

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060119\  
 Data File : BN006016.D  
 Acq On : 02 Jun 2019 05:32  
 Operator : JU/SJ  
 Sample : K2928-14  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Jun 03 01:07:41 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN052819MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Jun 01 01:49:29 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.72  | 152  | 508674   | 20.00 | ng/ul | -0.02    |
| 18) Naphthalene-d8        | 10.51 | 136  | 2251251  | 20.00 | ng/ul | -0.02    |
| 35) Acenaphthene-d10      | 14.38 | 164  | 1286988  | 20.00 | ng/ul | -0.02    |
| 61) Phenanthrene-d10      | 17.14 | 188  | 2439236  | 20.00 | ng/ul | -0.02    |
| 77) Chrysene-d12          | 21.36 | 240  | 1408819  | 20.00 | ng/ul | -0.02    |
| 85) Perylene-d12          | 23.50 | 264  | 1060763  | 20.00 | ng/ul | -0.17    |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.25  | 96  | 26667   | 2.31  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.89  | 99  | 612192  | 13.58 | ng/ul | -0.02 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.06  | 67  | 353434  | 13.74 | ng/ul | -0.02 |
| 9) 2-Chlorophenol-d4           | 7.26  | 132 | 491659  | 14.32 | ng/ul | -0.01 |
| 13) 4-Methylphenol-d8          | 8.43  | 113 | 480445  | 13.20 | ng/ul | -0.02 |
| 19) Nitrobenzene-d5            | 8.88  | 128 | 239215  | 16.56 | ng/ul | -0.02 |
| 22) 2-Nitrophenol-d4           | 9.60  | 143 | 266196  | 19.78 | ng/ul | -0.02 |
| 26) 2,4-Dichlorophenol-d3      | 10.14 | 165 | 468043  | 14.73 | ng/ul | -0.02 |
| 29) 4-Chloroaniline-d4         | 10.65 | 131 | 182444  | 4.38  | ng/ul | -0.02 |
| 43) Dimethylphthalate-d6       | 13.79 | 166 | 1405992 | 14.82 | ng/ul | -0.02 |
| 46) Acenaphthylene-d8          | 14.07 | 160 | 1747118 | 14.72 | ng/ul | -0.02 |
| 51) 4-Nitrophenol-d4           | 14.58 | 143 | 198021  | 11.47 | ng/ul | -0.03 |
| 57) Fluorene-d10               | 15.38 | 176 | 1173591 | 14.75 | ng/ul | -0.02 |
| 62) 4,6-Dinitro-2-methylphenol | 15.51 | 200 | 146998  | 14.79 | ng/ul | -0.02 |
| 70) Anthracene-d10             | 17.24 | 188 | 1572688 | 15.15 | ng/ul | -0.02 |
| 78) Pyrene-d10                 | 19.55 | 212 | 1235458 | 17.36 | ng/ul | -0.02 |
| 89) Benzo(a)pyrene-d12         | 23.50 | 264 | 1075372 | 22.72 | ng/ul | -0.02 |

## Target Compounds

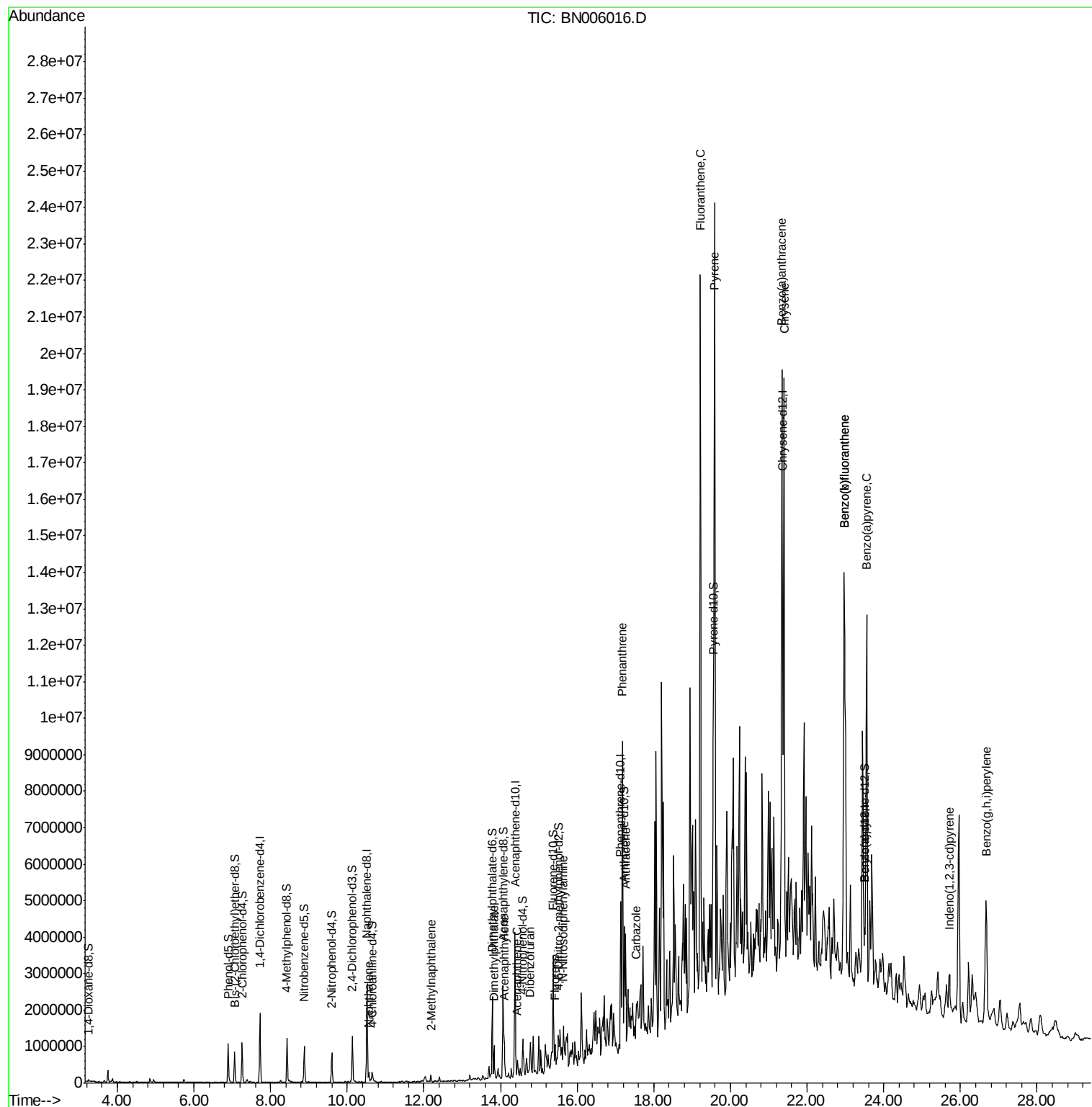
|                            |       |     |          |         | Ovalue |     |
|----------------------------|-------|-----|----------|---------|--------|-----|
| 28) Naphthalene            | 10.57 | 128 | 197653   | 1.850   | ng/ul  | 98  |
| 34) 2-Methylnaphthalene    | 12.18 | 142 | 93514    | 1.188   | ng/ul  | 100 |
| 44) Dimethylphthalate      | 13.84 | 163 | 494684   | 5.217   | ng/ul  | 99  |
| 47) Acenaphthylene         | 14.10 | 152 | 594969   | 5.112   | ng/ul  | 97  |
| 49) Acenaphthene           | 14.44 | 153 | 176173   | 2.228   | ng/ul  | 98  |
| 53) Dibenzofuran           | 14.78 | 168 | 120014   | 1.075   | ng/ul# | 84  |
| 58) Fluorene               | 15.43 | 166 | 193712   | 2.210   | ng/ul# | 95  |
| 64) N-Nitrosodiphenylamine | 15.65 | 169 | 203682   | 2.995   | ng/ul# | 78  |
| 69) Phenanthrene           | 17.18 | 178 | 5157172  | 42.672  | ng/ul  | 98  |
| 71) Anthracene             | 17.27 | 178 | 1842864  | 15.020  | ng/ul  | 99  |
| 74) Carbazole              | 17.54 | 167 | 186942   | 1.691   | ng/ul# | 72  |
| 76) Fluoranthene           | 19.22 | 202 | 13789329 | 106.880 | ng/ul# | 94  |
| 79) Pyrene                 | 19.59 | 202 | 15673912 | 175.632 | ng/ul# | 93  |
| 82) Benzo(a)anthracene     | 21.34 | 228 | 9570828  | 108.070 | ng/ul  | 91  |
| 84) Chrysene               | 21.40 | 228 | 9767174  | 118.249 | ng/ul# | 94  |
| 87) Benzo(b)fluoranthene   | 22.97 | 252 | 10374877 | 174.134 | ng/ul  | 98  |
| 88) Benzo(k)fluoranthene   | 22.97 | 252 | 10374877 | 189.391 | ng/ul  | 96  |
| 90) Benzo(a)pyrene         | 23.55 | 252 | 8093822  | 144.056 | ng/ul  | 97  |
| 91) Indeno(1,2,3-cd)pyrene | 25.71 | 276 | 648073   | 9.830   | ng/ul  | 95  |
| 93) Benzo(g,h,i)perylene   | 26.68 | 276 | 3255060  | 58.621  | ng/ul  | 96  |

