

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN080719\  
 Data File : BN007029.D  
 Acq On : 08 Aug 2019 17:15  
 Operator : HP/JU  
 Sample : K3962-10DL 5X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Aug 09 02:03:22 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN080719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 07 17:30:08 2019  
 Response via : Initial Calibration

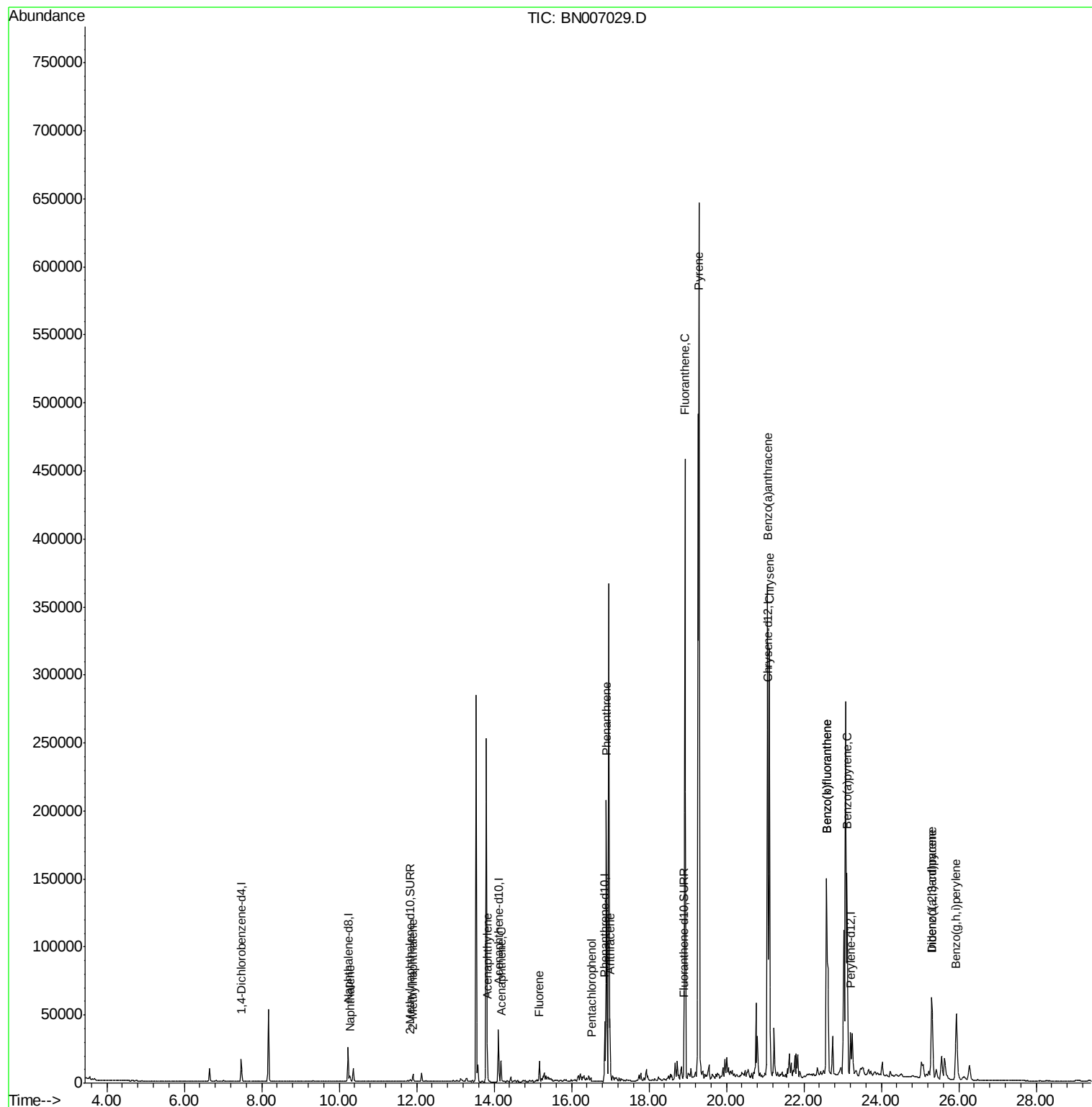
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.47  | 152  | 8256     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.23 | 136  | 32992    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.11 | 164  | 20303    | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.86 | 188  | 51784    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.08 | 240  | 41711    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.21 | 264  | 41600    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.83 | 152  | 2054     | 0.04   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.90 | 212  | 6806     | 0.04   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.28 | 128  | 4988     | 0.053  | ng/ul  | 97       |
| 5) 2-Methylnaphthalene      | 11.90 | 142  | 3736     | 0.052  | ng/ul  | 99       |
| 7) Acenaphthylene           | 13.83 | 152  | 8305     | 0.071  | ng/ul# | 97       |
| 8) Acenaphthene             | 14.18 | 153  | 9291     | 0.115  | ng/ul  | 100      |
| 9) Fluorene                 | 15.17 | 166  | 8667     | 0.089  | ng/ul  | 97       |
| 11) Pentachlorophenol       | 16.52 | 266  | 401      | 0.028  | ng/ul# | 86       |
| 12) Phenanthrene            | 16.90 | 178  | 213818   | 1.296  | ng/ul  | 99       |
| 13) Anthracene              | 16.99 | 178  | 45756    | 0.271  | ng/ul  | 99       |
| 15) Fluoranthene            | 18.93 | 202  | 410423   | 2.001  | ng/ul  | 98       |
| 17) Pyrene                  | 19.29 | 202  | 543192   | 2.917  | ng/ul  | 100      |
| 18) Benzo(a)anthracene      | 21.06 | 228  | 302515   | 1.651  | ng/ul  | 98       |
| 19) Chrysene                | 21.11 | 228  | 297028   | 1.731  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.58 | 252  | 324445   | 1.924  | ng/ul  | 99       |
| 22) Benzo(k)fluoranthene    | 22.58 | 252  | 324445   | 1.985  | ng/ul  | 99       |
| 23) Benzo(a)pyrene          | 23.12 | 252  | 197613   | 1.244  | ng/ul  | 98       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.30 | 276  | 91912    | 0.537  | ng/ul# | 92       |
| 25) Dibenzo(a,h)anthracene  | 25.31 | 278  | 27571    | 0.202  | ng/ul  | 92       |
| 26) Benzo(g,h,i)perylene    | 25.94 | 276  | 97772    | 0.681  | ng/ul  | 98       |

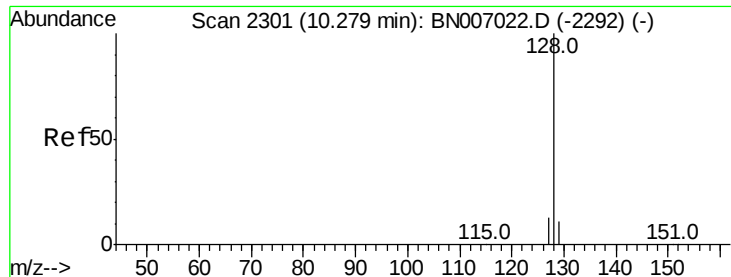
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 17:30:08 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.053 ng/ul

RT: 10.28 min Scan# 2301

Delta R.T. 0.00 min

Lab File: BN007029.D

Acq: 08 Aug 2019 17:15

Instrument :

