

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN112019\  
 Data File : BN008674.D  
 Acq On : 20 Nov 2019 23:20  
 Operator : JU  
 Sample : K5851-13  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Nov 21 00:43:45 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN111519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 20 04:45:41 2019  
 Response via : Initial Calibration

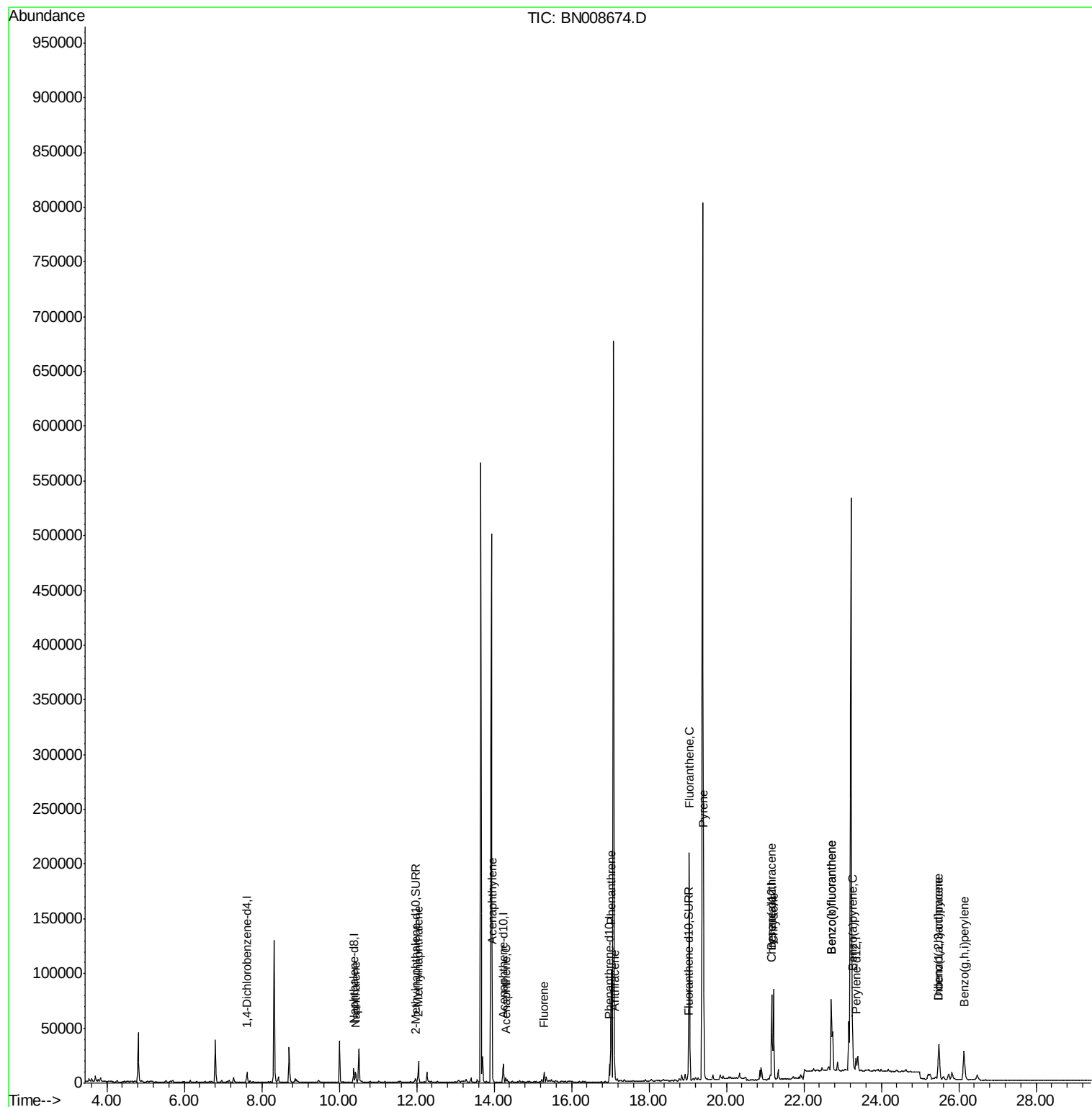
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.62  | 152  | 4183     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.38 | 136  | 15716    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.24 | 164  | 8791     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.98 | 188  | 17871    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.18 | 240  | 14115    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.34 | 264  | 14682    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.97 | 152  | 4225     | 0.16   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.01 | 212  | 10221    | 0.19   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.42 | 128  | 11238    | 0.237  | ng/ul  | 100      |
| 5) 2-Methylnaphthalene      | 12.04 | 142  | 13034    | 0.394  | ng/ul  | 100      |
| 7) Acenaphthylene           | 13.95 | 152  | 3609     | 0.074  | ng/ul# | 94       |
| 8) Acenaphthene             | 14.30 | 153  | 2641     | 0.073  | ng/ul  | 98       |
| 9) Fluorene                 | 15.29 | 166  | 5101     | 0.120  | ng/ul# | 94       |
| 12) Phenanthrene            | 17.02 | 178  | 105488   | 1.750  | ng/ul  | 98       |
| 13) Anthracene              | 17.11 | 178  | 12976    | 0.228  | ng/ul  | 98       |
| 15) Fluoranthene            | 19.05 | 202  | 173231   | 2.340  | ng/ul  | 96       |
| 17) Pyrene                  | 19.41 | 202  | 151527   | 2.676  | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.16 | 228  | 64689    | 1.140  | ng/ul  | 97       |
| 19) Chrysene                | 21.21 | 228  | 80635    | 1.446  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.71 | 252  | 136318   | 2.252  | ng/ul  | 95       |
| 22) Benzo(k)fluoranthene    | 22.71 | 252  | 136435   | 2.272  | ng/ul  | 97       |
| 23) Benzo(a)pyrene          | 23.25 | 252  | 63028    | 1.109  | ng/ul# | 94       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.48 | 276  | 48282    | 0.726  | ng/ul# | 97       |
| 25) Dibenzo(a,h)anthracene  | 25.49 | 278  | 11958    | 0.223  | ng/ul# | 70       |
| 26) Benzo(a,h,i)perylene    | 26.13 | 276  | 49848    | 0.897  | ng/ul  | 97       |

