

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN061019\  
 Data File : BN006229.D  
 Acq On : 10 Jun 2019 18:52  
 Operator : JU/SJ  
 Sample : K3017-09DL 5X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Jun 11 00:19:10 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN053019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Jun 09 05:10:30 2019  
 Response via : Initial Calibration

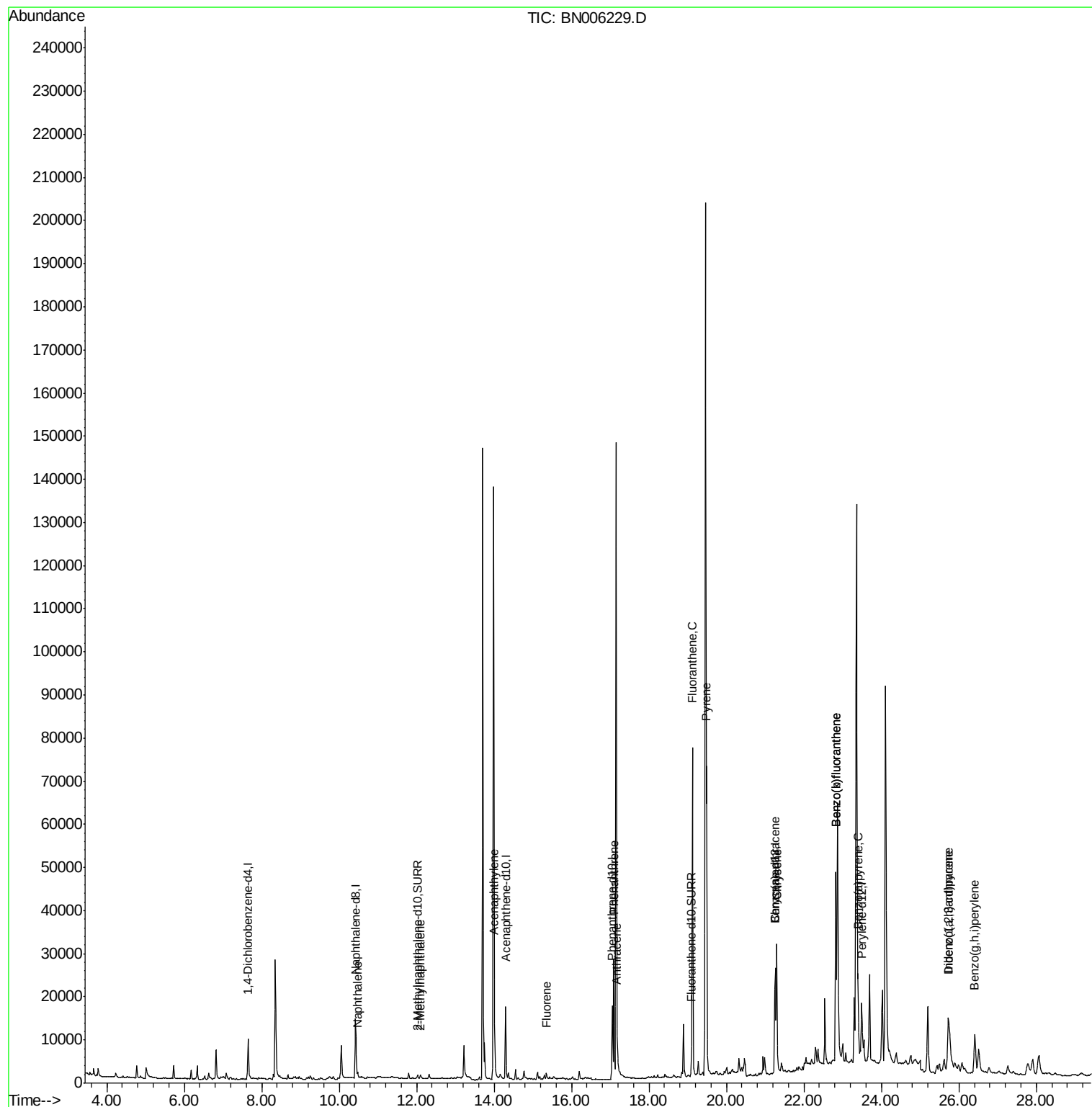
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.64  | 152  | 5143     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.42 | 136  | 19370    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.30 | 164  | 9625     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.05 | 188  | 19602    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.26 | 240  | 15856    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.49 | 264  | 18767    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.02 | 152  | 1134     | 0.04   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.09 | 212  | 2180     | 0.04   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.47 | 128  | 1660     | 0.031  | ng/ul# | 84       |
| 5) 2-Methylnaphthalene      | 12.10 | 142  | 756      | 0.020  | ng/ul  | 96       |
| 7) Acenaphthylene           | 14.01 | 152  | 5281     | 0.099  | ng/ul  | 95       |
| 9) Fluorene                 | 15.35 | 166  | 1219     | 0.028  | ng/ul# | 93       |
| 12) Phenanthrene            | 17.09 | 178  | 30575    | 0.486  | ng/ul  | 99       |
| 13) Anthracene              | 17.18 | 178  | 4630     | 0.077  | ng/ul# | 93       |
| 15) Fluoranthene            | 19.12 | 202  | 62707    | 0.903  | ng/ul  | 96       |
| 17) Pyrene                  | 19.48 | 202  | 58180    | 0.697  | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.25 | 228  | 18228    | 0.260  | ng/ul  | 94       |
| 19) Chrysene                | 21.30 | 228  | 31895    | 0.484  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.83 | 252  | 54339    | 0.694  | ng/ul# | 25       |
| 22) Benzo(k)fluoranthene    | 22.83 | 252  | 54339    | 0.713  | ng/ul# | 23       |
| 23) Benzo(a)pyrene          | 23.40 | 252  | 23762    | 0.326  | ng/ul  | 99       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.73 | 276  | 20490    | 0.260  | ng/ul# | 43       |
| 25) Dibenzo(a,h)anthracene  | 25.74 | 278  | 4434     | 0.070  | ng/ul# | 1        |
| 26) Benzo(a,h,i)perylene    | 26.41 | 276  | 19949    | 0.302  | ng/ul  | 96       |