BNA\_N

ClientSampleId :

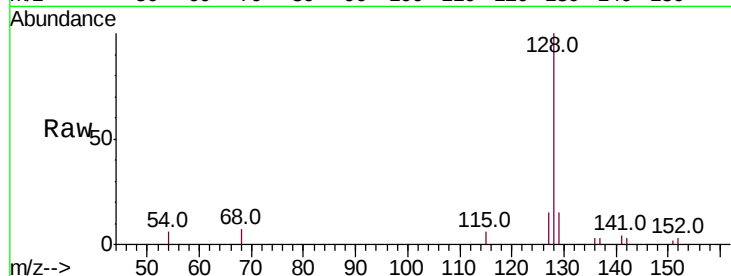
Tot Ion:128 Resp: 4988

Ion Ratio Lower Upper

128 100

129 14.7 10.0 15.0

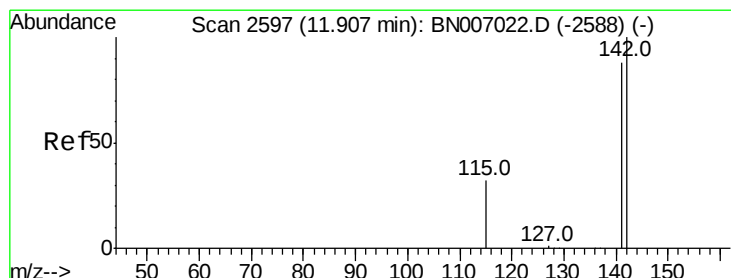
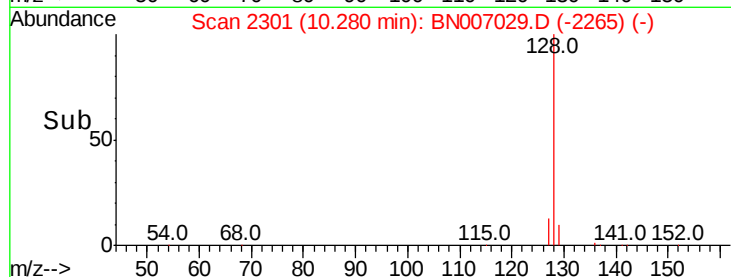
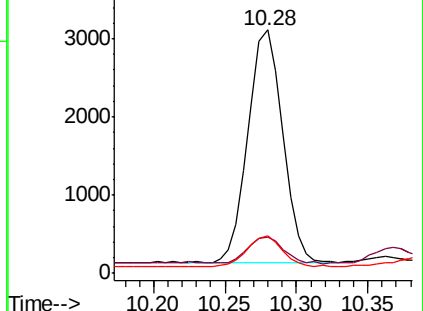
127 15.3 11.7 17.5



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



#5

2-Methylnaphthalene

Concen: 0.052 ng/ul

RT: 11.90 min Scan# 2596

Delta R.T. -0.01 min

Lab File: BN007029.D

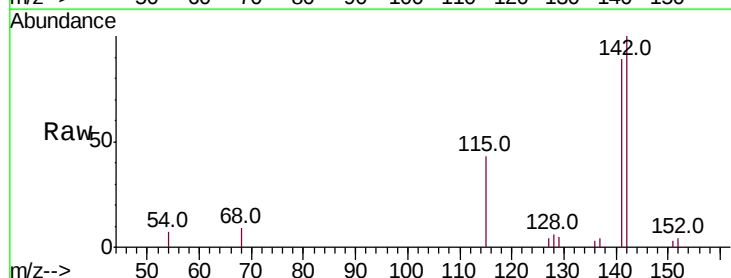
Acq: 08 Aug 2019 17:15

Tgt Ion:142 Resp: 3736

Ion Ratio Lower Upper

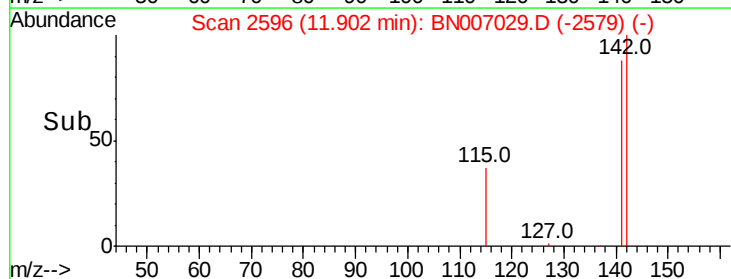
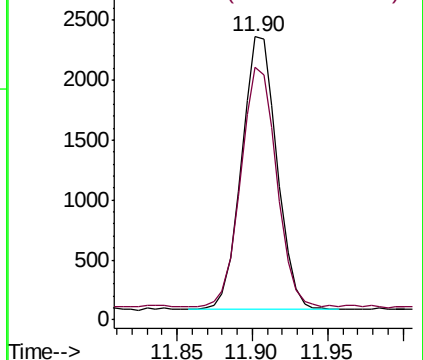
142 100

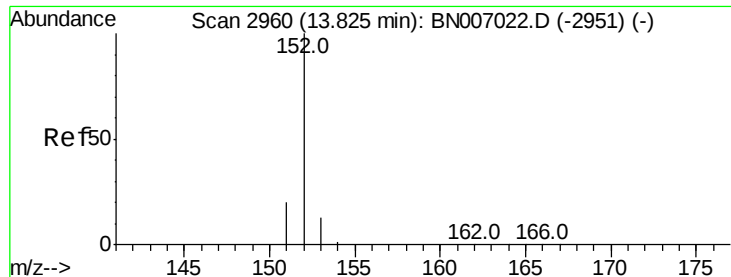
141 88.2 71.0 106.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.071 ng/ul

RT: 13.83 min Scan# 2961

Delta R.T. 0.00 min

Lab File: BN007029.D

Acq: 08 Aug 2019 17:15

Instrument :

BNA\_N

ClientSampleId :

