

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060319\  
 Data File : BN006054.D  
 Acq On : 04 Jun 2019 02:23  
 Operator : JU/SJ  
 Sample : K2923-19  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A42D7

Manual Integrations  
 APPROVED

Sohil  
 6/4/2019 8:39:31 AM

Quant Time: Jun 04 03:57:36 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060319MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Jun 03 14:55:48 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.72  | 152  | 418717   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.52 | 136  | 1724180  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.38 | 164  | 885312   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.14 | 188  | 1583915  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.35 | 240  | 1203042  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.64 | 264  | 1438542  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.25  | 96  | 33204   | 3.69  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.90  | 99  | 686065  | 19.82 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.06  | 67  | 394590  | 20.17 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.26  | 132 | 557442  | 20.52 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.43  | 113 | 519396  | 18.76 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.88  | 128 | 265381  | 21.32 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.60  | 143 | 273631  | 19.95 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.14 | 165 | 504836  | 20.17 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.65 | 131 | 222849  | 7.24  | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.79 | 166 | 1468308 | 23.44 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.07 | 160 | 1813938 | 22.51 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.59 | 143 | 179742  | 15.53 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.38 | 176 | 1173448 | 22.12 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.51 | 200 | 42527   | 5.54  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.24 | 188 | 1526803 | 23.00 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.54 | 212 | 1459481 | 21.27 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.49 | 264 | 1435397 | 22.46 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |          |        | Ovalue    |
|----------------------------|-------|-----|----------|--------|-----------|
| 28) Naphthalene            | 10.57 | 128 | 198925   | 2.452  | ng/ul 100 |
| 44) Dimethylphthalate      | 13.84 | 163 | 527664   | 8.512  | ng/ul 100 |
| 47) Acenaphthylene         | 14.10 | 152 | 169858   | 2.145  | ng/ul 98  |
| 49) Acenaphthene           | 14.45 | 153 | 403640   | 7.567  | ng/ul 99  |
| 53) Dibenzofuran           | 14.78 | 168 | 263920   | 3.484  | ng/ul 98  |
| 58) Fluorene               | 15.44 | 166 | 389689   | 6.659  | ng/ul 99  |
| 69) Phenanthrene           | 17.18 | 178 | 4371396  | 56.873 | ng/ul 99  |
| 71) Anthracene             | 17.27 | 178 | 1294356  | 16.583 | ng/ul 100 |
| 74) Carbazole              | 17.54 | 167 | 603728   | 8.992  | ng/ul 100 |
| 76) Fluoranthene           | 19.21 | 202 | 5138423  | 68.695 | ng/ul 100 |
| 79) Pyrene                 | 19.57 | 202 | 4259687  | 49.126 | ng/ul 99  |
| 82) Benzo(a)anthracene     | 21.33 | 228 | 2299160  | 30.929 | ng/ul 97  |
| 84) Chrysene               | 21.38 | 228 | 2137059  | 30.385 | ng/ul 98  |
| 87) Benzo(b)fluoranthene   | 22.95 | 252 | 2840292  | 35.797 | ng/ul 97  |
| 88) Benzo(k)fluoranthene   | 22.99 | 252 | 1071053m | 13.930 | ng/ul     |
| 90) Benzo(a)pyrene         | 23.54 | 252 | 2099038  | 27.824 | ng/ul 96  |
| 91) Indeno(1,2,3-cd)pyrene | 25.95 | 276 | 1596278  | 18.380 | ng/ul 94  |
| 92) Dibenzo(a,h)anthracene | 25.94 | 278 | 437504   | 5.975  | ng/ul# 75 |
| 93) Benzo(g,h,i)perylene   | 26.65 | 276 | 1271807  | 17.791 | ng/ul 98  |

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

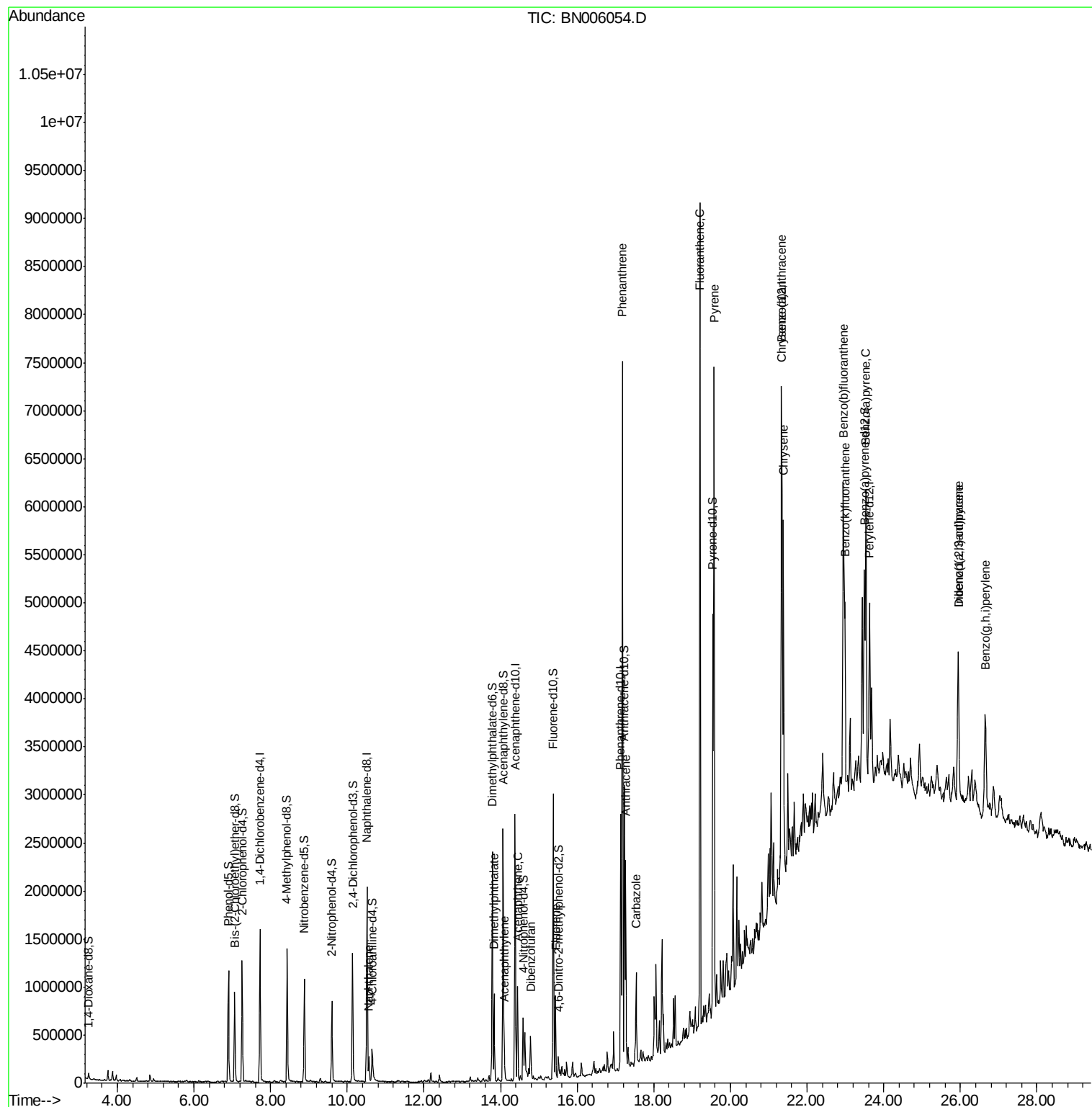
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060319\  
Data File : BN006054.D  
Acq On : 04 Jun 2019 02:23  
Operator : JU/SJ  
Sample : K2923-19  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