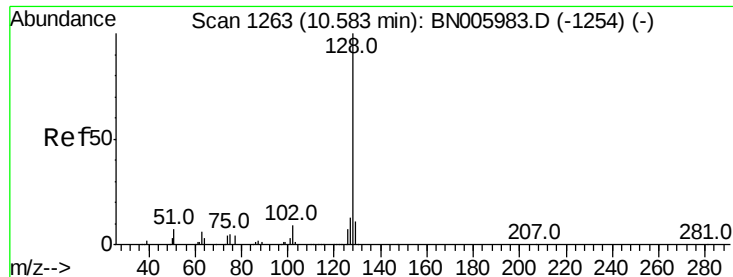
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060119\  
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Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampled :

Quant Time: Jun 03 01:07:41 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN052819MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Jun 01 01:49:29 2019  
Response via : Initial Calibration





#28

Naphthalene

Concen: 1.850 ng/ul

RT: 10.57 min Scan# 1260

Delta R.T. -0.02 min

Lab File: BN006016.D

Acq: 02 Jun 2019 05:32

Instrument :

BNA\_N

ClientSampleId :

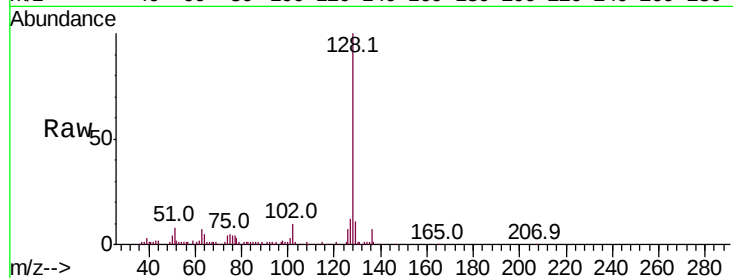
Tot Ion:128 Resp: 197653

Ion Ratio Lower Upper

128 100

129 11.3 9.2 13.8

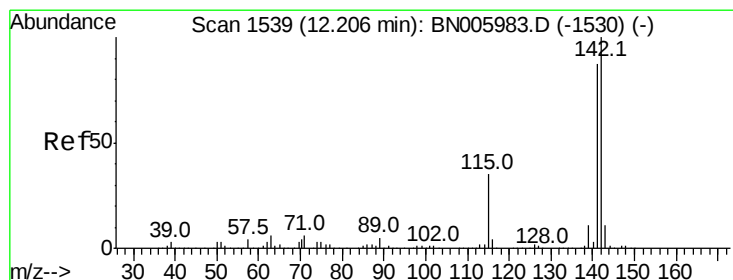
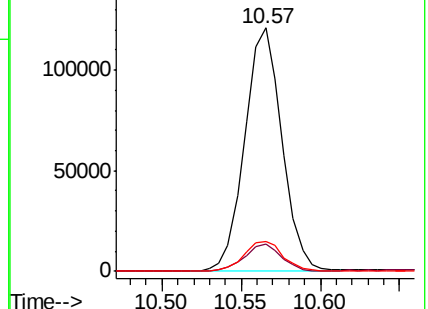
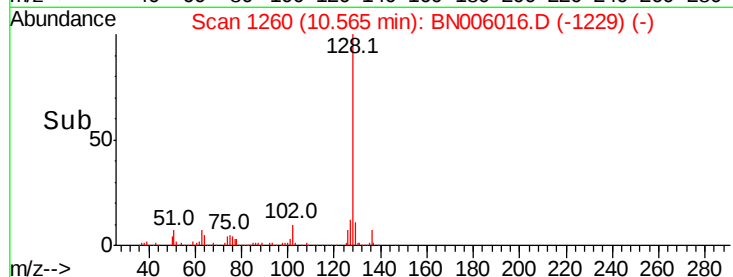
127 12.5 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#34

2-Methylnaphthalene

Concen: 1.188 ng/ul

RT: 12.18 min Scan# 1535

Delta R.T. -0.02 min

Lab File: BN006016.D

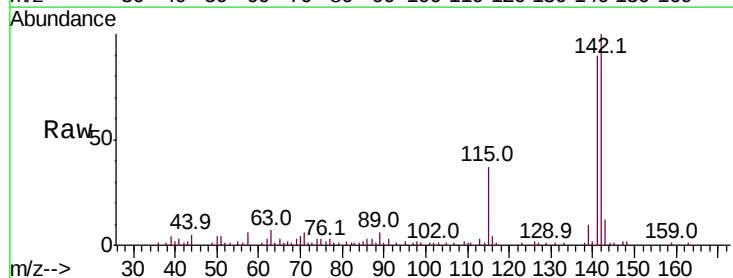
Acq: 02 Jun 2019 05:32

Tgt Ion:142 Resp: 93514

Ion Ratio Lower Upper

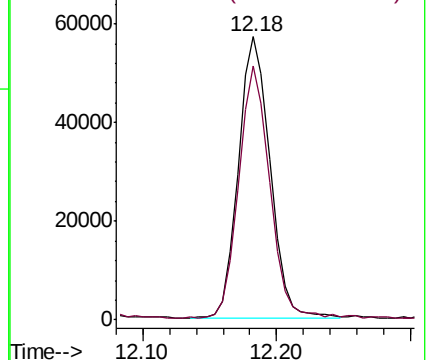
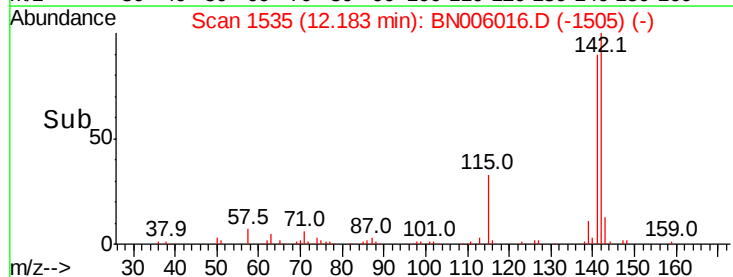
142 100

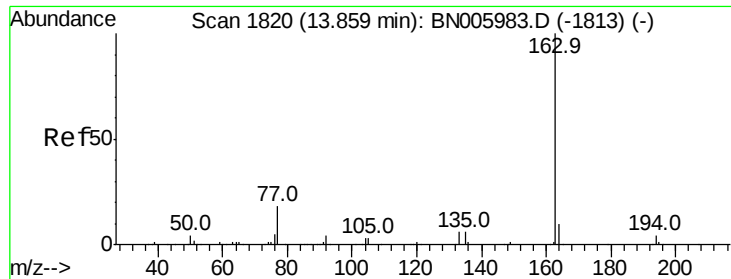
141 89.7 72.0 108.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#44

Dimethylphthalate

Concen: 5.217 ng/ul

RT: 13.84 min Scan# 1816

Delta R.T. -0.02 min

Lab File: BN006016.D

Acq: 02 Jun 2019 05:32

Instrument :

BNA\_N

ClientSampled :