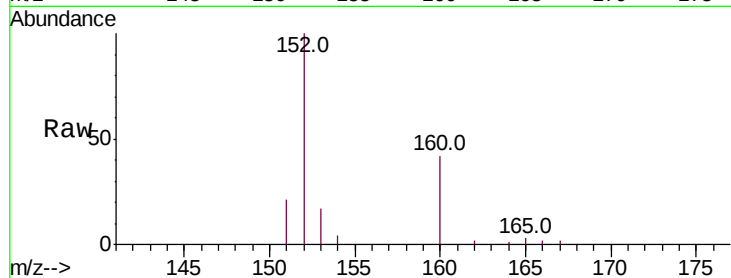
Tot Ion:152 Resp: 8305

Ion Ratio Lower Upper

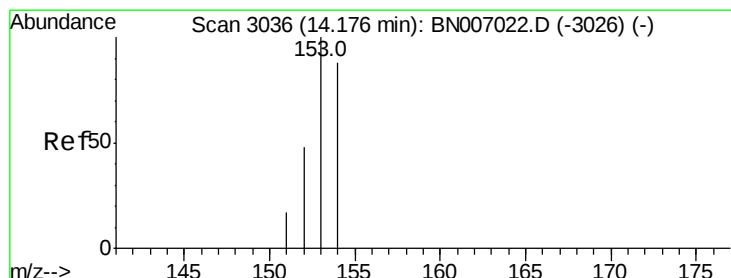
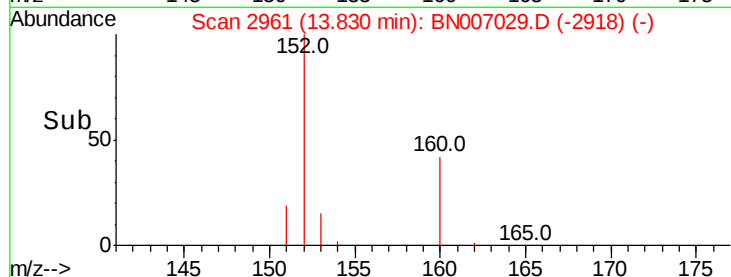
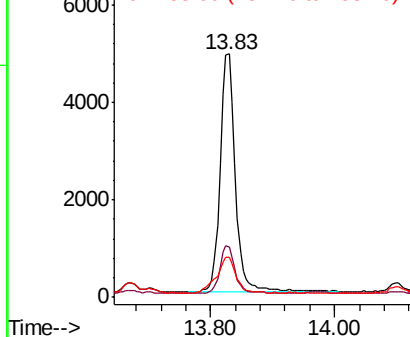
152 100

151 20.6 16.3 24.5

153 16.5 11.0 16.4#



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



#8

Acenaphthene

Concen: 0.115 ng/ul

RT: 14.18 min Scan# 3036

Delta R.T. 0.00 min

Lab File: BN007029.D

Acq: 08 Aug 2019 17:15

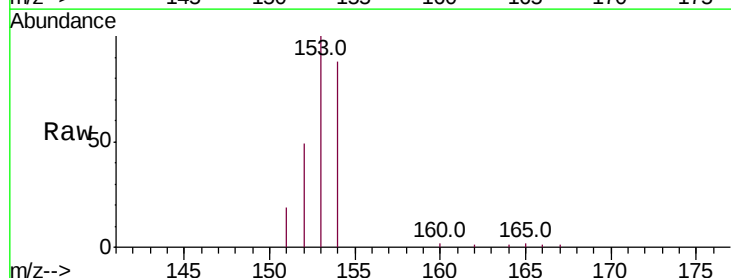
Tgt Ion:153 Resp: 9291

Ion Ratio Lower Upper

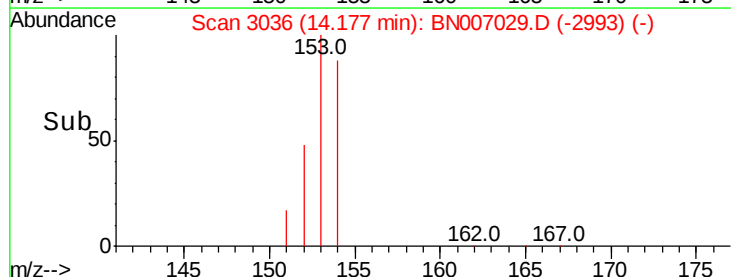
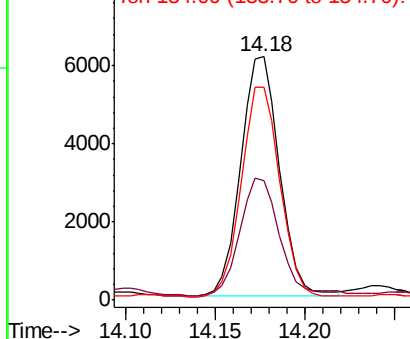
153 100

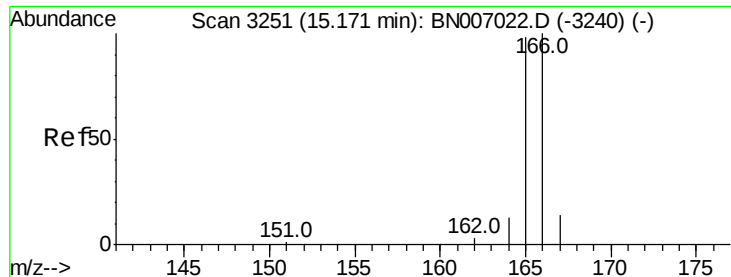
152 48.9 39.4 59.2

154 87.7 70.1 105.1



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





#9

Fluorene

Concen: 0.089 ng/ul

RT: 15.17 min Scan# 3250

Delta R.T. -0.00 min

Lab File: BN007029.D

Acq: 08 Aug 2019 17:15

Instrument :

BNA\_N

ClientSampleId :

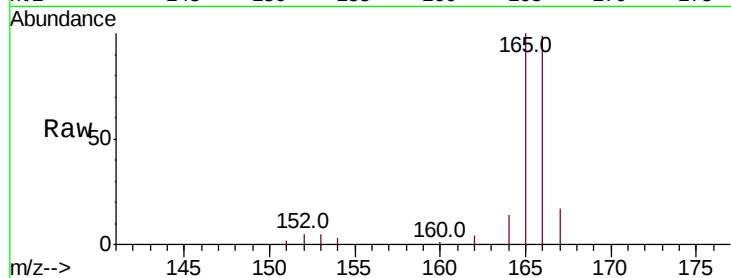
Tot Ion:166 Resp: 8667

Ion Ratio Lower Upper

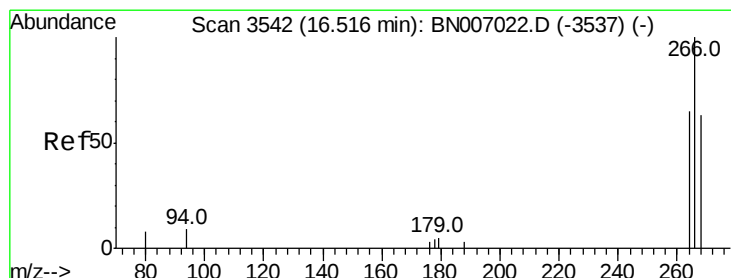
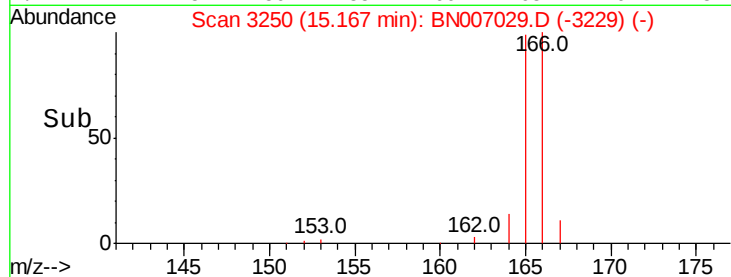
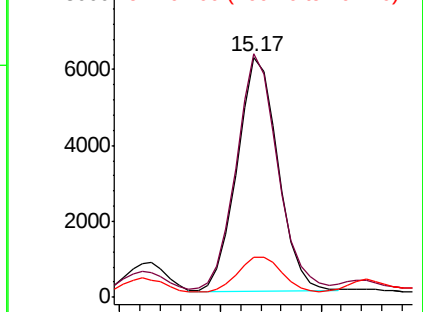
166 100