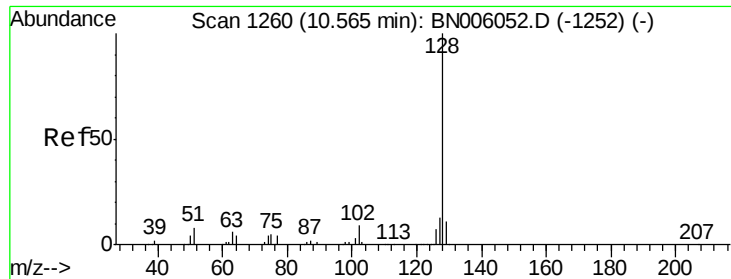
Instrument :  
BNA\_N  
ClientSampled :  
A42D7

Quant Time: Jun 04 03:57:36 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060319MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Jun 03 14:55:48 2019  
Response via : Initial Calibration

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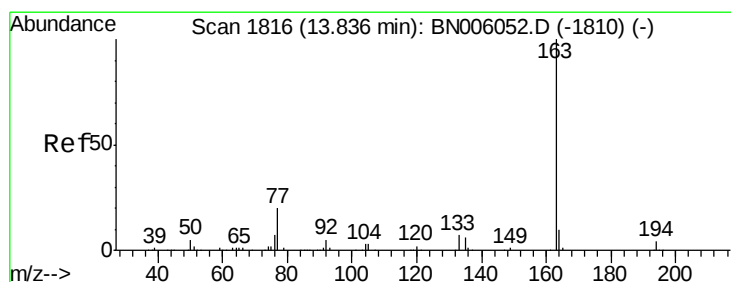
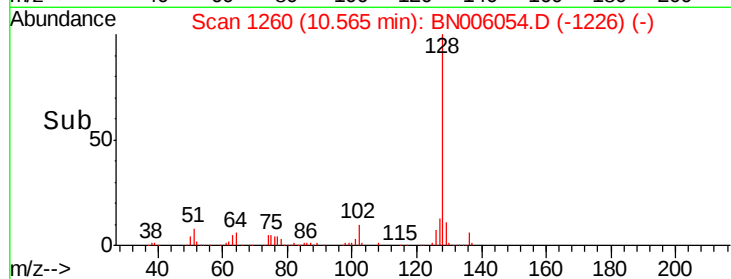
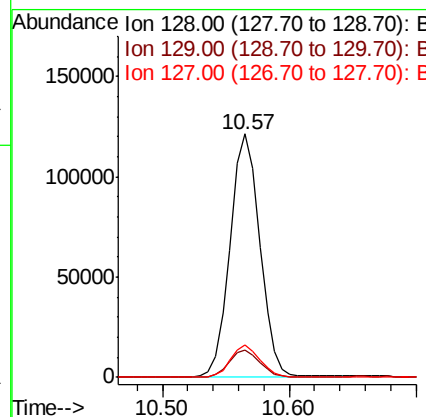
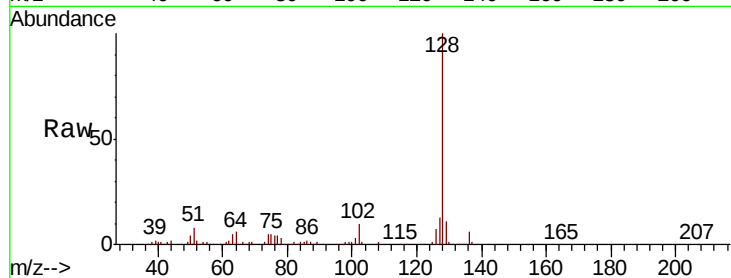
#28  
Naphthalene  
Concen: 2.452 ng/ul  
RT: 10.57 min Scan# 1260  
Delta R.T. 0.00 min  
Lab File: BN006054.D  
Acq: 04 Jun 2019 02:23

Instrument :  
BNA\_N  
ClientSampleId :  
A42D7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.0  | 8.8   | 13.2  |
| 127     | 13.4  | 10.6  | 16.0  |

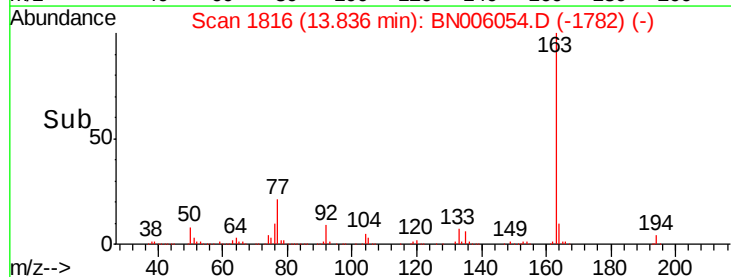
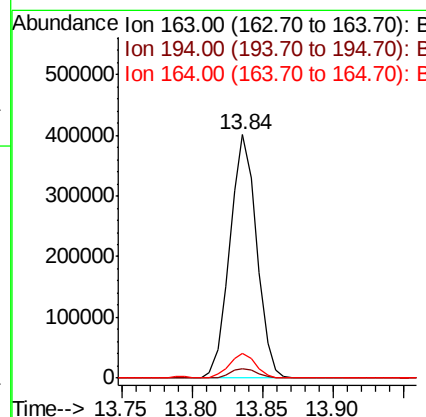
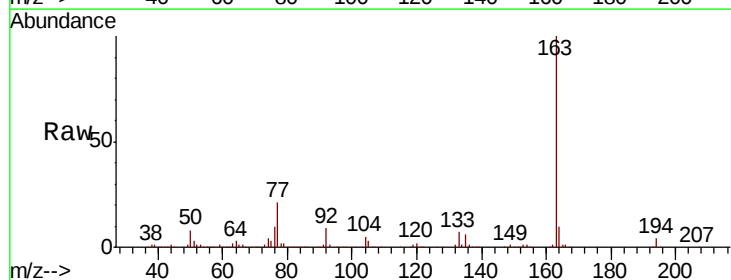
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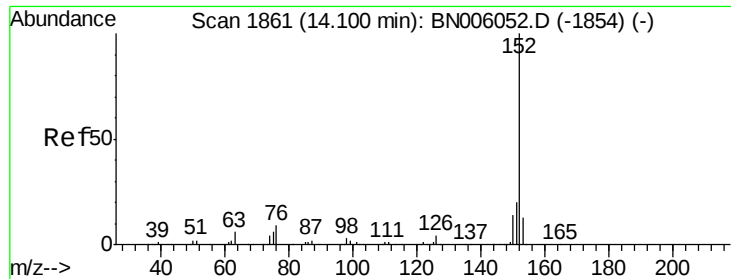
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#44  
Dimethylphthalate  
Concen: 8.512 ng/ul  
RT: 13.84 min Scan# 1816  
Delta R.T. 0.00 min  
Lab File: BN006054.D  
Acq: 04 Jun 2019 02:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.0   | 3.4   | 5.2   |
| 164     | 10.4  | 8.2   | 12.4  |





#47

Acenaphthylene

Concen: 2.145 ng/ul

RT: 14.10 min Scan# 1861

Delta R.T. 0.00 min

Lab File: BN006054.D

Acq: 04 Jun 2019 02:23

Instrument :

BNA\_N

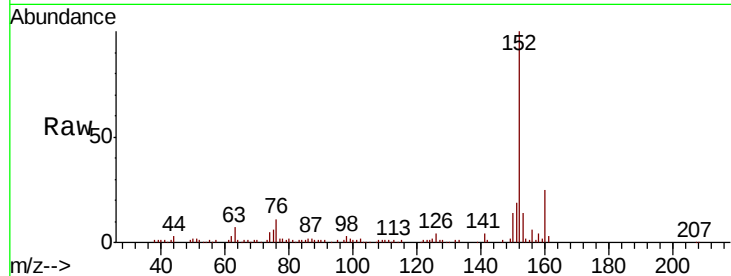
ClientSampled :

