

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101420\  
 Data File : BN012273.D  
 Acq On : 16 Oct 2020 18:50  
 Operator : CG/JU  
 Sample : L4201-11  
 Misc :  
 ALS Vial : 85 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Oct 16 23:49:40 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101420.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 16 23:42:05 2020  
 Response via : Initial Calibration

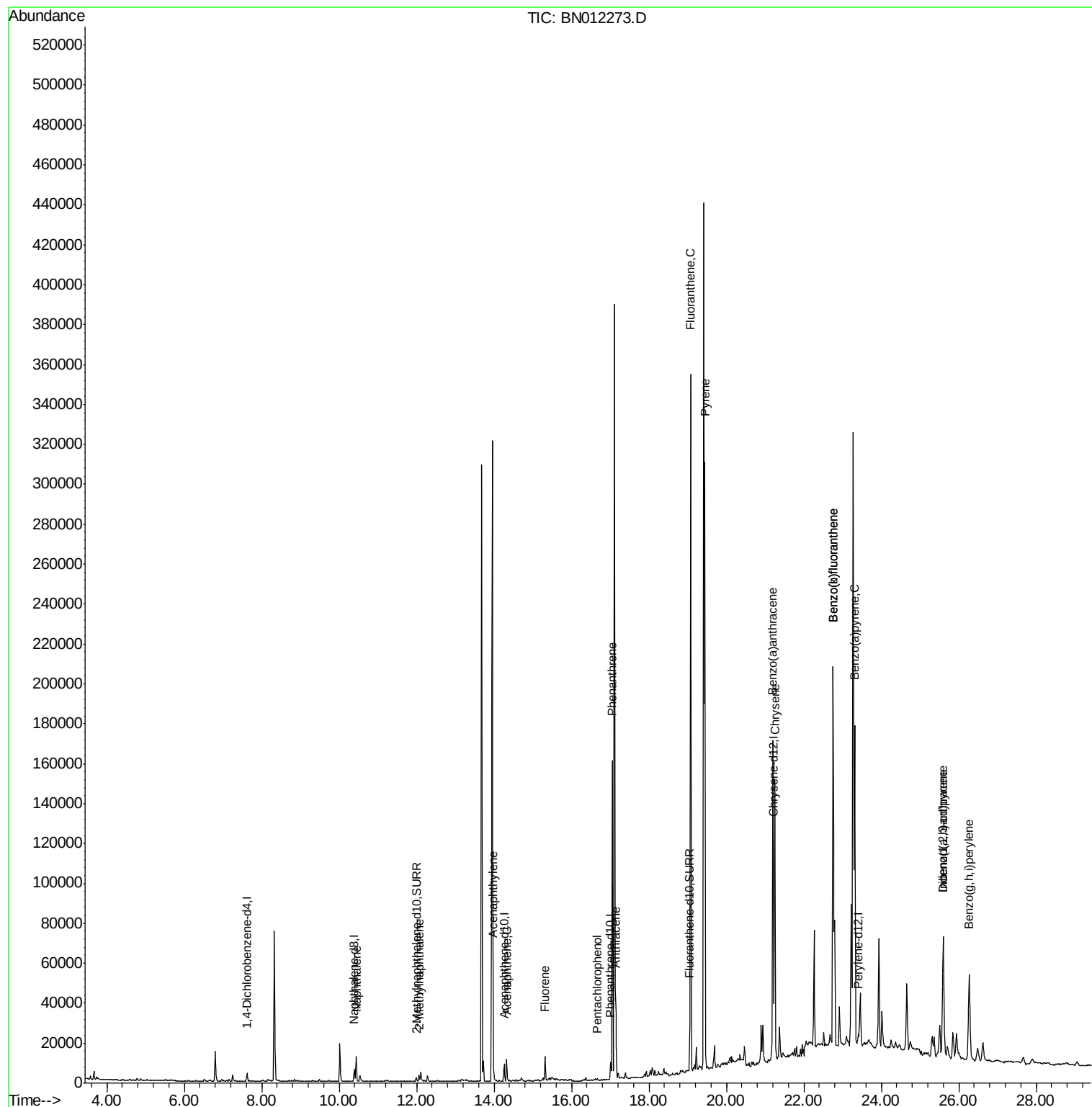
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.62  | 152  | 1909     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.39 | 136  | 8023     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.26 | 164  | 4770     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.01 | 188  | 9564     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.22 | 240  | 7564     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.40 | 264  | 7446     | 0.40   | ng/ul  | 0.01     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.98 | 152  | 2480     | 0.21   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.05 | 212  | 4826     | 0.18   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.44 | 128  | 15829    | 0.683  | ng/ul  | 97       |
| 5) 2-Methylnaphthalene      | 12.06 | 142  | 2435     | 0.166  | ng/ul  | 99       |
| 7) Acenaphthylene           | 13.98 | 152  | 9113     | 0.440  | ng/ul  | 99       |
| 8) Acenaphthene             | 14.32 | 153  | 6339     | 0.362  | ng/ul  | 98       |
| 9) Fluorene                 | 15.31 | 166  | 7319     | 0.376  | ng/ul  | 99       |
| 11) Pentachlorophenol       | 16.67 | 266  | 651      | 0.236  | ng/ul  | 98       |
| 12) Phenanthrene            | 17.05 | 178  | 162554   | 5.332  | ng/ul  | 98       |
| 13) Anthracene              | 17.14 | 178  | 32106    | 1.228  | ng/ul  | 99       |
| 15) Fluoranthene            | 19.07 | 202  | 288048   | 8.080  | ng/ul  | 100      |
| 17) Pyrene                  | 19.44 | 202  | 239618   | 7.026  | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.20 | 228  | 132436   | 4.727  | ng/ul  | 97       |
| 19) Chrysene                | 21.25 | 228  | 133164   | 3.901  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.76 | 252  | 262694   | 8.734  | ng/ul# | 57       |
| 22) Benzo(k)fluoranthene    | 22.76 | 252  | 262651   | 7.890  | ng/ul# | 57       |
| 23) Benzo(a)pyrene          | 23.31 | 252  | 135758   | 4.640  | ng/ul# | 57       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.60 | 276  | 91692    | 2.439  | ng/ul# | 100      |
| 25) Dibenzo(a,h)anthracene  | 25.60 | 278  | 24457    | 0.813  | ng/ul# | 74       |
| 26) Benzo(g,h,i)perylene    | 26.27 | 276  | 84545    | 2.454  | ng/ul  | 96       |

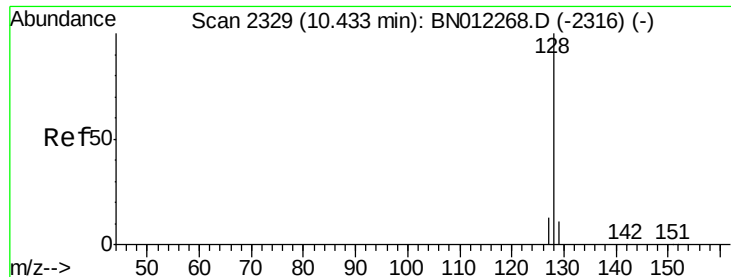
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101420\  
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Misc :  
ALS Vial : 85 Sample Multiplier: 1

Instrument :  
BNA\_N  
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Quant Time: Oct 16 23:49:40 2020  
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Response via : Initial Calibration