165 101.3 78.8 118.2

167 16.8 11.3 16.9



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



#11

Pentachlorophenol

Concen: 0.028 ng/ul

RT: 16.52 min Scan# 3543

Delta R.T. 0.00 min

Lab File: BN007029.D

Acq: 08 Aug 2019 17:15

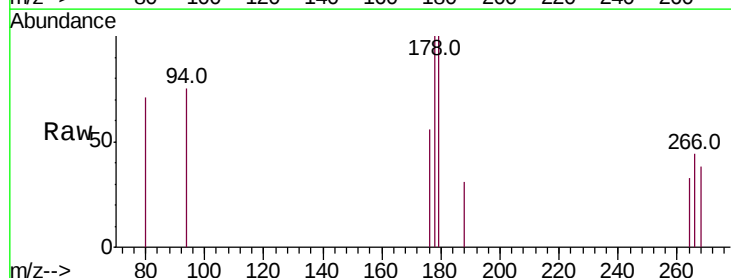
Tgt Ion:266 Resp: 401

Ion Ratio Lower Upper

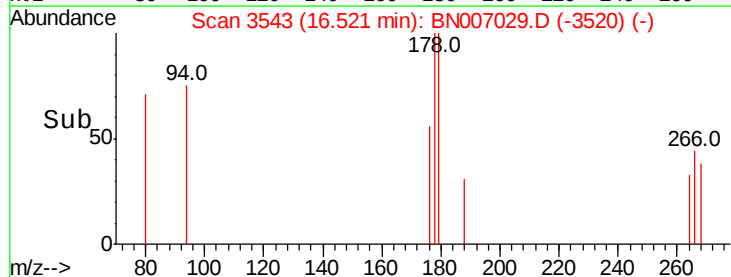
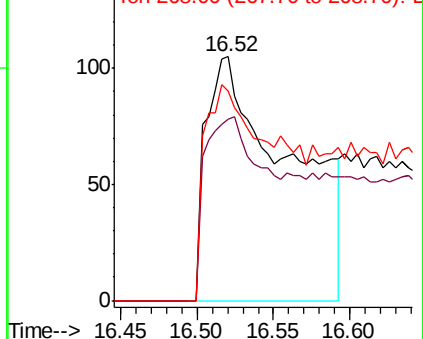
266 100

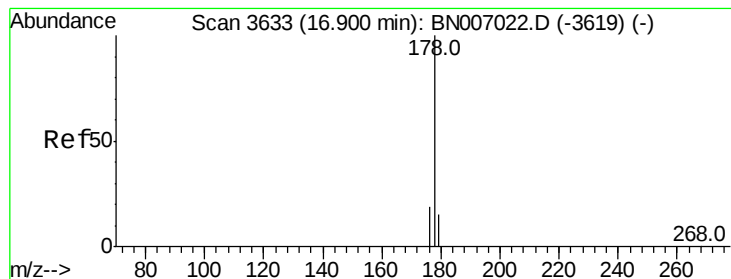
264 84.8 55.7 83.5#

268 104.0 75.2 112.8



Abundance Ion 266.00 (265.70 to 266.70): E  
Ion 264.00 (263.70 to 264.70): E  
Ion 268.00 (267.70 to 268.70): E





#12

Phenanthrene

Concen: 1.296 ng/ul

RT: 16.90 min Scan# 3633

Delta R.T. -0.00 min

Lab File: BN007029.D

Acq: 08 Aug 2019 17:15

Instrument :

BNA\_N

ClientSampleId :

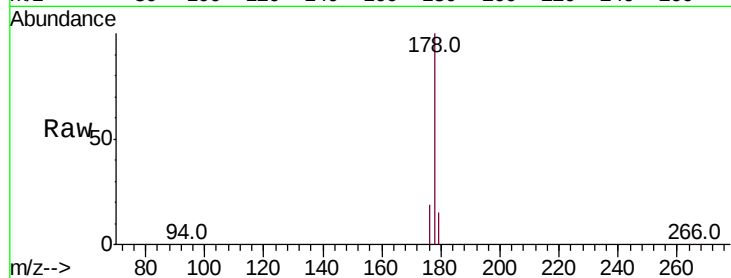
Tot Ion:178 Resp: 213818

Ion Ratio Lower Upper

178 100

179 15.3 12.5 18.7

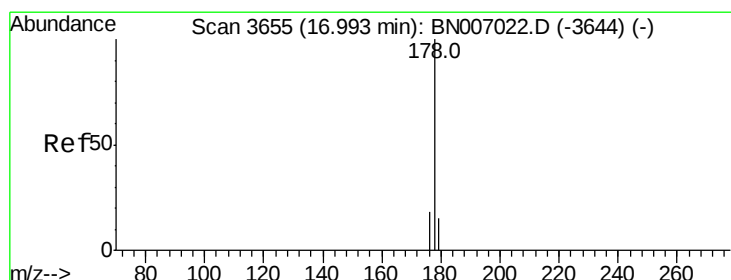
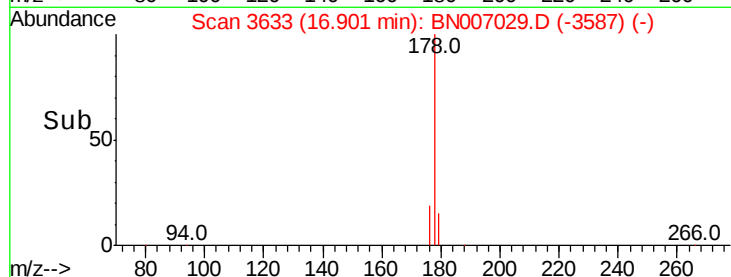
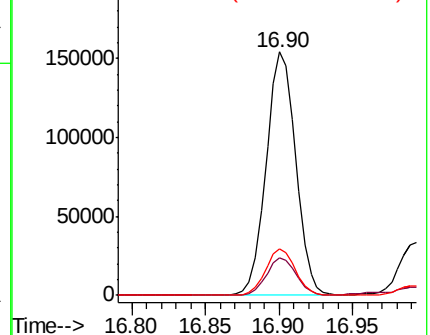
176 19.1 15.6 23.4



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



#13

Anthracene

Concen: 0.271 ng/ul

RT: 16.99 min Scan# 3655

Delta R.T. 0.00 min

Lab File: BN007029.D

Acq: 08 Aug 2019 17:15

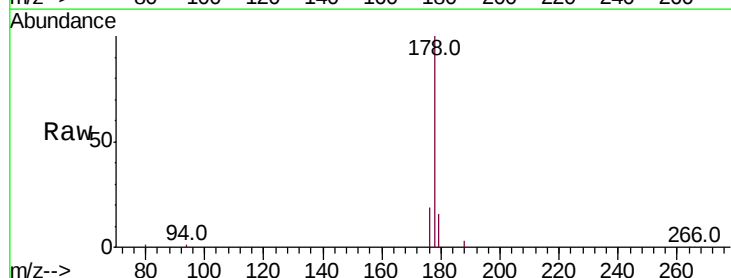
Tgt Ion:178 Resp: 45756

Ion Ratio Lower Upper

178 100

179 15.9 12.6 18.8

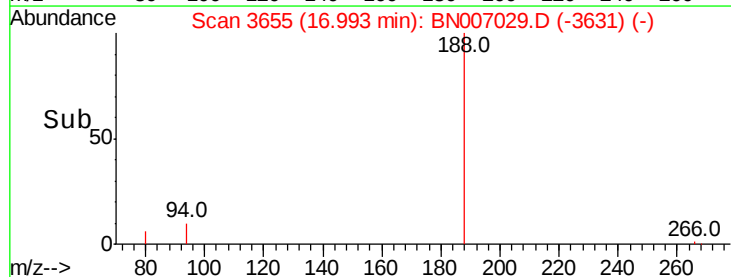
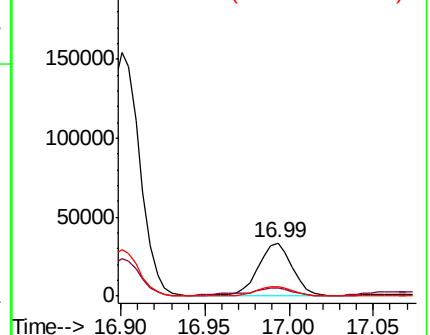
176 18.5 15.4 23.0