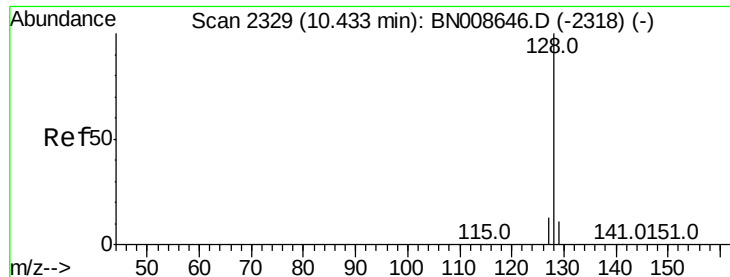
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 20 04:45:41 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.237 ng/ul

RT: 10.42 min Scan# 2327

Delta R.T. -0.01 min

Lab File: BN008674.D

Acq: 20 Nov 2019 23:20

Instrument :

BNA\_N

ClientSampleId :

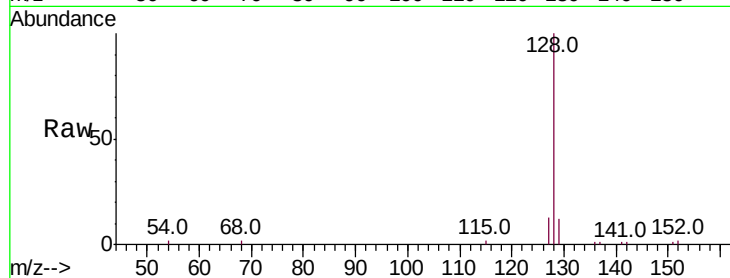
Tot Ion:128 Resp: 11238

Ion Ratio Lower Upper

128 100

129 12.0 9.7 14.5

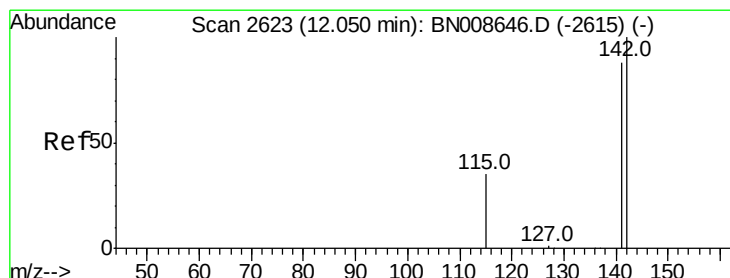
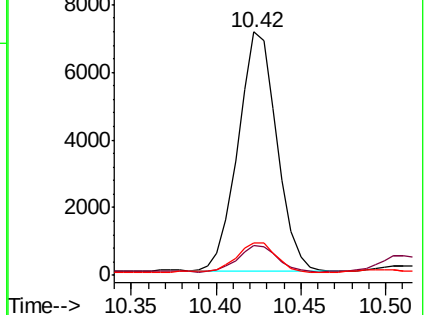
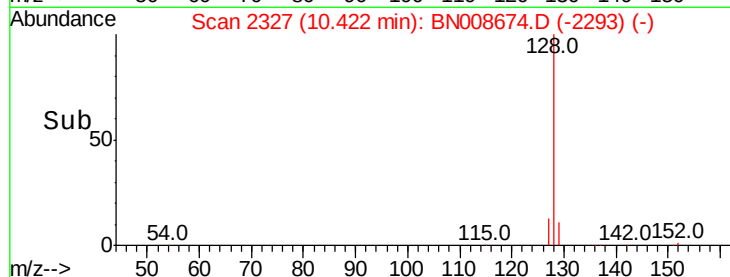
127 13.3 10.8 16.2



