

Data Path : Z:\HPCHEM1\BNA N\DATA\BN050118\  
 Data File : BN001034.D  
 Acq On : 01 May 2018 17:35  
 Operator : JU/SJ  
 Sample : J2527-02  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: May 02 07:45:02 2018  
 Quant Method : Z:\HPCHEM1\BNA N\METHODS\SOM-EPA-BN042418MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 02 07:44:40 2018  
 Response via : Initial Calibration

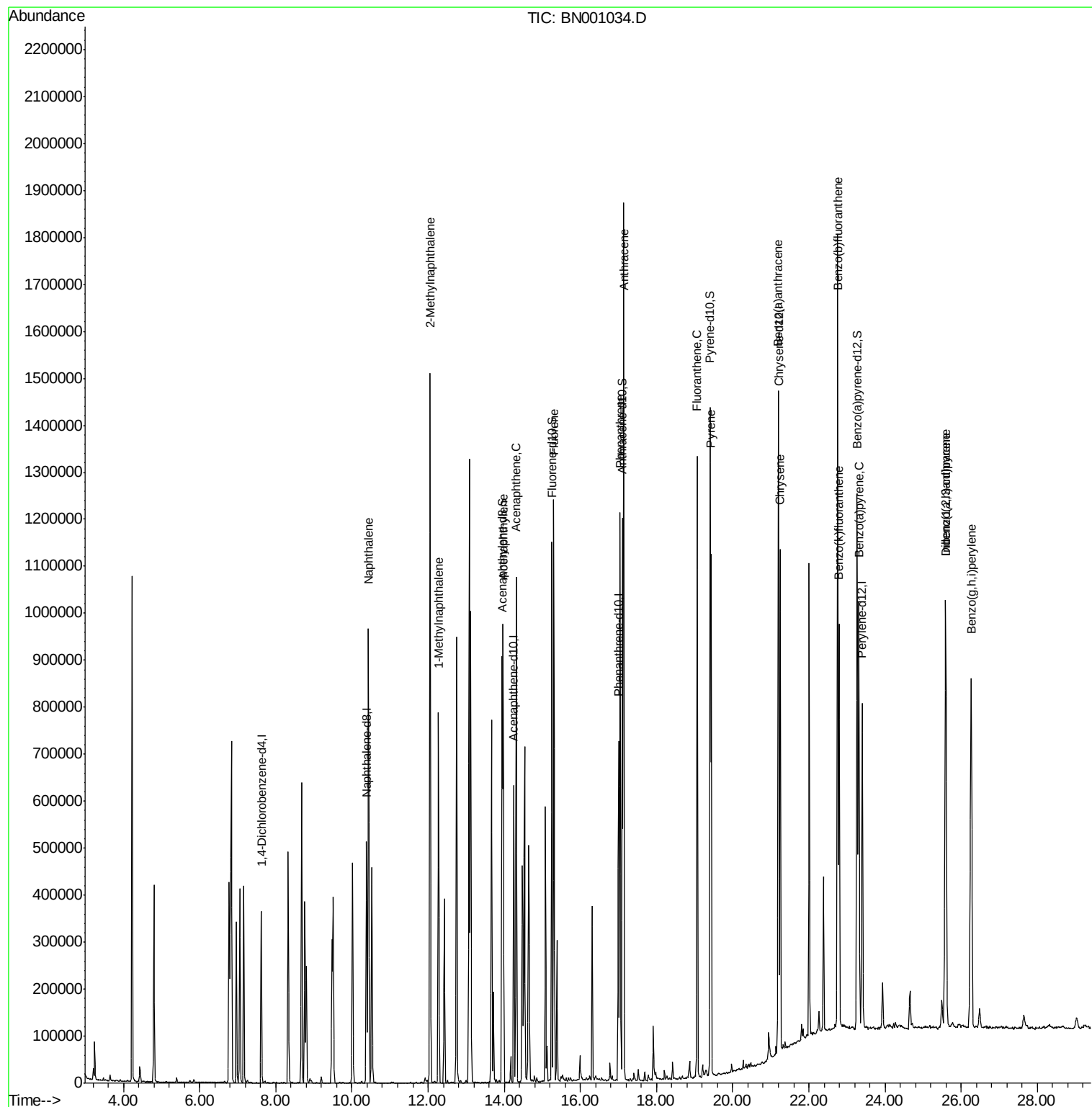
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.62  | 152  | 93326    | 20.00  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.39 | 136  | 389179   | 20.00  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.25 | 164  | 192338   | 20.00  | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.00 | 188  | 392334   | 20.00  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.21 | 240  | 389618   | 20.00  | ng/ul  | 0.00     |
| 22) Perylene-d12            | 23.40 | 264  | 418909   | 20.00  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 7) Acenaphthylene-d8        | 13.95 | 160  | 578933   | 31.34  | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 15.25 | 176  | 400985   | 32.52  | ng/ul  | 0.00     |
| 14) Anthracene-d10          | 17.10 | 188  | 624727   | 34.82  | ng/ul  | 0.00     |
| 18) Pyrene-d10              | 19.40 | 212  | 661471   | 33.13  | ng/ul  | 0.00     |
| 25) Benzo(a)pyrene-d12      | 23.27 | 264  | 749355   | 37.87  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.43 | 128  | 743446   | 37.904 | ng/ul  | 100      |
| 4) 2-Methylnaphthalene      | 12.05 | 142  | 679725   | 51.941 | ng/ul  | 98       |
| 5) 1-Methylnaphthalene      | 12.27 | 142  | 344394   | 26.831 | ng/ul# | 92       |
| 8) Acenaphthylene           | 13.97 | 152  | 647421   | 35.412 | ng/ul  | 98       |
| 9) Acenaphthene             | 14.32 | 153  | 400781   | 31.728 | ng/ul  | 96       |
| 11) Fluorene                | 15.30 | 166  | 516146   | 38.383 | ng/ul  | 93       |
| 13) Phenanthrene            | 17.04 | 178  | 669879   | 31.305 | ng/ul  | 99       |
| 15) Anthracene              | 17.14 | 178  | 1112312  | 51.825 | ng/ul  | 99       |
| 16) Fluoranthene            | 19.07 | 202  | 716428   | 33.000 | ng/ul# | 93       |
| 19) Pyrene                  | 19.43 | 202  | 643742   | 25.723 | ng/ul# | 88       |
| 20) Benzo(a)anthracene      | 21.19 | 228  | 558031   | 23.960 | ng/ul  | 99       |
| 21) Chrysene                | 21.24 | 228  | 458165   | 20.930 | ng/ul  | 99       |
| 23) Benzo(b)fluoranthene    | 22.76 | 252  | 1002844  | 42.124 | ng/ul# | 97       |
| 24) Benzo(k)fluoranthene    | 22.80 | 252  | 459841   | 19.740 | ng/ul# | 97       |
| 26) Benzo(a)pyrene          | 23.32 | 252  | 529395   | 23.268 | ng/ul# | 97       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.59 | 276  | 623260   | 22.680 | ng/ul# | 88       |
| 28) Dibenzo(a,h)anthracene  | 25.60 | 278  | 353349   | 15.428 | ng/ul# | 95       |
| 29) Benzo(a,h,i)perylene    | 26.26 | 276  | 827569   | 36.007 | ng/ul# | 94       |

