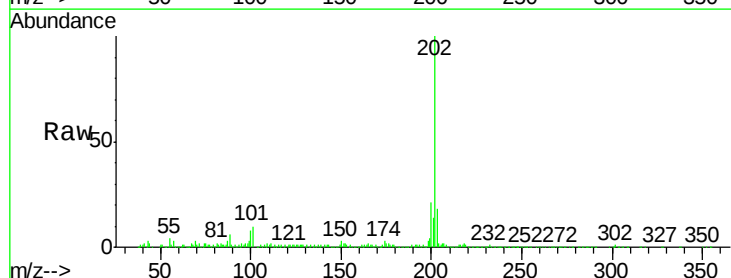
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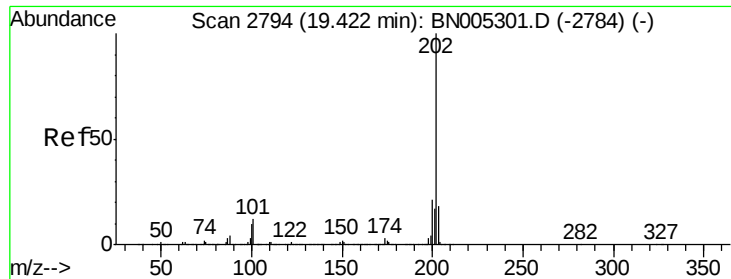
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#76  
 Fluoranthene  
 Concen: 4.627 ng/ul  
 RT: 19.05 min Scan# 2731  
 Delta R.T. -0.01 min  
 Lab File: BN005305.D  
 Acq: 26 Apr 2019 05:54

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 681977 |       |       |
| 101     | 10.0  | 8.6    | 12.8  |       |
| 100     | 7.7   | 6.3    | 9.5   |       |





#79

Pyrene

Concen: 5.872 ng/ul

RT: 19.42 min Scan# 2794

Delta R.T. -0.01 min

Lab File: BN005305.D

Acq: 26 Apr 2019 05:54

Instrument :

BNA\_N

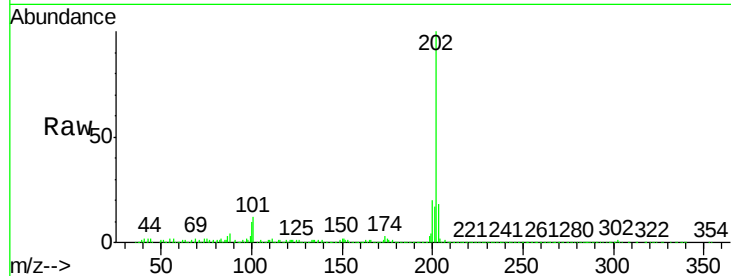
ClientSampled :

GAHT8

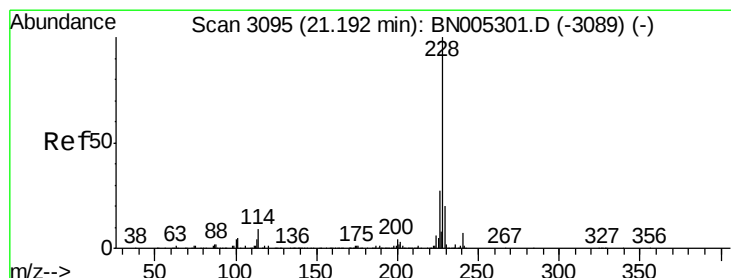
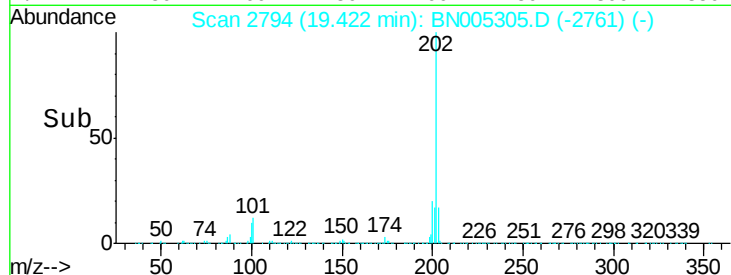
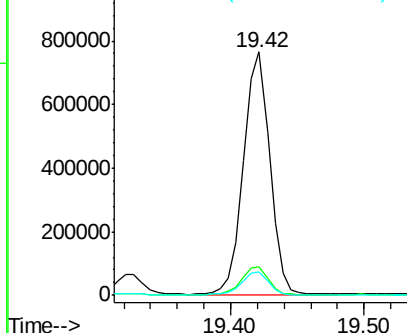
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 202   | Resp: | 1034636 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 101      | 11.7  | 10.3  | 15.5    |
| 100      | 9.7   | 7.9   | 11.9    |