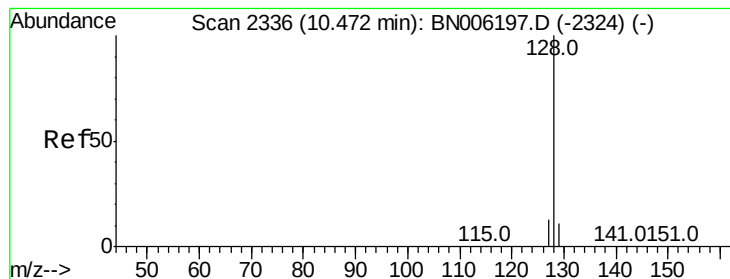
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sun Jun 09 05:10:30 2019  
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#3

Naphthalene

Concen: 0.031 ng/ul

RT: 10.47 min Scan# 2336

Delta R.T. 0.00 min

Lab File: BN006229.D

Acq: 10 Jun 2019 18:52

Instrument :

BNA\_N

ClientSampleId :

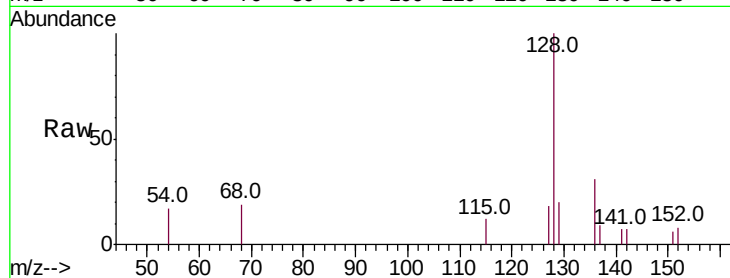
Tot Ion:128 Resp: 1660

Ion Ratio Lower Upper

128 100

129 19.6 9.3 13.9#

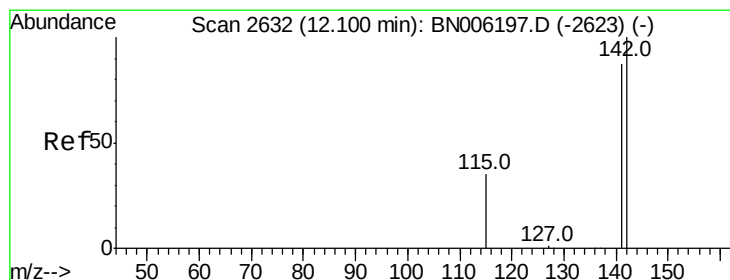
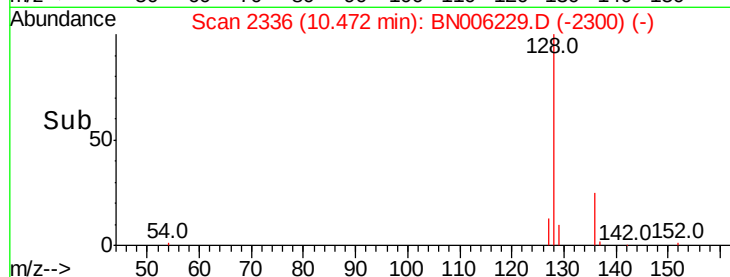
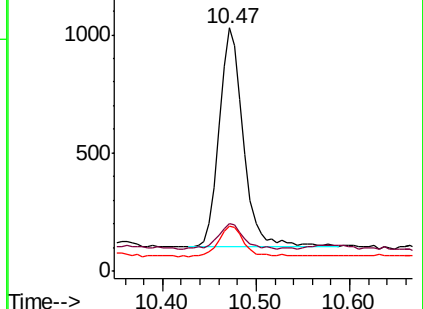
127 18.4 10.7 16.1#



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



#5

2-Methylnaphthalene

Concen: 0.020 ng/ul

RT: 12.10 min Scan# 2632

Delta R.T. 0.00 min

Lab File: BN006229.D

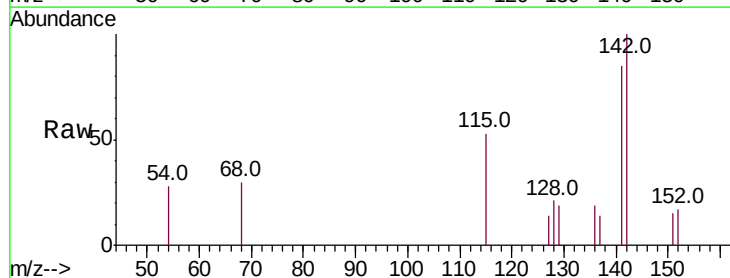
Acq: 10 Jun 2019 18:52

Tgt Ion:142 Resp: 756

Ion Ratio Lower Upper

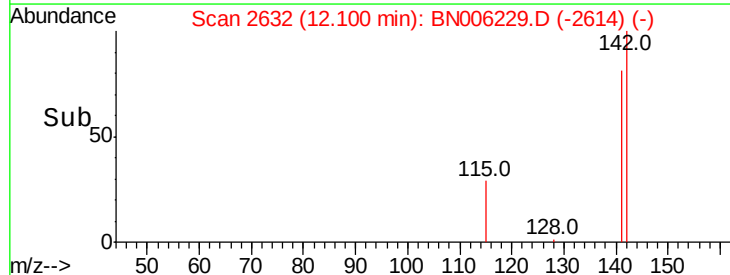
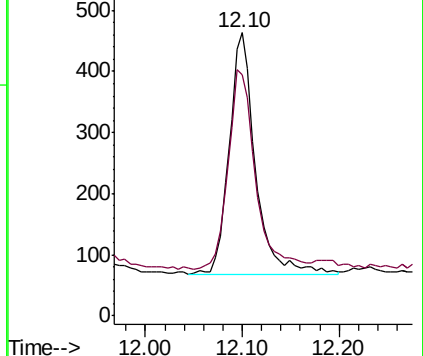
142 100

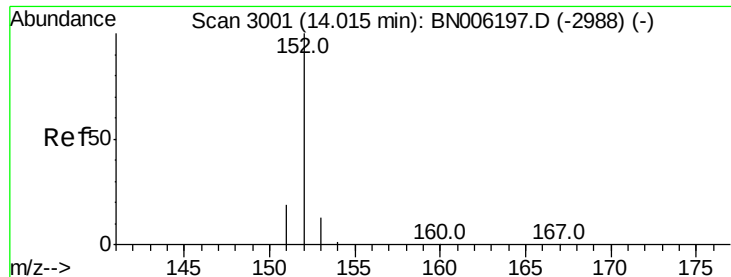
141 84.1 70.3 105.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.099 ng/ul

RT: 14.01 min Scan# 3001

Delta R.T. -0.00 min

Lab File: BN006229.D

Acq: 10 Jun 2019 18:52

Instrument :

BNA\_N

ClientSampleId :