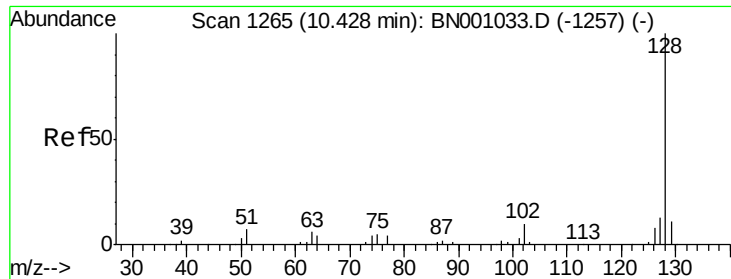
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampled :

Quant Time: May 02 07:45:02 2018  
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Response via : Initial Calibration





#3

Naphthalene

Concen: 37.904 ng/ul

RT: 10.43 min Scan# 1266

Delta R.T. 0.01 min

Lab File: BN001034.D

Acq: 01 May 2018 17:35

Instrument :

BNA\_N

ClientSampleId :

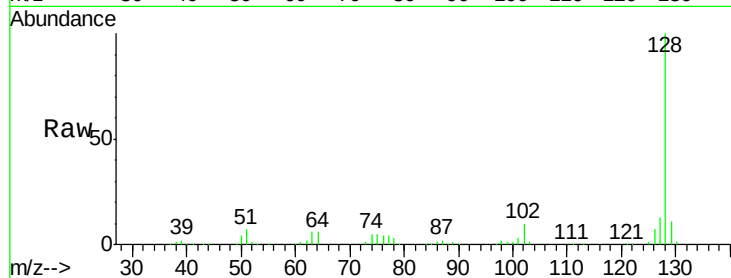
Tot Ion:128 Resp: 743446

Ion Ratio Lower Upper

128 100

129 10.8 8.7 13.1

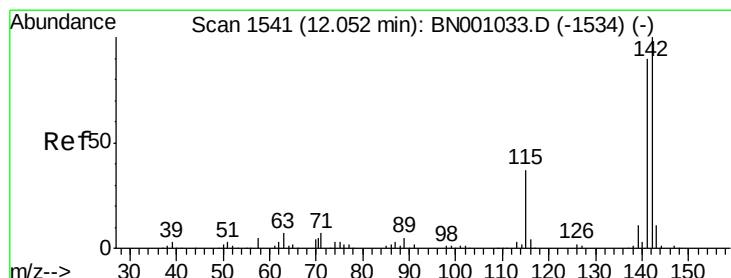
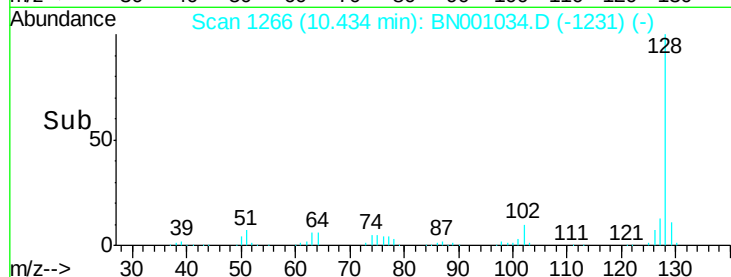
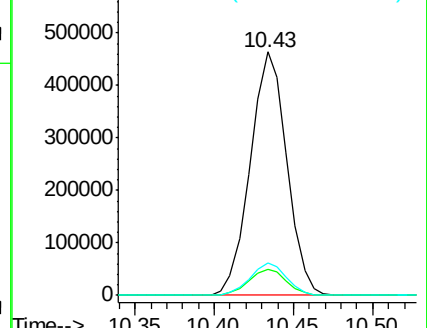
127 13.4 10.6 16.0



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



#4

2-Methylnaphthalene

Concen: 51.941 ng/ul

RT: 12.05 min Scan# 1541

Delta R.T. -0.00 min

Lab File: BN001034.D

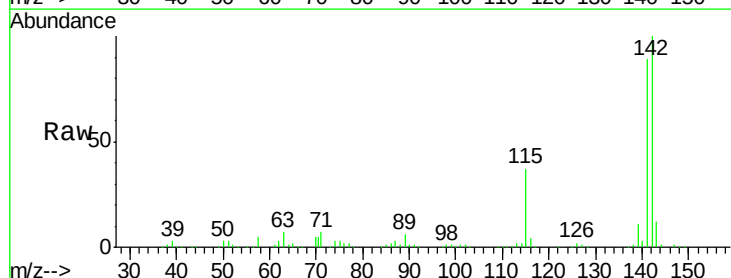
Acq: 01 May 2018 17:35

Tgt Ion:142 Resp: 679725

Ion Ratio Lower Upper

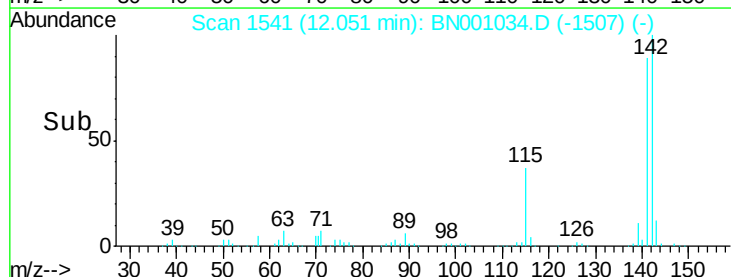
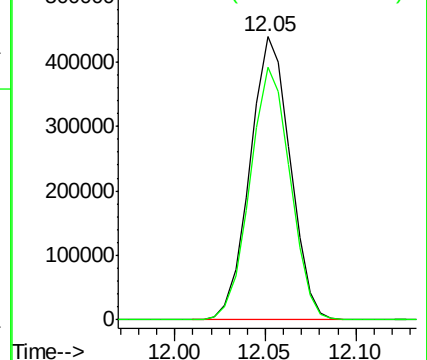
142 100

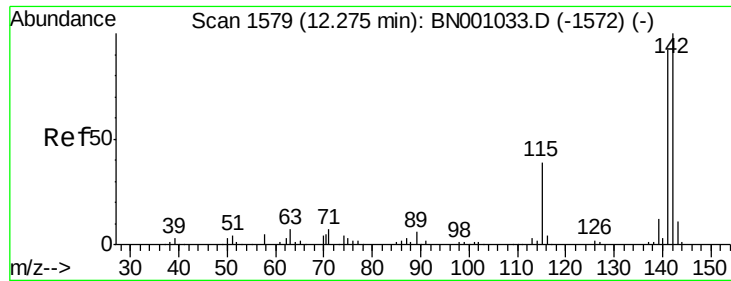
141 89.2 72.7 109.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#5

1-Methylnaphthalene

Concen: 26.831 ng/ul

RT: 12.27 min Scan# 1579

Delta R.T. -0.00 min

Lab File: BN001034.D

Acq: 01 May 2018 17:35

Instrument :

BNA\_N

ClientSampleId :