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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



#82

Benzo(a)anthracene

Concen: 2.523 ng/ul m

RT: 21.20 min Scan# 3096

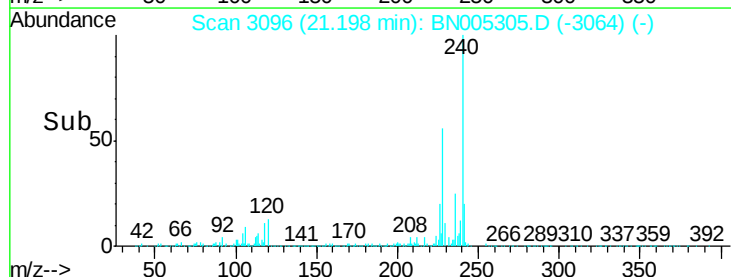
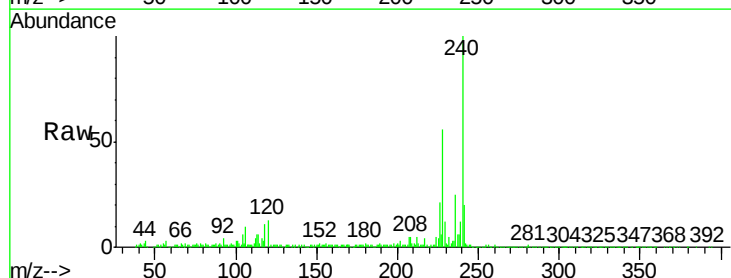
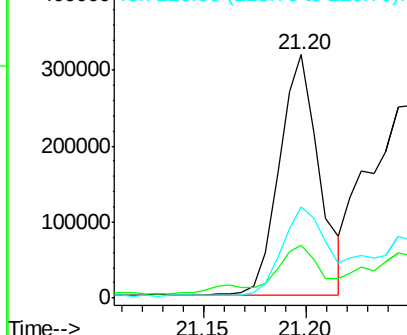
Delta R.T. -0.01 min

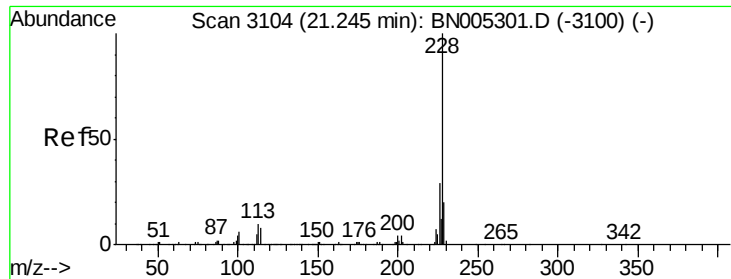
Lab File: BN005305.D

Acq: 26 Apr 2019 05:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 228   | Resp: | 429556 |
| Ion      | Ratio | Lower | Upper  |
| 228      | 100   |       |        |
| 229      | 21.5  | 15.8  | 23.6   |
| 226      | 37.5  | 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





#84

Chrysene

Concen: 3.059 ng/ul

RT: 21.25 min Scan# 3105

Delta R.T. -0.01 min

Lab File: BN005305.D

Acq: 26 Apr 2019 05:54

Instrument :