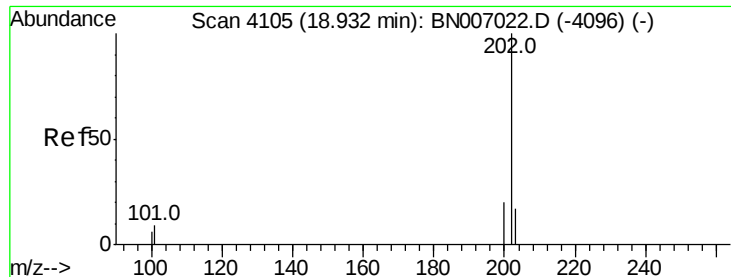


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#15

Fluoranthene

Concen: 2.001 ng/ul

RT: 18.93 min Scan# 4105

Delta R.T. 0.00 min

Lab File: BN007029.D

Acq: 08 Aug 2019 17:15

Instrument :

BNA\_N

ClientSampleId :

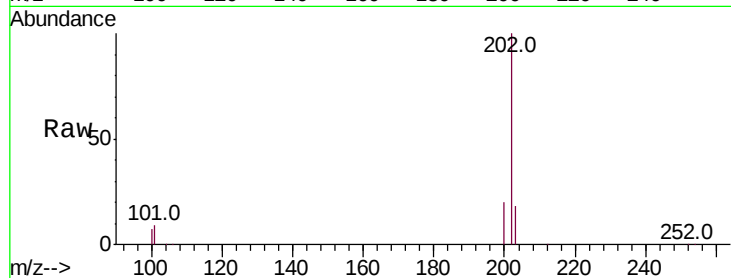
Tot Ion:202 Resp: 410423

Ion Ratio Lower Upper

202 100

101 9.3 0.0 30.0

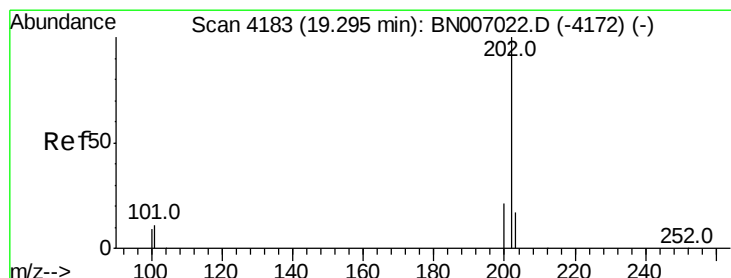
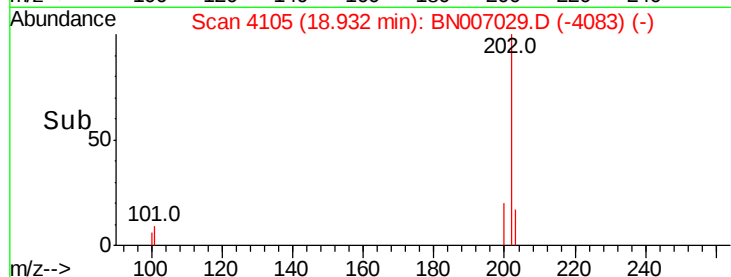
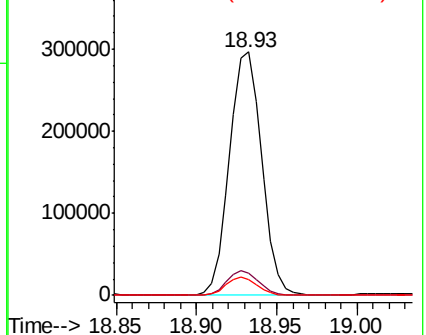
100 6.6 0.0 27.7



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



#17

Pyrene

Concen: 2.917 ng/ul

RT: 19.29 min Scan# 4183

Delta R.T. -0.00 min

Lab File: BN007029.D

Acq: 08 Aug 2019 17:15

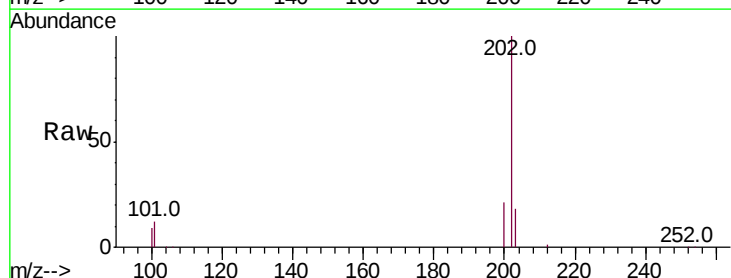
Tgt Ion:202 Resp: 543192

Ion Ratio Lower Upper

202 100

101 11.6 9.3 13.9

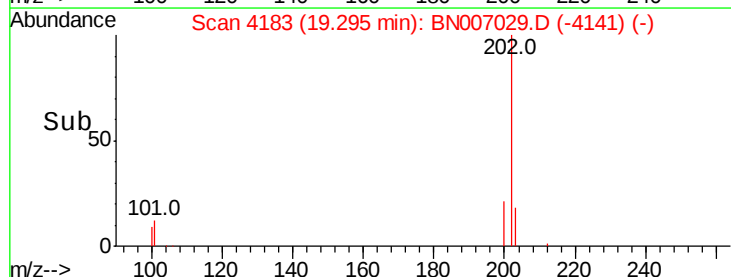
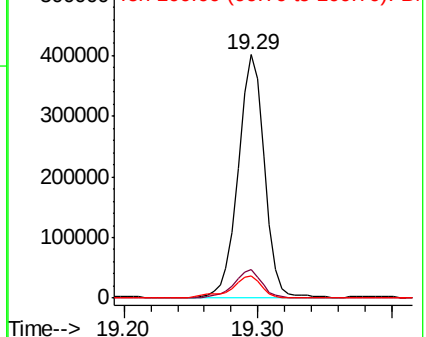
100 9.2 7.3 10.9

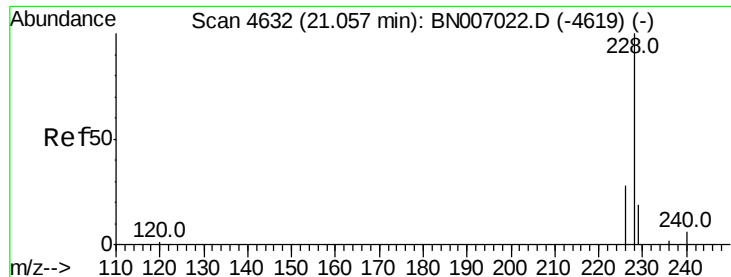


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#18

Benzo(a)anthracene

Concen: 1.651 ng/ul

RT: 21.06 min Scan# 4634

Delta R.T. -0.00 min

Lab File: BN007029.D

Acq: 08 Aug 2019 17:15

Instrument :