A42D7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.2  | 16.2  | 24.2  |
| 153     | 14.2  | 10.5  | 15.7  |

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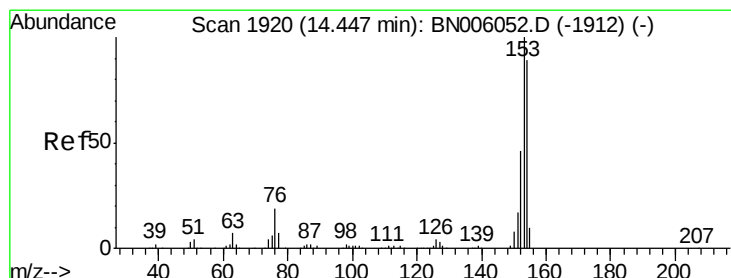
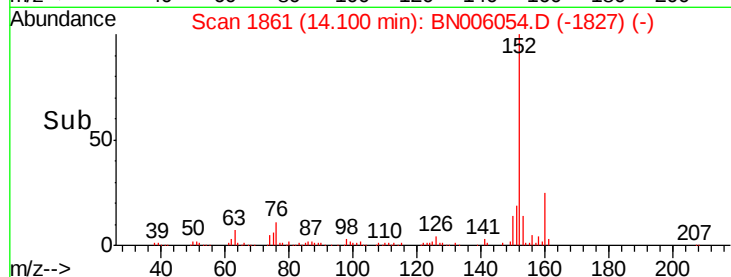
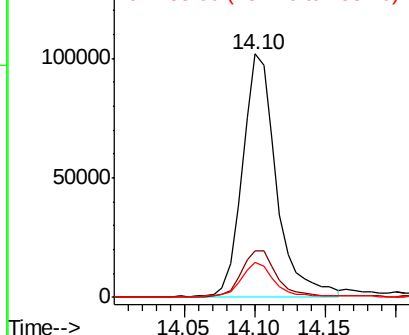


Abundance

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



#49

Acenaphthene

Concen: 7.567 ng/ul

RT: 14.45 min Scan# 1920

Delta R.T. 0.00 min

Lab File: BN006054.D

Acq: 04 Jun 2019 02:23

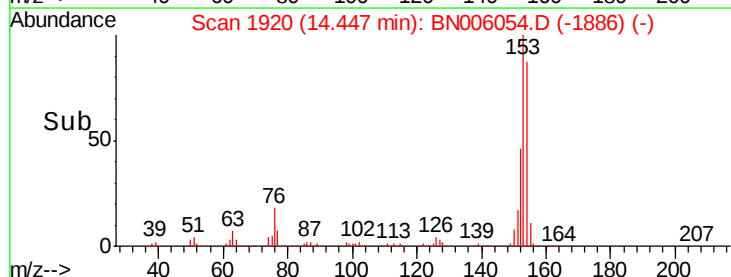
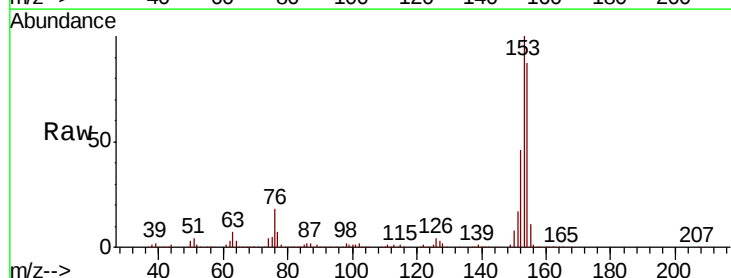
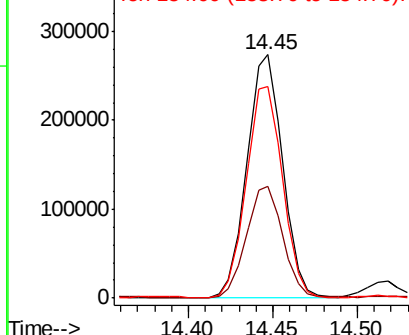
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 46.0  | 37.4  | 56.2  |
| 154     | 87.0  | 70.7  | 106.1 |

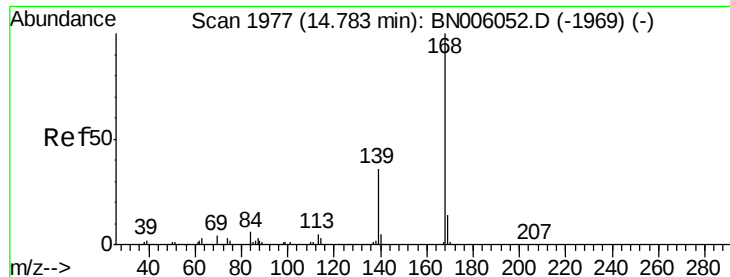
Abundance

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





#53

Dibenzo(f,h)quinoxaline

Concen: 3.484 ng/ul

RT: 14.78 min Scan# 1977

Delta R.T. 0.00 min

Lab File: BN006054.D

Acq: 04 Jun 2019 02:23

Instrument :

BNA\_N

ClientSampleId :

A42D7

Tot Ion:168 Resp: 263920

Ion Ratio Lower Upper

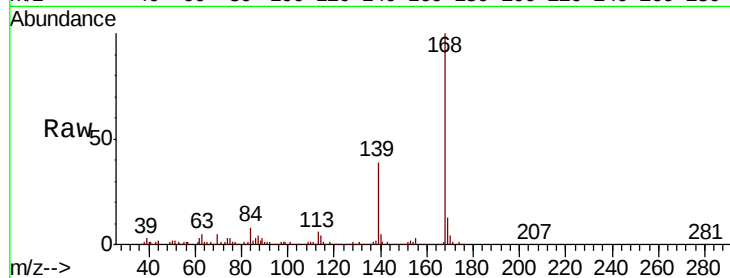
168 100

139 38.6 29.8 44.6

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Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

14.78

200000

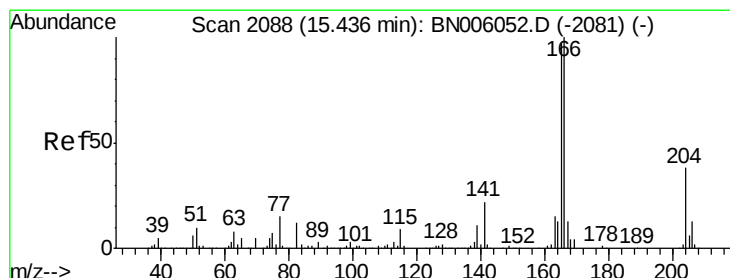
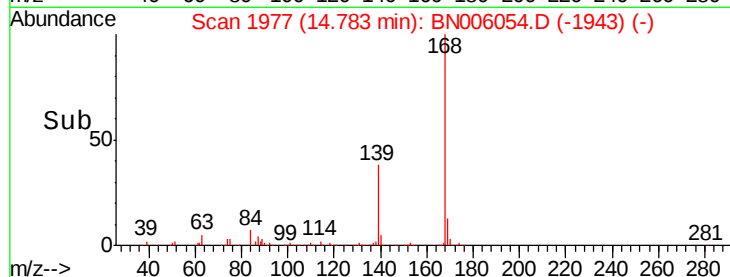
150000