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: 0.394 ng/ul

RT: 12.04 min Scan# 2622

Delta R.T. -0.01 min

Lab File: BN008674.D

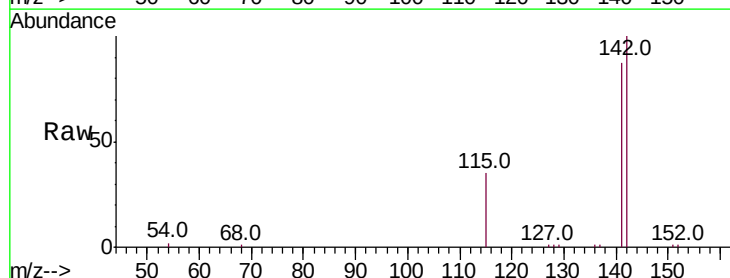
Acq: 20 Nov 2019 23:20

Tgt Ion:142 Resp: 13034

Ion Ratio Lower Upper

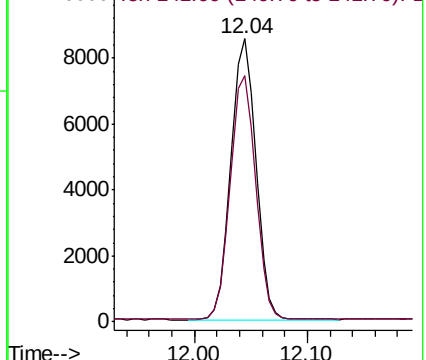
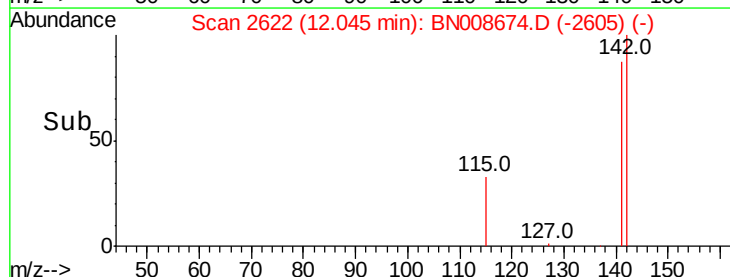
142 100

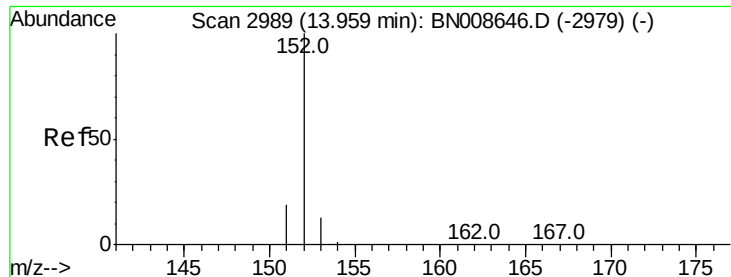
141 87.7 70.5 105.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.074 ng/ul

RT: 13.95 min Scan# 2988

Delta R.T. -0.00 min

Lab File: BN008674.D

Acq: 20 Nov 2019 23:20

Instrument :

BNA\_N

ClientSampleId :