BNA\_N

ClientSampleId :

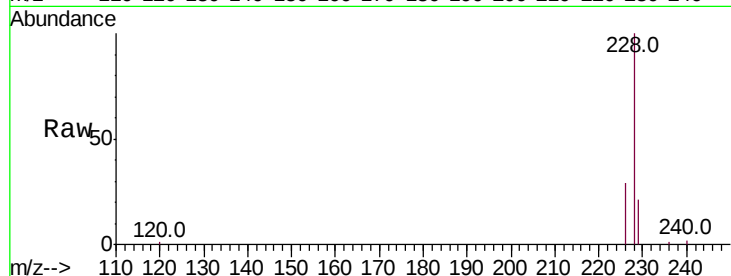
Tot Ion:228 Resp: 302515

Ion Ratio Lower Upper

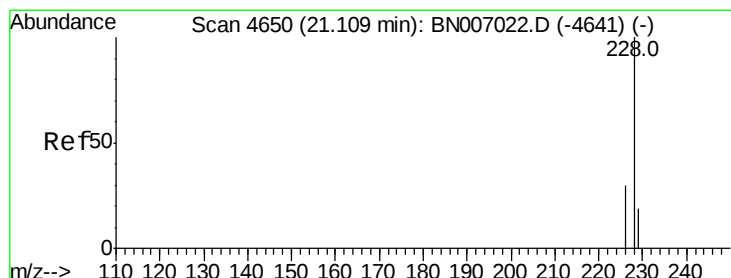
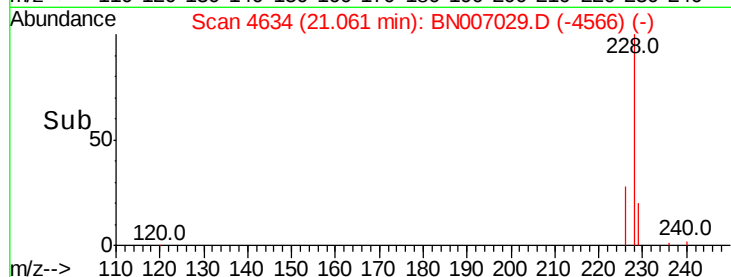
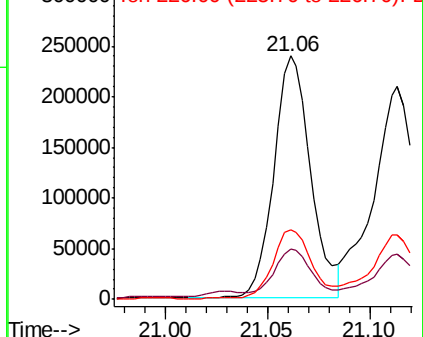
228 100

229 20.7 15.9 23.9

226 28.6 22.2 33.4



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



#19

Chrysene

Concen: 1.731 ng/ul

RT: 21.11 min Scan# 4652

Delta R.T. 0.00 min

Lab File: BN007029.D

Acq: 08 Aug 2019 17:15

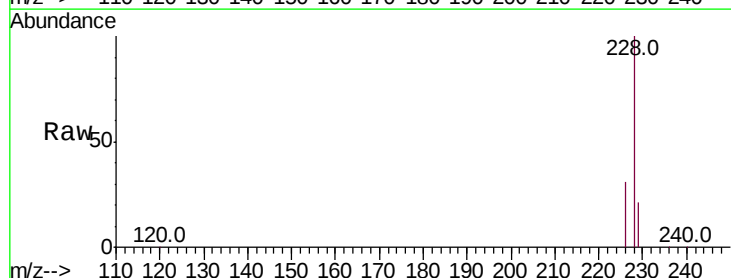
Tgt Ion:228 Resp: 297028

Ion Ratio Lower Upper

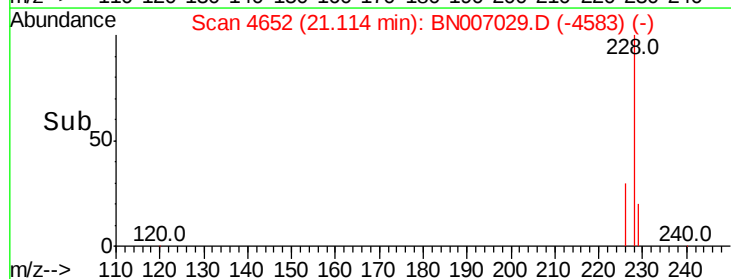
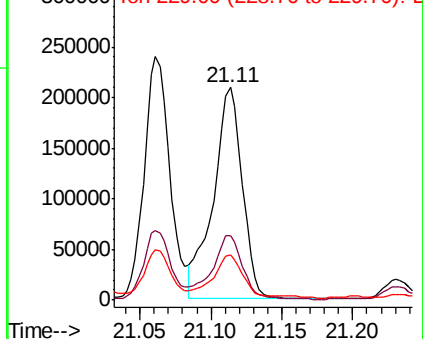
228 100

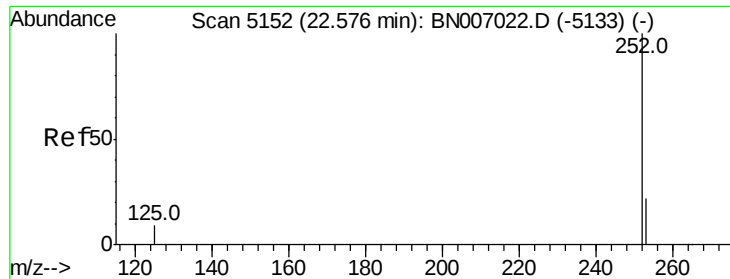
226 30.6 24.7 37.1

229 21.3 15.5 23.3



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





#21

Benzo(b)fluoranthene

Concen: 1.924 ng/ul

RT: 22.58 min Scan# 5155

Delta R.T. 0.00 min

Lab File: BN007029.D

Acq: 08 Aug 2019 17:15

Instrument :

BNA\_N

ClientSampled :