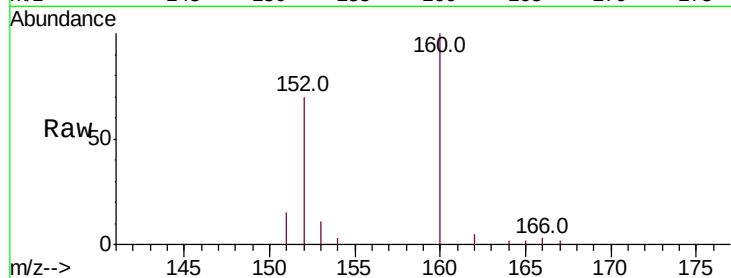
Tot Ion:152 Resp: 5281

Ion Ratio Lower Upper

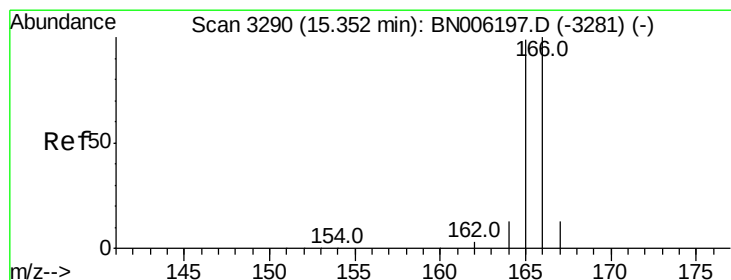
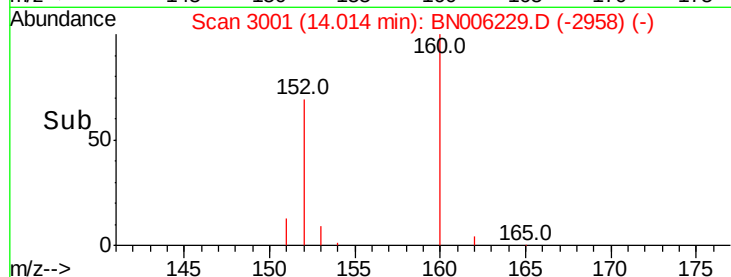
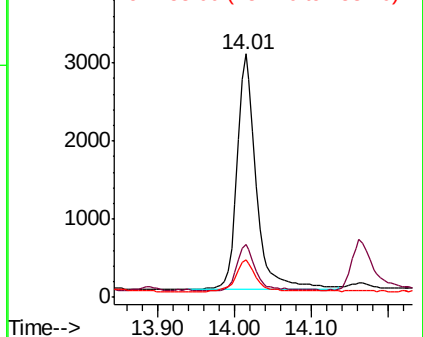
152 100

151 21.8 15.8 23.8

153 15.5 10.8 16.2



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

Fluorene

Concen: 0.028 ng/ul

RT: 15.35 min Scan# 3290

Delta R.T. -0.00 min

Lab File: BN006229.D

Acq: 10 Jun 2019 18:52

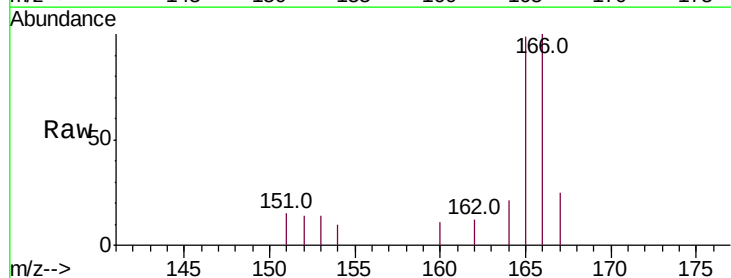
Tgt Ion:166 Resp: 1219

Ion Ratio Lower Upper

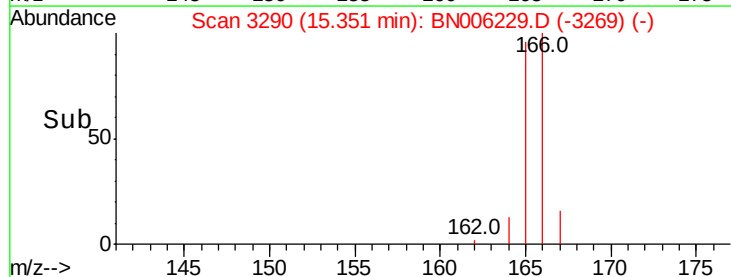
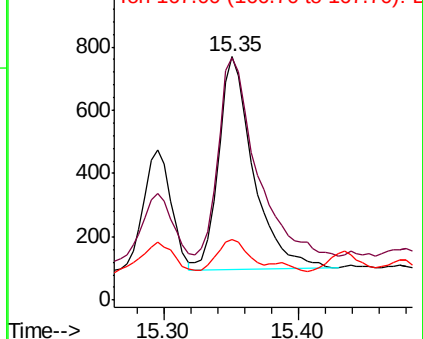
166 100

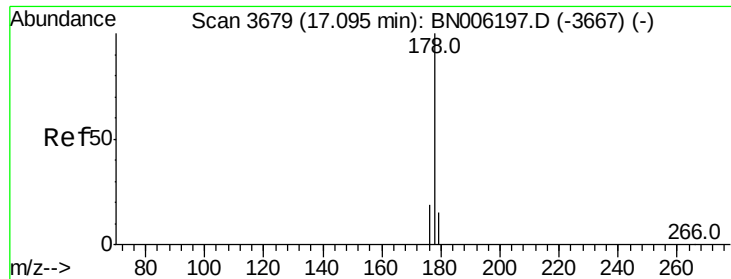
165 99.5 76.4 114.6

167 25.0 11.0 16.6#



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





#12

Phenanthrene

Concen: 0.486 ng/ul

RT: 17.09 min Scan# 3678

Delta R.T. -0.00 min

Lab File: BN006229.D

Acq: 10 Jun 2019 18:52

Instrument :

BNA\_N

ClientSampleId :