#3

Naphthalene

Concen: 0.683 ng/ul

RT: 10.44 min Scan# 2330

Delta R.T. 0.01 min

Lab File: BN012273.D

Acq: 16 Oct 2020 18:50

Instrument :

BNA\_N

ClientSampleId :

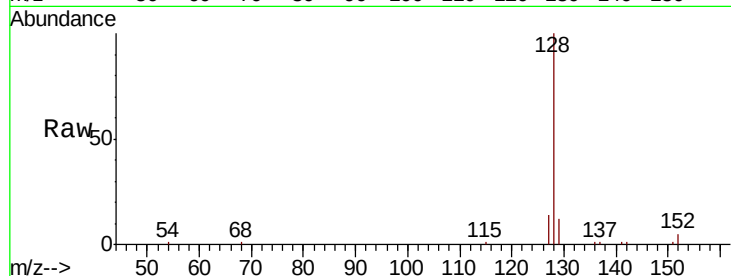
Tot Ion:128 Resp: 15829

Ion Ratio Lower Upper

128 100

129 11.7 10.3 15.5

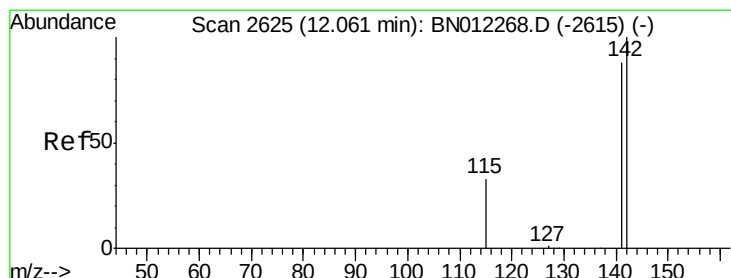
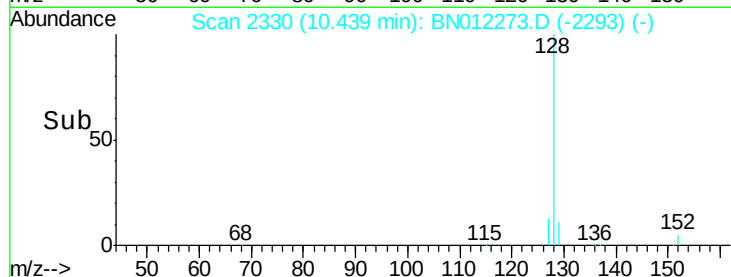
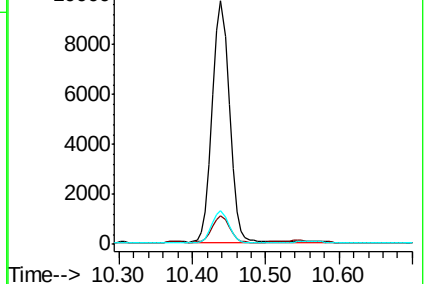
127 13.6 11.9 17.9



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: 0.166 ng/ul

RT: 12.06 min Scan# 2625

Delta R.T. -0.00 min

Lab File: BN012273.D

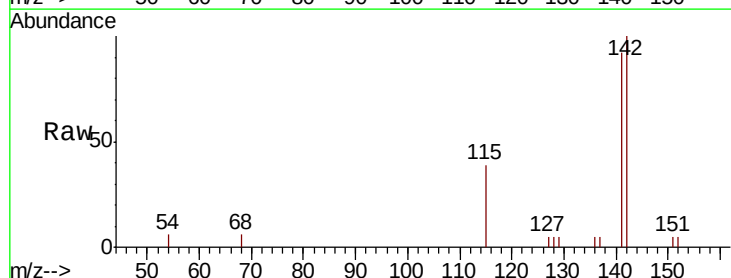
Acq: 16 Oct 2020 18:50

Tgt Ion:142 Resp: 2435

Ion Ratio Lower Upper

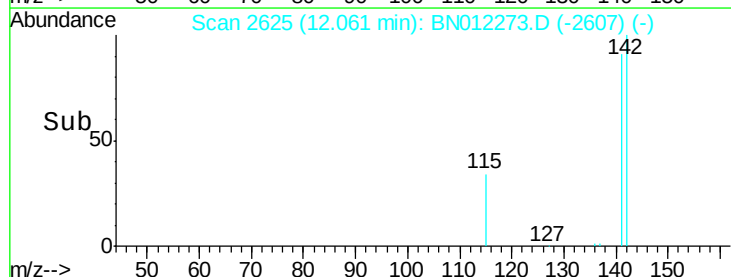
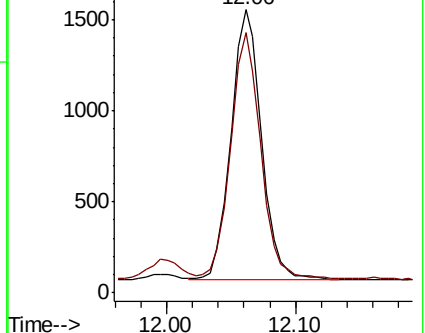
142 100

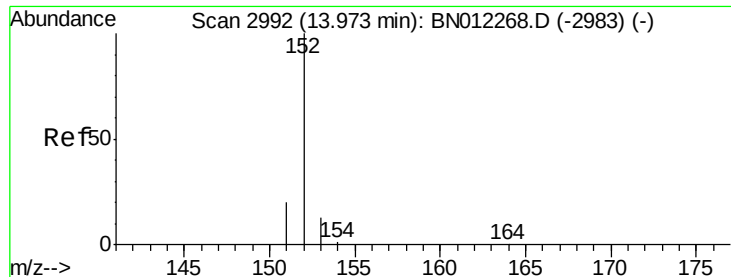
141 90.1 71.7 107.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.440 ng/ul

RT: 13.98 min Scan# 2993

Delta R.T. 0.00 min

Lab File: BN012273.D

Acq: 16 Oct 2020 18:50

Instrument :

BNA\_N

ClientSampleId :