BNA\_N

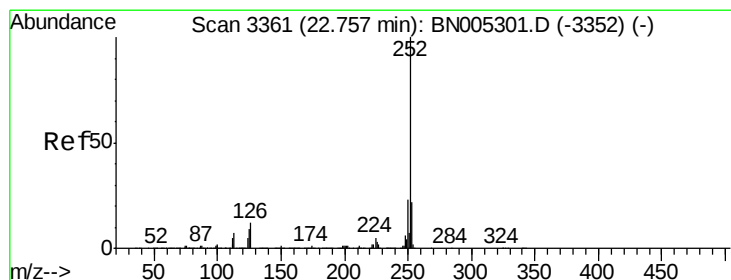
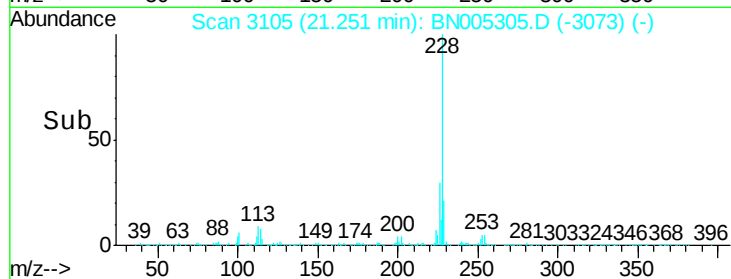
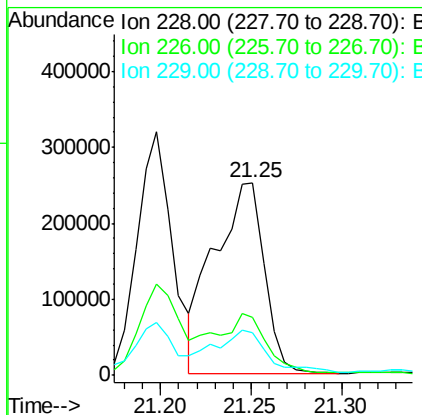
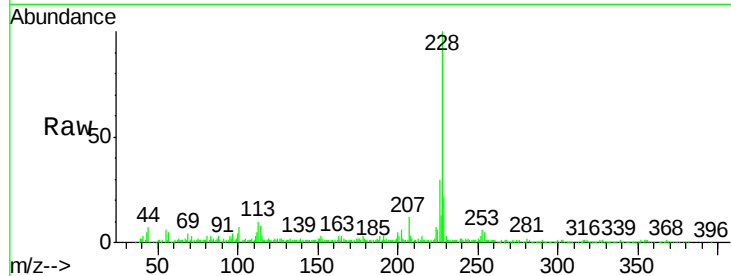
ClientSampled :

GAHT8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 483328 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.4  | 24.0  | 36.0   |
| 229       | 22.0  | 15.4  | 23.0   |

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#87

Benzo(b)fluoranthene

Concen: 5.376 ng/ul

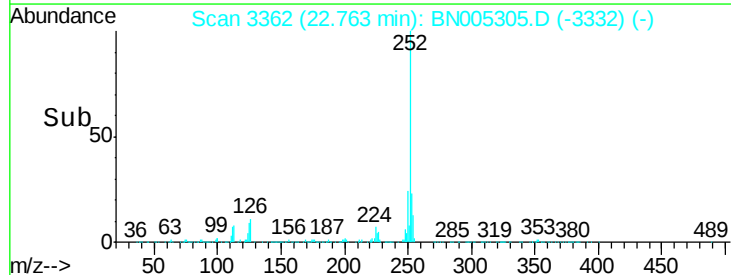
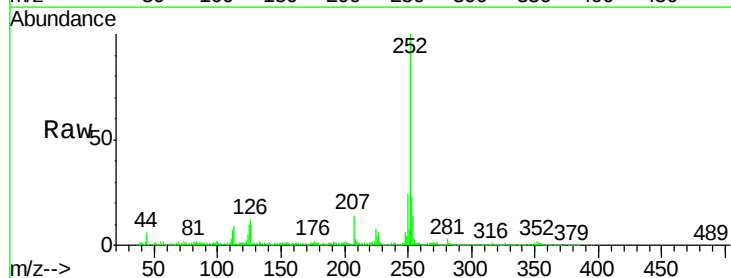
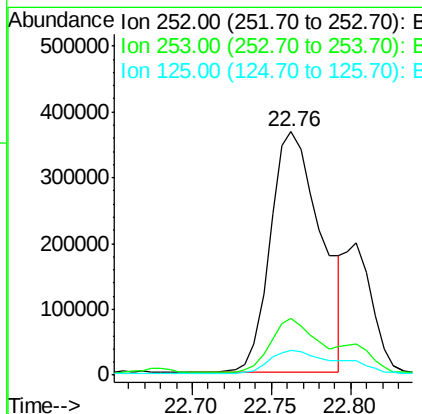
RT: 22.76 min Scan# 3362