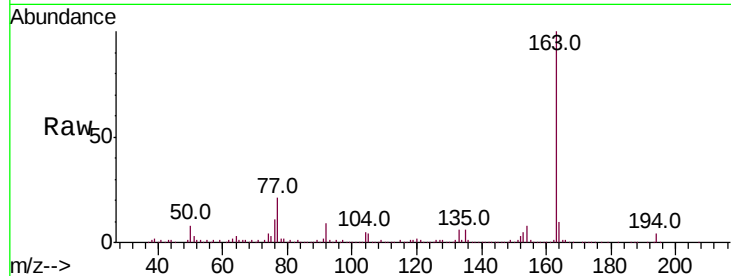
Tot Ion:163 Resp: 494684

Ion Ratio Lower Upper

163 100

194 4.3 3.4 5.0

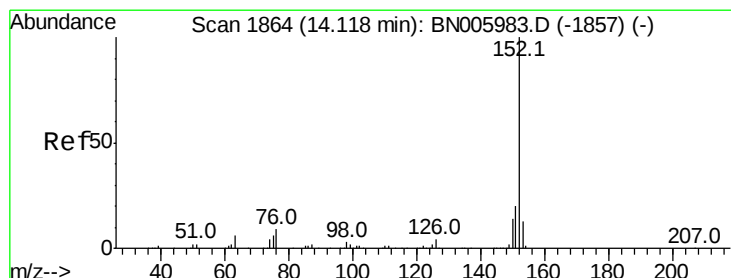
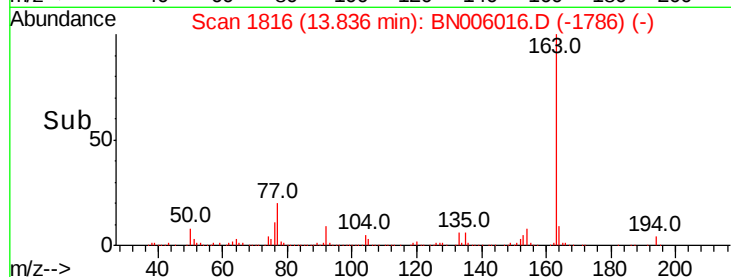
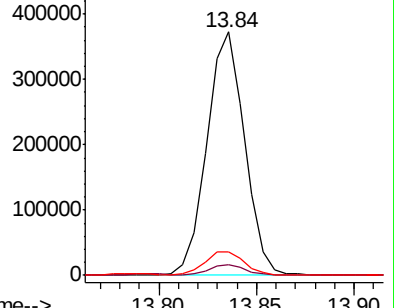
164 9.6 8.1 12.1



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: 5.112 ng/ul

RT: 14.10 min Scan# 1861

Delta R.T. -0.02 min

Lab File: BN006016.D

Acq: 02 Jun 2019 05:32

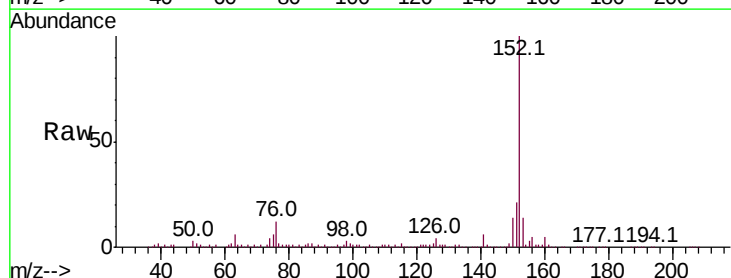
Tgt Ion:152 Resp: 594969

Ion Ratio Lower Upper

152 100

151 20.6 15.8 23.8

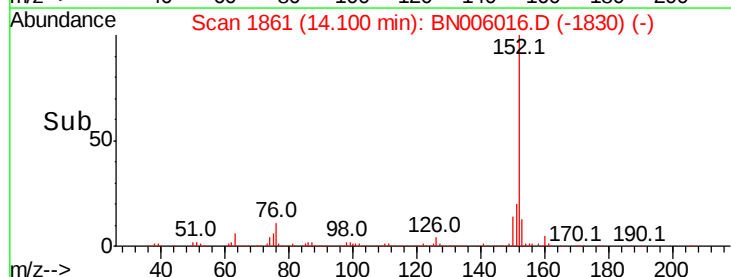
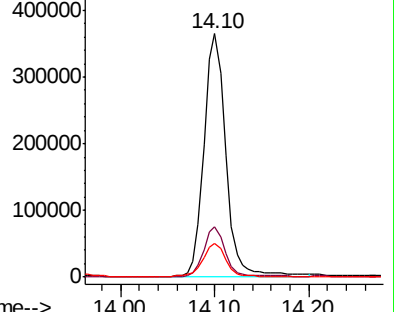
153 14.0 9.8 14.8

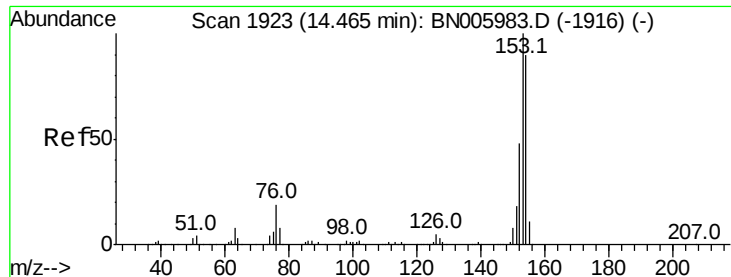


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 2.228 ng/ul

RT: 14.44 min Scan# 1919

Delta R.T. -0.02 min

Lab File: BN006016.D

Acq: 02 Jun 2019 05:32

Instrument :

BNA\_N

ClientSampleId :

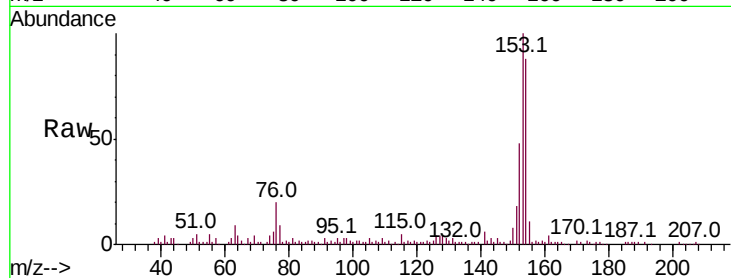
Tot Ion:153 Resp: 176173

Ion Ratio Lower Upper

153 100

152 48.3 37.4 56.0

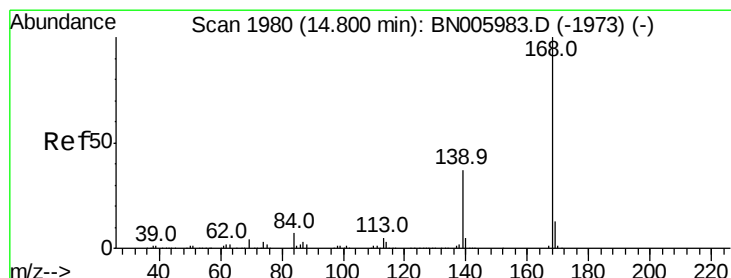
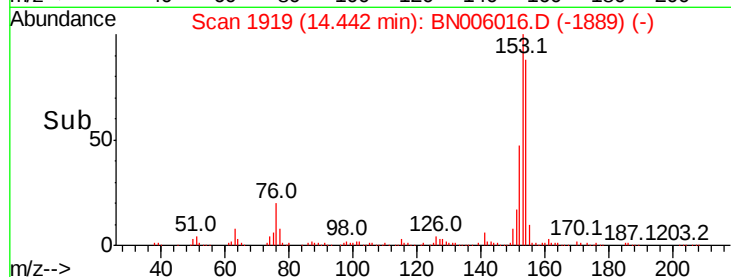
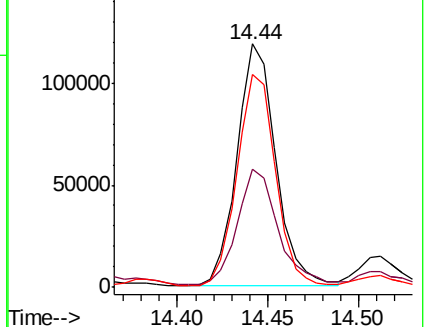
154 87.5 71.2 106.8