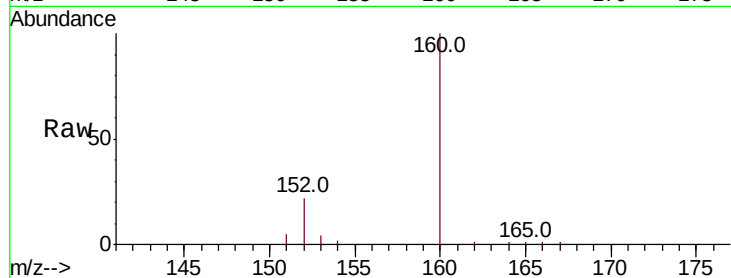
Tot Ion:152 Resp: 3609

Ion Ratio Lower Upper

152 100

151 22.0 16.6 24.8

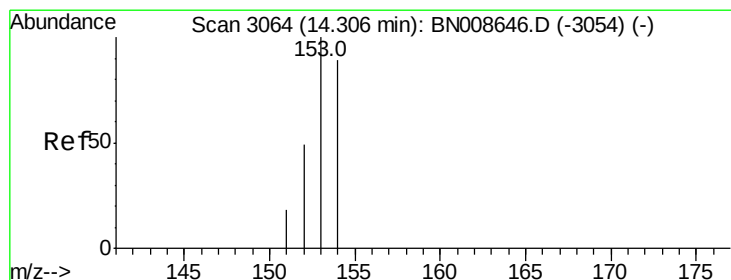
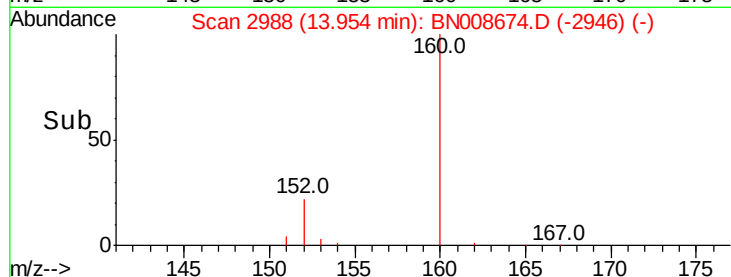
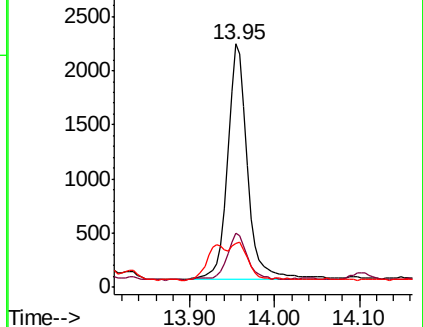
153 18.1 11.1 16.7#



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: 0.073 ng/ul

RT: 14.30 min Scan# 3063

Delta R.T. -0.00 min

Lab File: BN008674.D

Acq: 20 Nov 2019 23:20

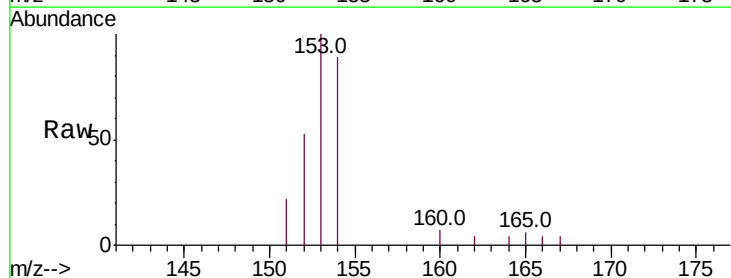
Tgt Ion:153 Resp: 2641

Ion Ratio Lower Upper

153 100

152 52.7 39.6 59.4

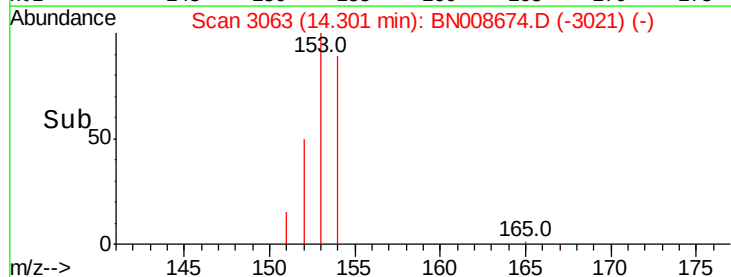
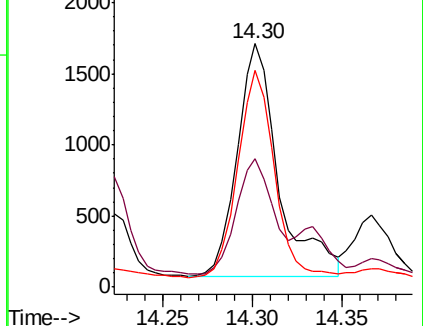
154 88.8 70.6 106.0

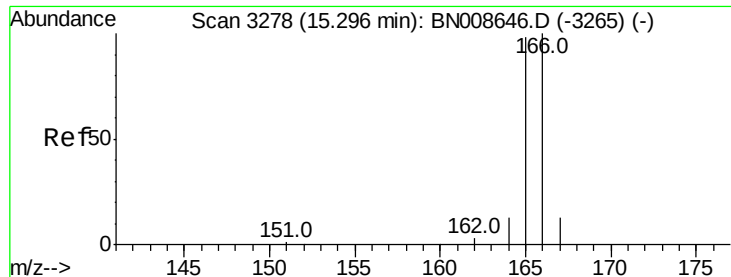


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.120 ng/ul

RT: 15.29 min Scan# 3277

Delta R.T. -0.00 min

Lab File: BN008674.D

Acq: 20 Nov 2019 23:20

Instrument :

BNA\_N

ClientSampleId :