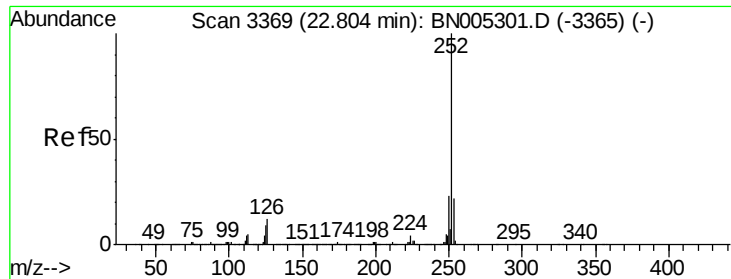
Delta R.T. -0.02 min

Lab File: BN005305.D

Acq: 26 Apr 2019 05:54

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 818915 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.3  | 17.7  | 26.5   |
| 125       | 10.2  | 8.4   | 12.6   |





#88

Benzo(k)fluoranthene

Concen: 1.609 ng/ul m

RT: 22.80 min Scan# 3369

Delta R.T. -0.02 min

Lab File: BN005305.D

Acq: 26 Apr 2019 05:54

Instrument :

BNA\_N

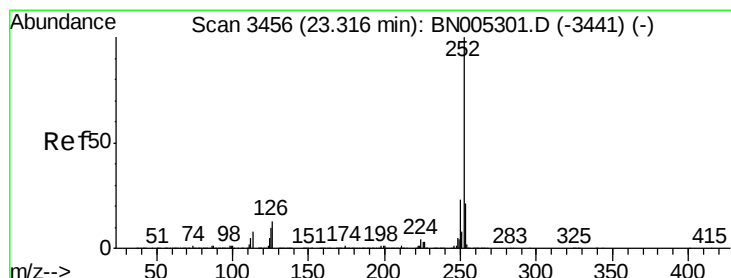
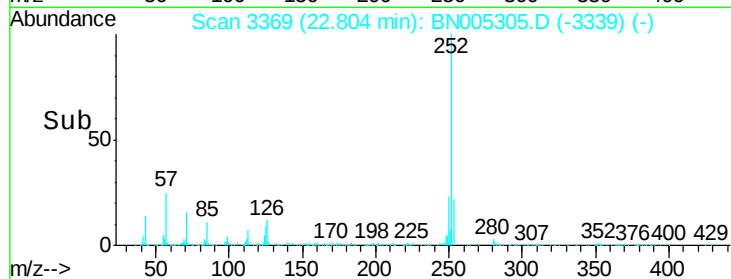
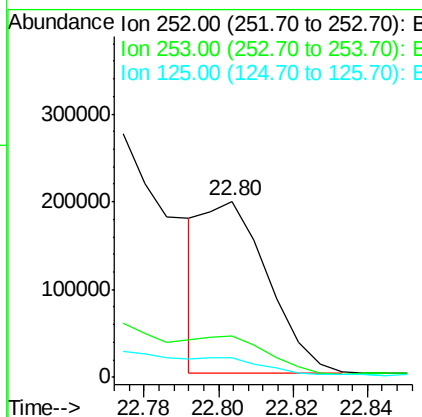
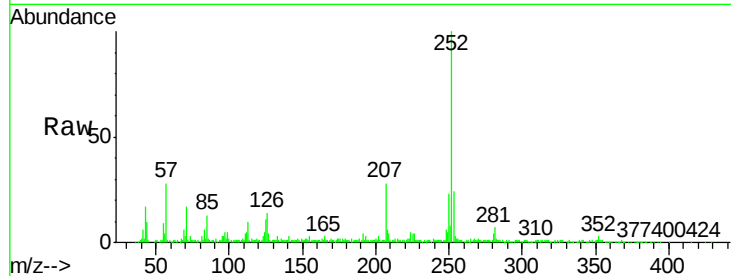
ClientSampled :