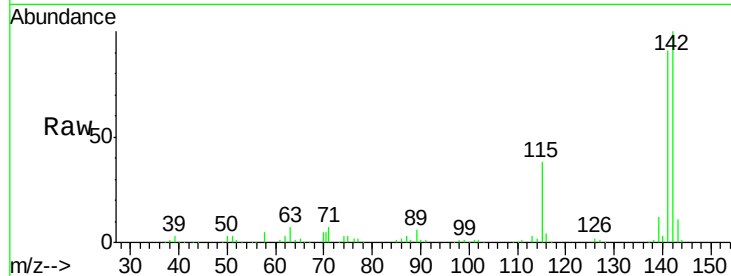
Tot Ion:142 Resp: 344394

Ion Ratio Lower Upper

142 100

141 90.8 79.3 118.9

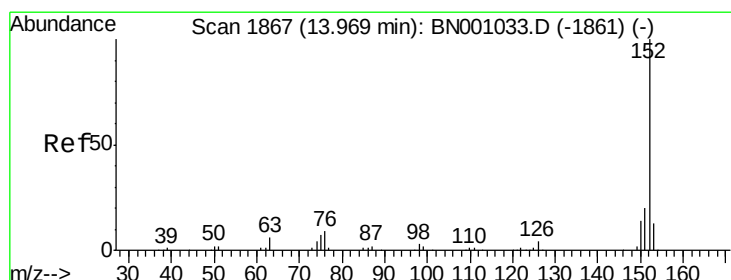
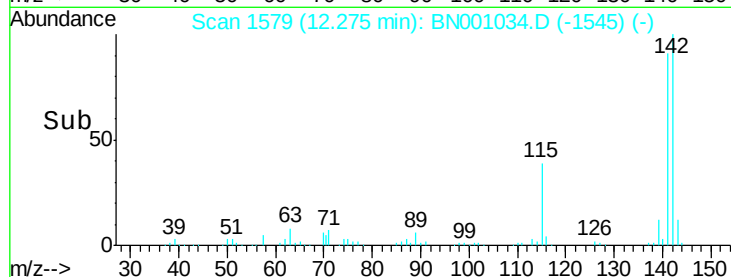
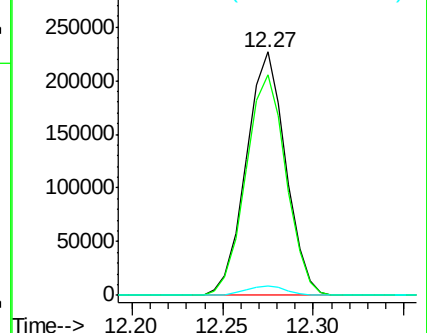
116 4.0 4.2 6.2#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#8

Acenaphthylene

Concen: 35.412 ng/ul

RT: 13.97 min Scan# 1867

Delta R.T. -0.00 min

Lab File: BN001034.D

Acq: 01 May 2018 17:35

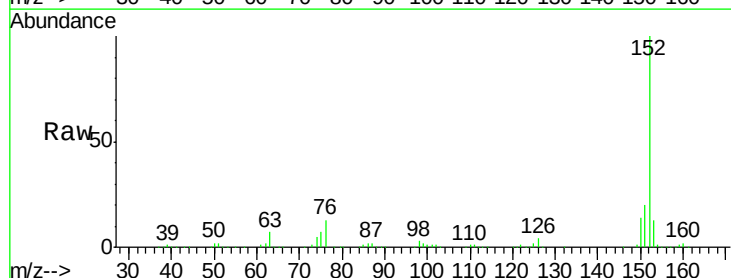
Tgt Ion:152 Resp: 647421

Ion Ratio Lower Upper

152 100

151 19.7 16.7 25.1

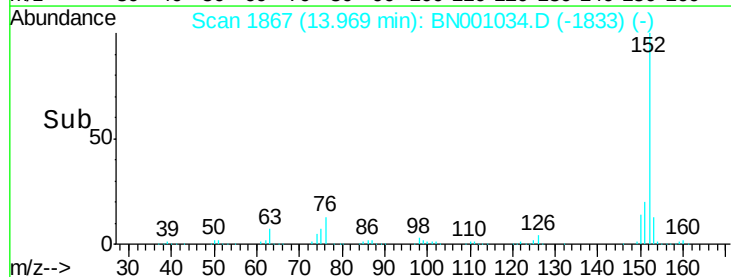
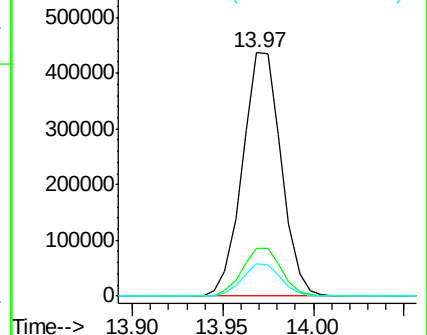
153 13.1 10.2 15.4

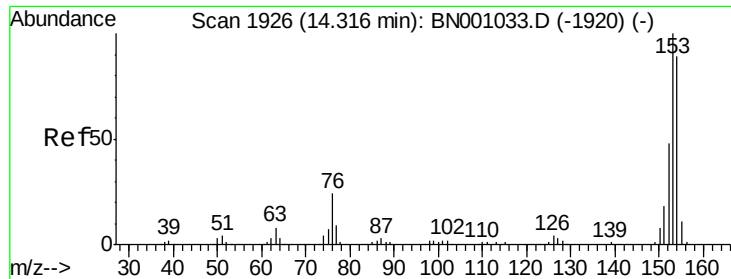


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 31.728 ng/ul

RT: 14.32 min Scan# 1926

Delta R.T. -0.00 min

Lab File: BN001034.D

Acq: 01 May 2018 17:35

Instrument :

BNA\_N

ClientSampleId :

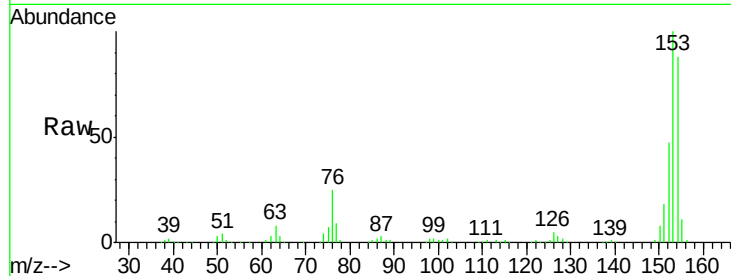
Tot Ion:153 Resp: 400781

Ion Ratio Lower Upper

153 100

152 47.2 39.0 58.6

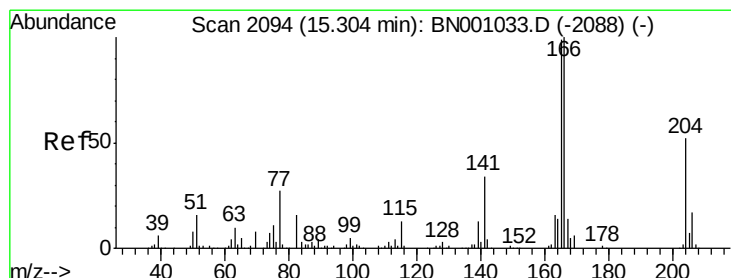
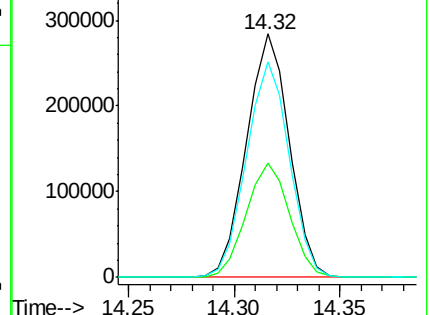
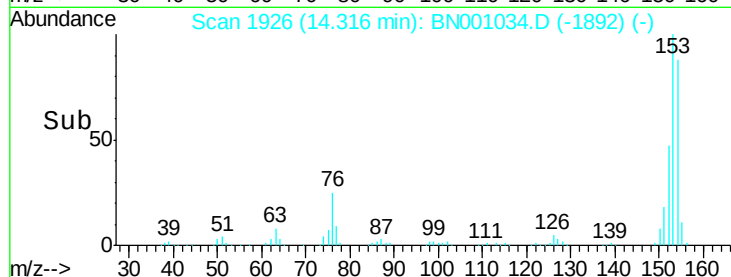
154 88.3 66.8 100.2