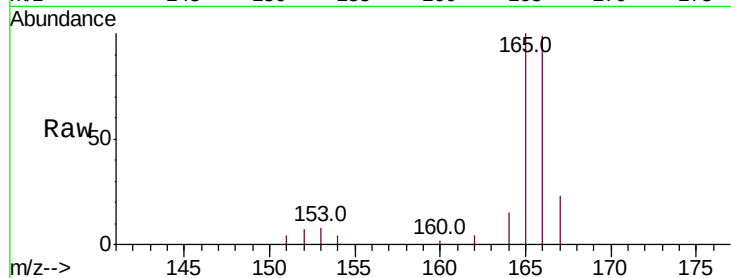
Tot Ion:166 Resp: 5101

Ion Ratio Lower Upper

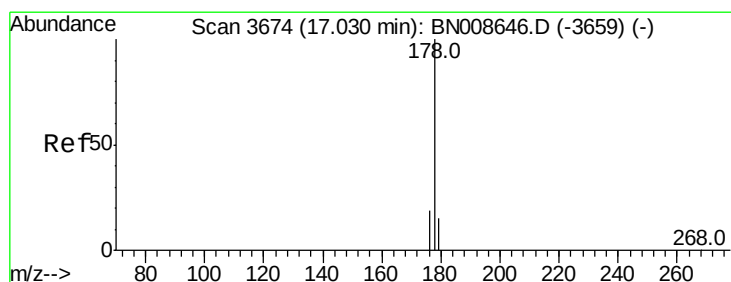
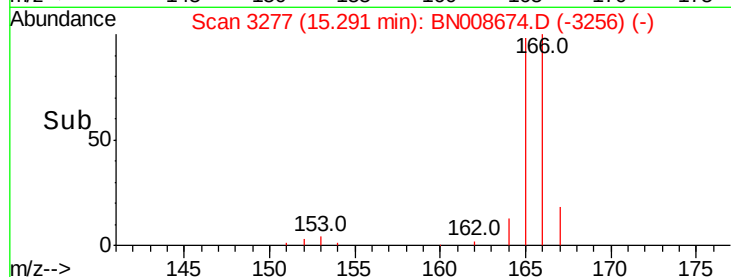
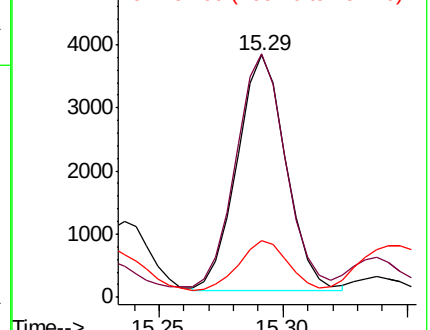
166 100

165 100.5 77.4 116.0

167 23.3 11.4 17.0#



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: 1.750 ng/ul

RT: 17.02 min Scan# 3672

Delta R.T. -0.01 min

Lab File: BN008674.D

Acq: 20 Nov 2019 23:20

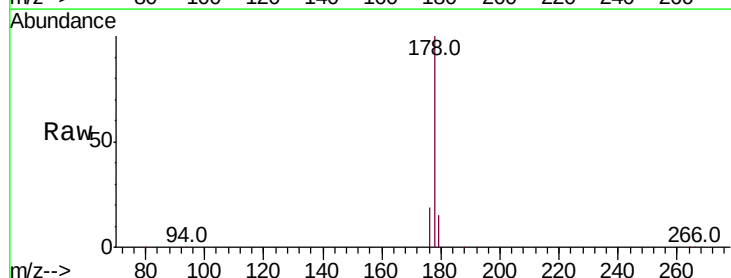
Tgt Ion:178 Resp: 105488

Ion Ratio Lower Upper

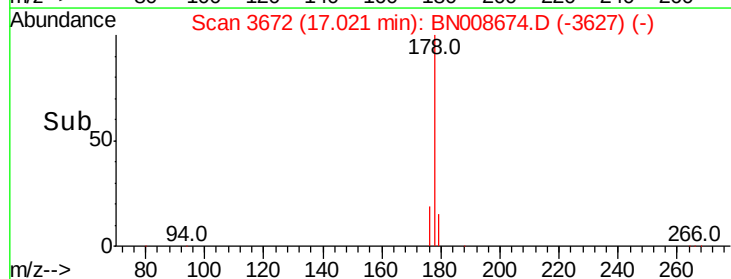
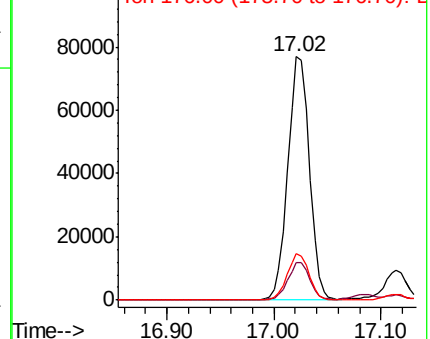
178 100