GAHT8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 234014 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.7  | 17.4  | 26.0   |
| 125       | 10.9  | 7.5   | 11.3   |

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#90

Benzo(a)pyrene

Concen: 2.406 ng/ul

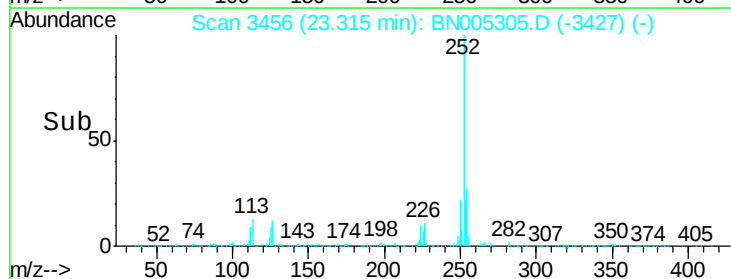
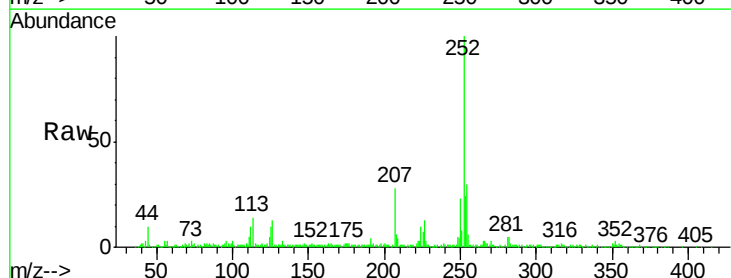
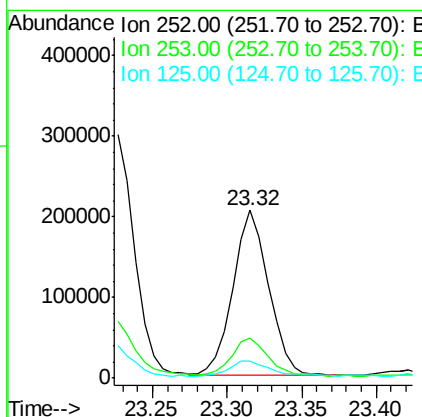
RT: 23.32 min Scan# 3456

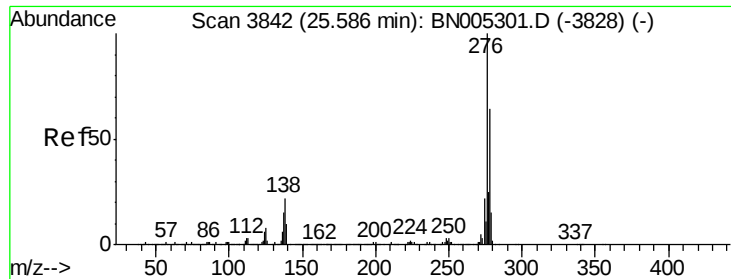
Delta R.T. -0.03 min

Lab File: BN005305.D

Acq: 26 Apr 2019 05:54

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 344431 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.3  | 17.3  | 25.9   |
| 125       | 10.4  | 8.6   | 13.0   |





#91

Indeno(1,2,3-cd)pyrene

Concen: 3.014 ng/ul

RT: 25.59 min Scan# 3842

Delta R.T. -0.04 min

Lab File: BN005305.D

Acq: 26 Apr 2019 05:54

Instrument :