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



#11

Fluorene

Concen: 38.383 ng/ul

RT: 15.30 min Scan# 2094

Delta R.T. -0.00 min

Lab File: BN001034.D

Acq: 01 May 2018 17:35

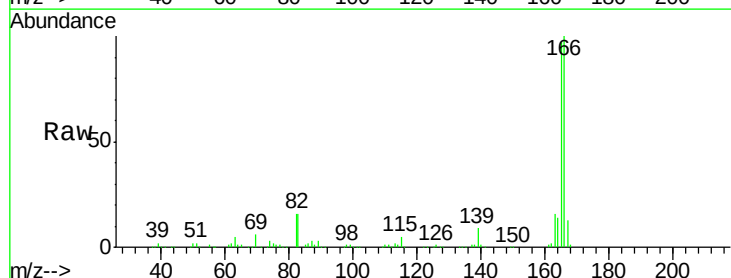
Tgt Ion:166 Resp: 516146

Ion Ratio Lower Upper

166 100

165 97.2 83.8 125.8

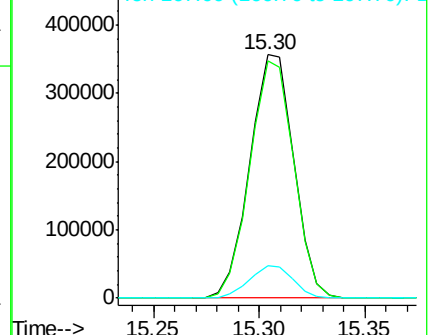
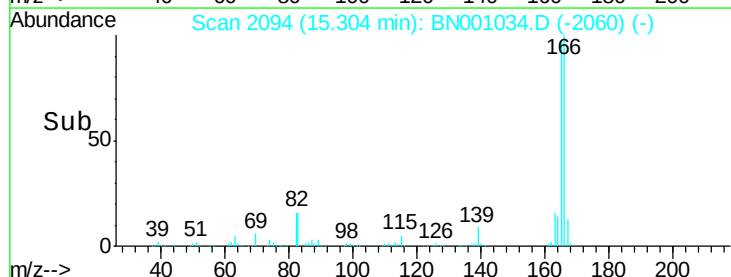
167 13.4 11.5 17.3

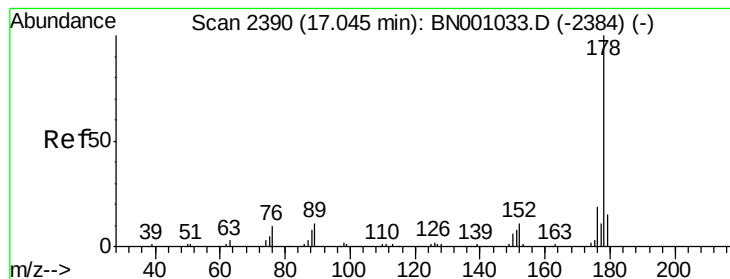


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#13

Phenanthrene

Concen: 31.305 ng/ul

RT: 17.04 min Scan# 2390

Delta R.T. -0.00 min

Lab File: BN001034.D

Acq: 01 May 2018 17:35

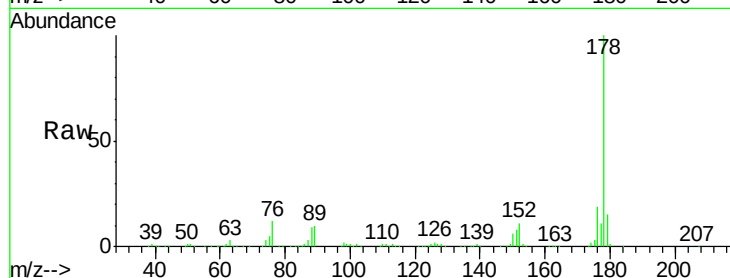
Instrument :

BNA\_N

ClientSampleId :

Tot Ion:178 Resp: 669879

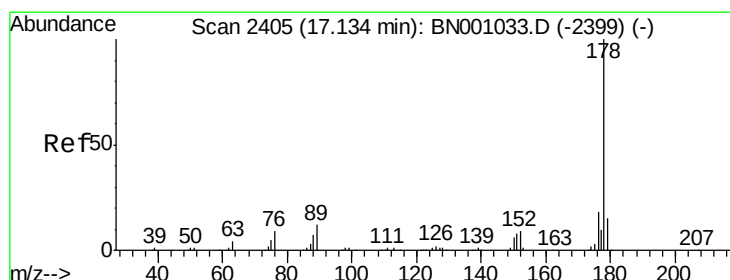
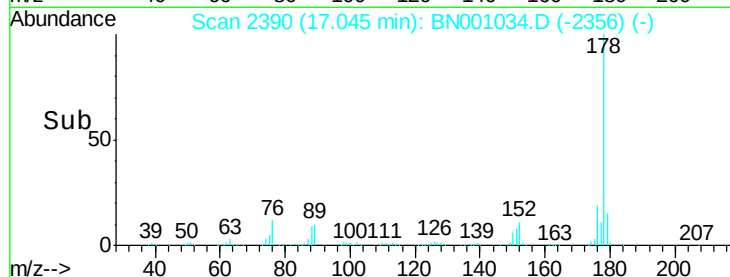
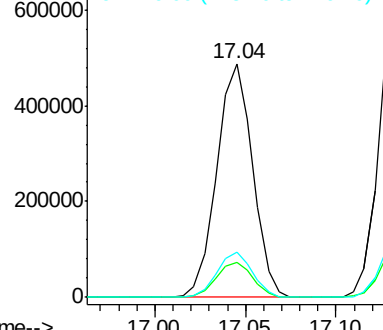
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.2  | 12.3  | 18.5  |
| 176 | 19.3  | 15.1  | 22.7  |



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



#15

Anthracene

Concen: 51.825 ng/ul

RT: 17.14 min Scan# 2406

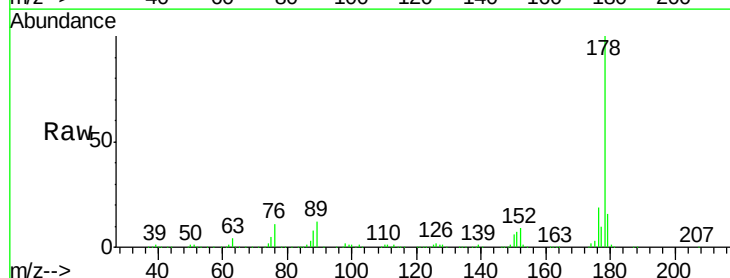
Delta R.T. 0.01 min

Lab File: BN001034.D

Acq: 01 May 2018 17:35

Tgt Ion:178 Resp: 1112312

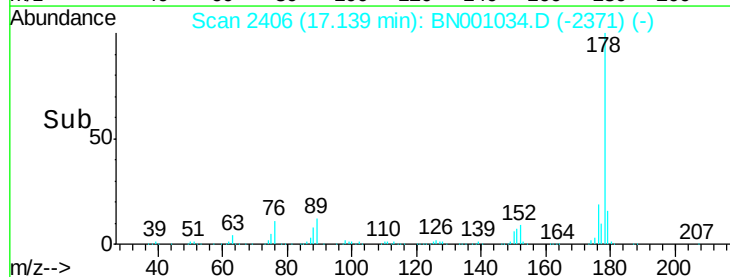
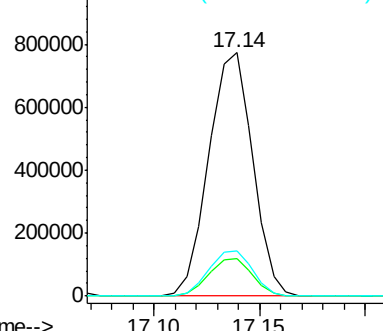
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.6  | 11.8  | 17.8  |
| 176 | 18.5  | 15.2  | 22.8  |