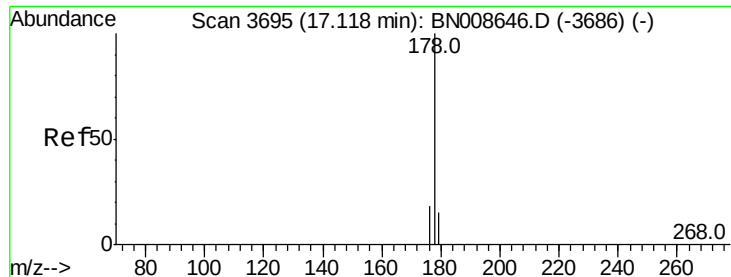
179 15.4 12.8 19.2

176 18.9 16.0 24.0



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





#13

Anthracene

Concen: 0.228 ng/ul

RT: 17.11 min Scan# 3694

Delta R.T. -0.00 min

Lab File: BN008674.D

Acq: 20 Nov 2019 23:20

Instrument :

BNA\_N

ClientSampleId :

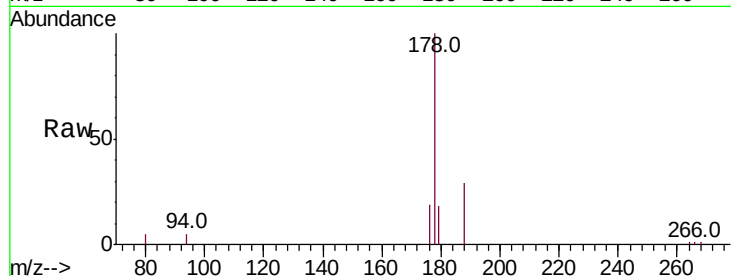
Tot Ion:178 Resp: 12976

Ion Ratio Lower Upper

178 100

179 17.6 13.0 19.4

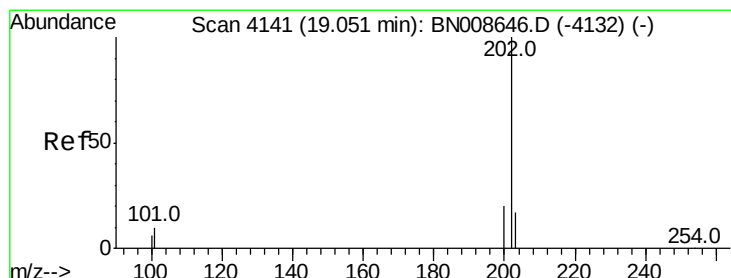
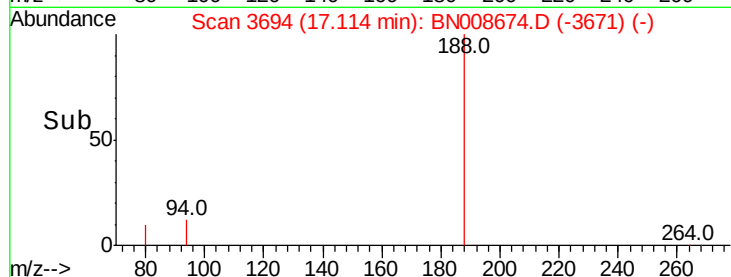
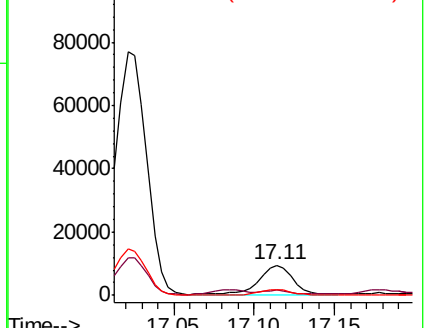
176 19.0 15.3 22.9



