

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050219\  
 Data File : BN005442.D  
 Acq On : 03 May 2019 07:05  
 Operator : JU/SJ  
 Sample : K2603-04 20X  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAJ56

Manual Integrations  
 APPROVED

Sohil  
 5/3/2019 10:54:26 PM

Quant Time: May 03 18:31:58 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 03 03:02:31 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.59  | 152  | 290306   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.35 | 136  | 1242797  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.22 | 164  | 736361   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.98 | 188  | 1580038  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.22 | 240  | 1394826  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.42 | 264  | 1480108  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.22  | 96  | 2157m  | 0.36 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.78  | 99  | 40310  | 1.77 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.94  | 67  | 26534  | 1.87 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.13  | 132 | 34731  | 1.99 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.30  | 113 | 33300  | 1.87 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.74  | 128 | 17586  | 2.30 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.45  | 143 | 17696  | 2.28 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.00 | 165 | 30320  | 1.71 | ng/ul | 0.02 |
| 29) 4-Chloroaniline-d4         | 10.50 | 131 | 32316  | 1.76 | ng/ul | 0.01 |
| 43) Dimethylphthalate-d6       | 13.65 | 166 | 122000 | 2.28 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.91 | 160 | 145849 | 2.22 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.47 | 143 | 3932   | 0.47 | ng/ul | 0.03 |
| 57) Fluorene-d10               | 15.22 | 176 | 107277 | 2.39 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.37 | 200 | 5770   | 0.81 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.07 | 188 | 159066 | 2.40 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.39 | 212 | 168621 | 2.36 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.28 | 264 | 149489 | 2.31 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |          |        | Ovalue |    |
|----------------------------|-------|-----|----------|--------|--------|----|
| 47) Acenaphthylene         | 13.94 | 152 | 416002   | 6.448  | ng/ul  | 98 |
| 58) Fluorene               | 15.28 | 166 | 68122    | 1.377  | ng/ul# | 95 |
| 69) Phenanthrene           | 17.02 | 178 | 431383   | 5.606  | ng/ul  | 99 |
| 71) Anthracene             | 17.11 | 178 | 327363   | 4.176  | ng/ul  | 98 |
| 76) Fluoranthene           | 19.05 | 202 | 1938848  | 22.716 | ng/ul  | 97 |
| 79) Pyrene                 | 19.42 | 202 | 3539354  | 39.410 | ng/ul  | 95 |
| 82) Benzo(a)anthracene     | 21.20 | 228 | 1455158m | 16.770 | ng/ul  |    |
| 84) Chrysene               | 21.25 | 228 | 1355956  | 16.837 | ng/ul  | 99 |
| 87) Benzo(b)fluoranthene   | 22.77 | 252 | 1222280  | 14.691 | ng/ul  | 98 |
| 88) Benzo(k)fluoranthene   | 22.81 | 252 | 431275m  | 5.427  | ng/ul  |    |
| 90) Benzo(a)pyrene         | 23.33 | 252 | 1328855m | 16.992 | ng/ul  |    |
| 91) Indeno(1,2,3-cd)pyrene | 25.60 | 276 | 591852   | 6.845  | ng/ul# | 95 |
| 92) Dibenzo(a,h)anthracene | 25.61 | 278 | 172957   | 2.357  | ng/ul  | 98 |
| 93) Benzo(g,h,i)perylene   | 26.26 | 276 | 576241   | 8.060  | ng/ul# | 93 |

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

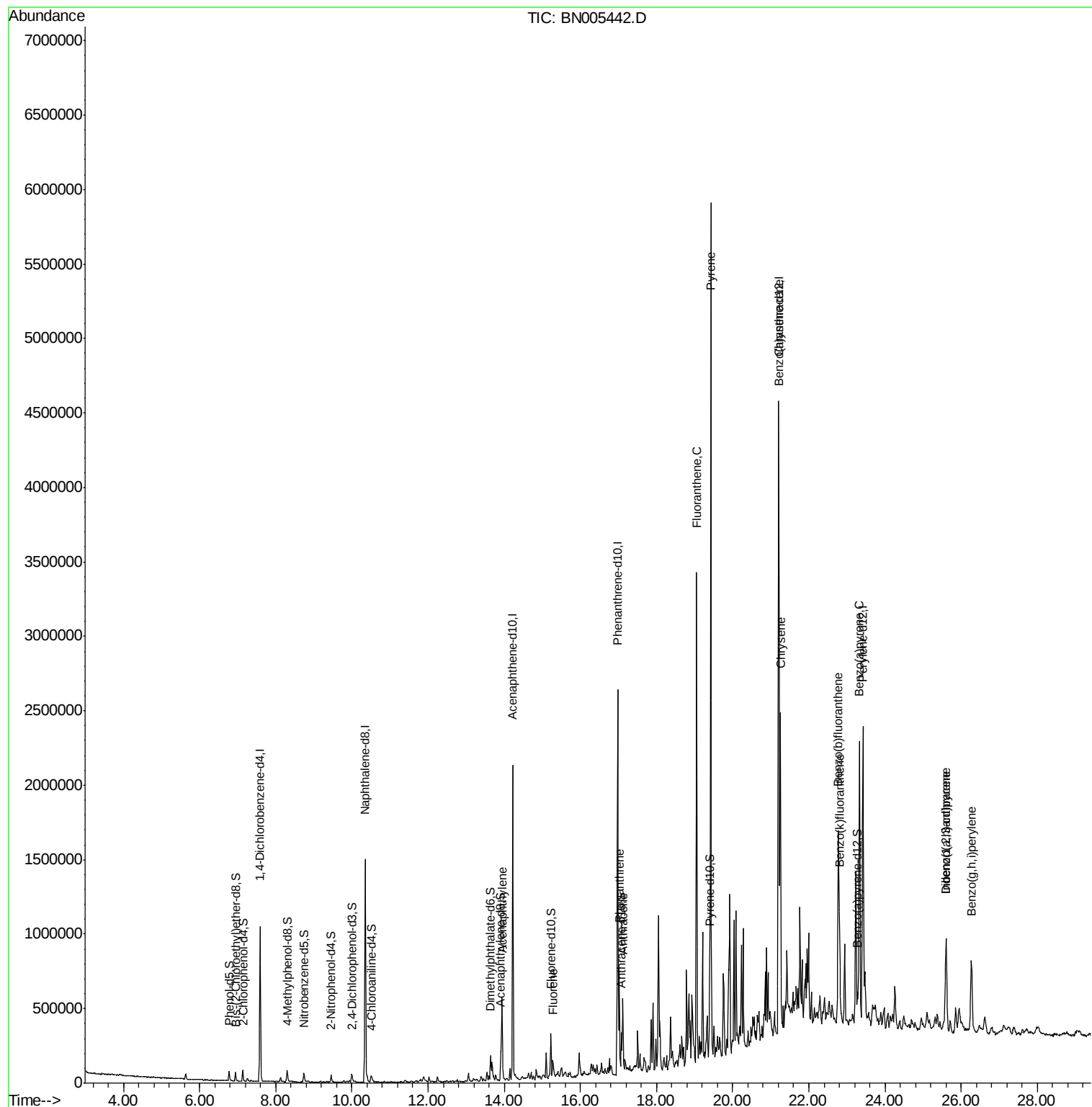
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050219\  
Data File : BN005442.D  
Acq On : 03 May 2019 07:05  
Operator : JU/SJ  
Sample : K2603-04 20X  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