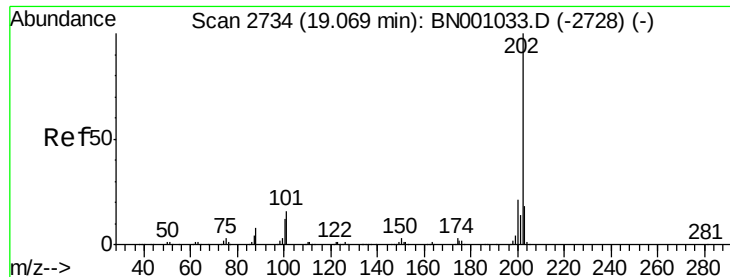


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

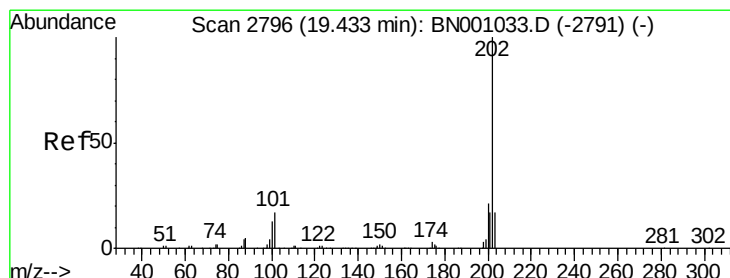
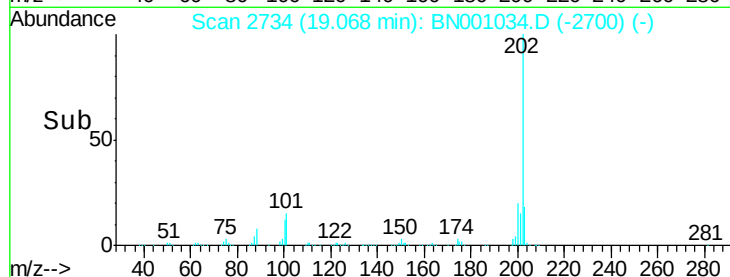
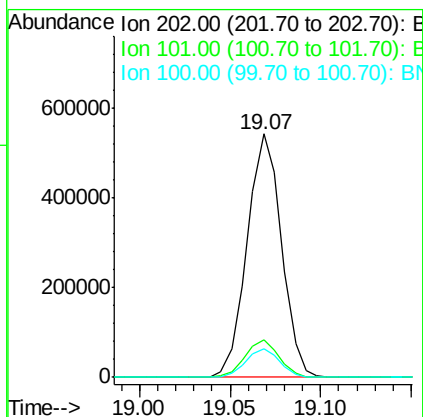
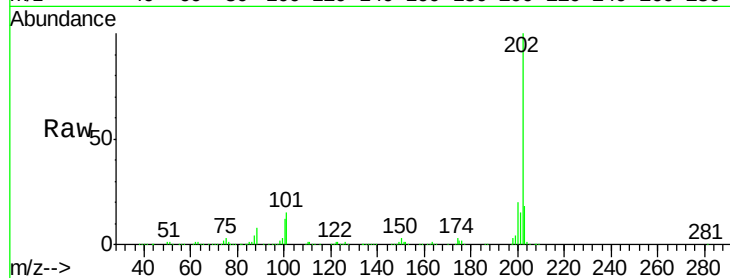




#16  
 Fluoranthene  
 Concen: 33.000 ng/ul  
 RT: 19.07 min Scan# 2734  
 Delta R.T. -0.00 min  
 Lab File: BN001034.D  
 Acq: 01 May 2018 17:35

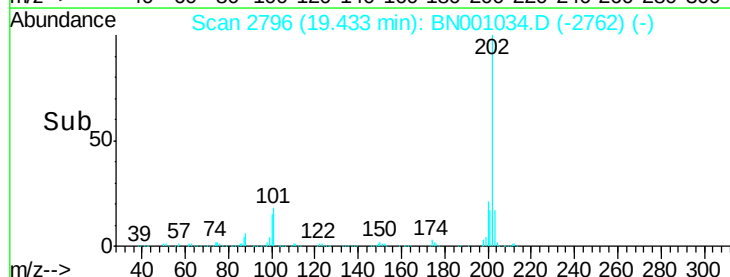
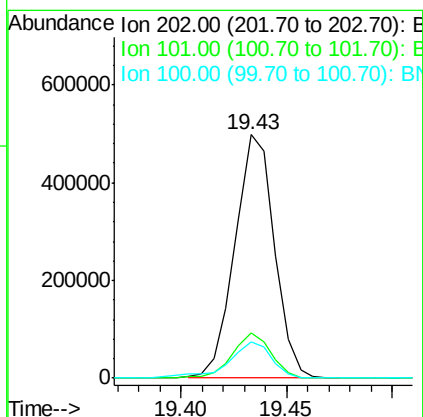
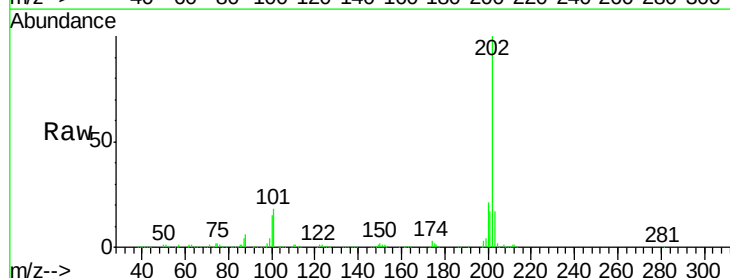
Instrument :  
 BNA\_N  
 ClientSampleId :

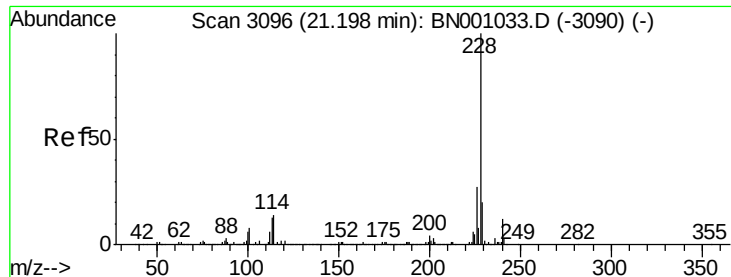
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 15.5  | 9.9   | 14.9# |
| 100     | 11.6  | 7.4   | 11.0# |