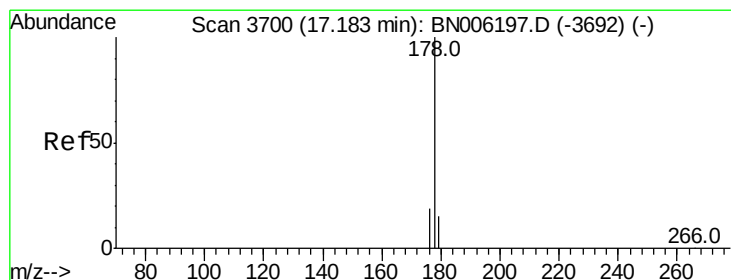
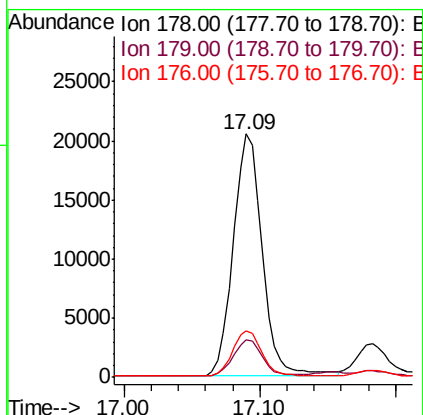
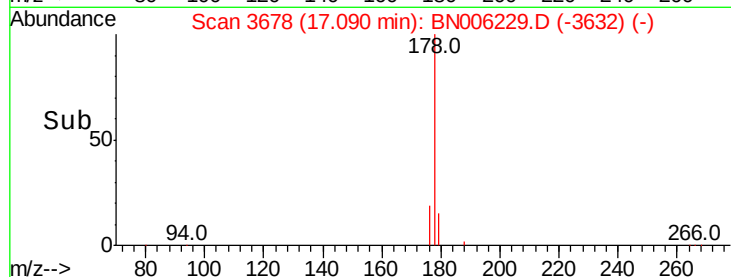
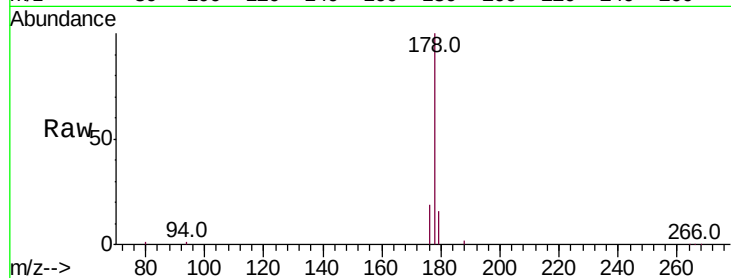
Tot Ion:178 Resp: 30575

Ion Ratio Lower Upper

178 100

179 15.7 12.3 18.5

176 19.3 15.3 22.9



#13

Anthracene

Concen: 0.077 ng/ul

RT: 17.18 min Scan# 3700

Delta R.T. -0.00 min

Lab File: BN006229.D

Acq: 10 Jun 2019 18:52

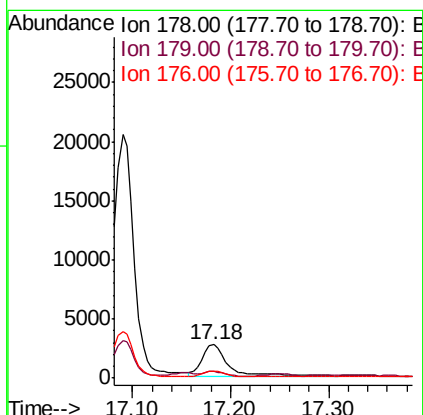
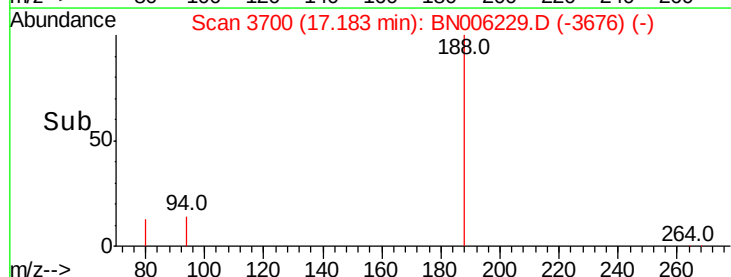
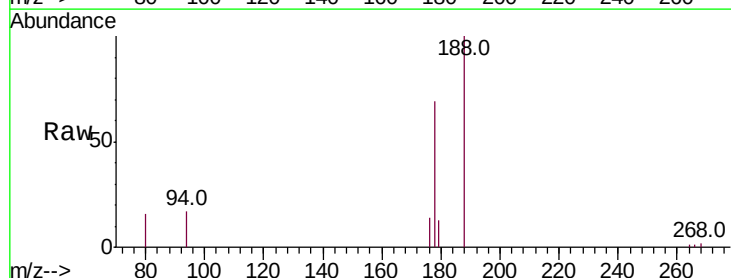
Tgt Ion:178 Resp: 4630