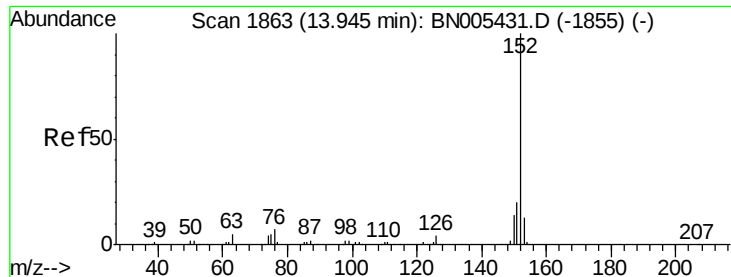
Instrument :  
BNA\_N  
ClientSampleId :  
GAJ56

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5/3/2019 10:54:26 PM

Quant Time: May 03 18:31:58 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri May 03 03:02:31 2019  
Response via : Initial Calibration





#47

Acenaphthylene

Concen: 6.448 ng/ul

RT: 13.94 min Scan# 1862

Delta R.T. -0.01 min

Lab File: BN005442.D

Acq: 03 May 2019 07:05

Instrument :

BNA\_N

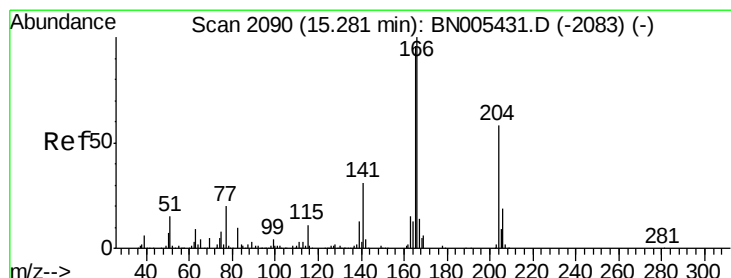
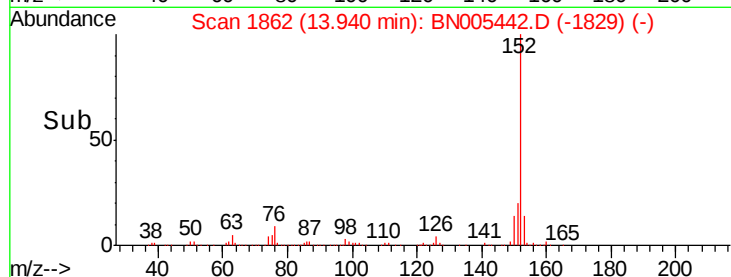
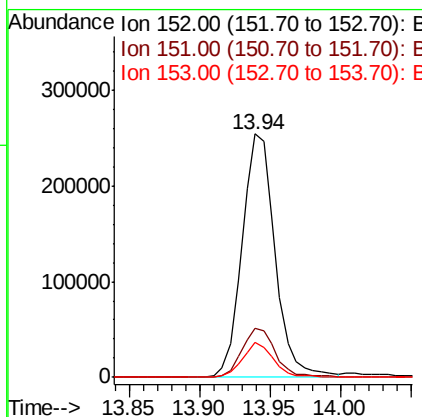
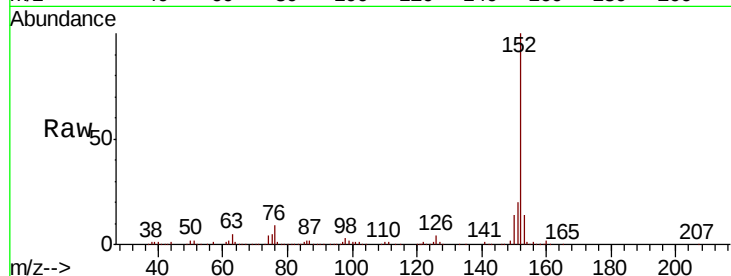
ClientSampleId :

GAJ56

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 416002 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 20.1  | 15.8  | 23.8   |
| 153       | 14.2  | 9.8   | 14.8   |