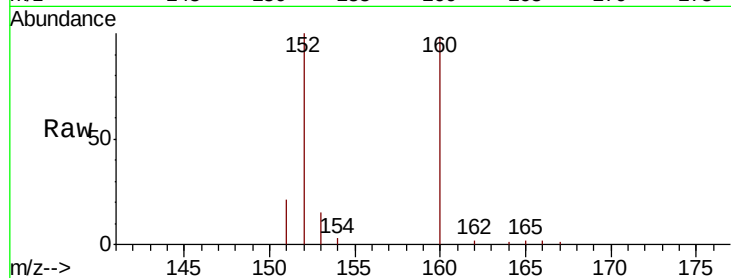
Tot Ion:152 Resp: 9113

Ion Ratio Lower Upper

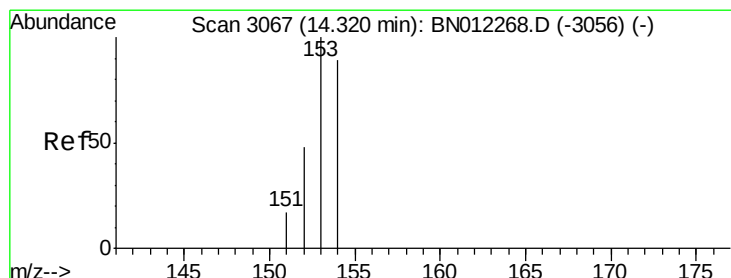
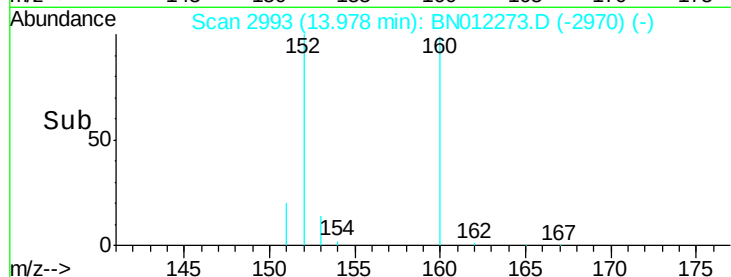
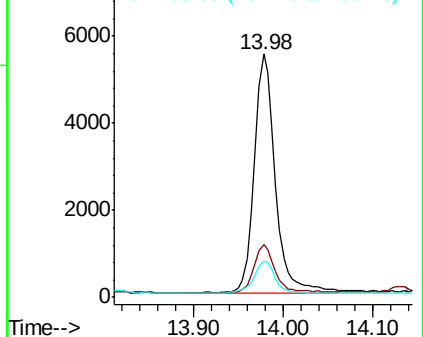
152 100

151 21.5 16.7 25.1

153 15.0 11.8 17.8



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



#8

Acenaphthene

Concen: 0.362 ng/ul

RT: 14.32 min Scan# 3068

Delta R.T. 0.00 min

Lab File: BN012273.D

Acq: 16 Oct 2020 18:50

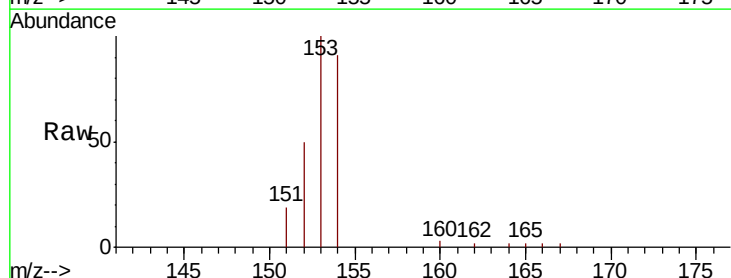
Tgt Ion:153 Resp: 6339

Ion Ratio Lower Upper

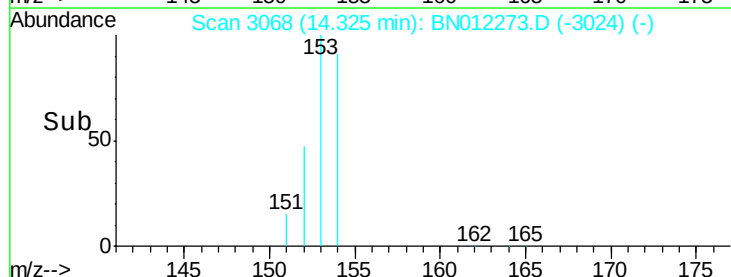
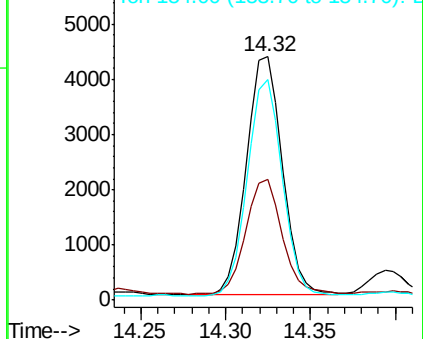
153 100

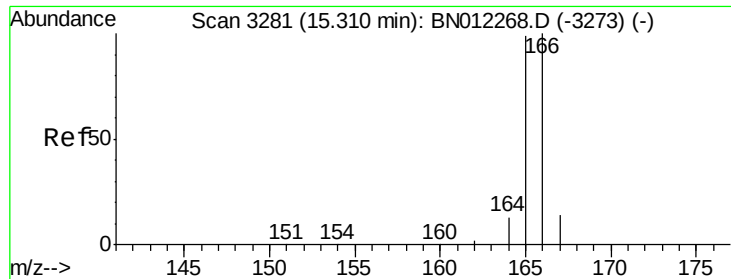
152 49.5 38.2 57.2

154 90.6 71.1 106.7



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

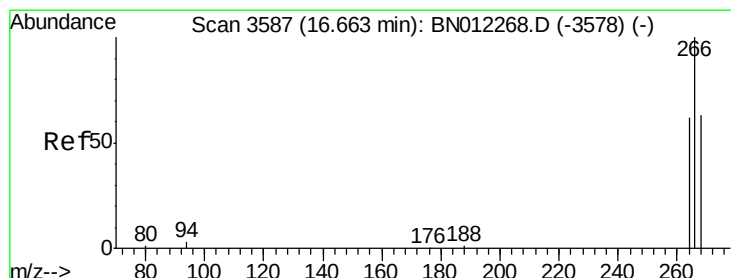
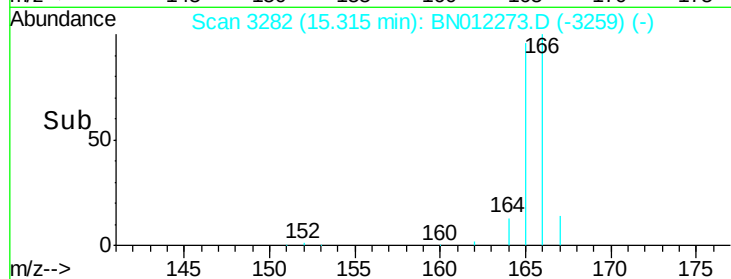
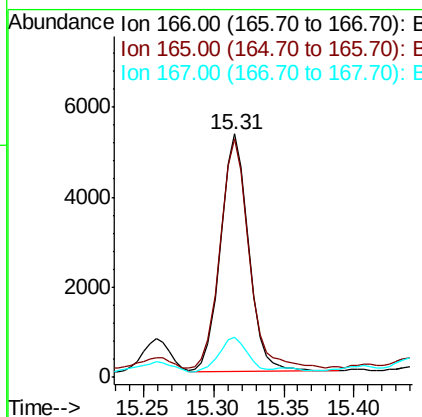
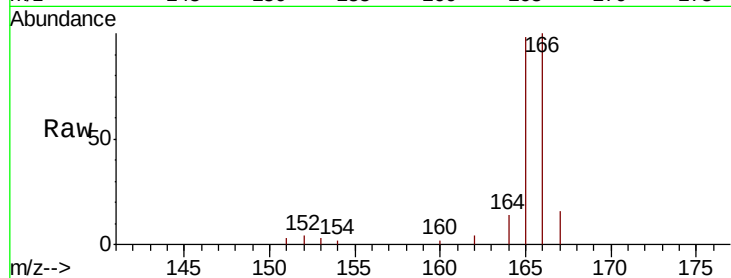




#9  
**Fluorene**  
 Concen: 0.376 ng/ul  
 RT: 15.31 min Scan# 3282  
 Delta R.T. 0.00 min  
 Lab File: BN012273.D  
 Acq: 16 Oct 2020 18:50