#19  
 Pyrene  
 Concen: 25.723 ng/ul  
 RT: 19.43 min Scan# 2796  
 Delta R.T. -0.00 min  
 Lab File: BN001034.D  
 Acq: 01 May 2018 17:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 18.3  | 11.0  | 16.4# |
| 100     | 15.0  | 8.1   | 12.1# |





#20

Benzo(a)anthracene

Concen: 23.960 ng/ul

RT: 21.19 min Scan# 3095

Delta R.T. -0.01 min

Lab File: BN001034.D

Acq: 01 May 2018 17:35

Instrument :

BNA\_N

ClientSampled :

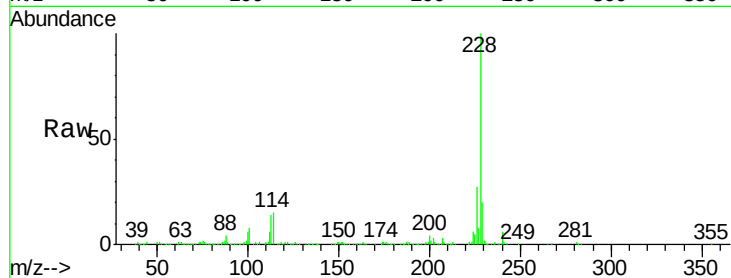
Tot Ion:228 Resp: 558031

Ion Ratio Lower Upper

228 100

229 19.8 15.7 23.5

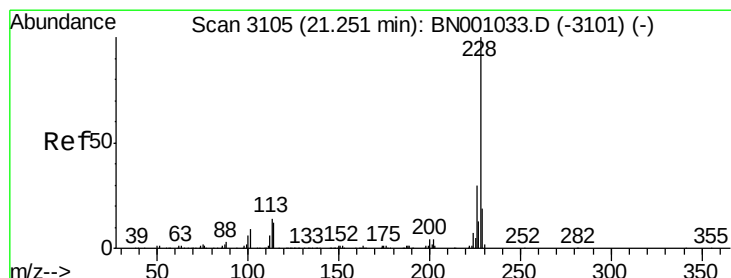
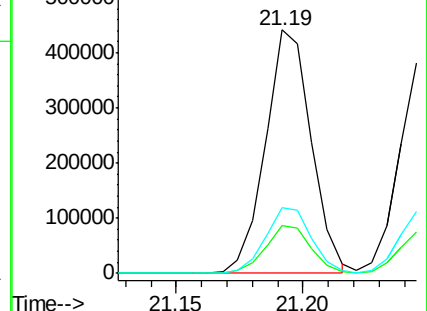
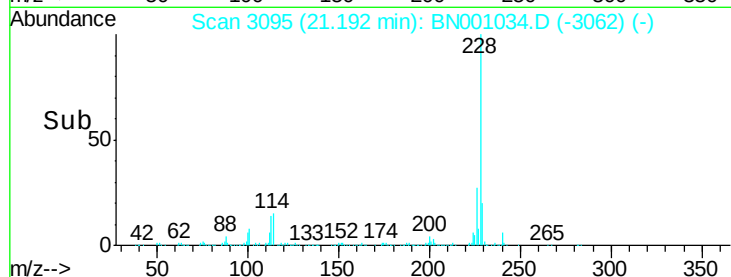
226 27.1 21.1 31.7



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



#21

Chrysene

Concen: 20.930 ng/ul

RT: 21.24 min Scan# 3104

Delta R.T. -0.01 min

Lab File: BN001034.D

Acq: 01 May 2018 17:35

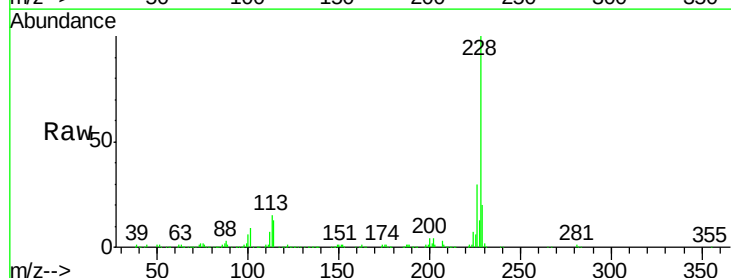
Tgt Ion:228 Resp: 458165

Ion Ratio Lower Upper

228 100

226 29.6 24.5 36.7

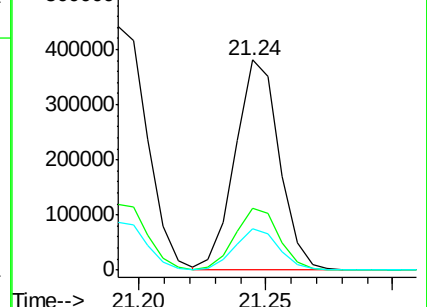
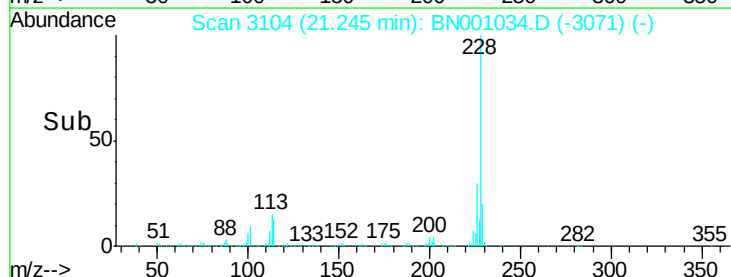
229 20.0 15.8 23.8



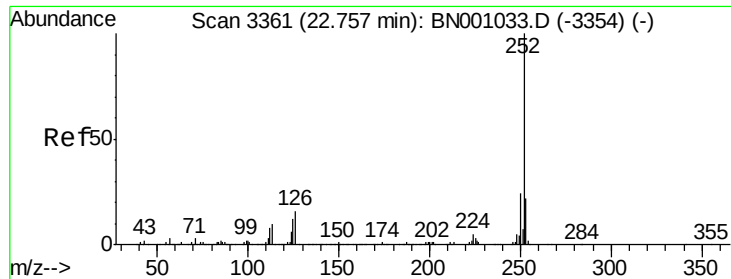
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