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#58

Fluorene

Concen: 1.377 ng/ul

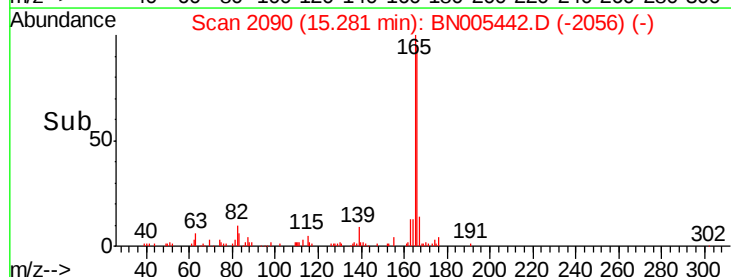
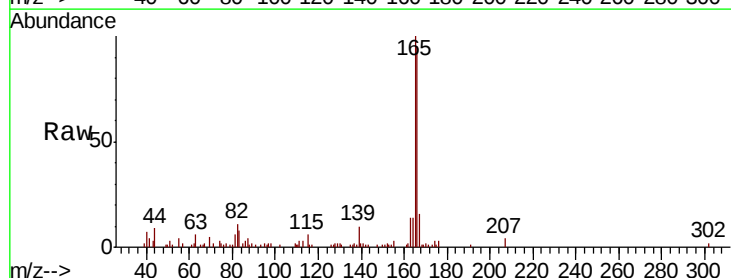
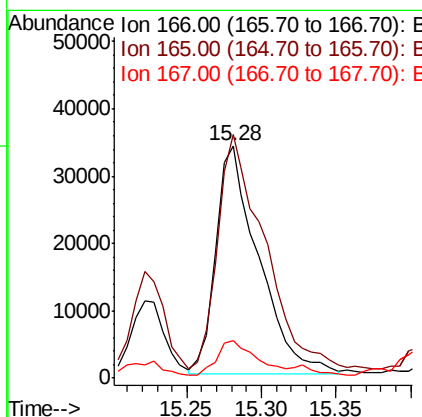
RT: 15.28 min Scan# 2090

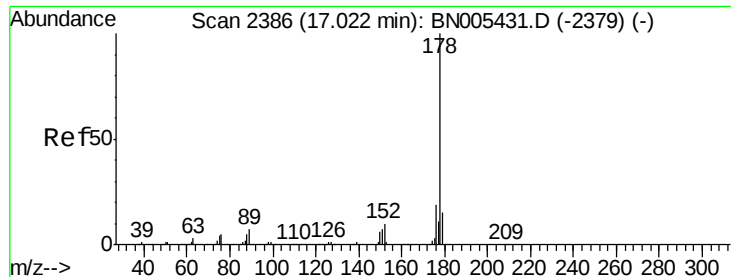
Delta R.T. -0.00 min

Lab File: BN005442.D

Acq: 03 May 2019 07:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 68122 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 104.9 | 80.0  | 120.0 |
| 167       | 16.3  | 10.7  | 16.1# |





#69

Phenanthrene

Concen: 5.606 ng/ul

RT: 17.02 min Scan# 2386

Delta R.T. -0.00 min

Lab File: BN005442.D

Acq: 03 May 2019 07:05

Instrument :

BNA\_N

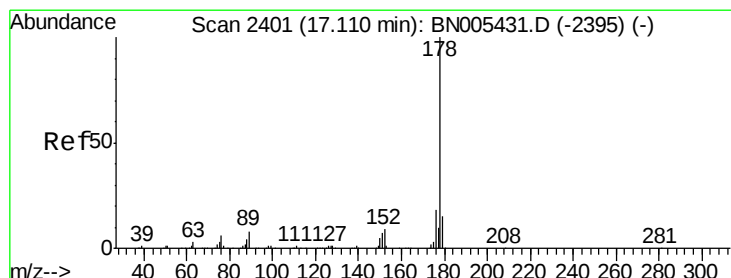
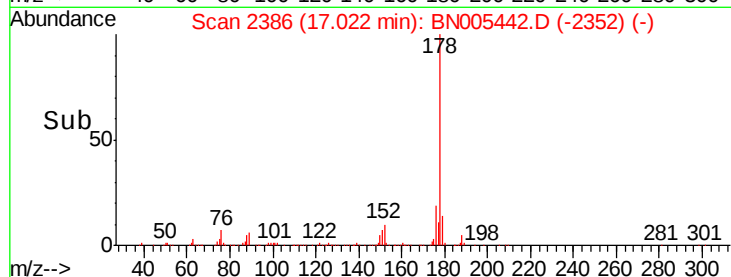
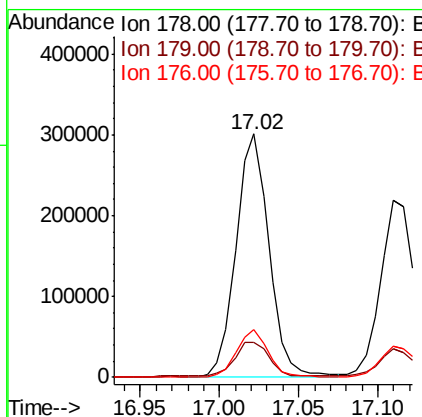
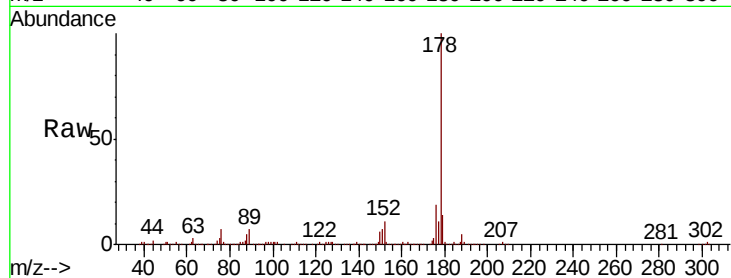
ClientSampleId :

GAJ56

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 431383 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 14.5  | 12.2  | 18.4   |
| 176       | 19.4  | 15.1  | 22.7   |