100000

50000

0

Time--> 14.70 14.75 14.80 14.85



#58

Fluorene

Concen: 6.659 ng/ul

RT: 15.44 min Scan# 2088

Delta R.T. 0.00 min

Lab File: BN006054.D

Acq: 04 Jun 2019 02:23

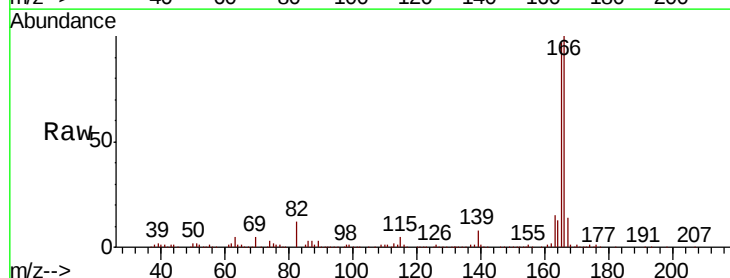
Tgt Ion:166 Resp: 389689

Ion Ratio Lower Upper

166 100

165 97.1 76.6 115.0

167 13.7 10.8 16.2



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

15.44

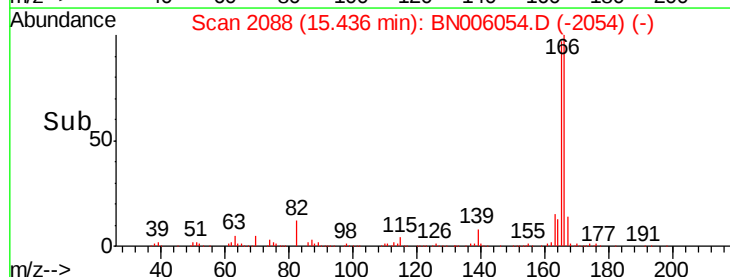
300000

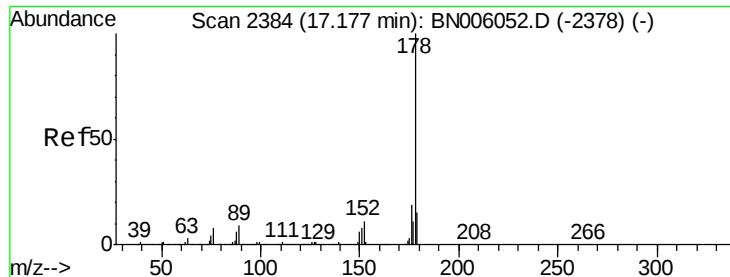
200000

100000

0

Time--> 15.40 15.45 15.50





#69

Phenanthrene

Concen: 56.873 ng/ul

RT: 17.18 min Scan# 2385

Delta R.T. 0.01 min

Lab File: BN006054.D

Acq: 04 Jun 2019 02:23

Instrument :

BNA\_N

ClientSampleId :

A42D7

Tot Ion:178 Resp: 4371396

Ion Ratio Lower Upper

178 100

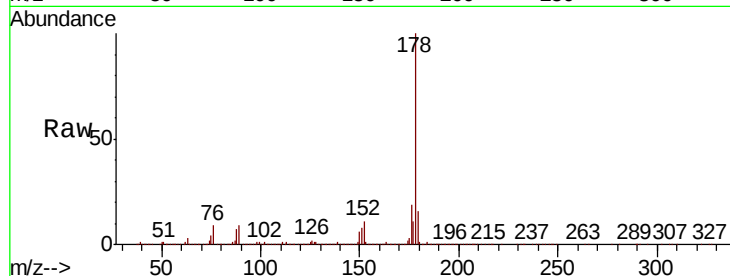
179 15.7 12.4 18.6

176 19.2 15.0 22.4

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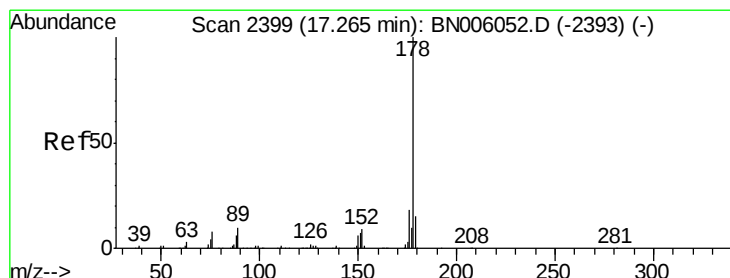
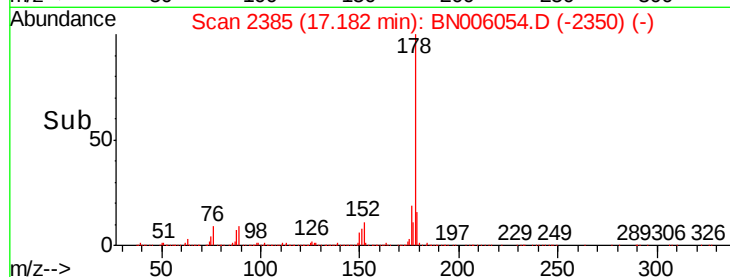
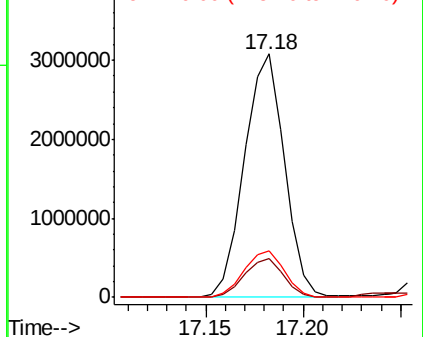


Abundance

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



#71

Anthracene

Concen: 16.583 ng/ul

RT: 17.27 min Scan# 2400

Delta R.T. -0.00 min

Lab File: BN006054.D

Acq: 04 Jun 2019 02:23

Tgt Ion:178 Resp: 1294356

Ion Ratio Lower Upper

178 100

179 15.8 12.4 18.6

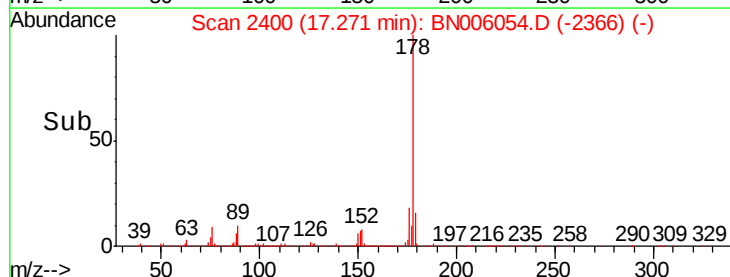
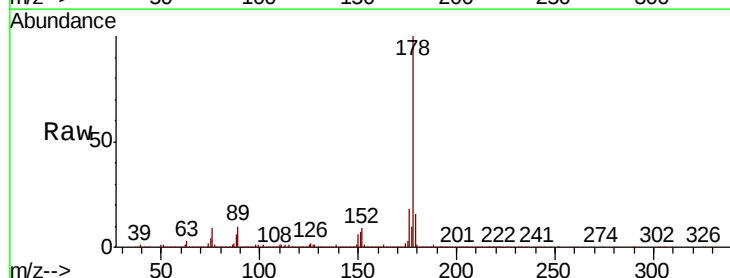
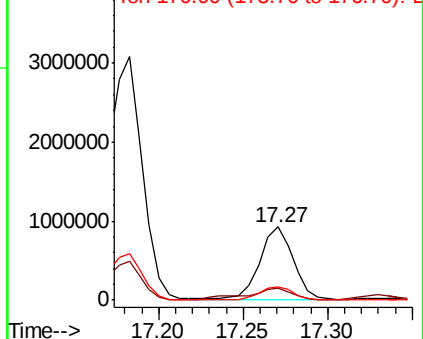
176 18.5 14.8 22.2