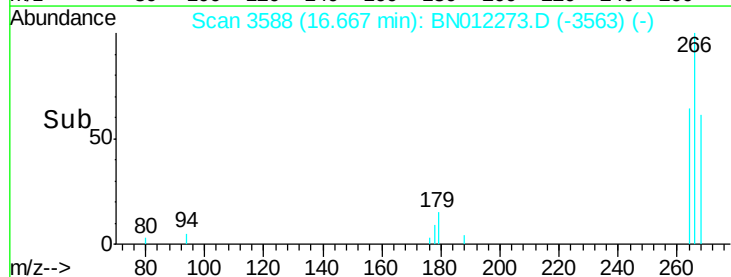
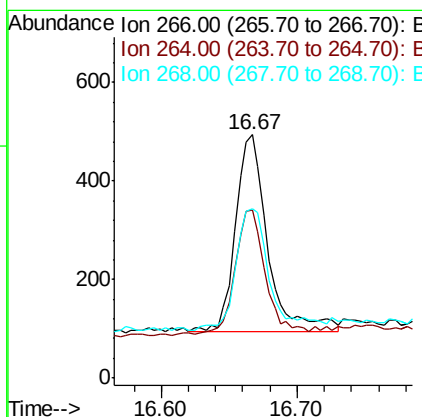
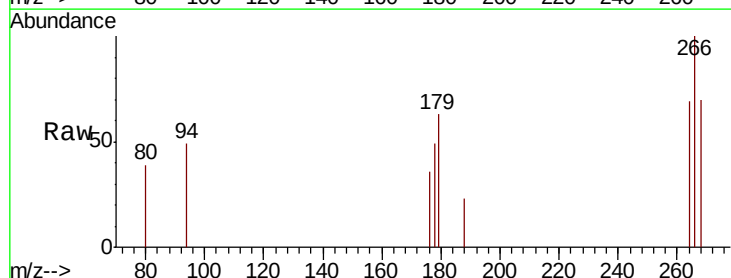
Instrument :  
 BNA\_N  
 ClientSampleId :

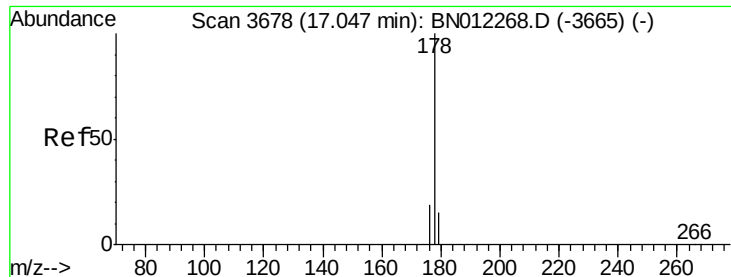
Tot Ion:166 Resp: 7319  
 Ion Ratio Lower Upper  
 166 100  
 165 97.8 78.6 118.0  
 167 16.4 11.9 17.9



#11  
**Pentachlorophenol**  
 Concen: 0.236 ng/ul  
 RT: 16.67 min Scan# 3588  
 Delta R.T. 0.00 min  
 Lab File: BN012273.D  
 Acq: 16 Oct 2020 18:50

Tgt Ion:266 Resp: 651  
 Ion Ratio Lower Upper  
 266 100  
 264 59.6 50.3 75.5  
 268 65.7 52.4 78.6





#12

Phenanthrene

Concen: 5.332 ng/ul

RT: 17.05 min Scan# 3679

Delta R.T. 0.00 min

Lab File: BN012273.D

Acq: 16 Oct 2020 18:50

Instrument :

BNA\_N

ClientSampleId :

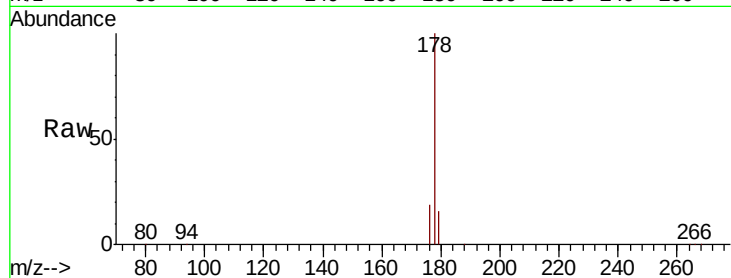
Tot Ion:178 Resp: 162554

Ion Ratio Lower Upper

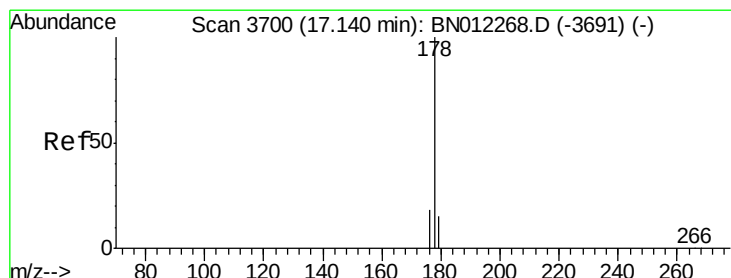
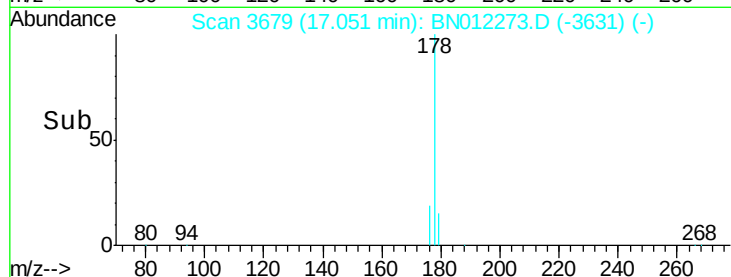
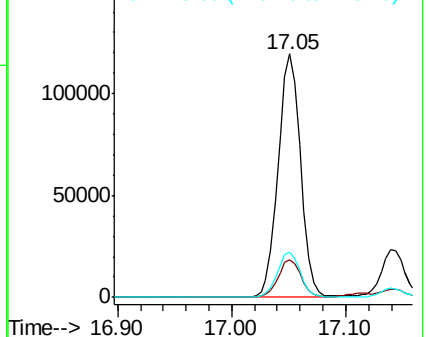
178 100