BNA\_N

ClientSampled :

GAHT8

Tgt Ion: 276 Resp: 477046

Ion Ratio Lower Upper

276 100

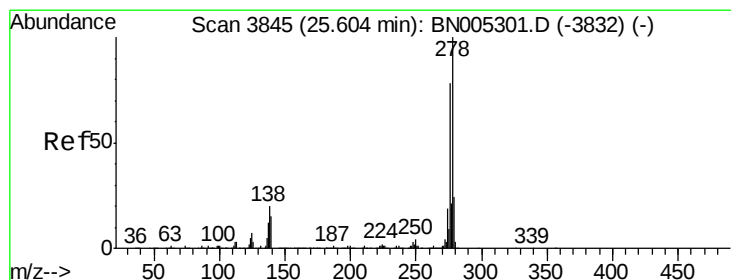
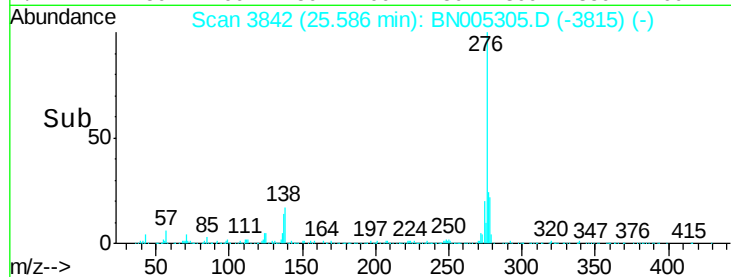
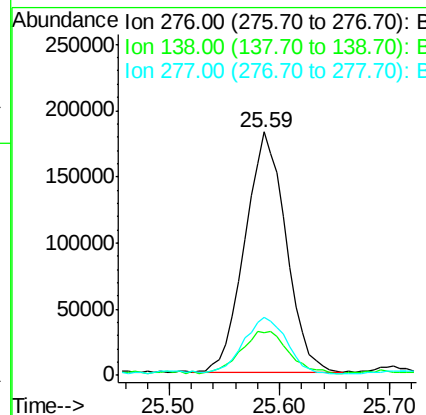
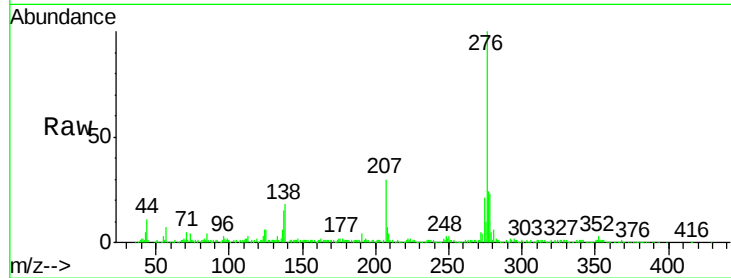
138 17.6 17.9 26.9#