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: 2.340 ng/ul

RT: 19.05 min Scan# 4140

Delta R.T. -0.00 min

Lab File: BN008674.D

Acq: 20 Nov 2019 23:20

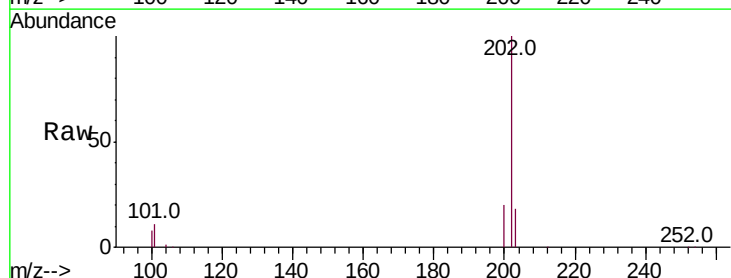
Tgt Ion:202 Resp: 173231

Ion Ratio Lower Upper

202 100

101 11.1 0.0 29.6

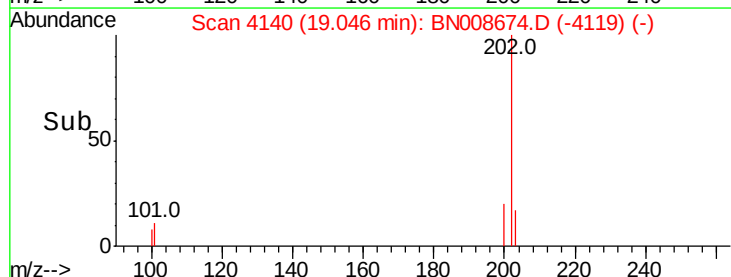
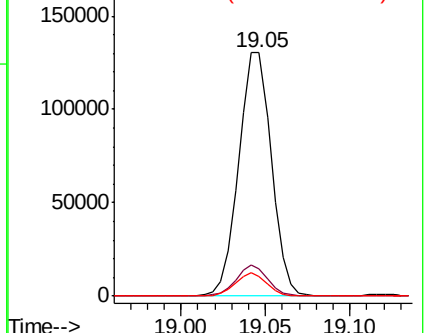
100 8.1 0.0 27.0

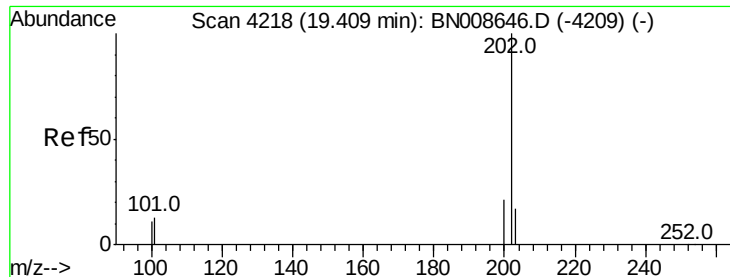


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

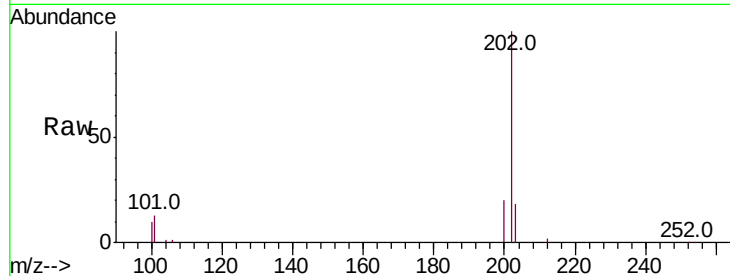




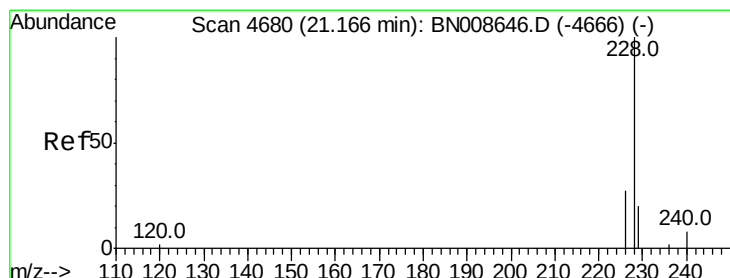
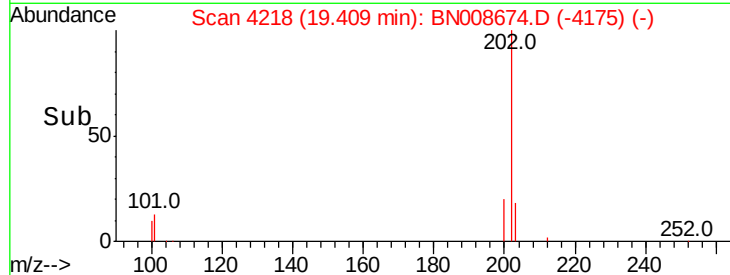
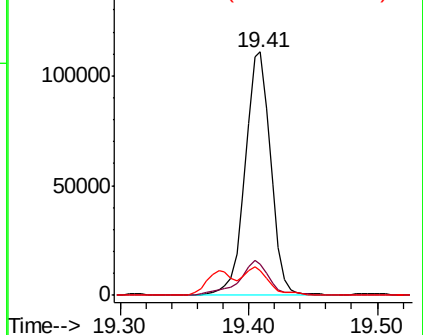
#17  
Pvrene  
Concen: 2.676 ng/ul  
RT: 19.41 min Scan# 4218  
Delta R.T. 0.00 min  
Lab File: BN008674.D  
Acq: 20 Nov 2019 23:20

Instrument :  
BNA\_N  
ClientSampled :

Tot Ion:202 Resp: 151527  
Ion Ratio Lower Upper  
202 100  
101 13.1 10.2 15.2  
100 10.4 8.2 12.2