179 15.6 13.4 20.2

176 18.8 15.7 23.5



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: 1.228 ng/ul

RT: 17.14 min Scan# 3700

Delta R.T. -0.00 min

Lab File: BN012273.D

Acq: 16 Oct 2020 18:50

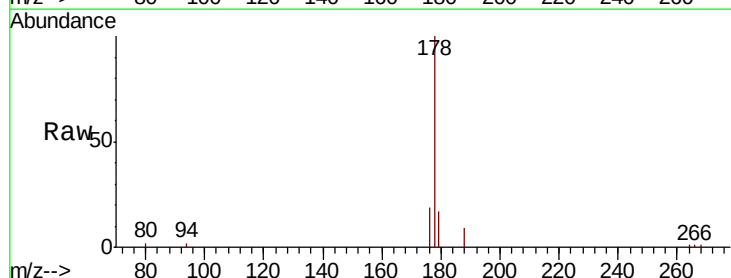
Tgt Ion:178 Resp: 32106

Ion Ratio Lower Upper

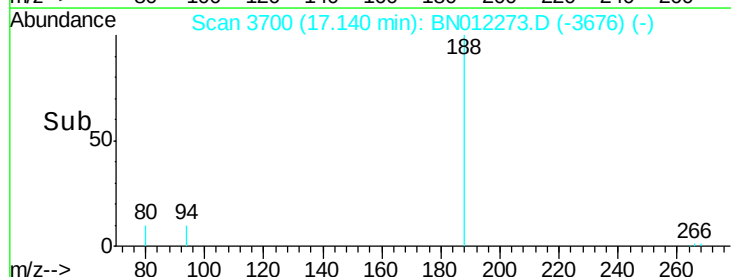
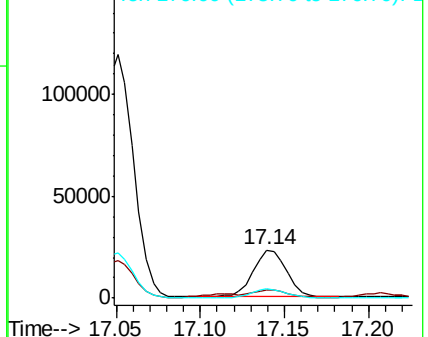
178 100

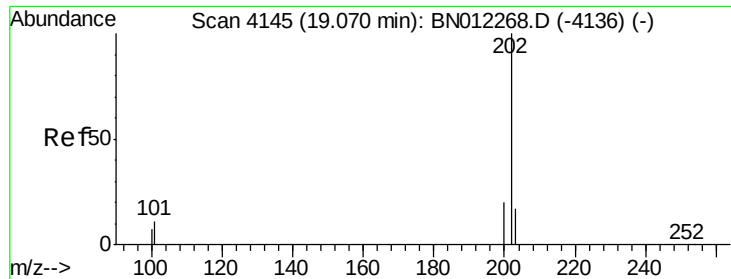
179 16.7 13.9 20.9

176 18.8 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

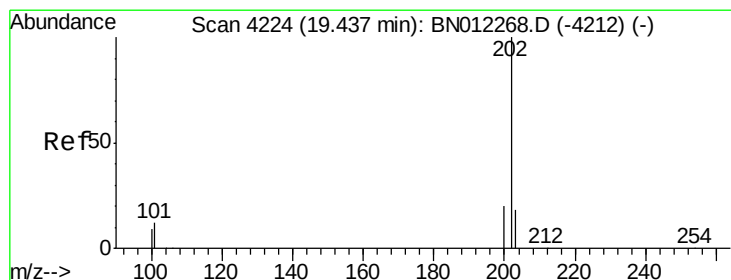
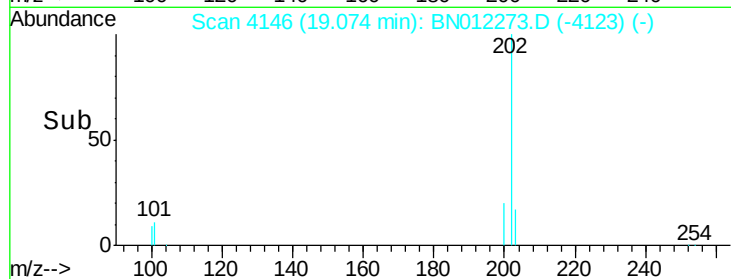
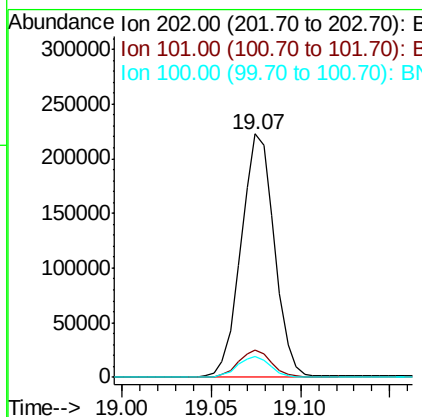
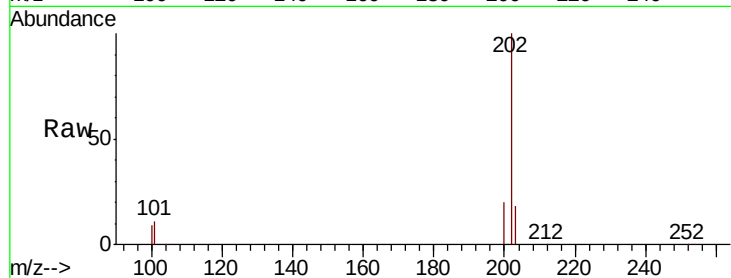




#15  
**Fluoranthene**  
 Concen: 8.080 ng/ul  
 RT: 19.07 min Scan# 4146  
 Delta R.T. 0.00 min  
 Lab File: BN012273.D  
 Acq: 16 Oct 2020 18:50

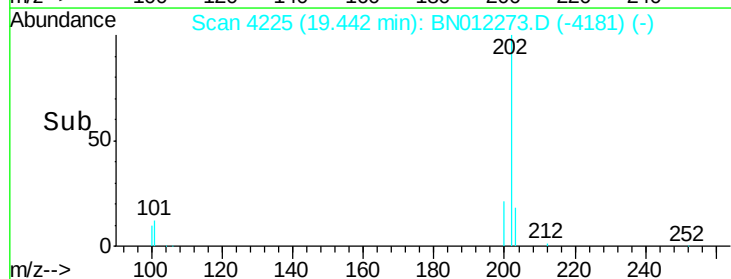
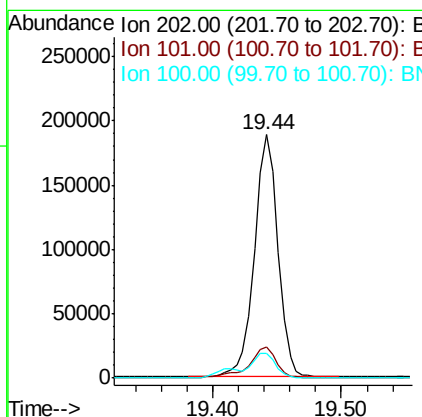
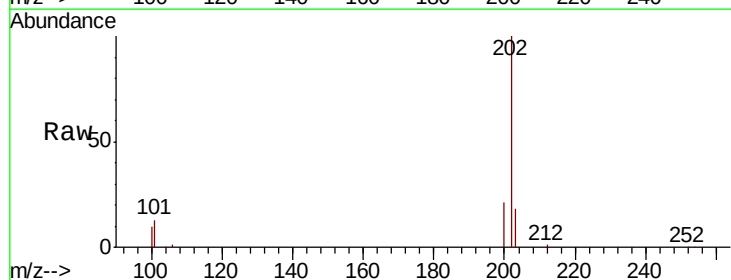
Instrument :  
 BNA\_N  
 ClientSampleId :

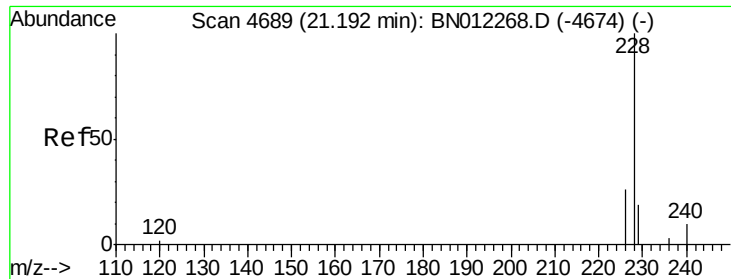
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.3  | 0.0   | 31.0  |
| 100     | 8.6   | 0.0   | 28.7  |