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

Dibenzofuran

Concen: 1.075 ng/ul

RT: 14.78 min Scan# 1976

Delta R.T. -0.02 min

Lab File: BN006016.D

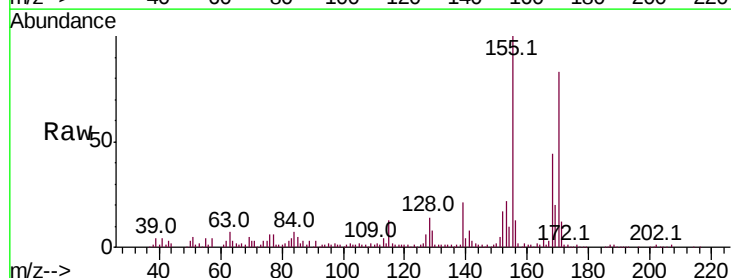
Acq: 02 Jun 2019 05:32

Tgt Ion:168 Resp: 120014

Ion Ratio Lower Upper

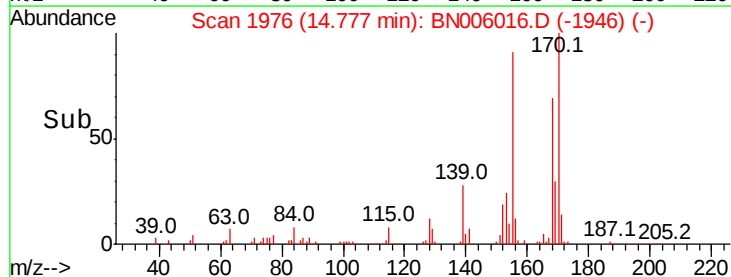
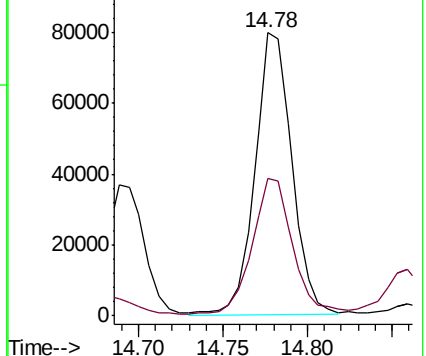
168 100

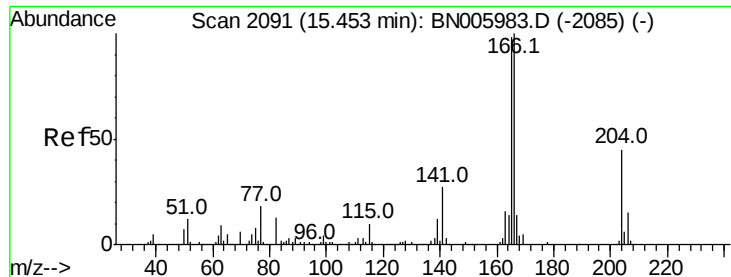
139 48.4 30.9 46.3#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 2.210 ng/ul

RT: 15.43 min Scan# 2087

Delta R.T. -0.02 min

Lab File: BN006016.D

Acq: 02 Jun 2019 05:32

Instrument :

BNA\_N

ClientSampleId :

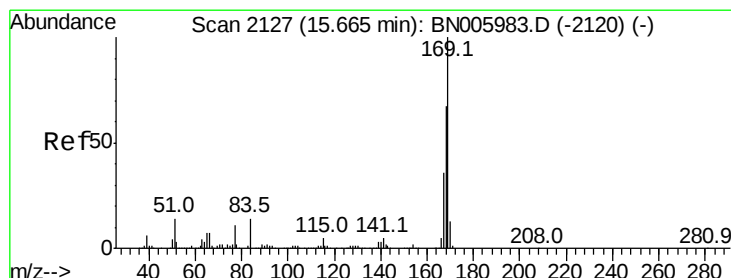
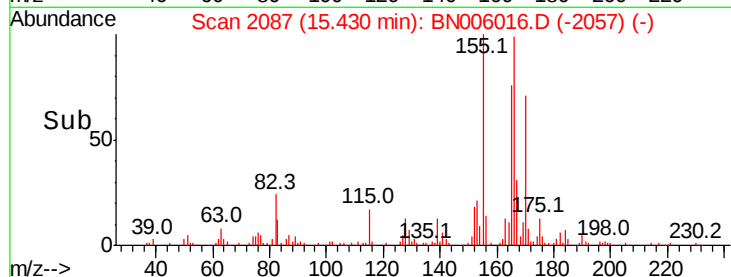
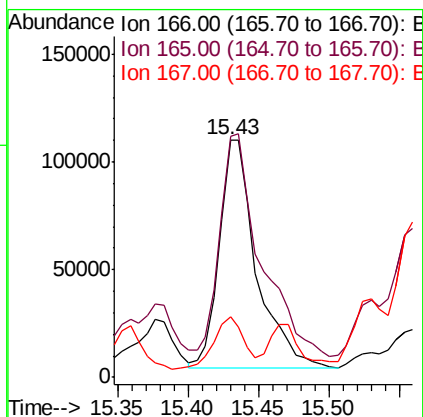
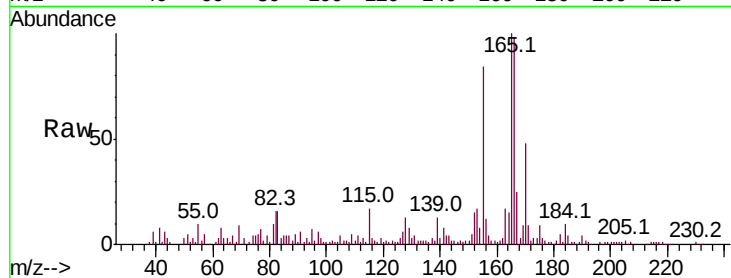
Tot Ion:166 Resp: 193712

Ion Ratio Lower Upper

166 100

165 101.5 80.0 120.0

167 25.7 10.7 16.1#



#64

N-Nitrosodiphenylamine

Concen: 2.995 ng/ul

RT: 15.65 min Scan# 2124

Delta R.T. -0.02 min

Lab File: BN006016.D

Acq: 02 Jun 2019 05:32

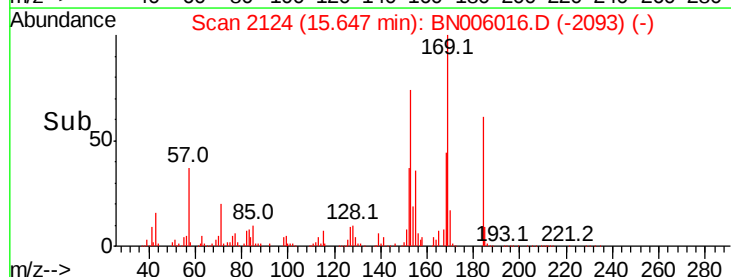
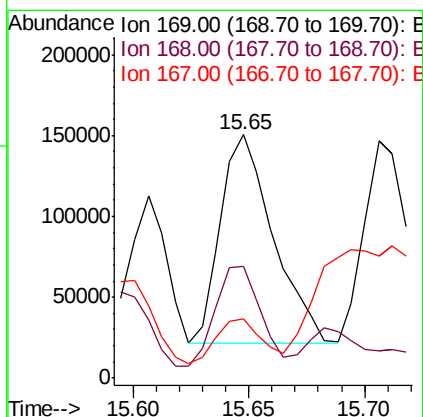
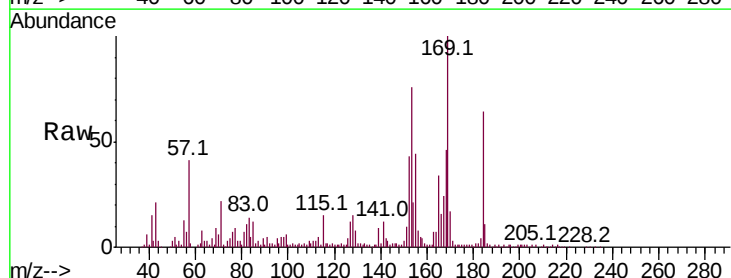
Tgt Ion:169 Resp: 203682