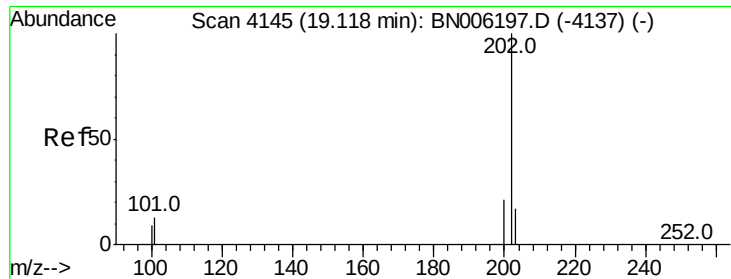
Ion Ratio Lower Upper

178 100

179 19.4 12.2 18.4#

176 20.6 15.1 22.7

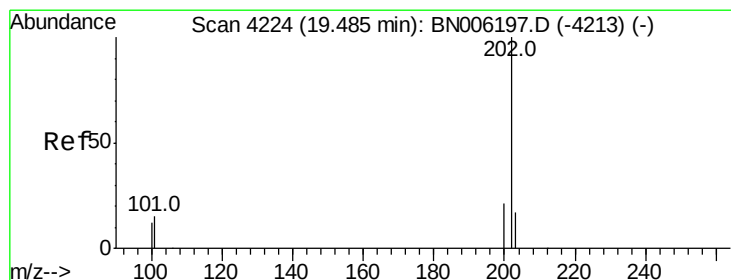
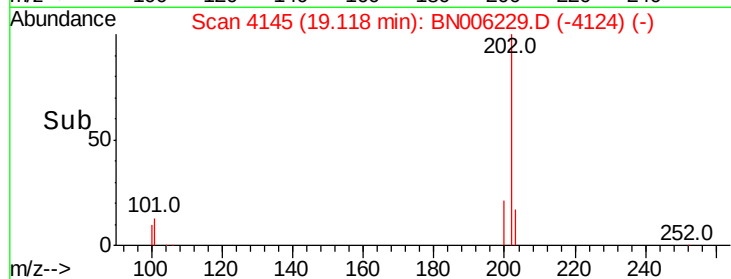
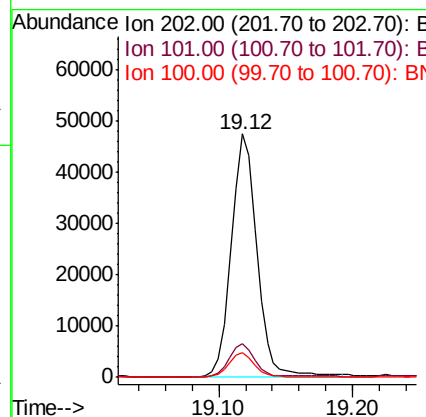
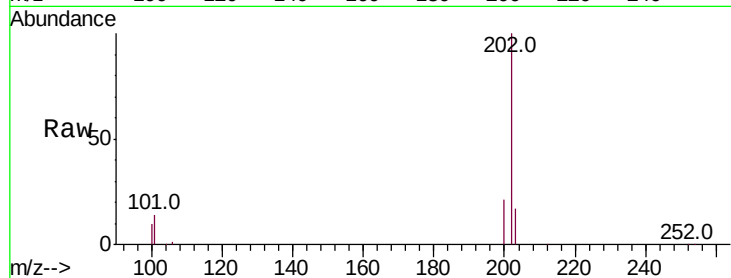




#15  
Fluoranthene  
Concen: 0.903 ng/ul  
RT: 19.12 min Scan# 4145  
Delta R.T. -0.00 min  
Lab File: BN006229.D  
Acq: 10 Jun 2019 18:52

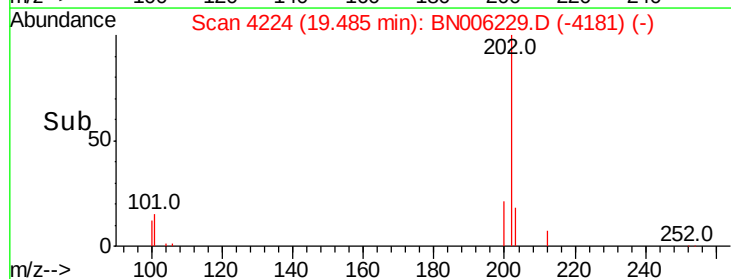
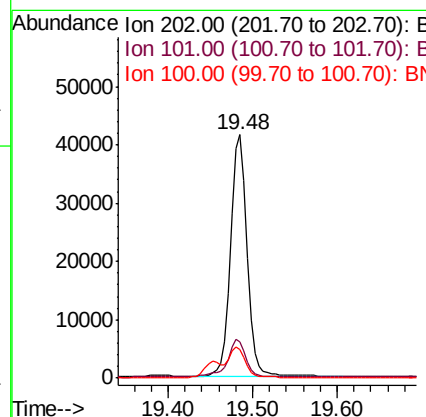
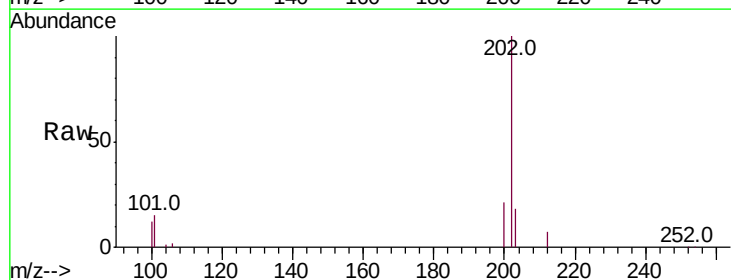
Instrument :  
BNA\_N  
ClientSampleId :

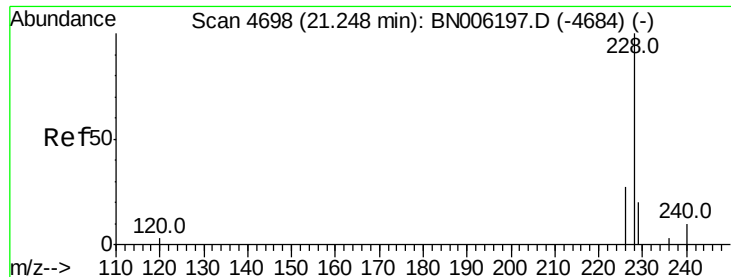
Tot Ion:202 Resp: 62707  
Ion Ratio Lower Upper  
202 100  
101 13.8 0.0 32.1  
100 9.9 0.0 28.7



#17  
Pyrene  
Concen: 0.697 ng/ul  
RT: 19.48 min Scan# 4224  
Delta R.T. -0.00 min  
Lab File: BN006229.D  
Acq: 10 Jun 2019 18:52

Tgt Ion:202 Resp: 58180  
Ion Ratio Lower Upper  
202 100  
101 15.0 12.2 18.2  
100 11.6 9.8 14.6





#18

Benzo(a)anthracene

Concen: 0.260 ng/ul

RT: 21.25 min Scan# 4697

Delta R.T. -0.00 min

Lab File: BN006229.D

Acq: 10 Jun 2019 18:52

Instrument :

BNA\_N

ClientSampleId :