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#71

Anthracene

Concen: 4.176 ng/ul

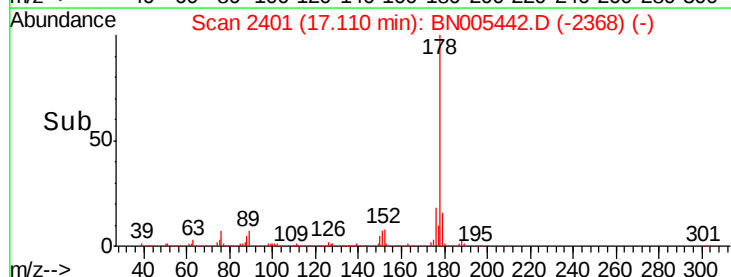
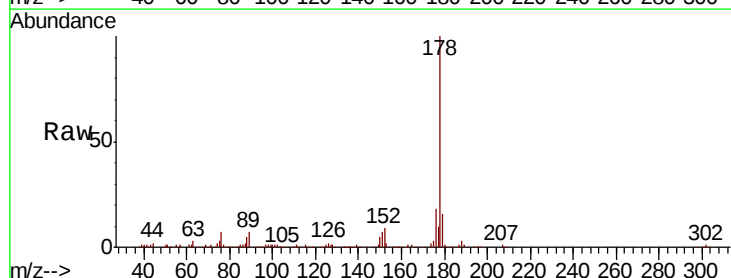
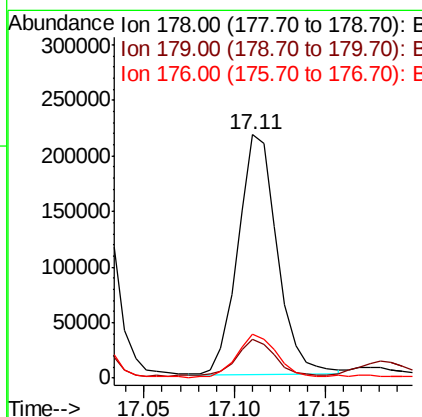
RT: 17.11 min Scan# 2401

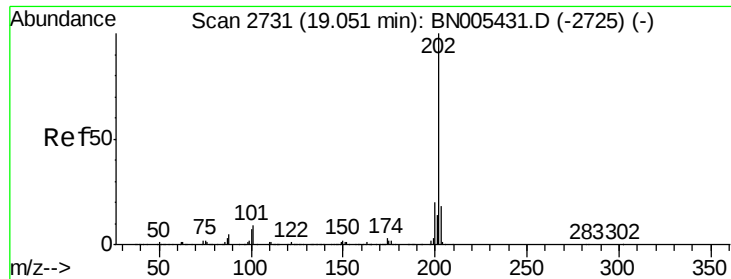
Delta R.T. -0.01 min

Lab File: BN005442.D

Acq: 03 May 2019 07:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 327363 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 16.1  | 12.3  | 18.5   |
| 176       | 17.8  | 15.1  | 22.7   |





#76

Fluoranthene

Concen: 22.716 ng/ul

RT: 19.05 min Scan# 2731

Delta R.T. -0.01 min

Lab File: BN005442.D

Acq: 03 May 2019 07:05

Instrument :

BNA\_N

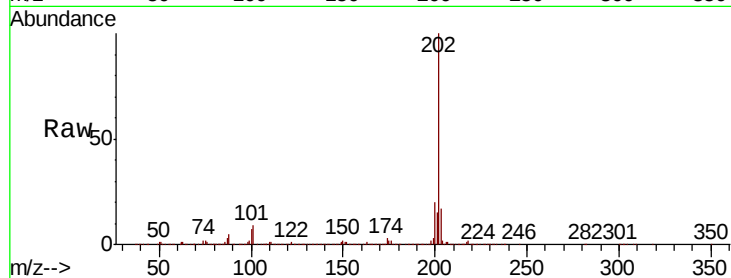
ClientSampleId :

GAJ56

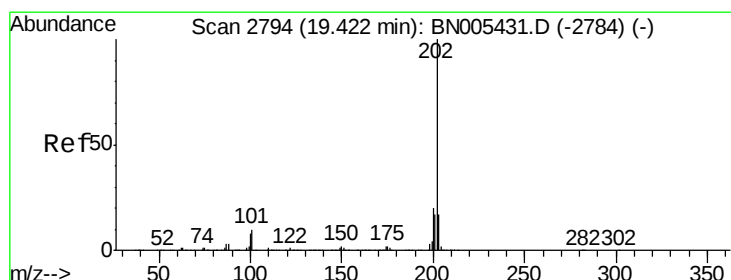
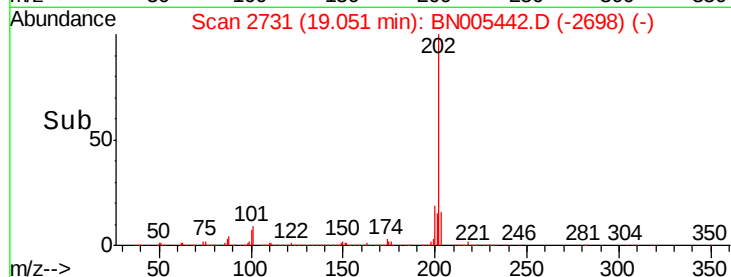
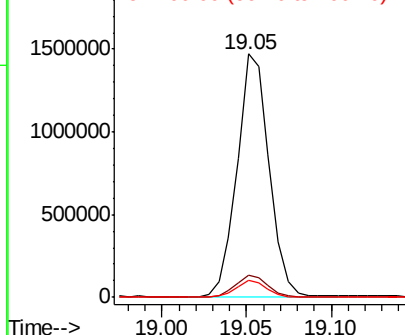
|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 1938848 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 9.2   | 8.6   | 12.8    |
| 100       | 7.1   | 6.3   | 9.5     |

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Abundance Ion 202.00 (201.70 to 202.70): E  
2000000  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B