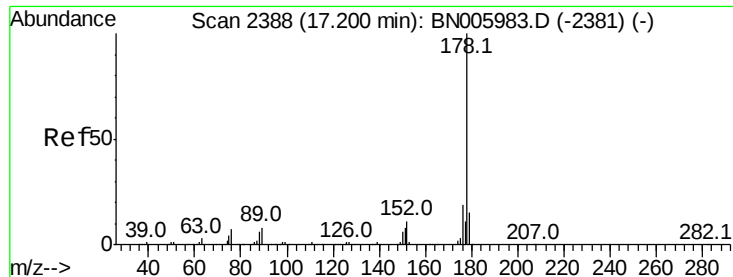
Ion Ratio Lower Upper

169 100

168 45.7 52.2 78.2#

167 24.4 27.7 41.5#





#69

Phenanthrene

Concen: 42.672 ng/ul

RT: 17.18 min Scan# 2385

Delta R.T. -0.02 min

Lab File: BN006016.D

Acq: 02 Jun 2019 05:32

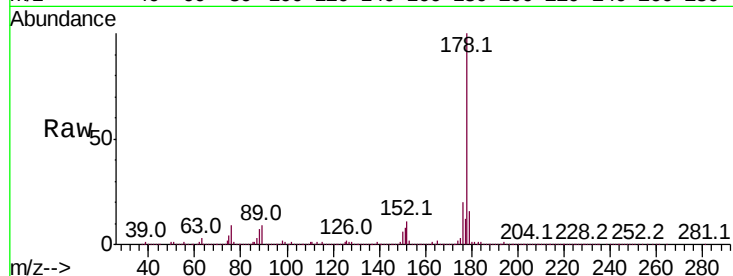
Instrument :

BNA\_N

ClientSampleId :

Tot Ion:178 Resp: 5157172

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 16.3  | 12.2  | 18.4  |
| 176 | 19.5  | 15.1  | 22.7  |

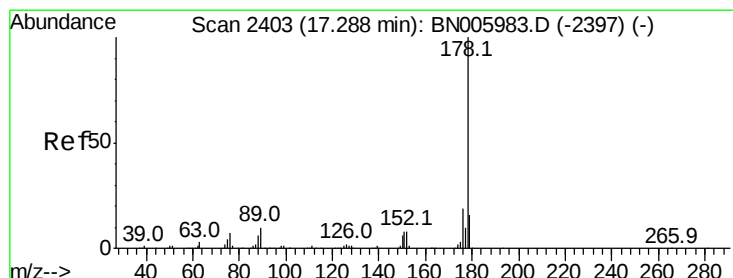
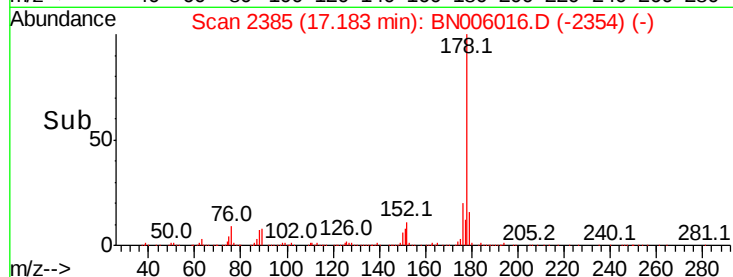
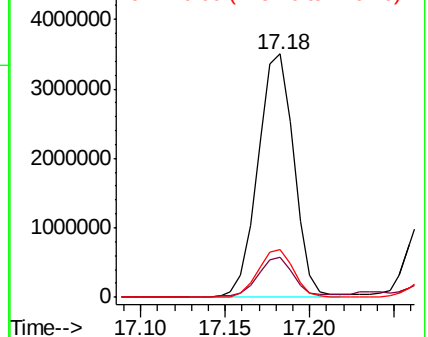


Abundance

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: 15.020 ng/ul

RT: 17.27 min Scan# 2400

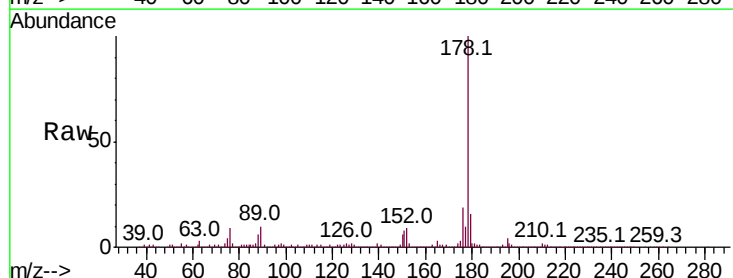
Delta R.T. -0.02 min

Lab File: BN006016.D

Acq: 02 Jun 2019 05:32

Tgt Ion:178 Resp: 1842864

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 16.0  | 12.3  | 18.5  |
| 176 | 18.7  | 15.1  | 22.7  |

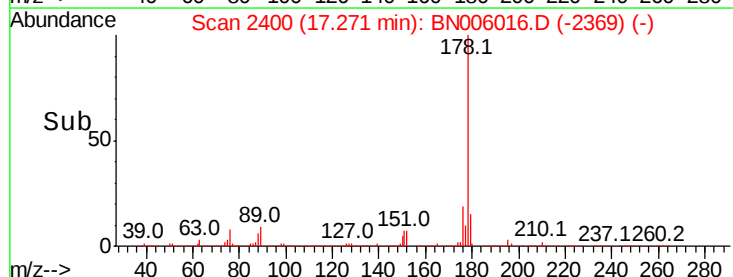
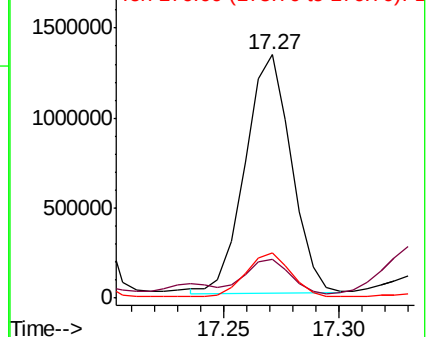


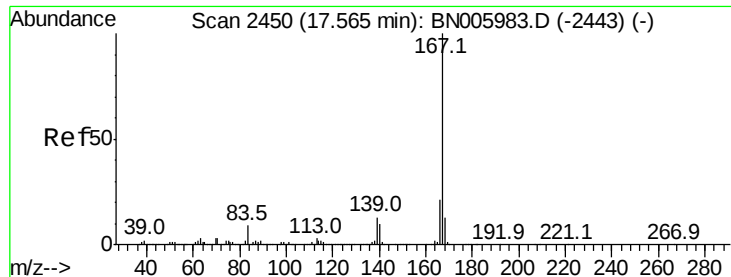
Abundance

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: 1.691 ng/ul

RT: 17.54 min Scan# 2446

Delta R.T. -0.02 min

Lab File: BN006016.D

Acq: 02 Jun 2019 05:32

Instrument :

BNA\_N

ClientSampleId :

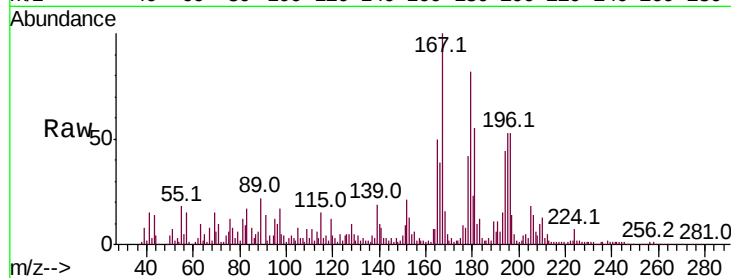
Tot Ion:167 Resp: 186942

Ion Ratio Lower Upper

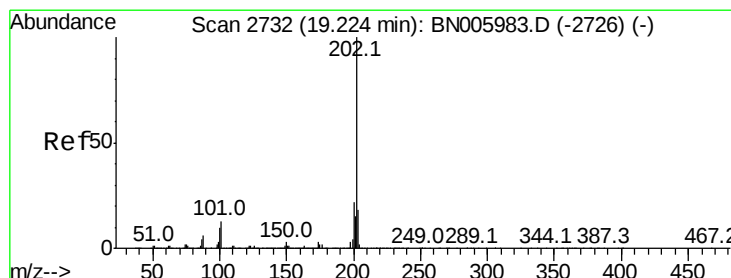
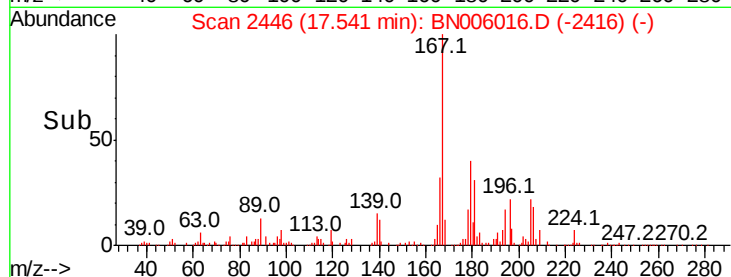
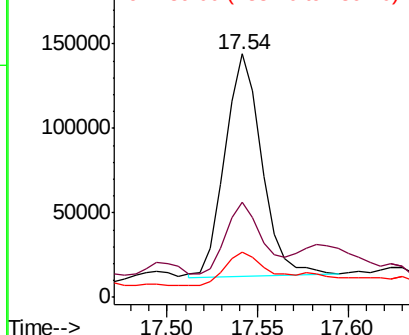
167 100