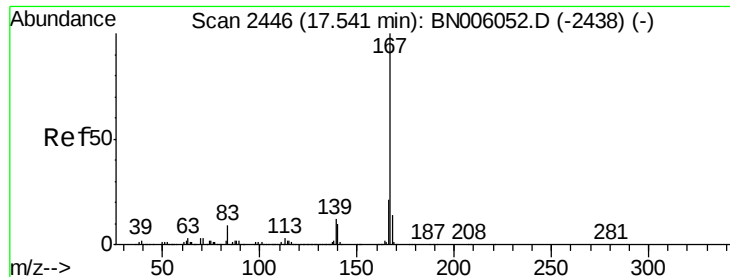
Abundance

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





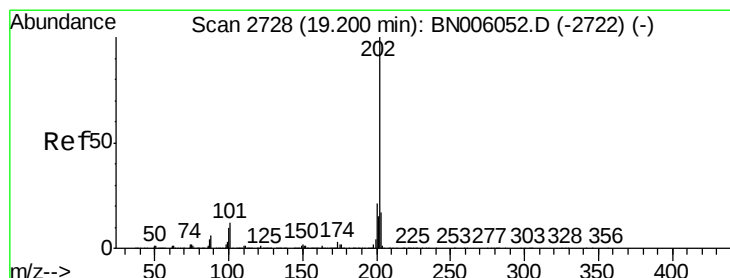
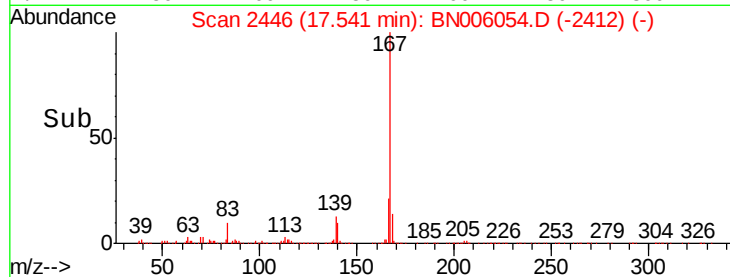
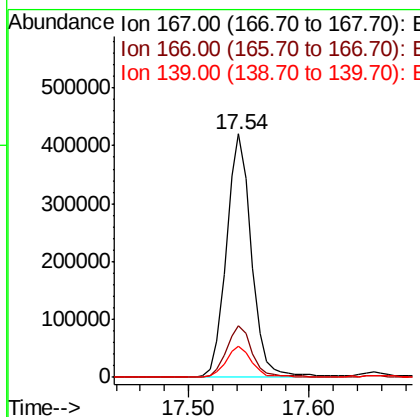
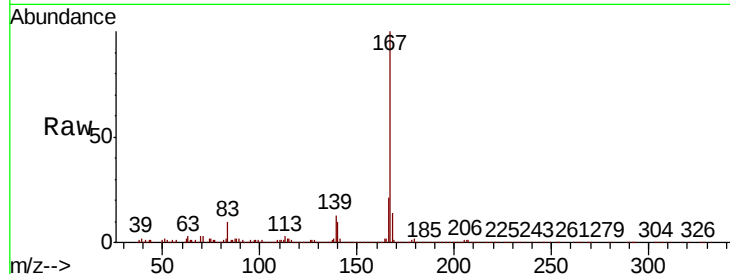
#74  
 Carbazole  
 Concen: 8.992 ng/ul  
 RT: 17.54 min Scan# 2446  
 Delta R.T. 0.00 min  
 Lab File: BN006054.D  
 Acq: 04 Jun 2019 02:23

Instrument :  
 BNA\_N  
 ClientSampled :  
 A42D7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.1  | 17.0  | 25.6  |
| 139     | 12.9  | 10.4  | 15.6  |

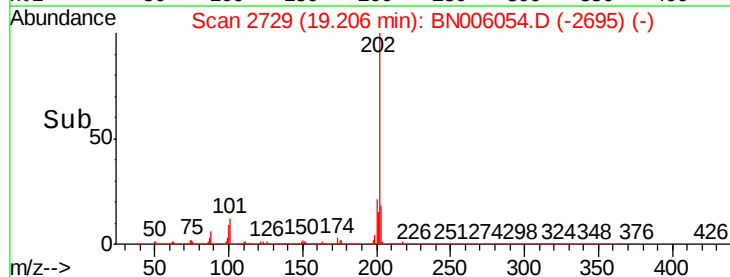
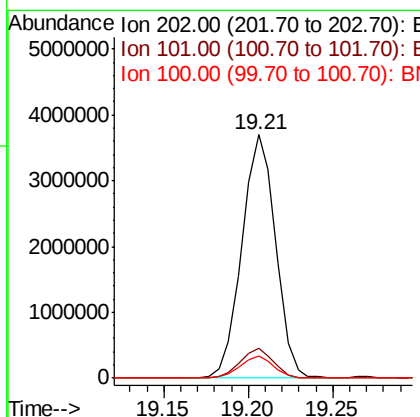
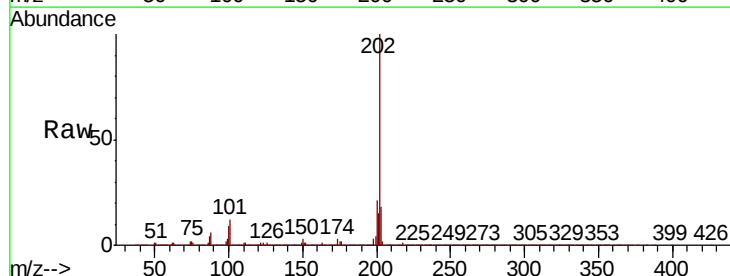
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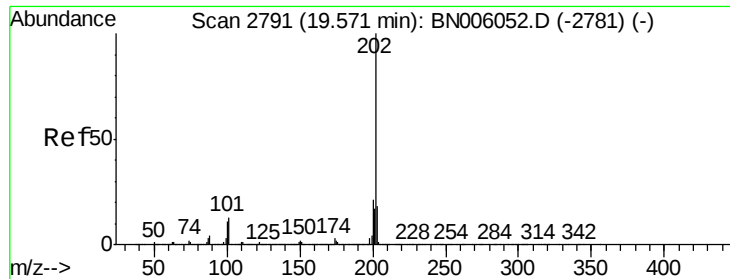
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#76  
 Fluoranthene  
 Concen: 68.695 ng/ul  
 RT: 19.21 min Scan# 2729  
 Delta R.T. 0.00 min  
 Lab File: BN006054.D  
 Acq: 04 Jun 2019 02:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.0  | 9.6   | 14.4  |
| 100     | 9.2   | 7.1   | 10.7  |





#79

Pvrene

Concen: 49.126 ng/ul

RT: 19.57 min Scan# 2791

Delta R.T. 0.00 min

Lab File: BN006054.D

Acq: 04 Jun 2019 02:23

Instrument :

BNA\_N

ClientSampleId :