#79

Pyrene

Concen: 39.410 ng/ul

RT: 19.42 min Scan# 2794

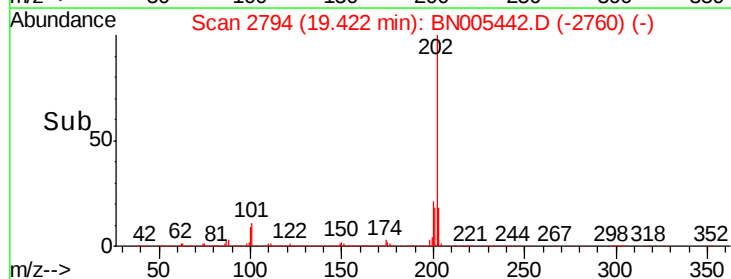
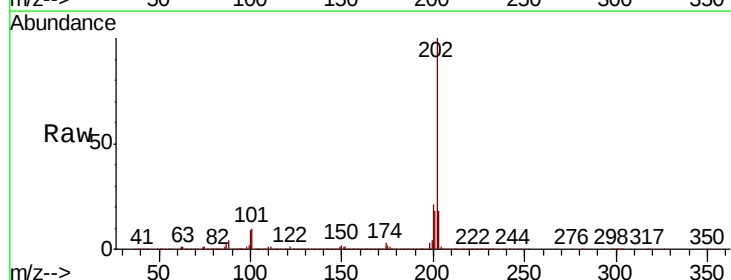
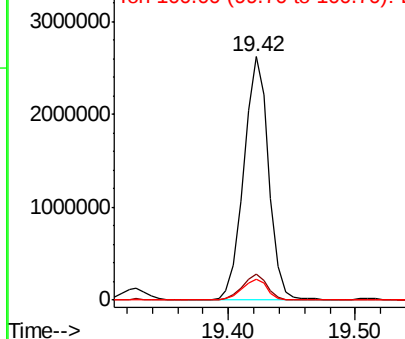
Delta R.T. -0.00 min

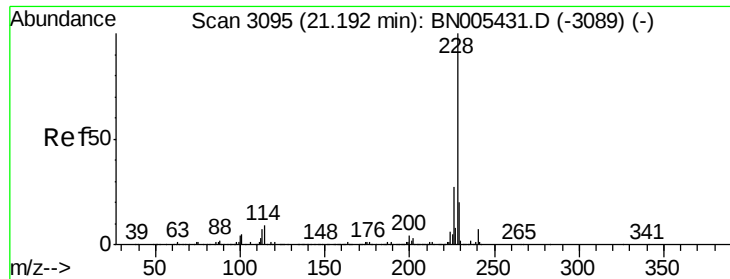
Lab File: BN005442.D

Acq: 03 May 2019 07:05

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 3539354 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 10.5  | 10.3  | 15.5    |
| 100       | 8.8   | 7.9   | 11.9    |

Abundance Ion 202.00 (201.70 to 202.70): E  
3000000  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B





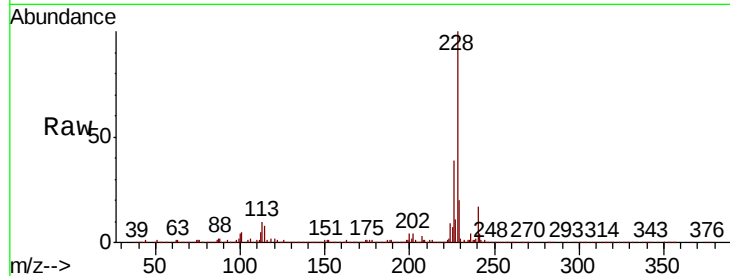
#82  
Benzo(a)anthracene  
Concen: 16.770 ng/ul m  
RT: 21.20 min Scan# 3096  
Delta R.T. -0.00 min  
Lab File: BN005442.D  
Acq: 03 May 2019 07:05

Instrument :  
BNA\_N  
ClientSampled :  
GAJ56

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.0  | 15.8  | 23.6  |
| 226     | 39.2  | 21.4  | 32.2  |

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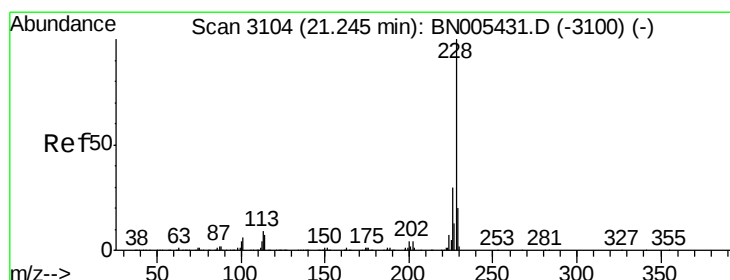
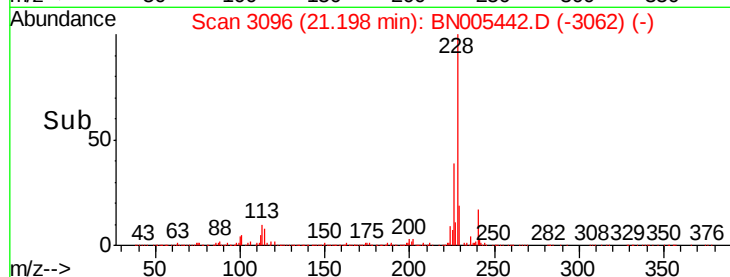
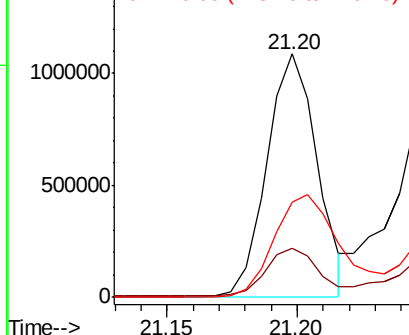


Abundance

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: 16.837 ng/ul  
RT: 21.25 min Scan# 3105  
Delta R.T. -0.00 min  
Lab File: BN005442.D  
Acq: 03 May 2019 07:05