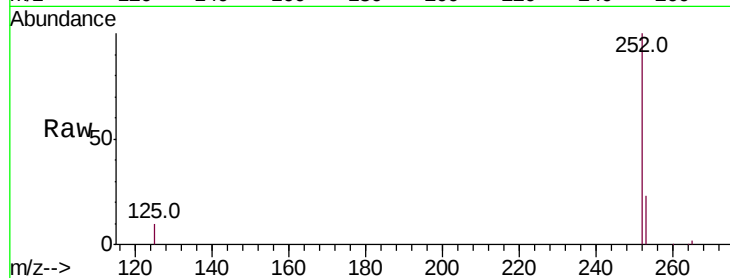
Tot Ion:252 Resp: 324445

Ion Ratio Lower Upper

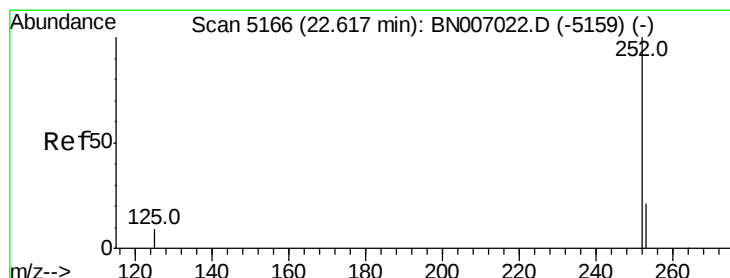
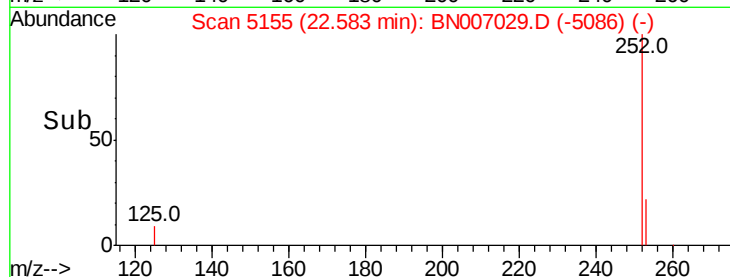
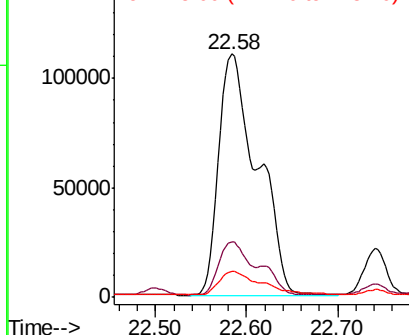
252 100

253 22.7 0.0 45.2

125 10.5 0.0 22.2



Abundance Ion 252.00 (251.70 to 252.70): E  
150000 Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#22

Benzo(k)fluoranthene

Concen: 1.985 ng/ul

RT: 22.58 min Scan# 5155

Delta R.T. -0.04 min

Lab File: BN007029.D

Acq: 08 Aug 2019 17:15

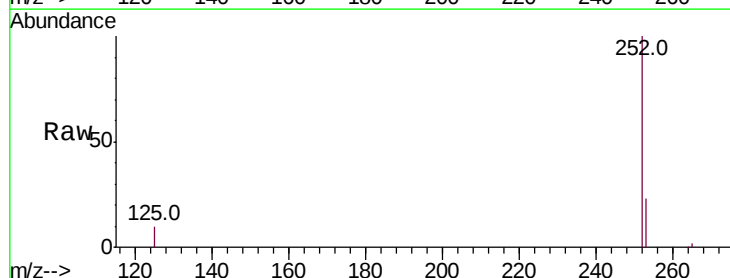
Tgt Ion:252 Resp: 324445

Ion Ratio Lower Upper

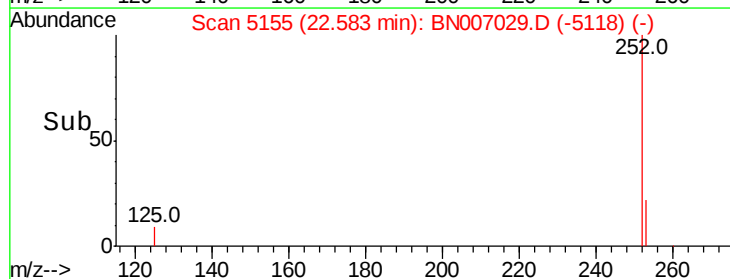
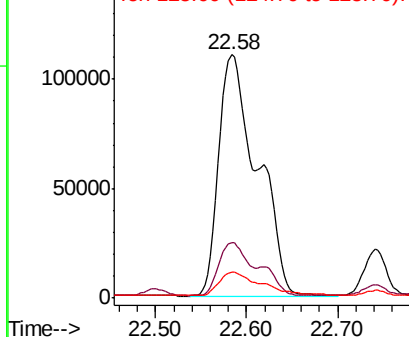
252 100

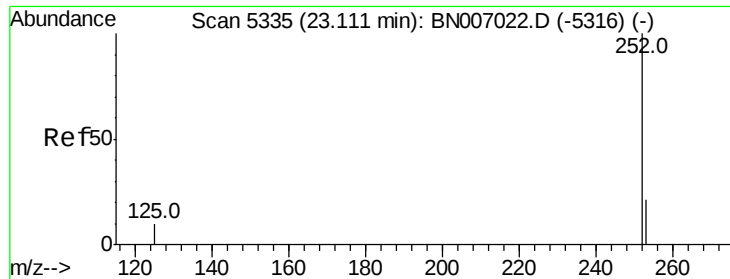
253 22.7 18.6 28.0

125 10.5 8.7 13.1



Abundance Ion 252.00 (251.70 to 252.70): E  
150000 Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 1.244 ng/ul

RT: 23.12 min Scan# 5337

Delta R.T. 0.00 min

Lab File: BN007029.D

Acq: 08 Aug 2019 17:15

Instrument :

BNA\_N

ClientSampled :

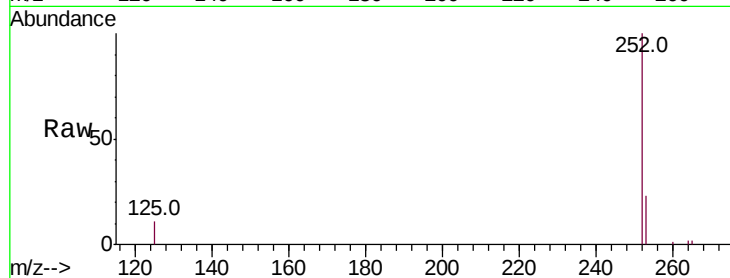
Tot Ion:252 Resp: 197613

Ion Ratio Lower Upper

252 100

253 22.8 18.0 27.0

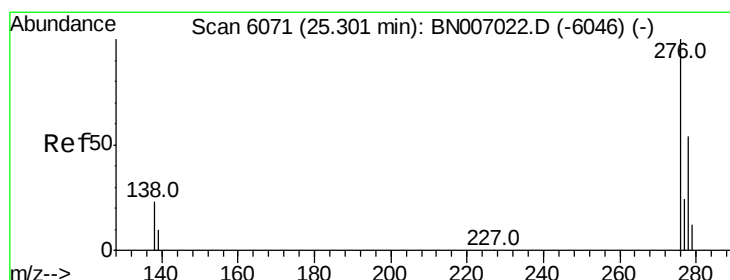
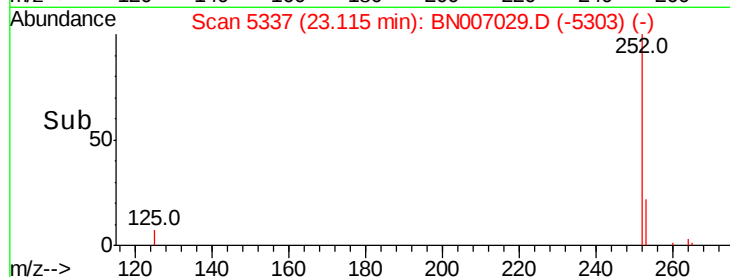
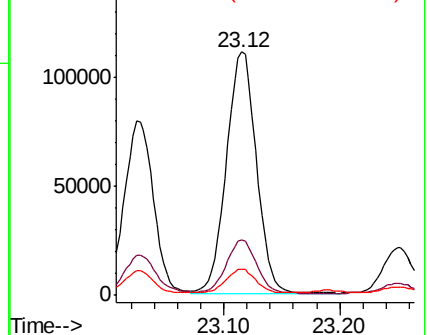
125 10.8 10.0 15.0