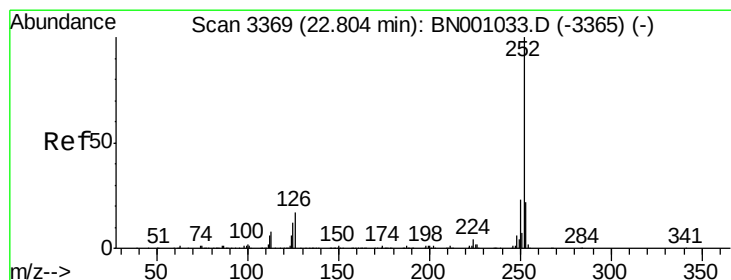
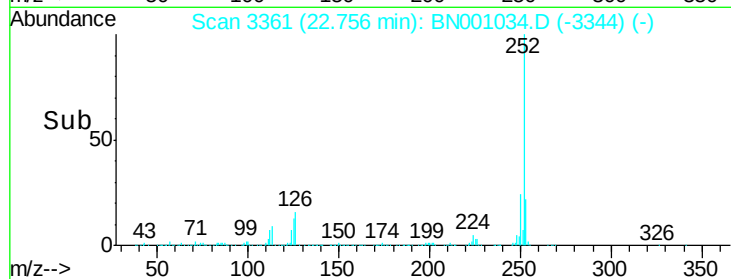
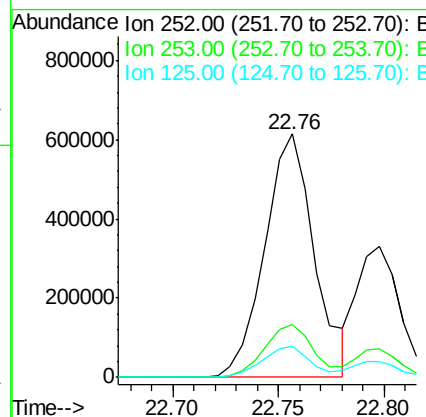
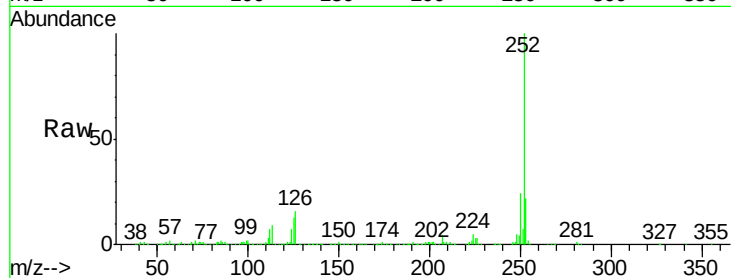




#23  
Benzo(b)fluoranthene  
Concen: 42.124 ng/ul  
RT: 22.76 min Scan# 3361  
Delta R.T. -0.00 min  
Lab File: BN001034.D  
Acq: 01 May 2018 17:35

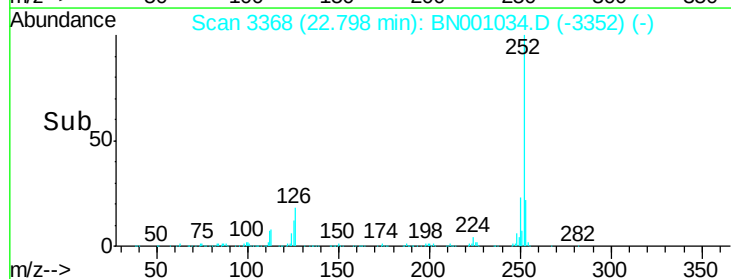
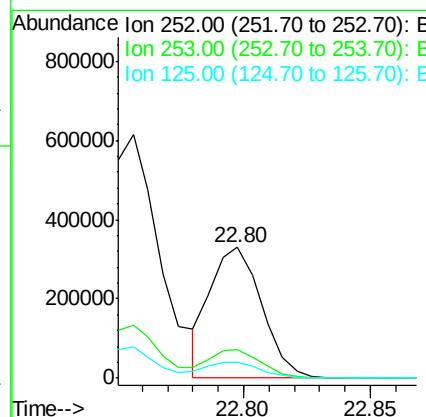
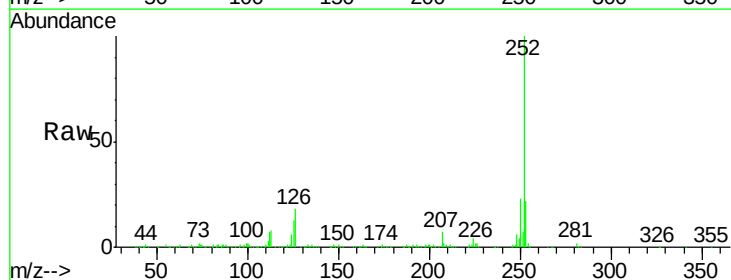
Instrument :  
BNA\_N  
ClientSampleId :

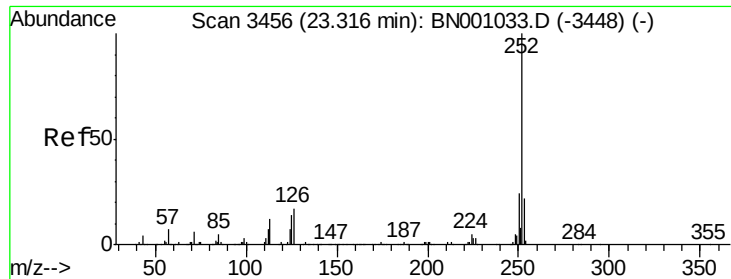
Tot Ion:252 Resp: 1002844  
Ion Ratio Lower Upper  
252 100  
253 21.9 18.0 27.0  
125 12.7 8.0 12.0#



#24  
Benzo(k)fluoranthene  
Concen: 19.740 ng/ul  
RT: 22.80 min Scan# 3368  
Delta R.T. -0.01 min  
Lab File: BN001034.D  
Acq: 01 May 2018 17:35

Tgt Ion:252 Resp: 459841  
Ion Ratio Lower Upper  
252 100  
253 21.6 18.0 27.0  
125 12.6 8.1 12.1#





#26

Benzo(a)pyrene

Concen: 23.268 ng/ul

RT: 23.32 min Scan# 3456

Delta R.T. -0.00 min

Lab File: BN001034.D

Acq: 01 May 2018 17:35

Instrument :

BNA\_N

ClientSampleId :

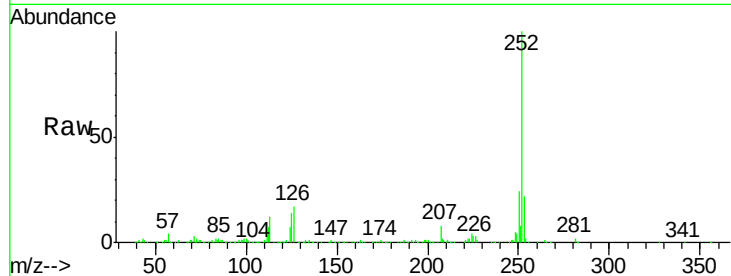
Tot Ion:252 Resp: 529395

Ion Ratio Lower Upper

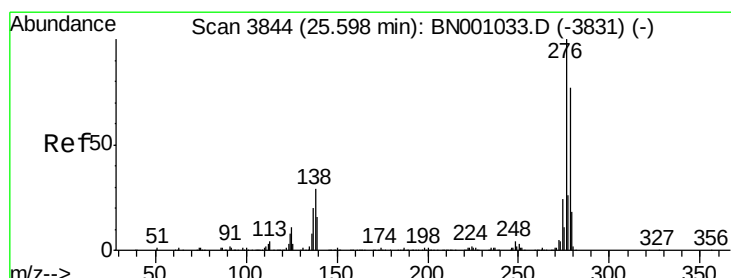
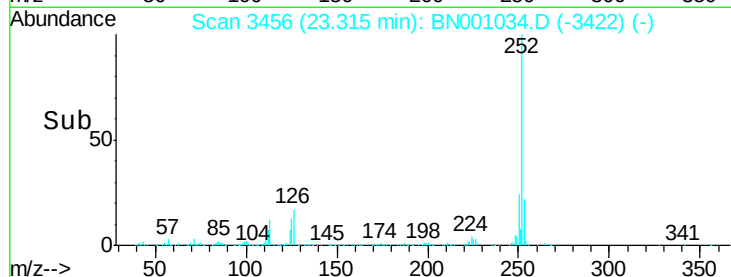
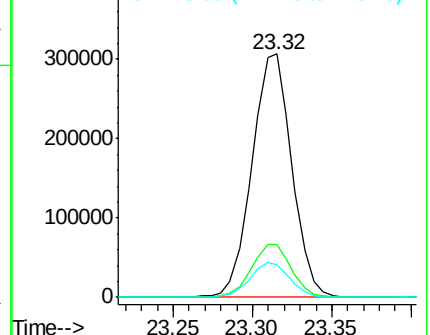
252 100