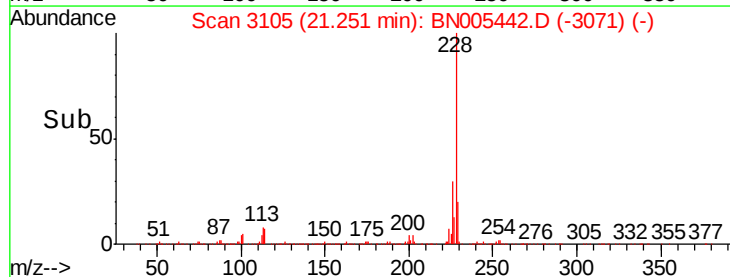
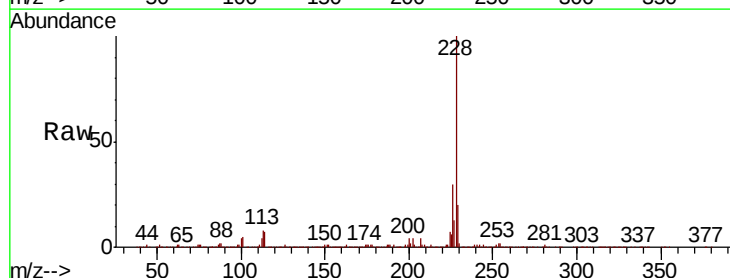
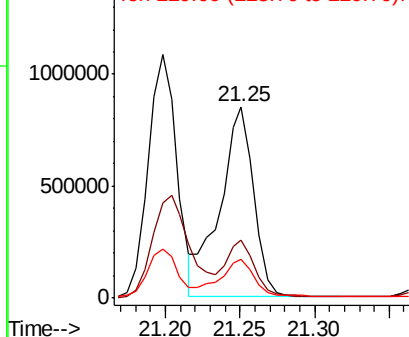
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.3  | 24.0  | 36.0  |
| 229     | 20.3  | 15.4  | 23.0  |

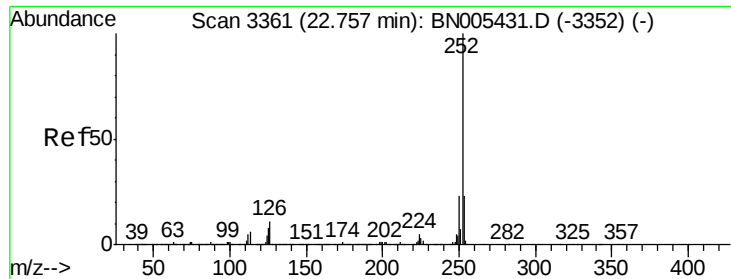
Abundance

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: 14.691 ng/ul

RT: 22.77 min Scan# 3363

Delta R.T. 0.01 min

Lab File: BN005442.D

Acq: 03 May 2019 07:05

Instrument :

BNA\_N

ClientSampleId :

GAJ56

Tot Ion:252 Resp: 1222280

Ion Ratio Lower Upper

252 100

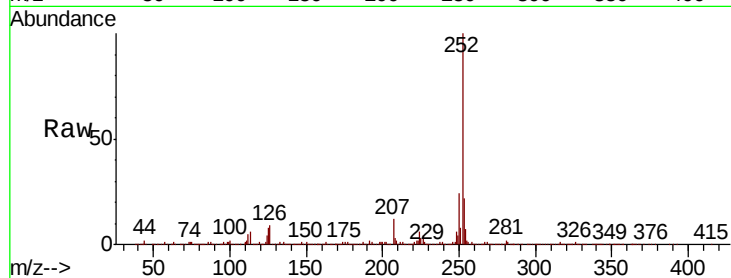
253 22.2 17.7 26.5

125 8.4 8.4 12.6

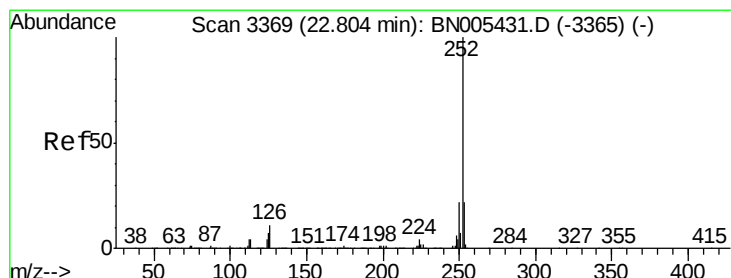
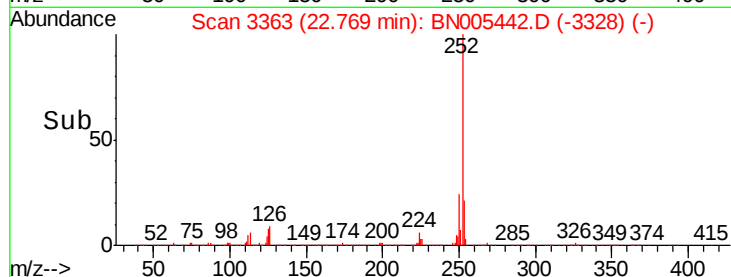
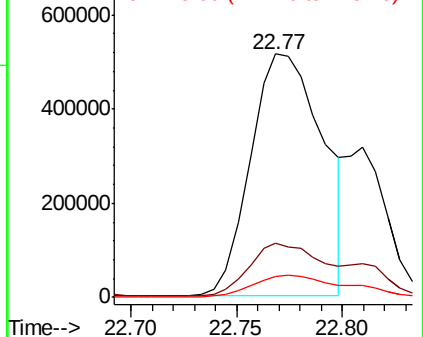
Manual Integrations  
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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 5.427 ng/ul m