166 39.1 17.2 25.8#

139 18.5 10.6 16.0#



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



#76

Fluoranthene

Concen: 106.880 ng/ul

RT: 19.22 min Scan# 2731

Delta R.T. -0.01 min

Lab File: BN006016.D

Acq: 02 Jun 2019 05:32

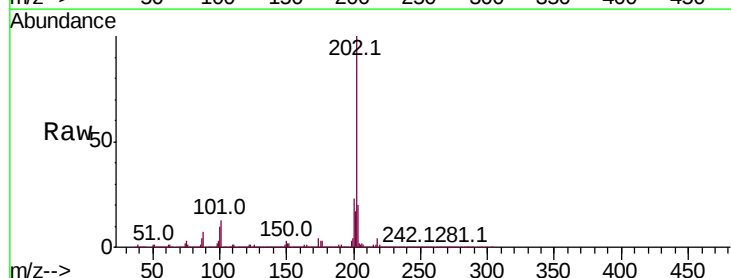
Tgt Ion:202 Resp:13789329

Ion Ratio Lower Upper

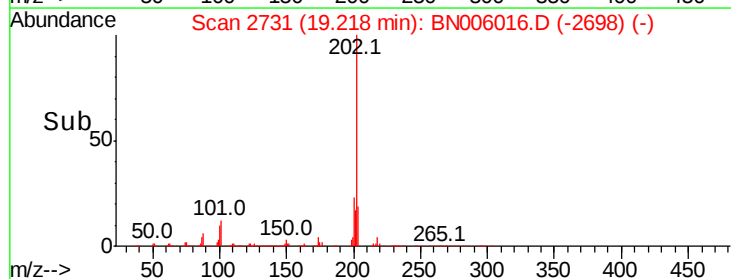
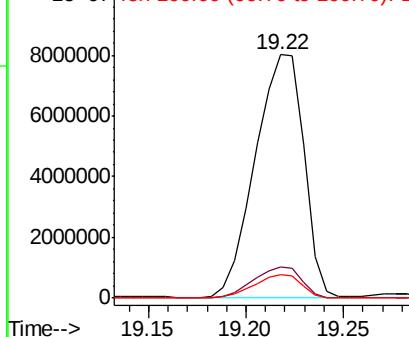
202 100

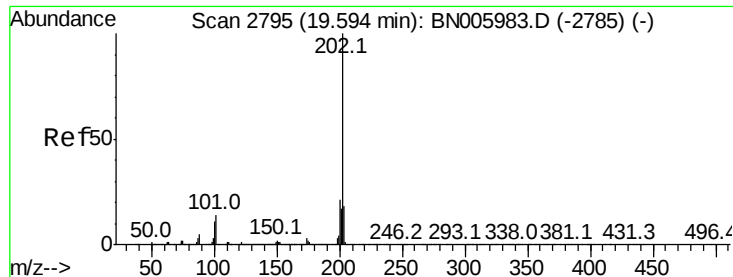
101 13.0 8.6 12.8#

100 9.8 6.3 9.5#



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





#79

Pvrene

Concen: 175.632 ng/ul

RT: 19.59 min Scan# 2794

Delta R.T. -0.01 min

Lab File: BN006016.D

Acq: 02 Jun 2019 05:32

Instrument :

BNA\_N

ClientSampled :

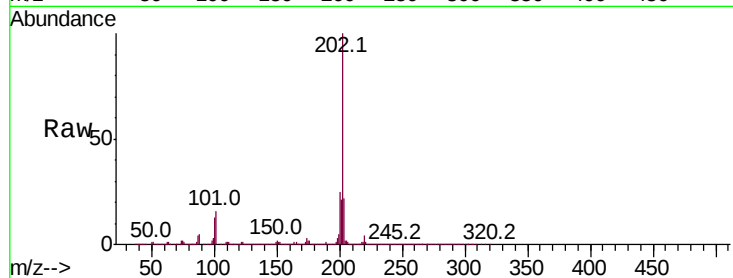
Tot Ion:202 Resp:15673912

Ion Ratio Lower Upper

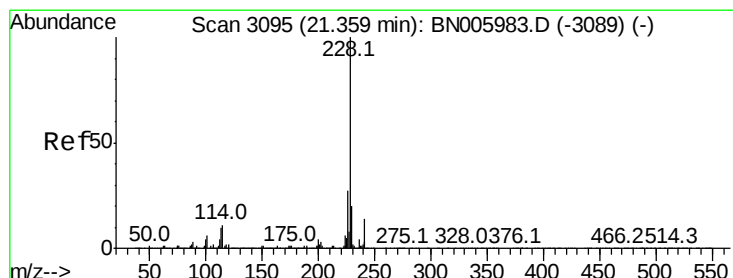
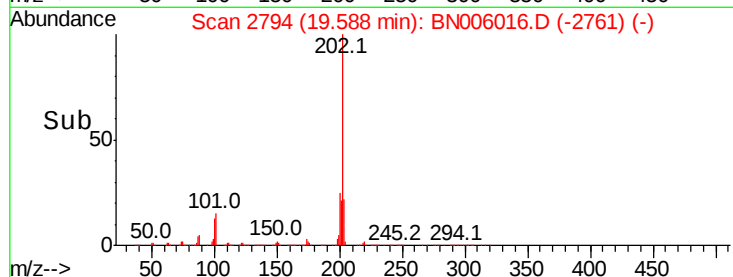
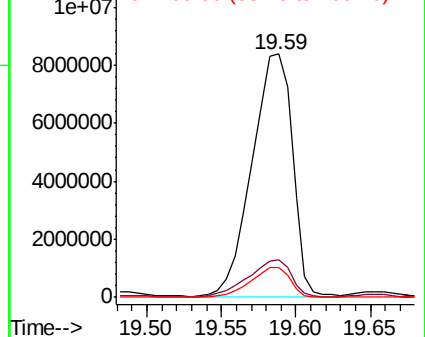
202 100

101 15.6 10.3 15.5#

100 12.5 7.9 11.9#



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: 108.070 ng/ul

RT: 21.34 min Scan# 3092

Delta R.T. -0.02 min

Lab File: BN006016.D

Acq: 02 Jun 2019 05:32

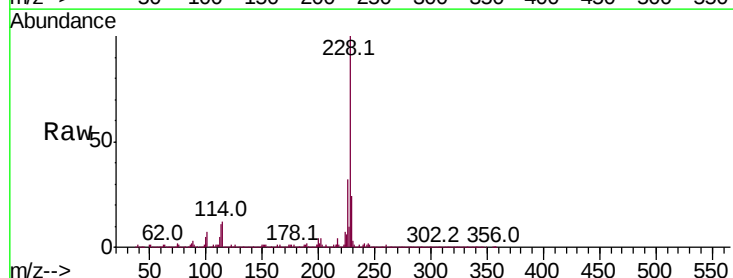
Tgt Ion:228 Resp: 9570828

Ion Ratio Lower Upper

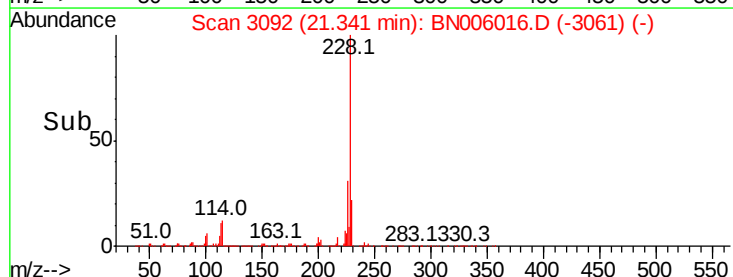
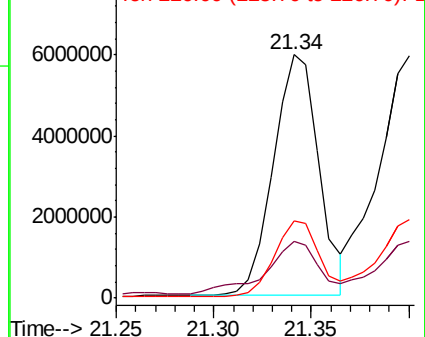
228 100