253 21.8 17.2 25.8

125 13.5 8.2 12.4#



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



#27

Indeno(1,2,3-cd)pyrene

Concen: 22.680 ng/ul

RT: 25.59 min Scan# 3843

Delta R.T. -0.01 min

Lab File: BN001034.D

Acq: 01 May 2018 17:35

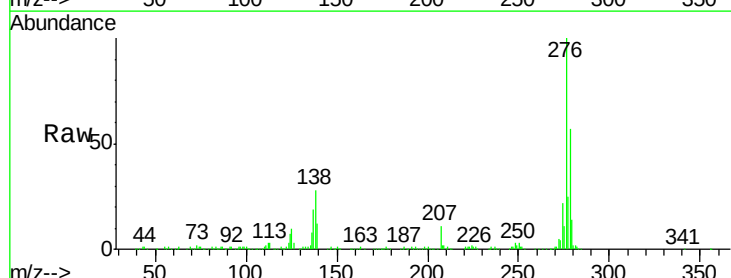
Tgt Ion:276 Resp: 623260

Ion Ratio Lower Upper

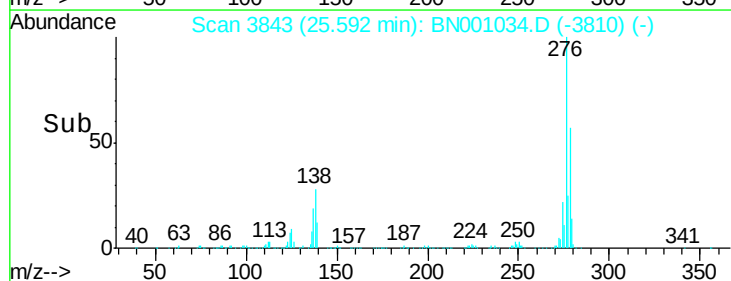
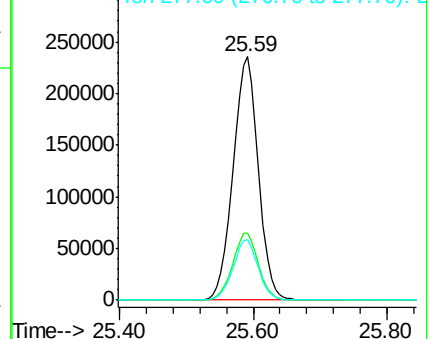
276 100

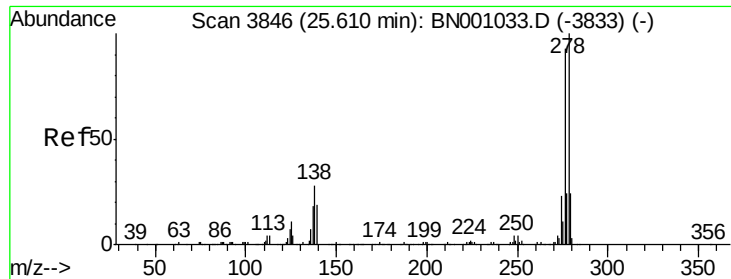
138 27.5 14.4 21.6#

277 24.9 18.0 27.0



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



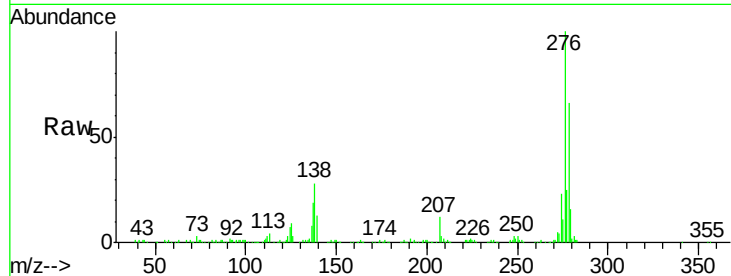


#28  
Dibenzo(a,h)anthracene  
Concen: 15.428 ng/ul  
RT: 25.60 min Scan# 3844  
Delta R.T. -0.01 min  
Lab File: BN001034.D  
Acq: 01 May 2018 17:35

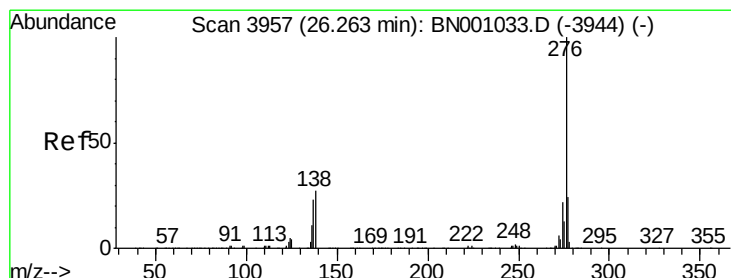
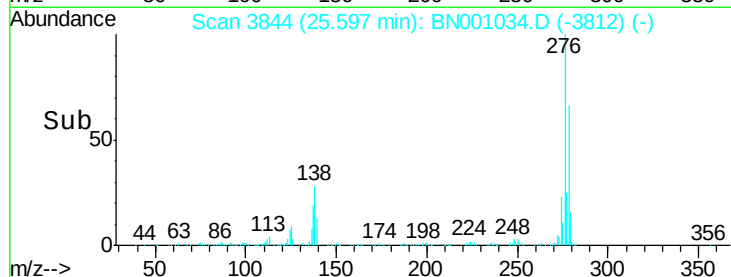
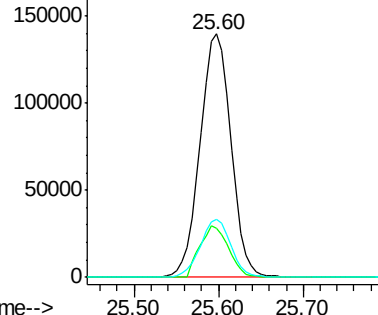
Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:278 Resp: 353349  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 19.9  | 12.2  | 18.4# |
| 279 | 23.8  | 19.2  | 28.8  |



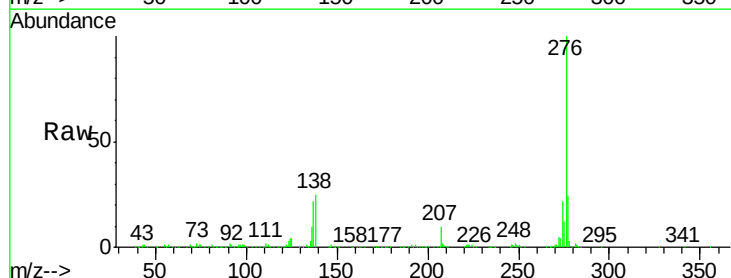
Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#29  
Benzo(g,h,i)perylene  
Concen: 36.007 ng/ul  
RT: 26.26 min Scan# 3957  
Delta R.T. -0.00 min  
Lab File: BN001034.D  
Acq: 01 May 2018 17:35

Tgt Ion:276 Resp: 827569  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 25.1  | 15.3  | 22.9# |
| 277 | 24.0  | 19.0  | 28.4  |



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