RT: 22.81 min Scan# 3370

Delta R.T. 0.01 min

Lab File: BN005442.D

Acq: 03 May 2019 07:05

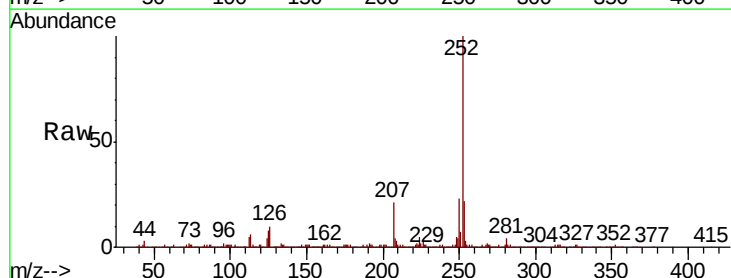
Tgt Ion:252 Resp: 431275

Ion Ratio Lower Upper

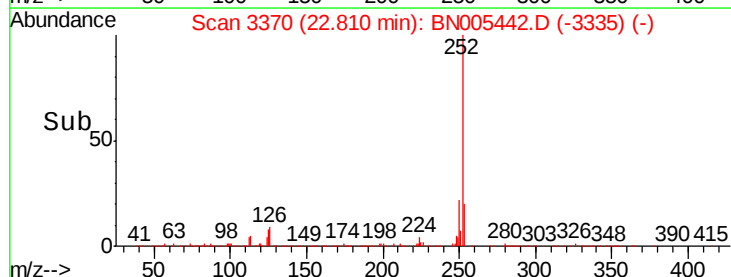
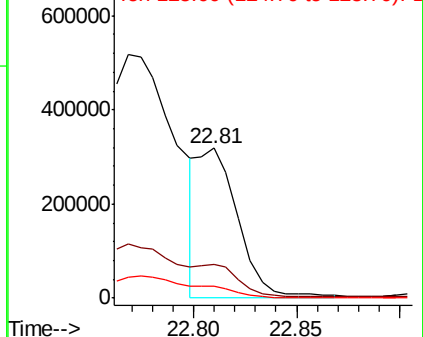
252 100

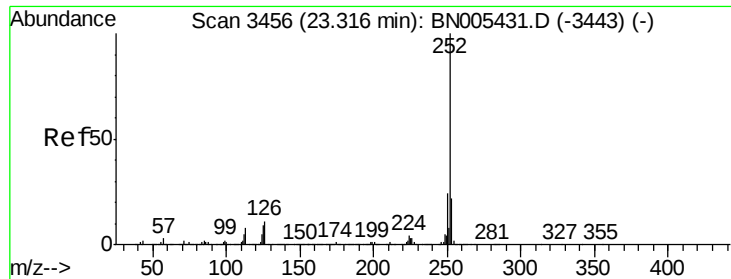
253 22.1 17.4 26.0

125 8.0 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





#90

Benzo(a)pyrene

Concen: 16.992 ng/ul m

RT: 23.33 min Scan# 3458

Delta R.T. 0.01 min

Lab File: BN005442.D

Acq: 03 May 2019 07:05

Instrument :

BNA\_N

ClientSampled :

GAJ56

Tot Ion:252 Resp: 1328855

Ion Ratio Lower Upper

252 100

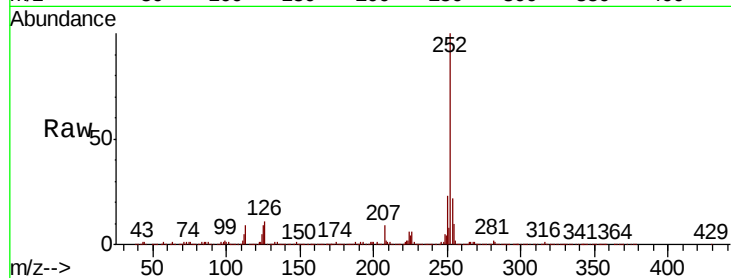
253 21.8 17.3 25.9

125 8.6 8.6 13.0#

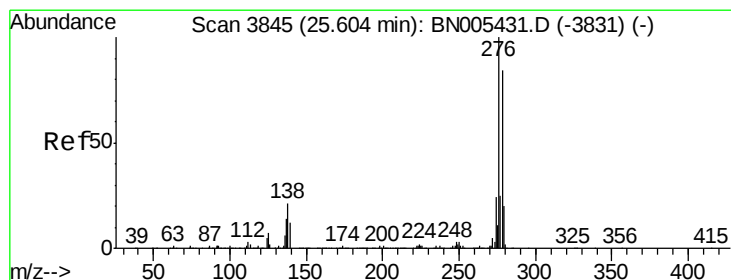
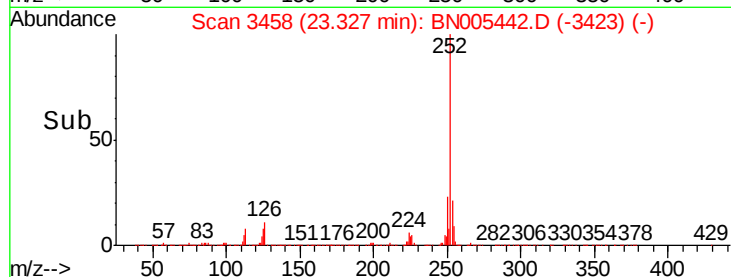
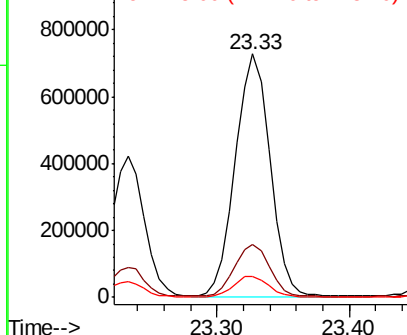
Manual Integrations  
APPROVED