#17  
**Pyrene**  
 Concen: 7.026 ng/ul  
 RT: 19.44 min Scan# 4225  
 Delta R.T. 0.00 min  
 Lab File: BN012273.D  
 Acq: 16 Oct 2020 18:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.6  | 9.9   | 14.9  |
| 100     | 10.3  | 8.0   | 12.0  |





#18

Benzo(a)anthracene

Concen: 4.727 ng/ul

RT: 21.20 min Scan# 4691

Delta R.T. 0.01 min

Lab File: BN012273.D

Acq: 16 Oct 2020 18:50

Instrument :

BNA\_N

ClientSampled :

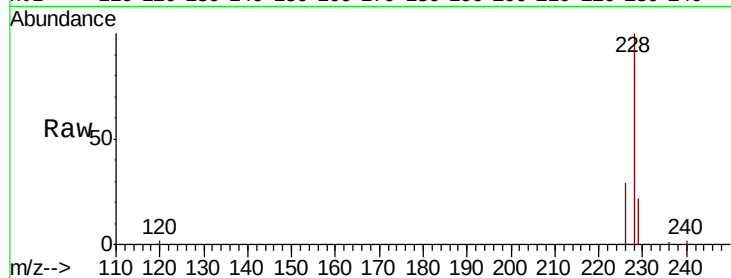
Tot Ion:228 Resp: 132436

Ion Ratio Lower Upper

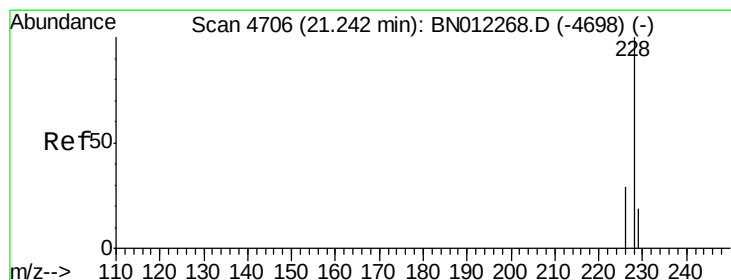
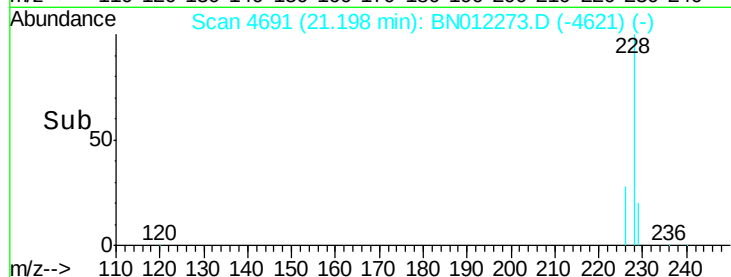
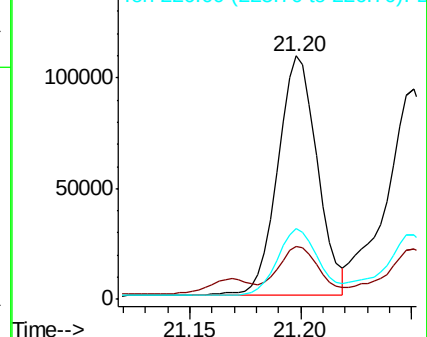
228 100

229 21.9 15.8 23.8

226 28.9 22.6 33.8



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: 3.901 ng/ul

RT: 21.25 min Scan# 4709

Delta R.T. 0.01 min

Lab File: BN012273.D

Acq: 16 Oct 2020 18:50

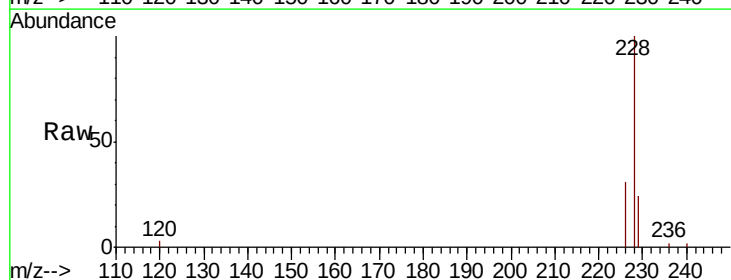
Tgt Ion:228 Resp: 133164

Ion Ratio Lower Upper

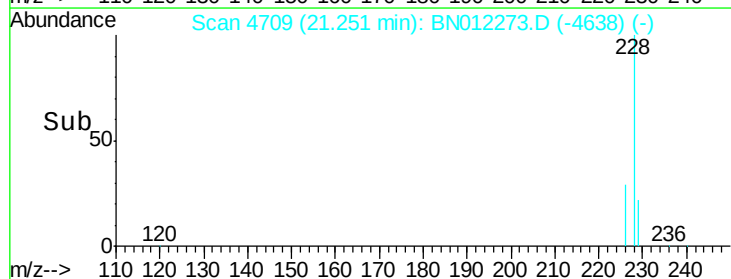
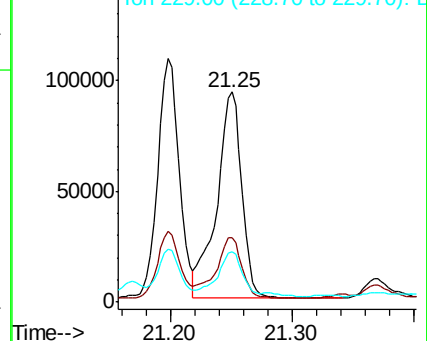
228 100

226 30.7 24.6 37.0

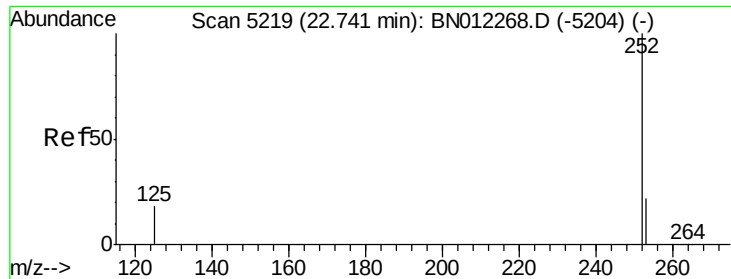
229 23.9 17.0 25.6



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: 8.734 ng/ul

RT: 22.76 min Scan# 5224

Delta R.T. 0.01 min

Lab File: BN012273.D

Acq: 16 Oct 2020 18:50

Instrument :

BNA\_N

ClientSampleId :