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.537 ng/ul

RT: 25.30 min Scan# 6072

Delta R.T. -0.00 min

Lab File: BN007029.D

Acq: 08 Aug 2019 17:15

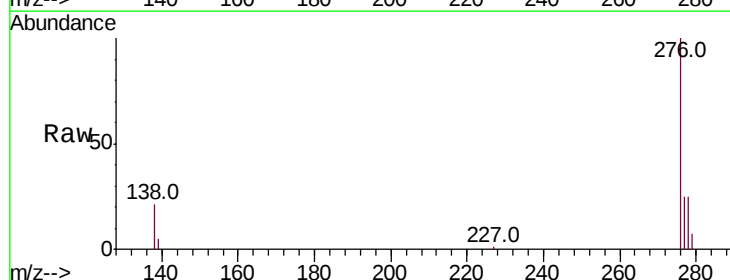
Tgt Ion:276 Resp: 91912

Ion Ratio Lower Upper

276 100

138 21.1 19.9 29.9

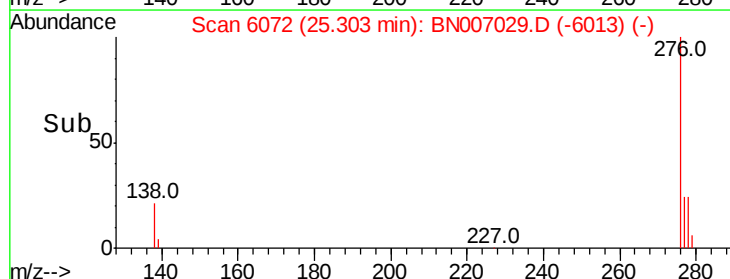
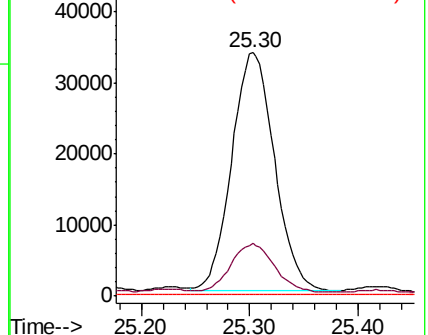
227 0.2 0.2 0.4#

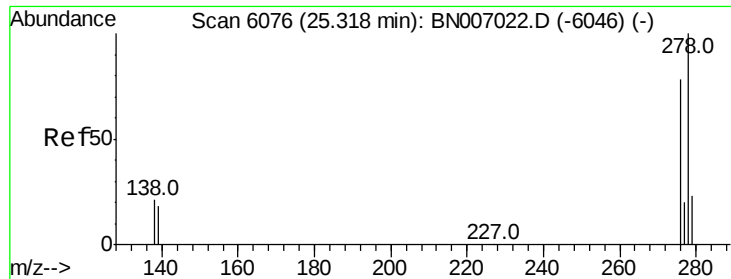


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E



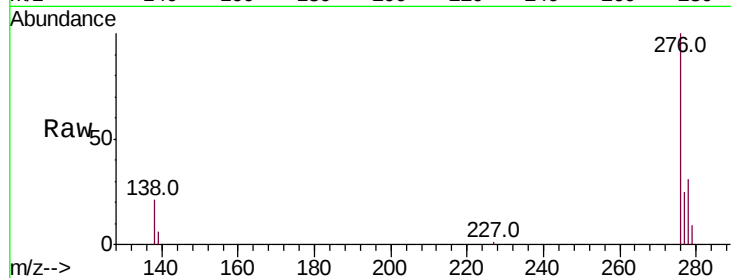


#25  
Dibenzo(a,h)anthracene  
Concen: 0.202 ng/ul  
RT: 25.31 min Scan# 6075  
Delta R.T. -0.01 min  
Lab File: BN007029.D  
Acq: 08 Aug 2019 17:15

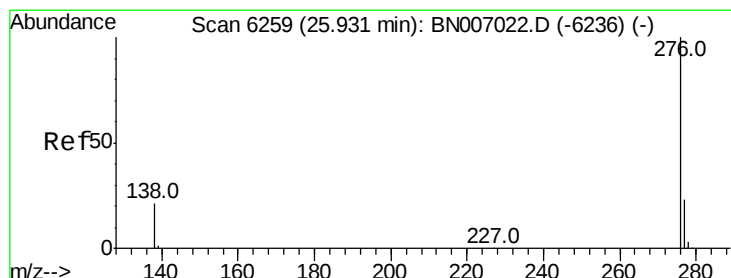
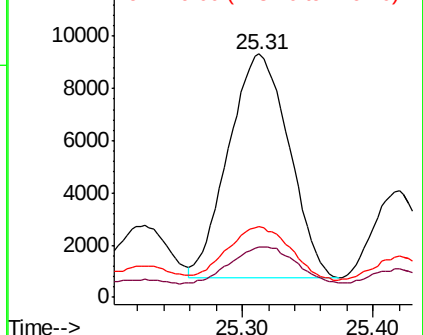
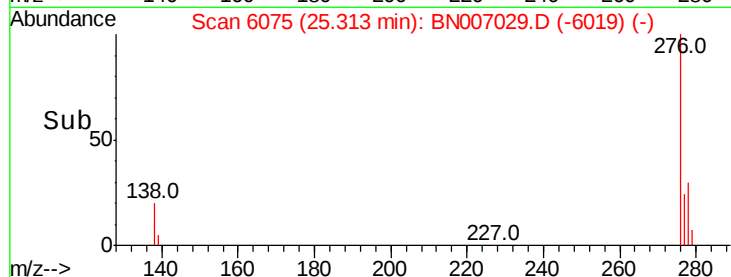
Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:278 Resp: 27571  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 20.6  | 14.3  | 21.5  |
| 279 | 29.3  | 19.6  | 29.4  |



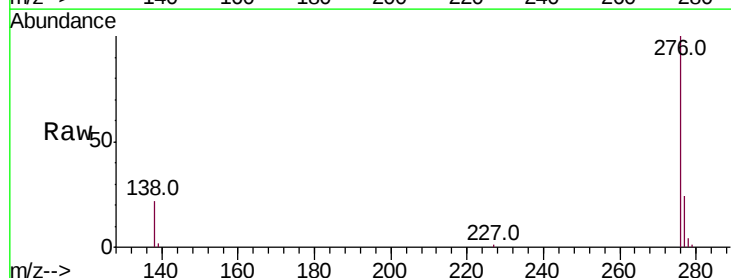
Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#26  
Benzo(g,h,i)perylene  
Concen: 0.681 ng/ul  
RT: 25.94 min Scan# 6261  
Delta R.T. 0.00 min  
Lab File: BN007029.D  
Acq: 08 Aug 2019 17:15

Tgt Ion:276 Resp: 97772  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 21.5  | 18.7  | 28.1  |
| 277 | 24.5  | 19.3  | 28.9  |



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