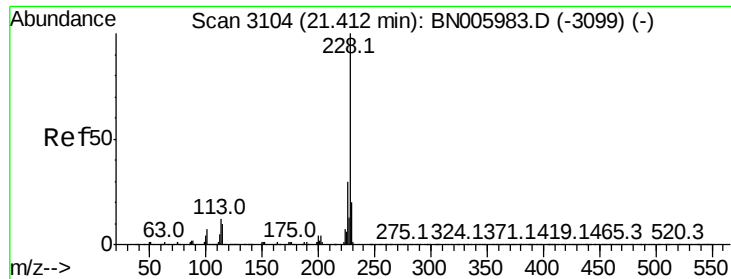
229 23.5 15.8 23.6

226 31.6 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



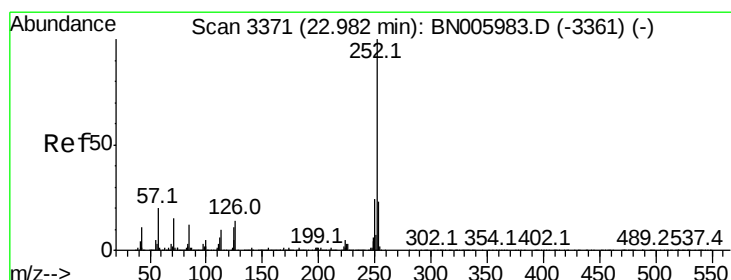
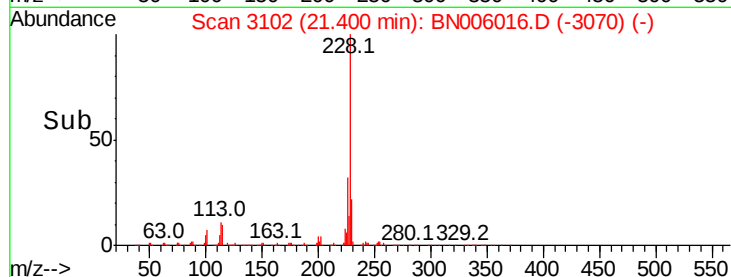
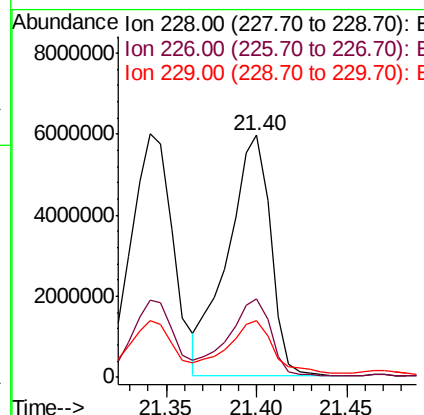
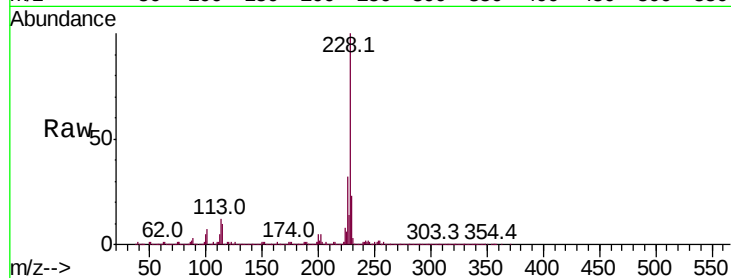


#84  
 Chrysene  
 Concen: 118.249 ng/ul  
 RT: 21.40 min Scan# 3102  
 Delta R.T. -0.01 min  
 Lab File: BN006016.D  
 Acq: 02 Jun 2019 05:32

Instrument :  
 BNA\_N  
 ClientSampleId :

Tot Ion:228 Resp: 9767174  

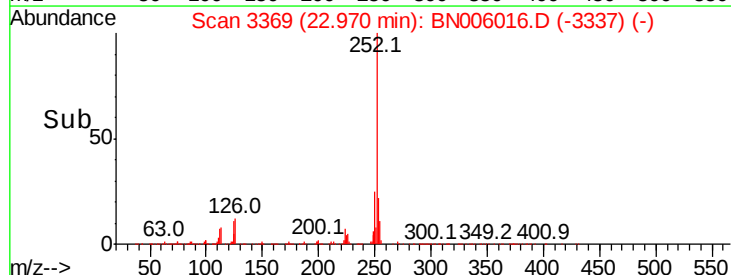
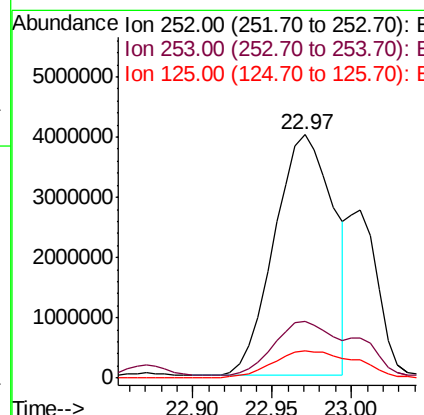
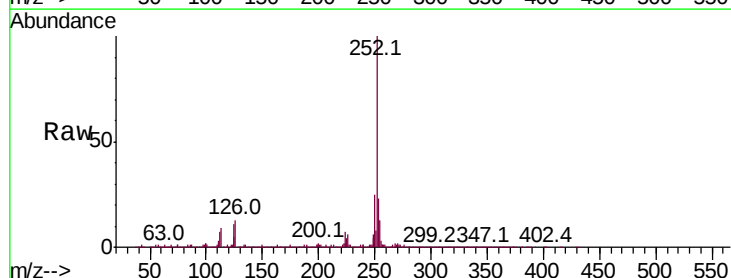
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 32.5  | 24.0  | 36.0  |
| 229 | 23.2  | 15.4  | 23.0# |

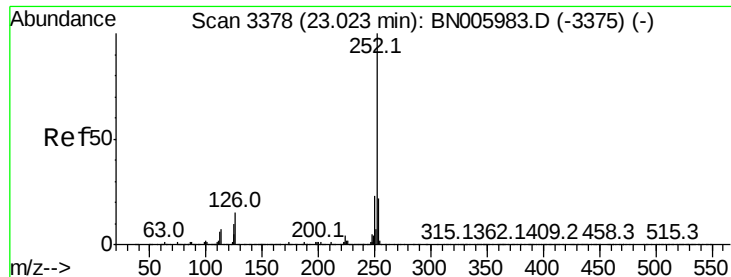


#87  
 Benzo(b)fluoranthene  
 Concen: 174.134 ng/ul  
 RT: 22.97 min Scan# 3369  
 Delta R.T. -0.01 min  
 Lab File: BN006016.D  
 Acq: 02 Jun 2019 05:32

Tgt Ion:252 Resp:10374877  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.3  | 17.7  | 26.5  |
| 125 | 11.0  | 8.4   | 12.6  |





#88

Benzo(k)fluoranthene

Concen: 189.391 ng/ul

RT: 22.97 min Scan# 3369

Delta R.T. -0.05 min

Lab File: BN006016.D

Acq: 02 Jun 2019 05:32

Instrument :

BNA\_N

ClientSampled :