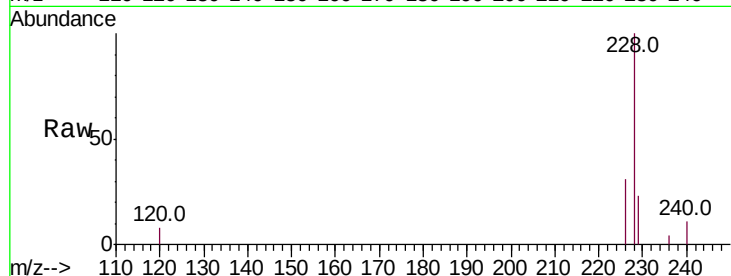
Tot Ion:228 Resp: 18228

Ion Ratio Lower Upper

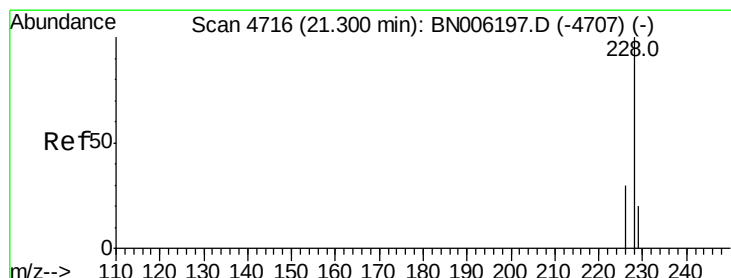
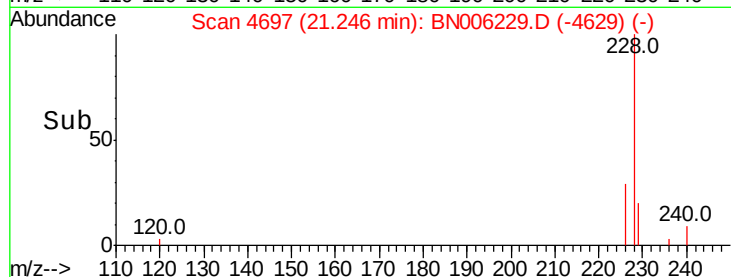
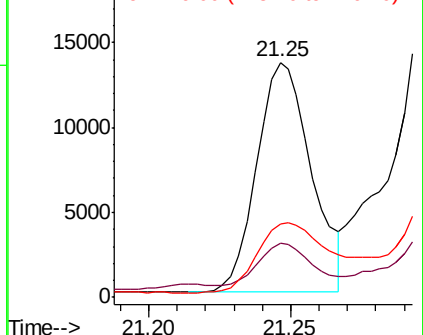
228 100

229 23.2 16.5 24.7

226 31.4 22.8 34.2



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



#19

Chrysene

Concen: 0.484 ng/ul

RT: 21.30 min Scan# 4715

Delta R.T. -0.00 min

Lab File: BN006229.D

Acq: 10 Jun 2019 18:52

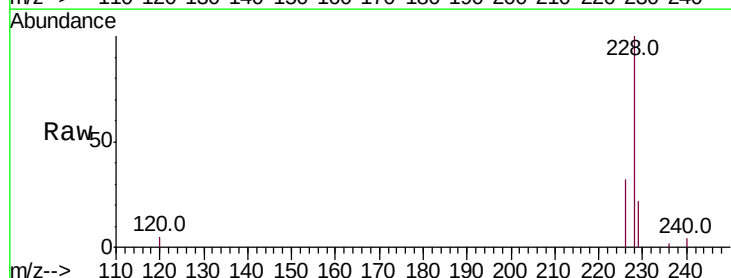
Tgt Ion:228 Resp: 31895

Ion Ratio Lower Upper

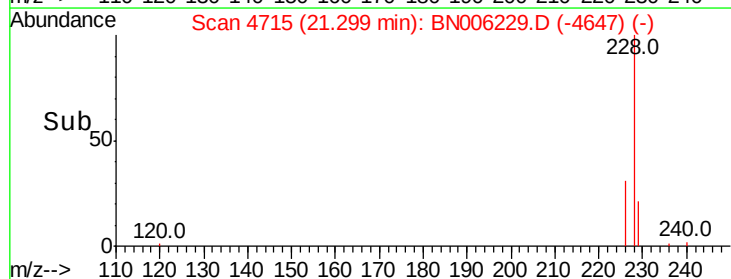
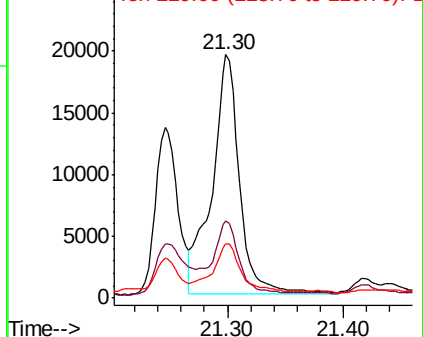
228 100

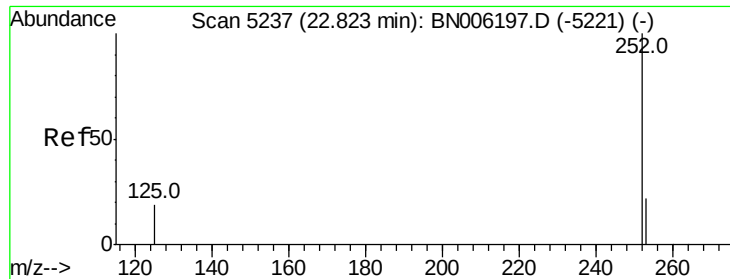
226 31.6 25.0 37.6

229 22.4 16.3 24.5



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: 0.694 ng/ul

RT: 22.83 min Scan# 5239

Delta R.T. 0.01 min

Lab File: BN006229.D

Acq: 10 Jun 2019 18:52

Instrument :

BNA\_N

ClientSampleId :

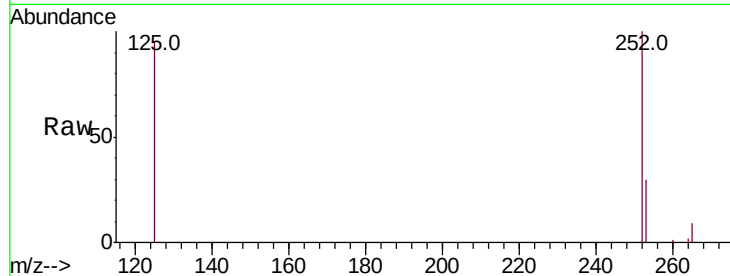
Tot Ion:252 Resp: 54339

Ion Ratio Lower Upper

252 100

253 29.6 0.0 51.4

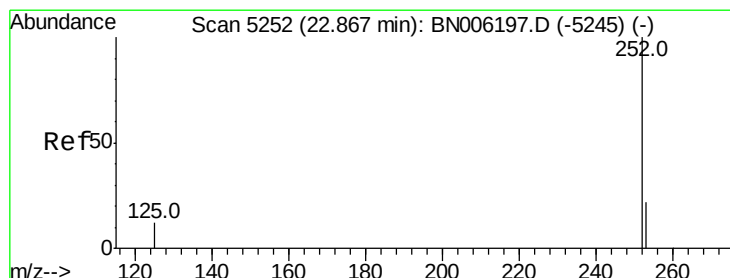
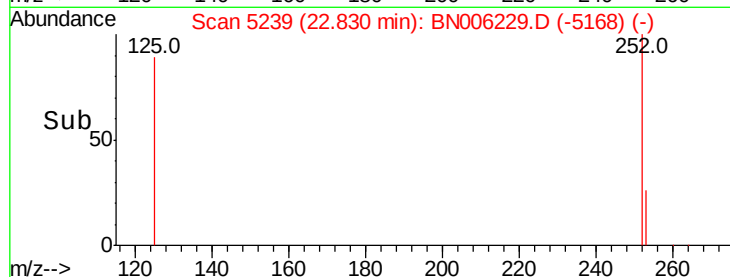
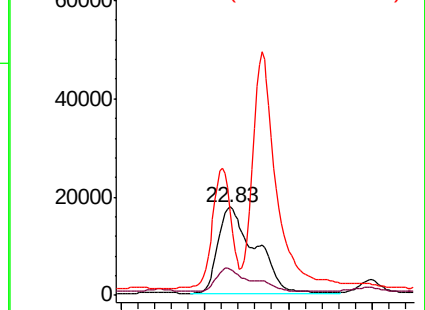
125 94.5 0.0 41.0#