A42D7

Tot Ion:202 Resp: 4259687

Ion Ratio Lower Upper

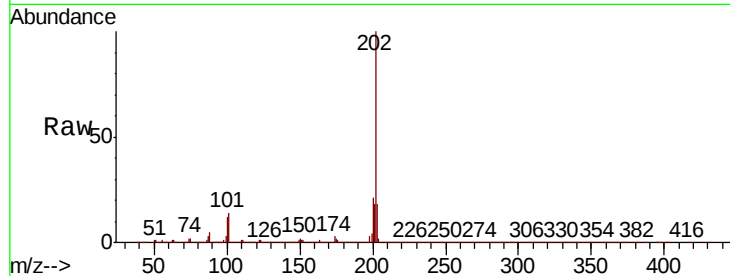
202 100

101 14.1 11.6 17.4

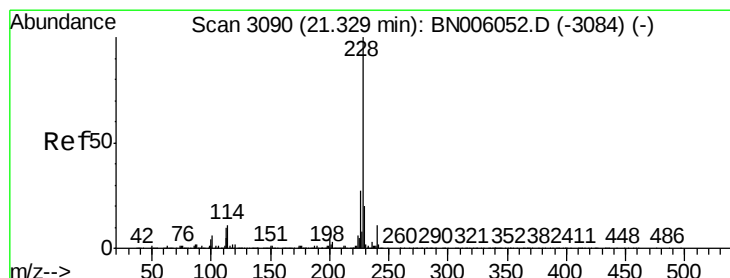
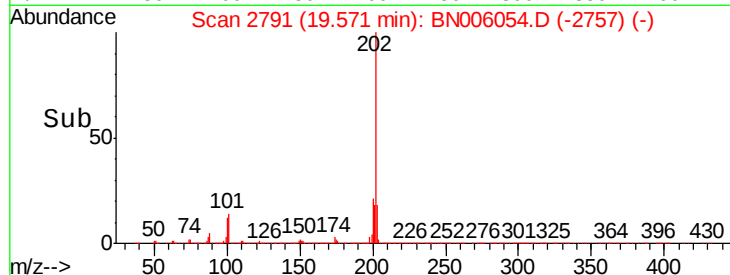
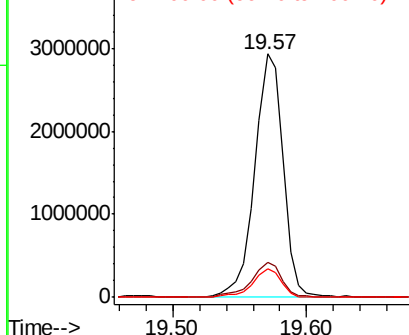
100 11.5 9.4 14.2

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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: 30.929 ng/ul

RT: 21.33 min Scan# 3090

Delta R.T. -0.01 min

Lab File: BN006054.D

Acq: 04 Jun 2019 02:23

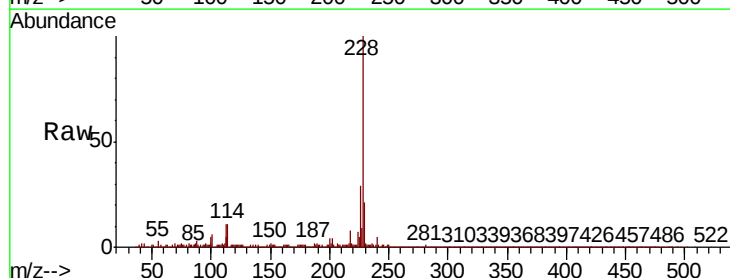
Tgt Ion:228 Resp: 2299160

Ion Ratio Lower Upper

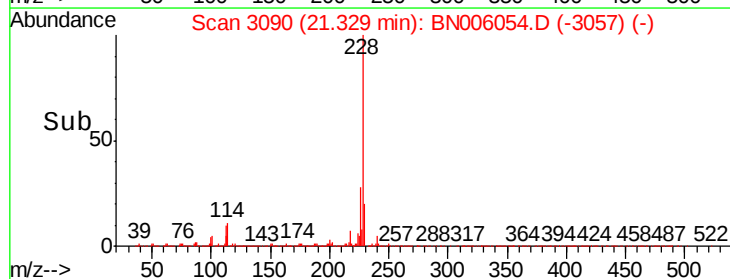
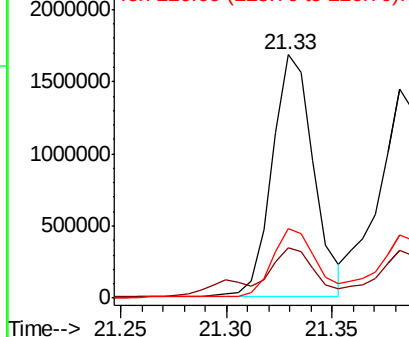
228 100

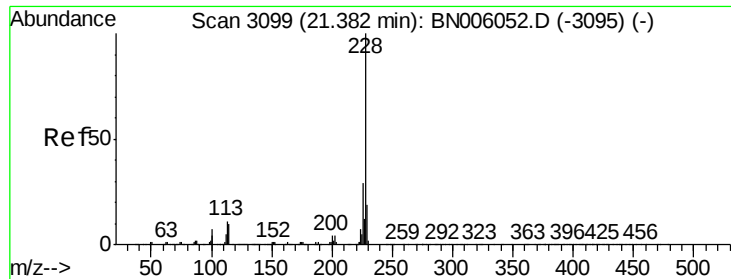
229 20.9 15.8 23.8

226 28.5 21.6 32.4



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: 30.385 ng/u1

RT: 21.38 min Scan# 3099

Delta R.T. -0.01 min

Lab File: BN006054.D

Acq: 04 Jun 2019 02:23

Instrument :

BNA\_N

ClientSampled :

A42D7

Tot Ion:228 Resp: 2137059

Ion Ratio Lower Upper

228 100

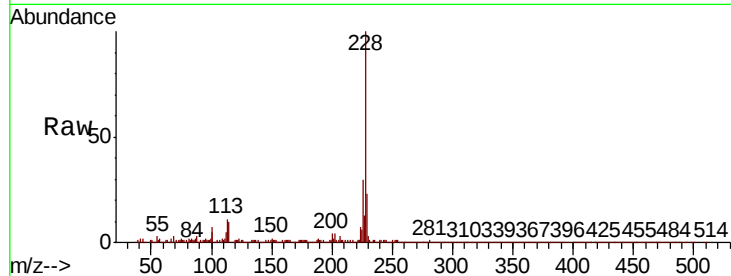
226 30.3 24.2 36.4

229 22.7 16.3 24.5

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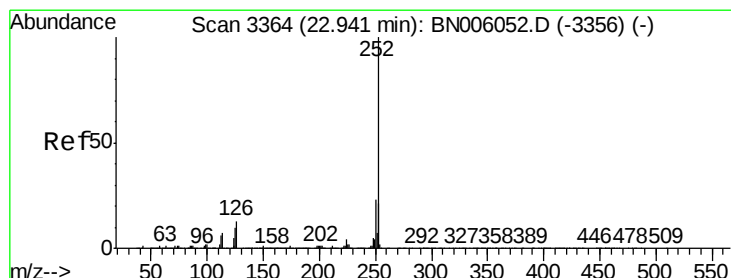
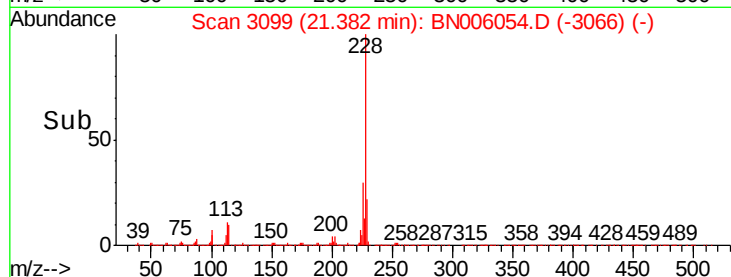
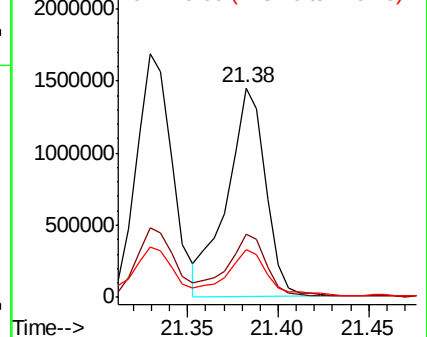