277 24.1 19.7 29.5

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#92

Dibenzo(a,h)anthracene

Concen: 1.013 ng/ul

RT: 25.60 min Scan# 3844

Delta R.T. -0.04 min

Lab File: BN005305.D

Acq: 26 Apr 2019 05:54

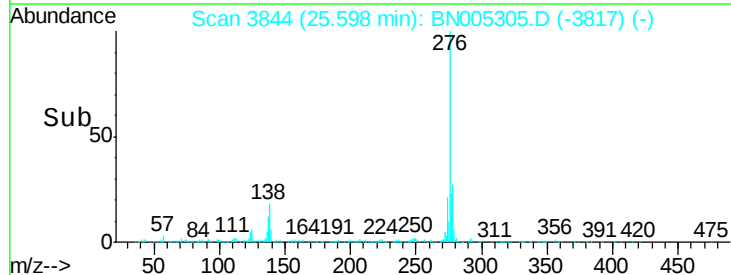
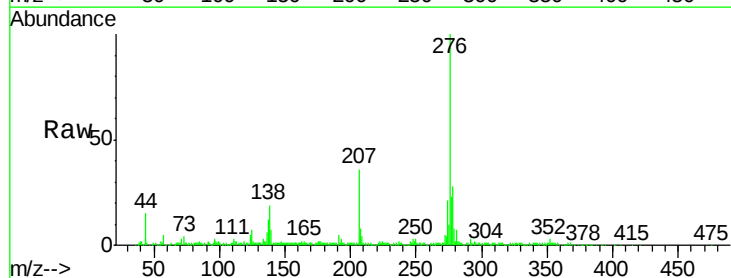
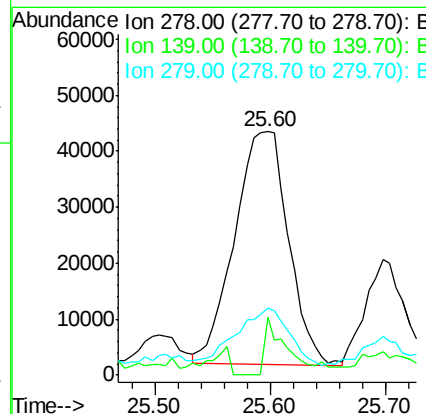
Tgt Ion: 278 Resp: 136016

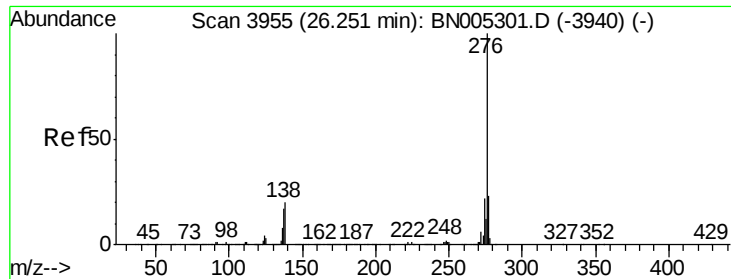
Ion Ratio Lower Upper

278 100

139 23.9 13.1 19.7#

279 27.5 19.4 29.0





#93

Benzo(g,h,i)perylene

Concen: 3.161 ng/ul

RT: 26.24 min Scan# 3954

Delta R.T. -0.05 min

Lab File: BN005305.D

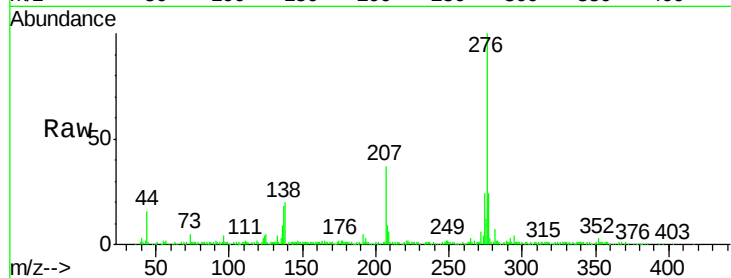
Acq: 26 Apr 2019 05:54

Instrument :

BNA\_N

ClientSampleId :

GAHT8



Tgt Ion: 276 Resp: 413705

Ion Ratio Lower Upper

276 100

138 19.8 16.7 25.1

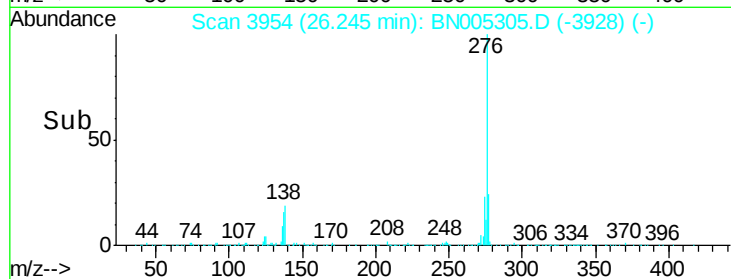
277 24.3 18.2 27.2

Manual Integrations

APPROVED

Sohil

4/26/2019 6:21:58 PM



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