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



#22

Benzo(k)fluoranthene

Concen: 0.713 ng/ul

RT: 22.83 min Scan# 5239

Delta R.T. -0.04 min

Lab File: BN006229.D

Acq: 10 Jun 2019 18:52

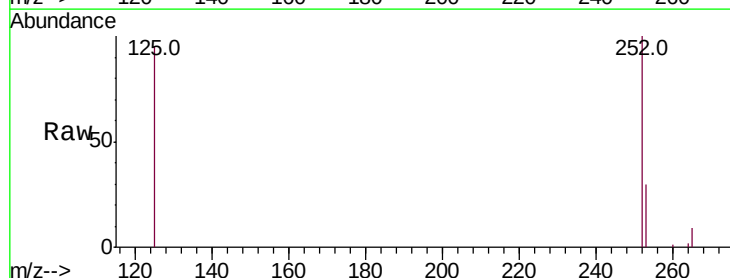
Tgt Ion:252 Resp: 54339

Ion Ratio Lower Upper

252 100

253 29.6 20.3 30.5

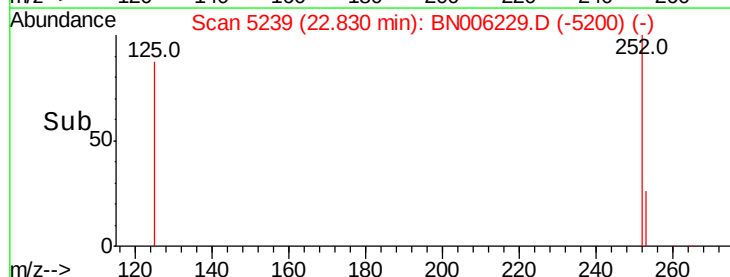
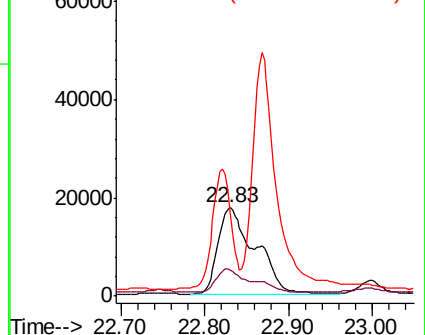
125 94.5 14.3 21.5#



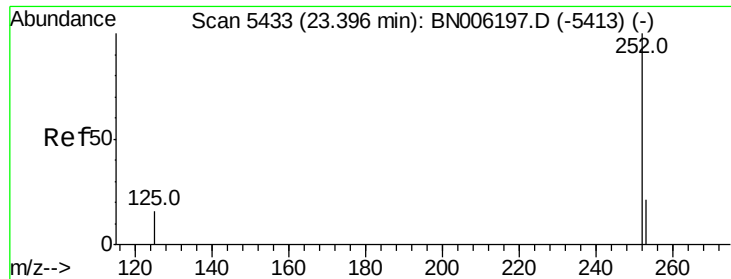
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E







#23

Benzo(a)pyrene

Concen: 0.326 ng/ul

RT: 23.40 min Scan# 5433

Delta R.T. 0.00 min

Lab File: BN006229.D

Acq: 10 Jun 2019 18:52

Instrument :

BNA\_N

ClientSampleId :

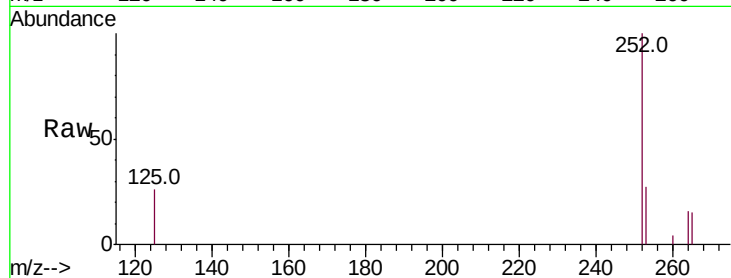
Tot Ion:252 Resp: 23762

Ion Ratio Lower Upper

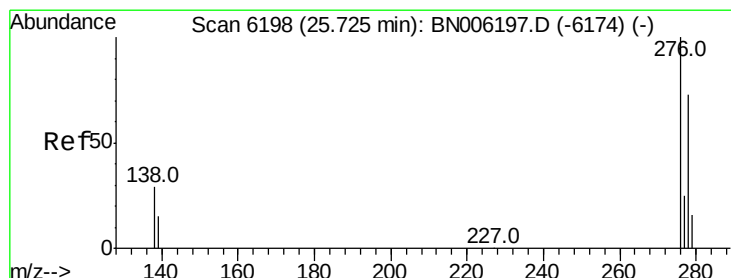
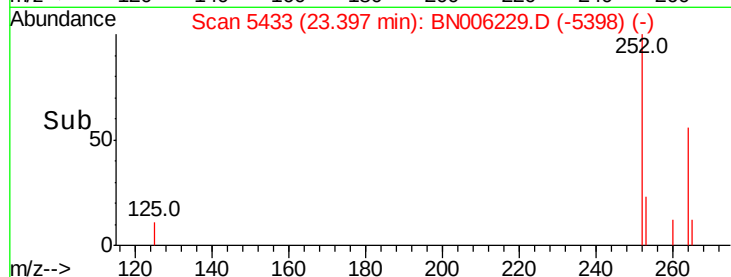
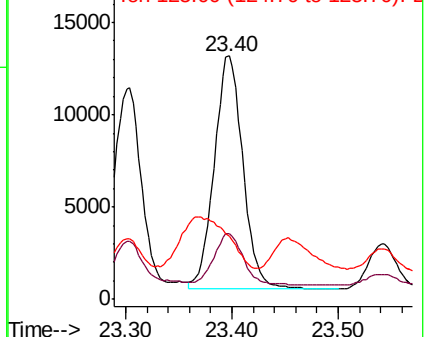
252 100