Abundance

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



#87

Benzo(b)fluoranthene

Concen: 35.797 ng/u1

RT: 22.95 min Scan# 3366

Delta R.T. 0.00 min

Lab File: BN006054.D

Acq: 04 Jun 2019 02:23

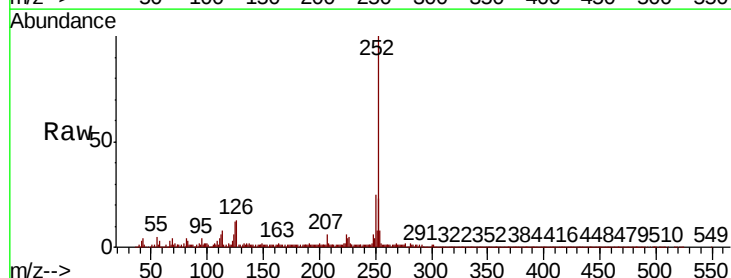
Tgt Ion:252 Resp: 2840292

Ion Ratio Lower Upper

252 100

253 23.0 17.3 25.9

125 11.9 8.5 12.7

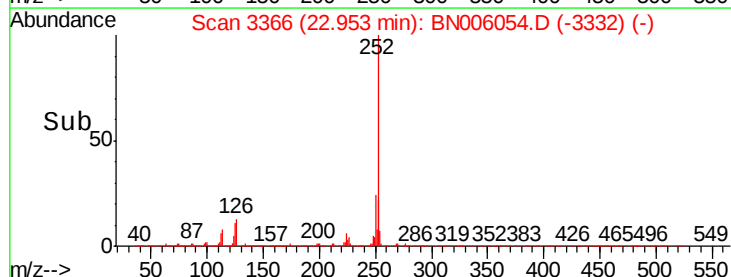
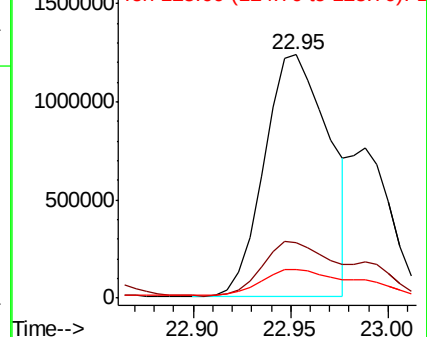


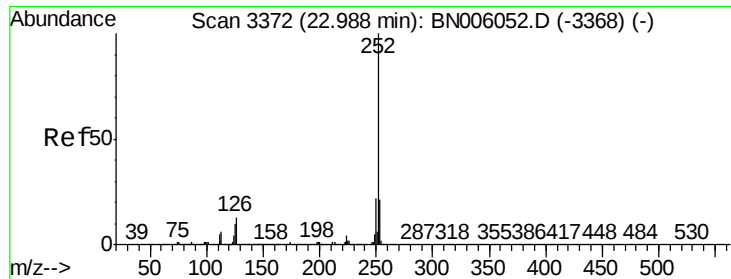
Abundance

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





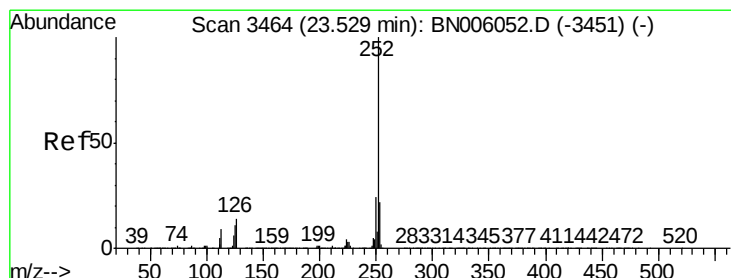
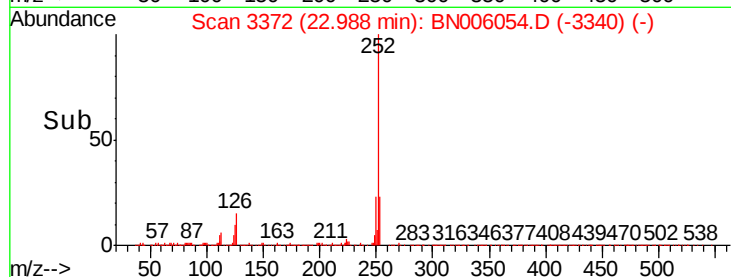
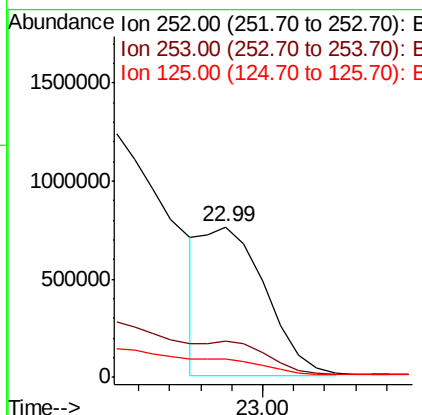
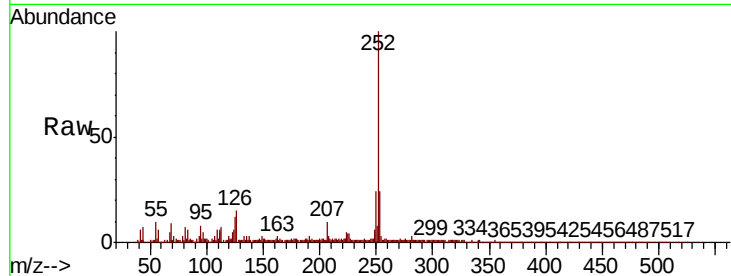
#88  
Benzo(k)fluoranthene  
Concen: 13.930 ng/ul m  
RT: 22.99 min Scan# 3372  
Delta R.T. -0.01 min  
Lab File: BN006054.D  
Acq: 04 Jun 2019 02:23

Instrument :  
BNA\_N  
ClientSampleId :  
A42D7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 17.5  | 26.3  |
| 125     | 12.1  | 8.2   | 12.4  |