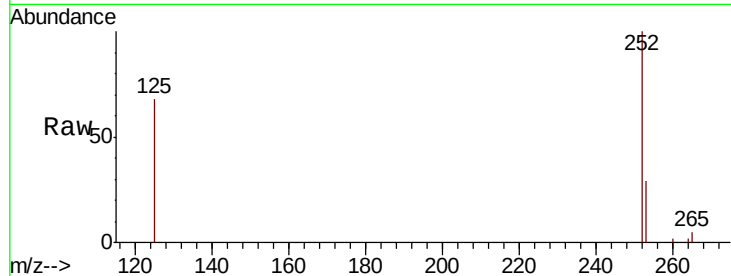
Tot Ion:252 Resp: 262694

Ion Ratio Lower Upper

252 100

253 29.1 0.0 61.6

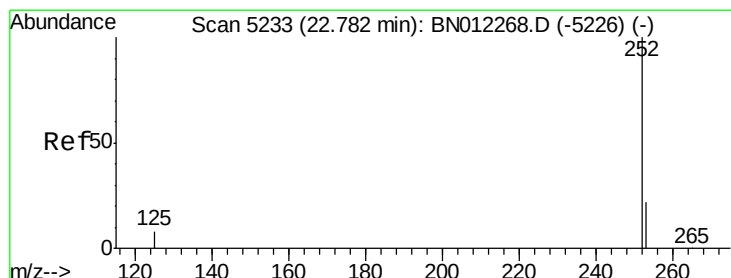
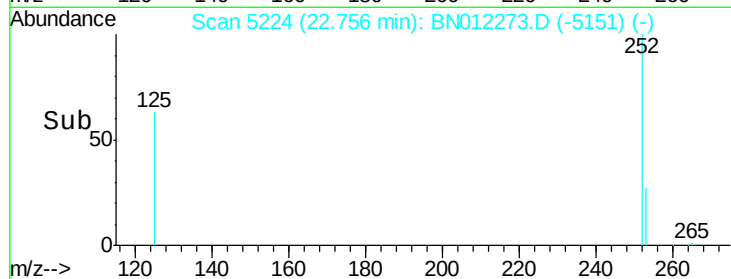
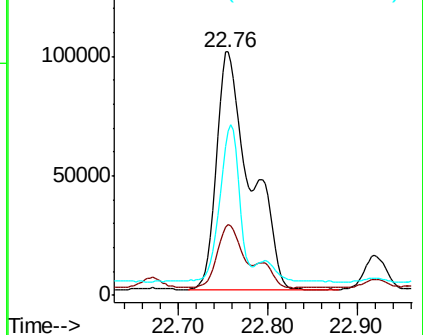
125 67.6 0.0 36.8#



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: 7.890 ng/ul

RT: 22.76 min Scan# 5224

Delta R.T. -0.03 min

Lab File: BN012273.D

Acq: 16 Oct 2020 18:50

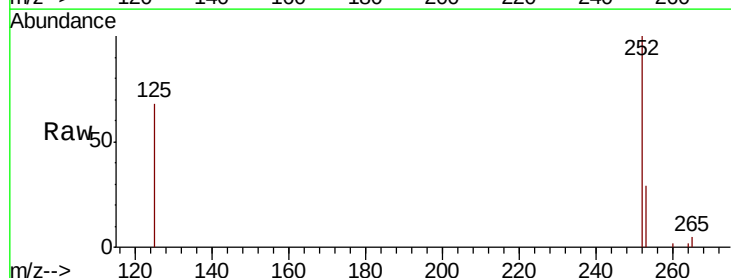
Tgt Ion:252 Resp: 262651

Ion Ratio Lower Upper

252 100

253 29.1 24.4 36.6

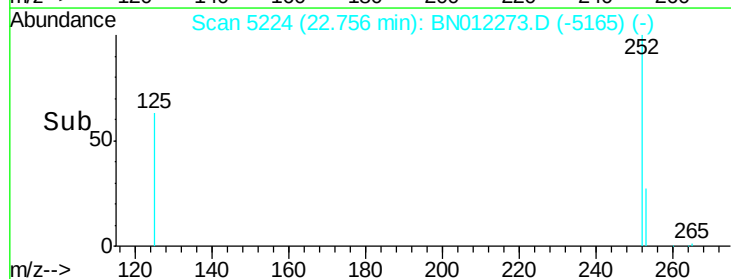
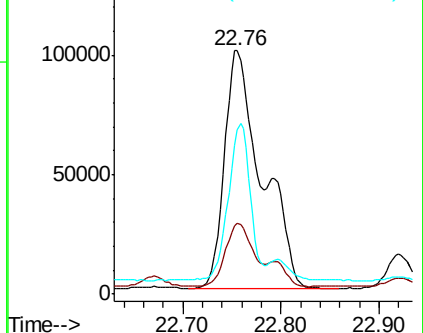
125 67.6 12.9 19.3#

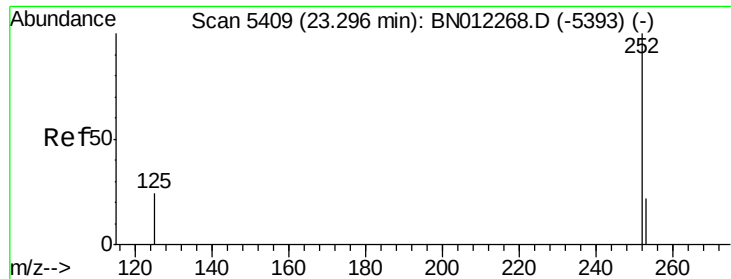


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 4.640 ng/ul

RT: 23.31 min Scan# 5414

Delta R.T. 0.01 min

Lab File: BN012273.D

Acq: 16 Oct 2020 18:50

Instrument :

BNA\_N

ClientSampleId :

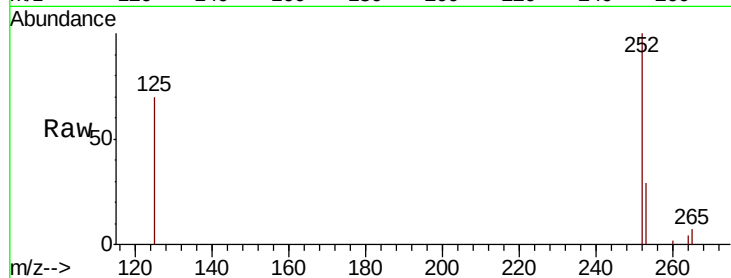
Tot Ion:252 Resp: 135758

Ion Ratio Lower Upper

252 100

253 29.4 27.0 40.4

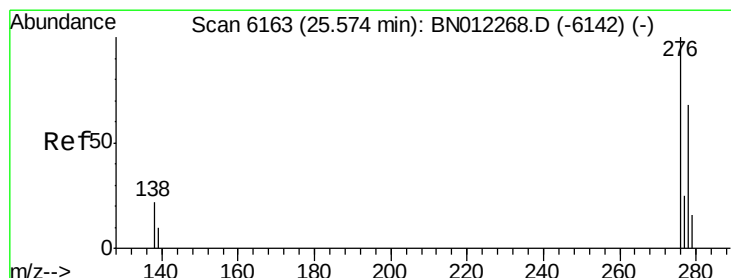
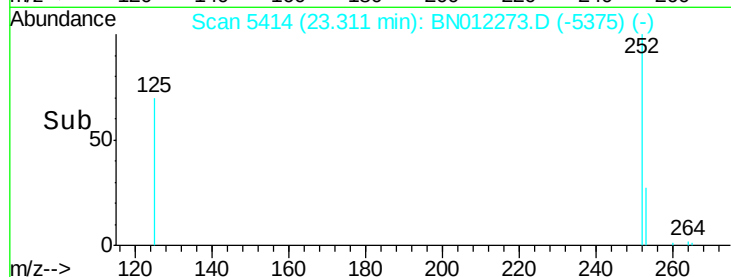
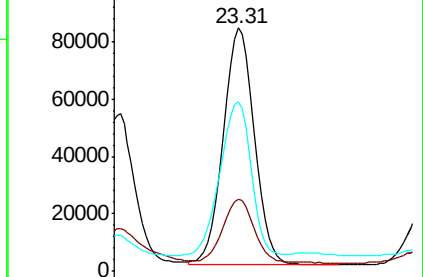
125 69.6 18.8 28.2#