Sohil

5/3/2019 10:54:26 PM



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



#91

Indeno(1,2,3-cd)pyrene

Concen: 6.845 ng/ul

RT: 25.60 min Scan# 3845

Delta R.T. -0.01 min

Lab File: BN005442.D

Acq: 03 May 2019 07:05

Tgt Ion:276 Resp: 591852

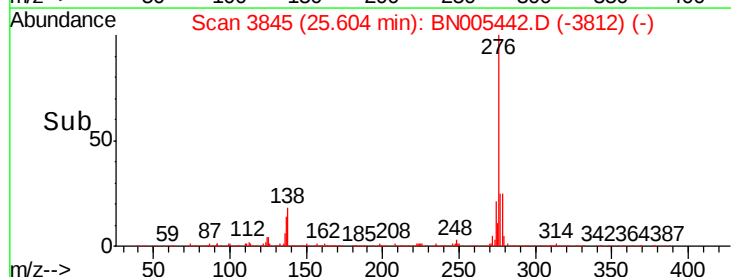
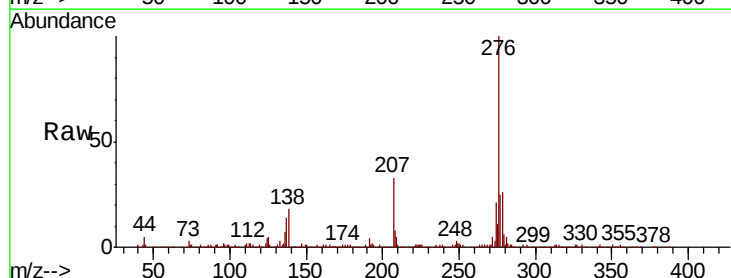
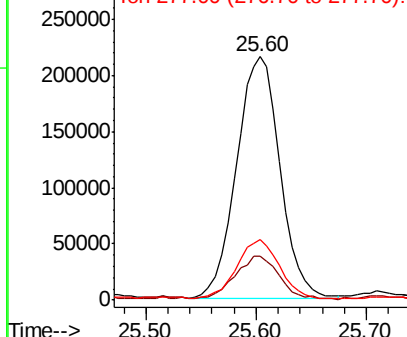
Ion Ratio Lower Upper

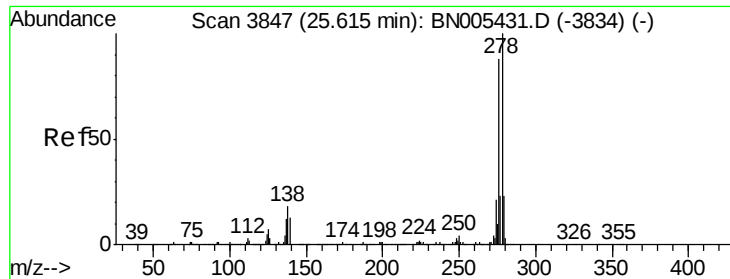
276 100

138 17.9 17.9 26.9#

277 25.0 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: 2.357 ng/ul

RT: 25.61 min Scan# 3846

Delta R.T. -0.01 min

Lab File: BN005442.D

Acq: 03 May 2019 07:05

Instrument :

BNA\_N

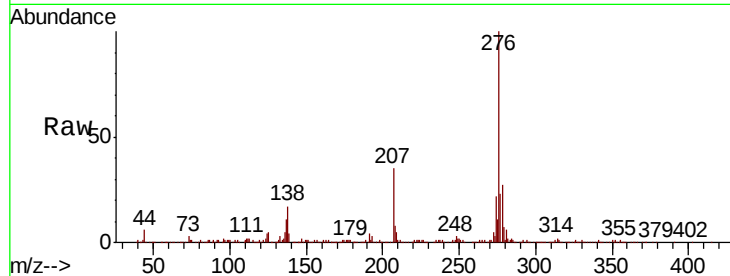
ClientSampleId :

GAJ56

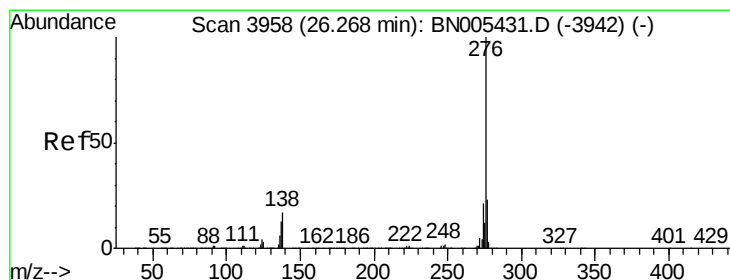
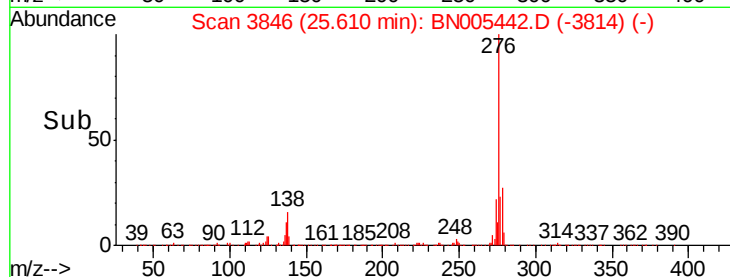
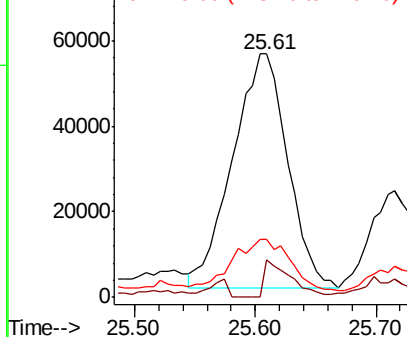
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 278   | Resp: | 172957 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 15.3  | 13.1  | 19.7   |
| 279       | 23.8  | 19.4  | 29.0   |

Manual Integrations  
APPROVED

Sohil  
5/3/2019 10:54:26 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: 8.060 ng/ul

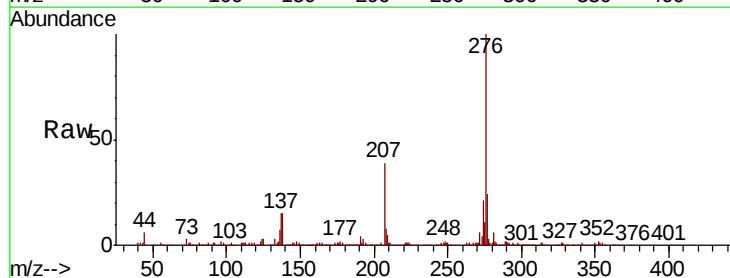
RT: 26.26 min Scan# 3957

Delta R.T. -0.02 min

Lab File: BN005442.D

Acq: 03 May 2019 07:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 576241 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 15.3  | 16.7  | 25.1#  |
| 277       | 23.7  | 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