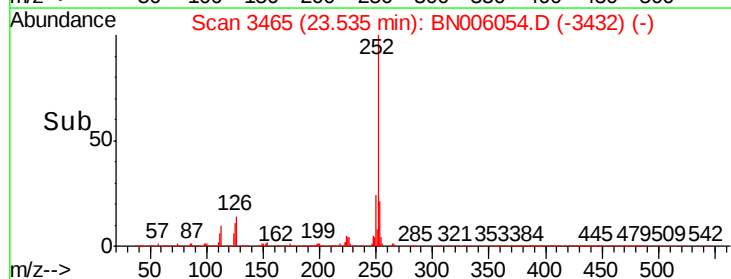
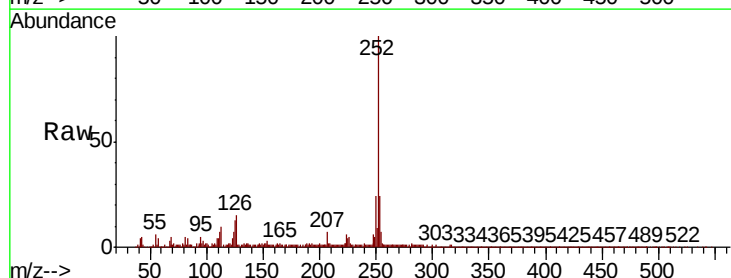
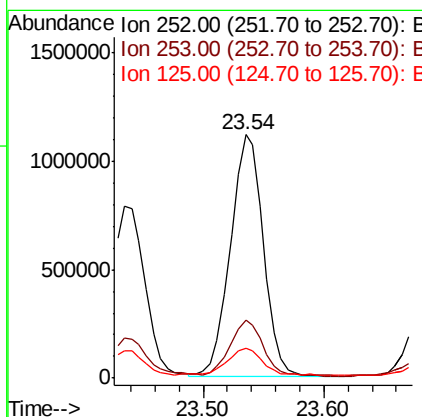
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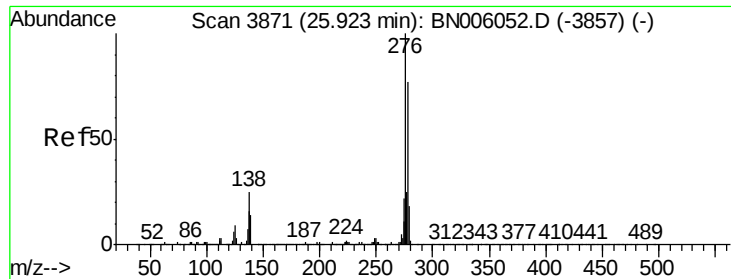
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#90  
Benzo(a)pyrene  
Concen: 27.824 ng/ul  
RT: 23.54 min Scan# 3465  
Delta R.T. -0.01 min  
Lab File: BN006054.D  
Acq: 04 Jun 2019 02:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 17.1  | 25.7  |
| 125     | 12.5  | 9.2   | 13.8  |





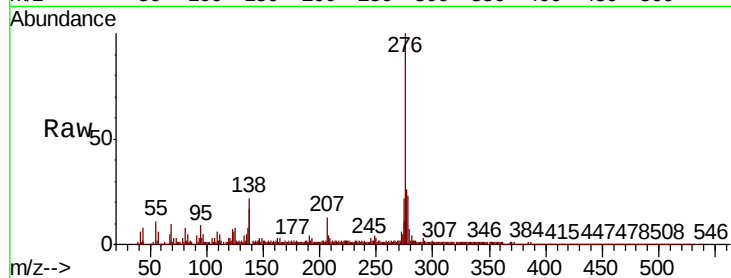
#91  
Indeno(1,2,3-cd)pyrene  
Concen: 18.380 ng/ul  
RT: 25.95 min Scan# 3875  
Delta R.T. 0.01 min  
Lab File: BN006054.D  
Acq: 04 Jun 2019 02:23

Instrument :  
BNA\_N  
ClientSampleId :  
A42D7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.8  | 21.4  | 32.2  |
| 277     | 26.2  | 20.2  | 30.2  |

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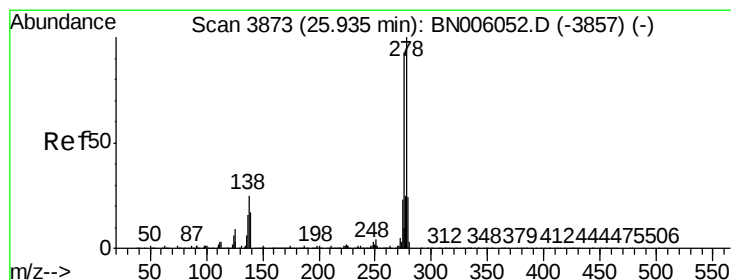
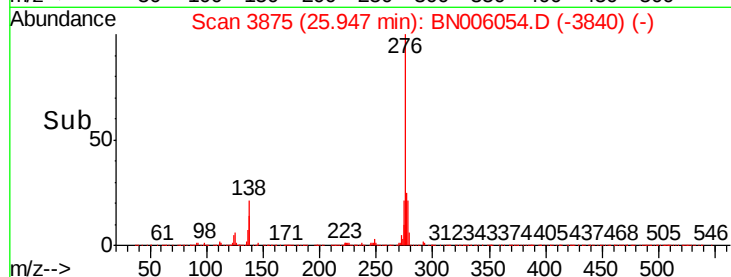
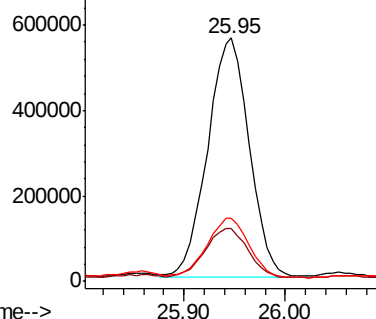


Abundance

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: 5.975 ng/ul  
RT: 25.94 min Scan# 3874  
Delta R.T. -0.01 min  
Lab File: BN006054.D  
Acq: 04 Jun 2019 02:23

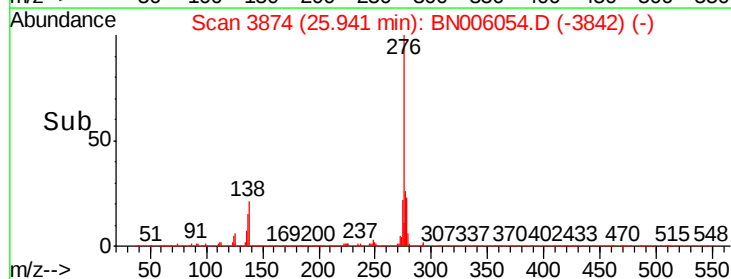
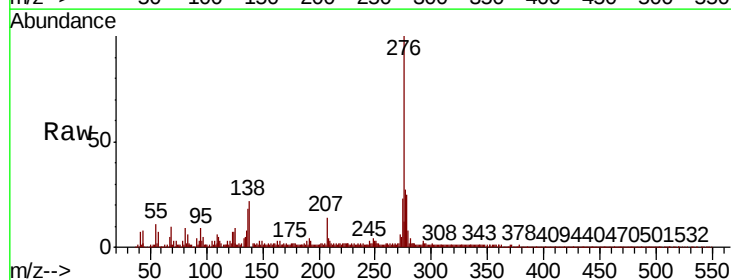
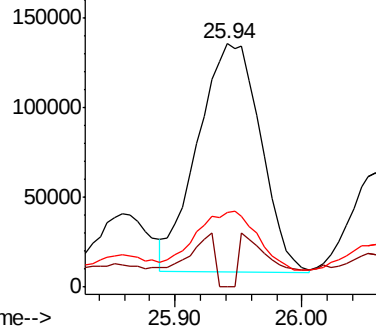
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 14.2  | 21.2# |
| 279     | 30.7  | 19.4  | 29.0# |

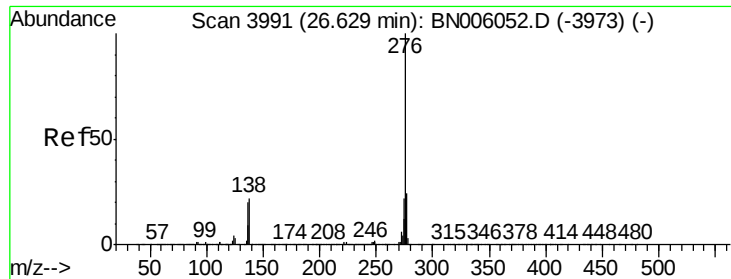
Abundance

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: 17.791 ng/ul

RT: 26.65 min Scan# 3995

Delta R.T. 0.01 min

Lab File: BN006054.D

Acq: 04 Jun 2019 02:23

Instrument :

BNA\_N

ClientSampleId :

A42D7

Tot Ion:276 Resp: 1271807

Ion Ratio Lower Upper

276 100

138 23.0 18.8 28.2

277 26.0 19.4 29.2

Manual Integrations

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