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: 2.439 ng/ul

RT: 25.60 min Scan# 6170

Delta R.T. 0.02 min

Lab File: BN012273.D

Acq: 16 Oct 2020 18:50

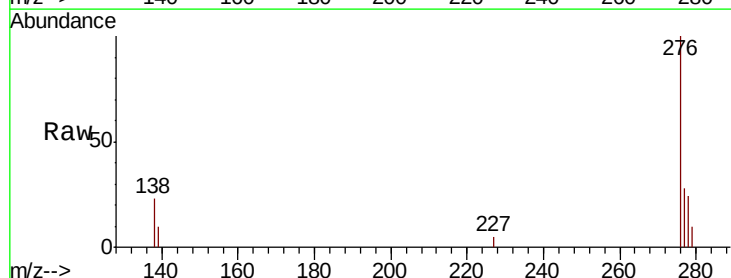
Tgt Ion:276 Resp: 91692

Ion Ratio Lower Upper

276 100

138 20.5 0.0 0.0#

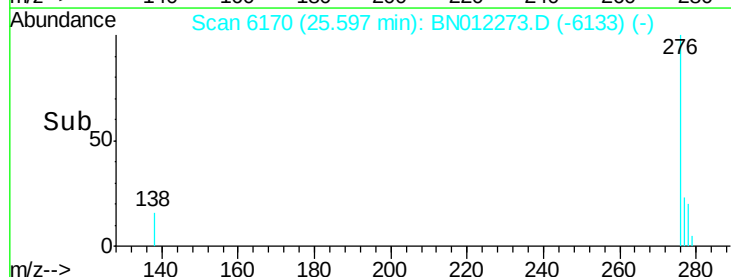
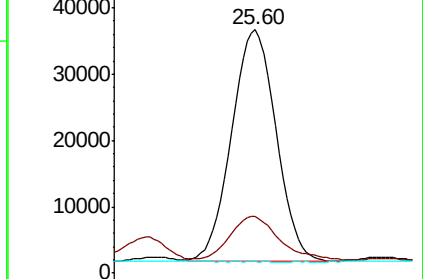
227 0.0 0.0 0.0#

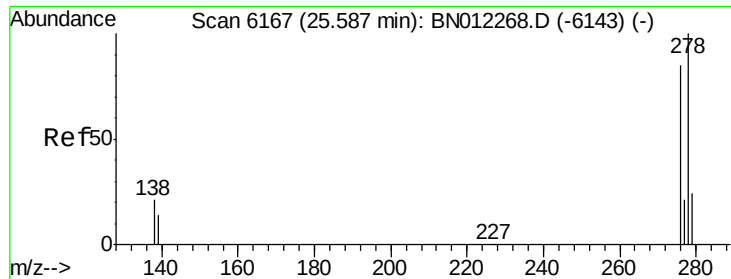


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E

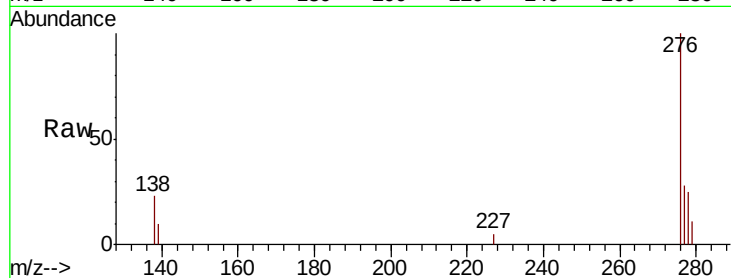




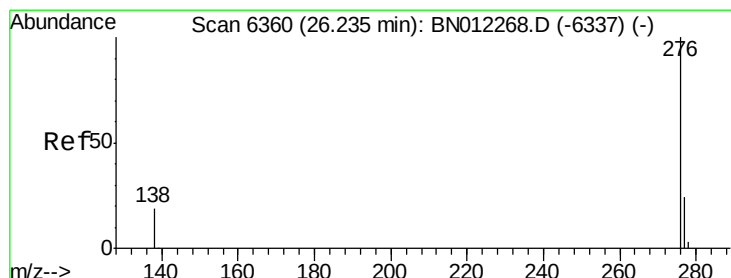
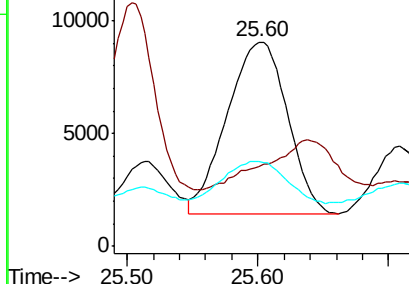
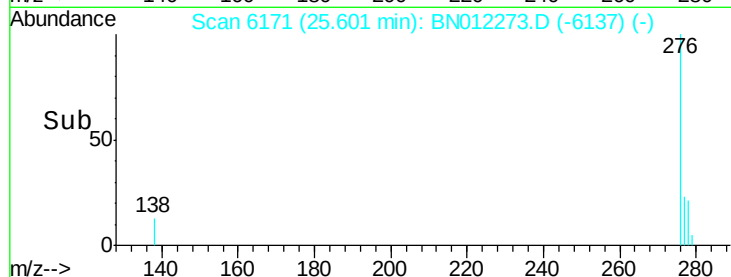
#25  
Dibenzo(a,h)anthracene  
Concen: 0.813 ng/ul  
RT: 25.60 min Scan# 6171  
Delta R.T. 0.01 min  
Lab File: BN012273.D  
Acq: 16 Oct 2020 18:50

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:278 Resp: 24457  
Ion Ratio Lower Upper  
278 100  
139 39.0 15.7 23.5#  
279 41.3 26.0 39.0#

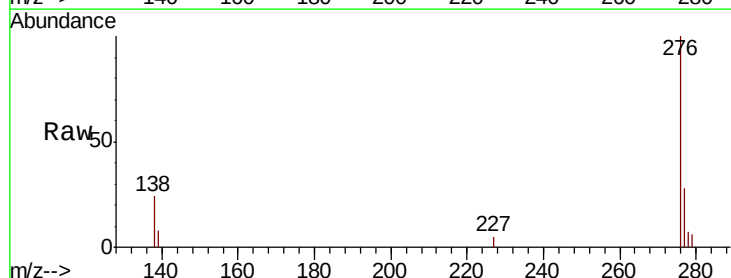


Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#26  
Benzo(g,h,i)perylene  
Concen: 2.454 ng/ul  
RT: 26.27 min Scan# 6370  
Delta R.T. 0.03 min  
Lab File: BN012273.D  
Acq: 16 Oct 2020 18:50

Tgt Ion:276 Resp: 84545  
Ion Ratio Lower Upper  
276 100  
138 23.9 17.1 25.7  
277 28.1 21.1 31.7



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