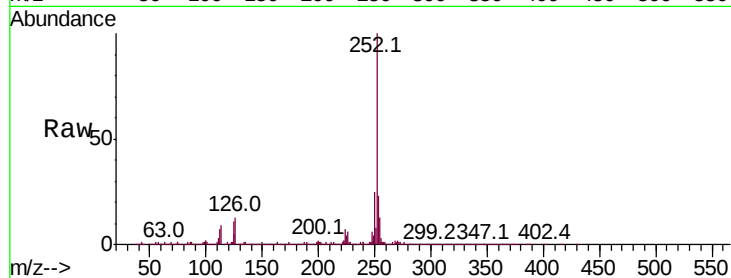
Tot Ion:252 Resp:10374877

Ion Ratio Lower Upper

252 100

253 23.3 17.4 26.0

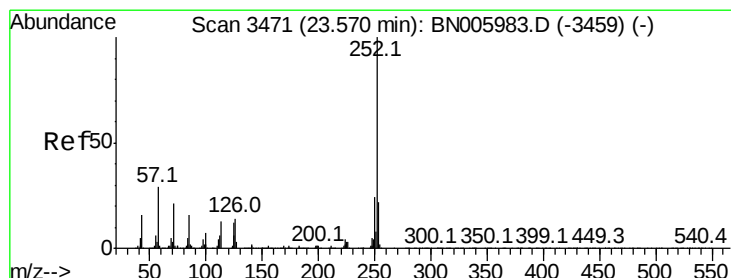
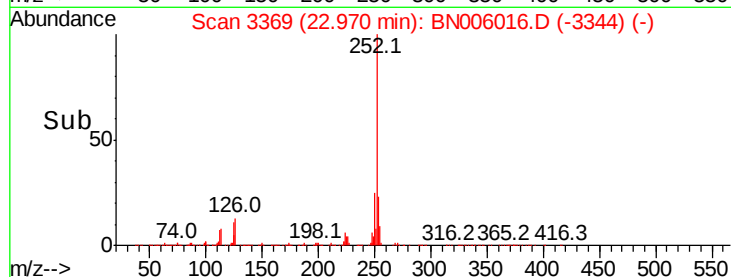
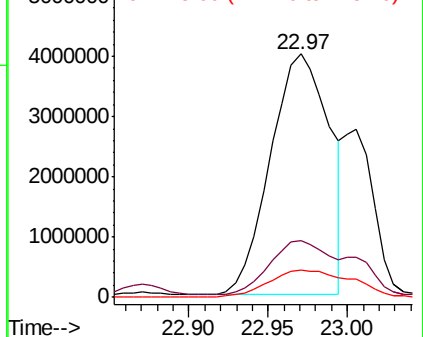
125 11.0 7.5 11.3



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: 144.056 ng/ul

RT: 23.55 min Scan# 3468

Delta R.T. -0.02 min

Lab File: BN006016.D

Acq: 02 Jun 2019 05:32

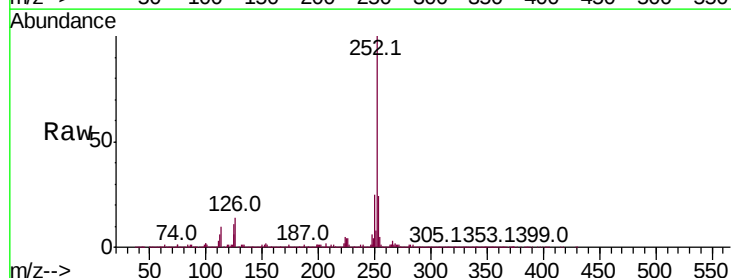
Tgt Ion:252 Resp: 8093822

Ion Ratio Lower Upper

252 100

253 23.7 17.3 25.9

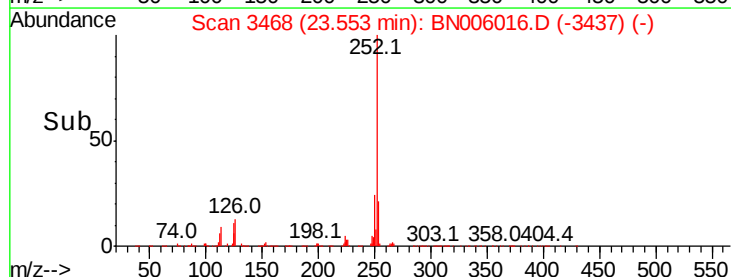
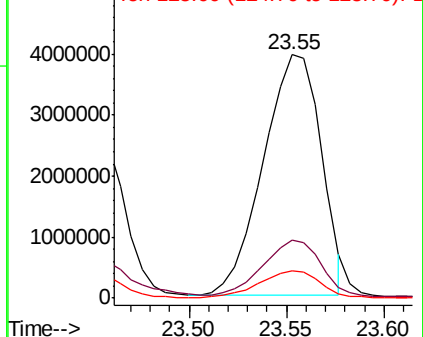
125 11.2 8.6 13.0

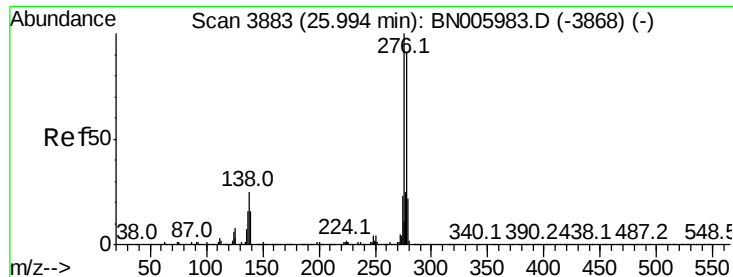


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



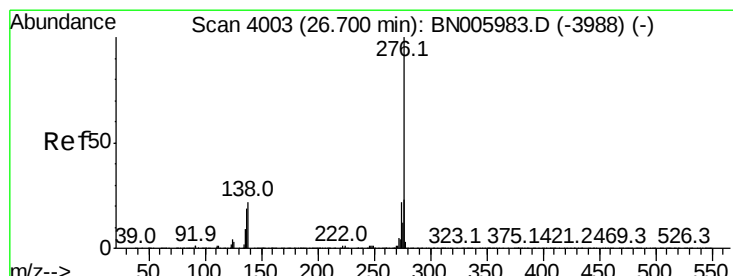
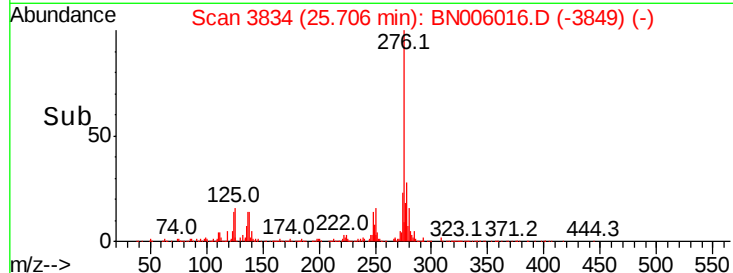
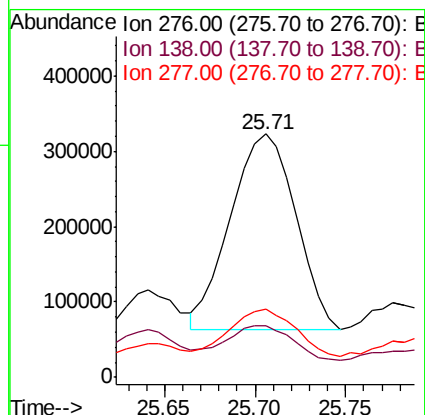
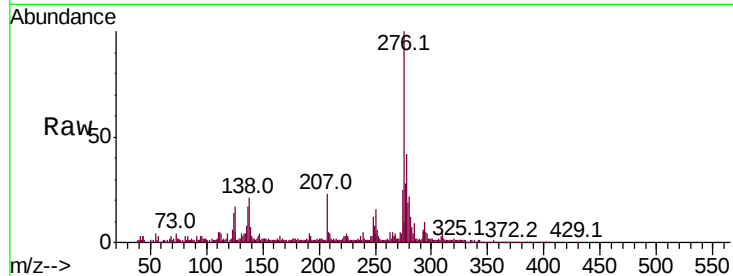


#91

Indeno(1,2,3-cd)pyrene  
Concen: 9.830 ng/ul  
RT: 25.71 min Scan# 3834  
Delta R.T. -0.29 min  
Lab File: BN006016.D  
Acq: 02 Jun 2019 05:32

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:276 Resp: 648073  
Ion Ratio Lower Upper  
276 100  
138 21.3 17.9 26.9  
277 28.0 19.7 29.5



#93

Benzo(g,h,i)perylene  
Concen: 58.621 ng/ul  
RT: 26.68 min Scan# 3999  
Delta R.T. -0.02 min  
Lab File: BN006016.D  
Acq: 02 Jun 2019 05:32

Tgt Ion:276 Resp: 3255060  
Ion Ratio Lower Upper  
276 100  
138 22.3 16.7 25.1  
277 24.9 18.2 27.2