253 27.0 21.1 31.7

125 25.8 20.3 30.5



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: 0.260 ng/ul

RT: 25.73 min Scan# 6199

Delta R.T. 0.00 min

Lab File: BN006229.D

Acq: 10 Jun 2019 18:52

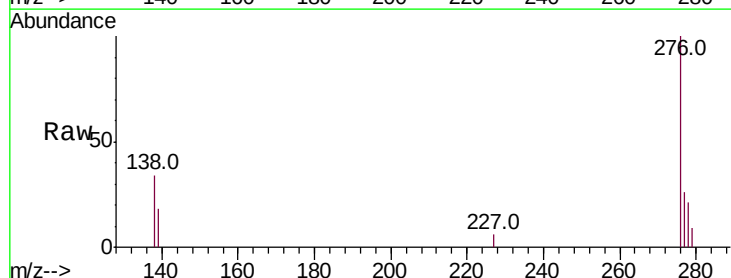
Tgt Ion:276 Resp: 20490

Ion Ratio Lower Upper

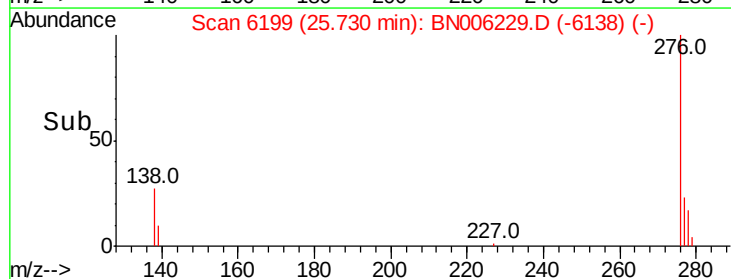
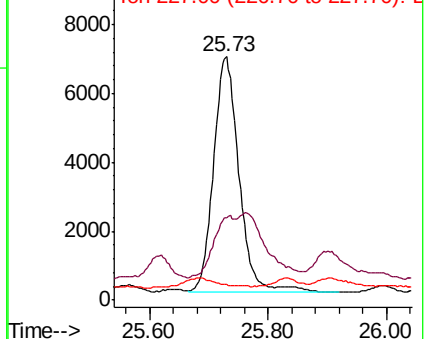
276 100

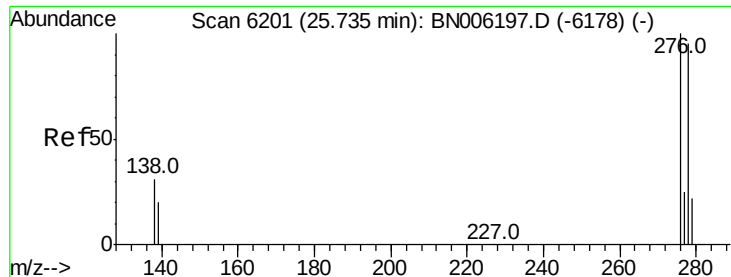
138 0.0 25.6 38.4#

227 0.0 0.3 0.5#



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

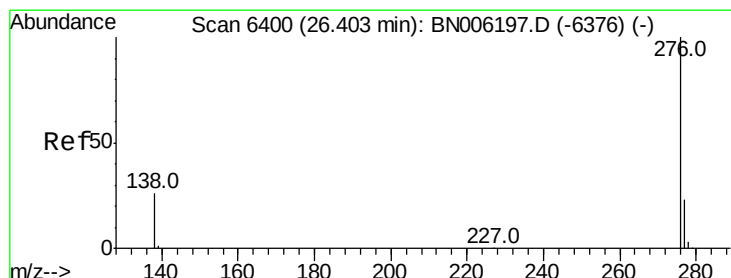
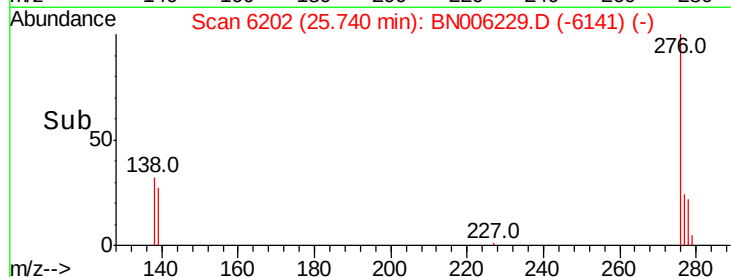
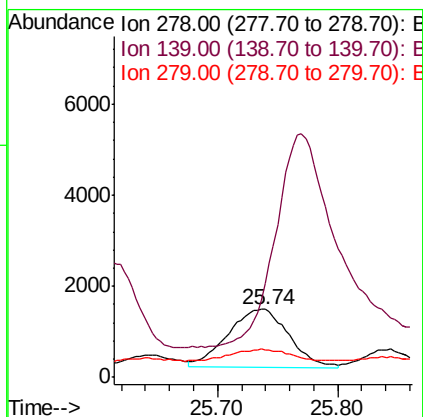
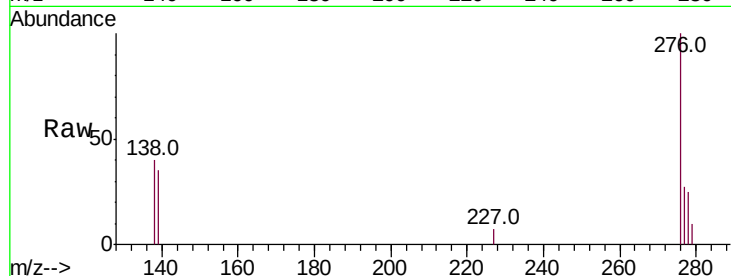




#25  
Dibenzo(a,h)anthracene  
Concen: 0.070 ng/ul  
RT: 25.74 min Scan# 6202  
Delta R.T. 0.00 min  
Lab File: BN006229.D  
Acq: 10 Jun 2019 18:52

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:278 Resp: 4434  
Ion Ratio Lower Upper  
278 100  
139 137.7 21.2 31.8#  
279 41.1 22.6 33.8#



#26  
Benzo(g,h,i)perylene  
Concen: 0.302 ng/ul  
RT: 26.41 min Scan# 6402  
Delta R.T. 0.01 min  
Lab File: BN006229.D  
Acq: 10 Jun 2019 18:52

Tgt Ion:276 Resp: 19949  
Ion Ratio Lower Upper  
276 100  
138 32.5 24.2 36.4  
277 25.4 21.5 32.3