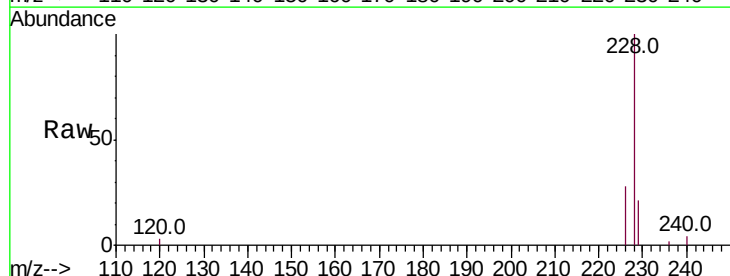


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

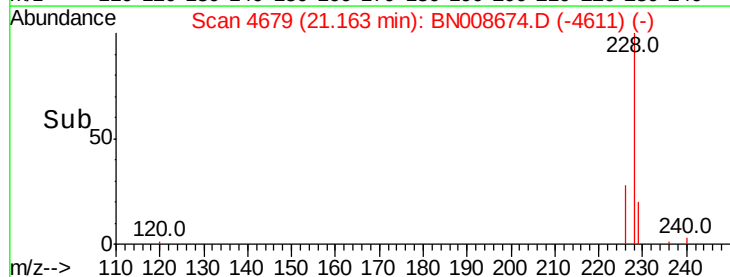
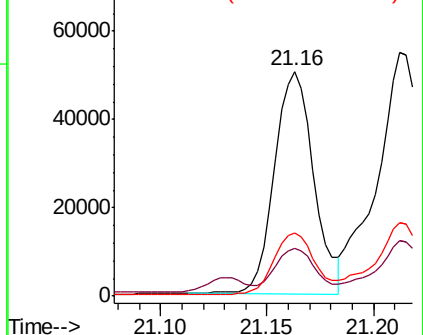


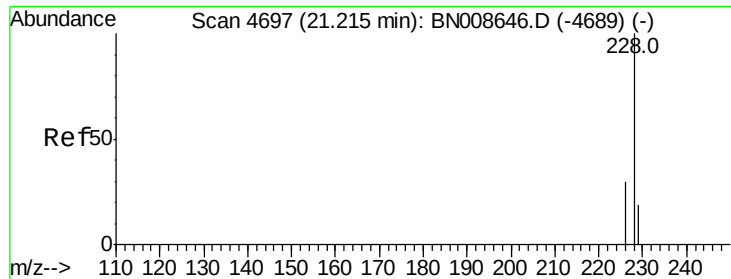
#18  
Benzo(a)anthracene  
Concen: 1.140 ng/ul  
RT: 21.16 min Scan# 4679  
Delta R.T. -0.00 min  
Lab File: BN008674.D  
Acq: 20 Nov 2019 23:20

Tgt Ion:228 Resp: 64689  
Ion Ratio Lower Upper  
228 100  
229 21.2 15.8 23.6  
226 28.3 21.6 32.4



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: 1.446 ng/ul

RT: 21.21 min Scan# 4696

Delta R.T. -0.00 min

Lab File: BN008674.D

Acq: 20 Nov 2019 23:20

Instrument :

BNA\_N

ClientSampleId :

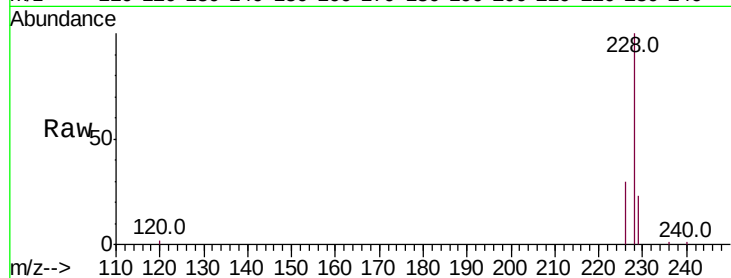
Tot Ion:228 Resp: 80635

Ion Ratio Lower Upper

228 100

226 30.3 24.5 36.7

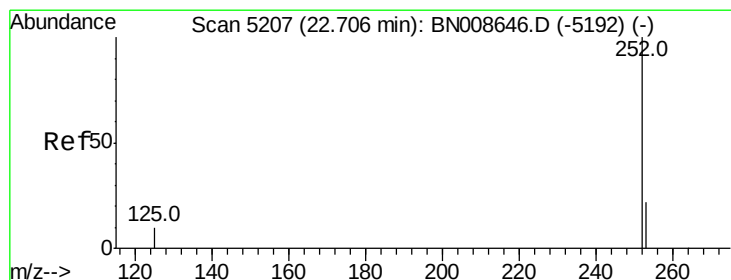
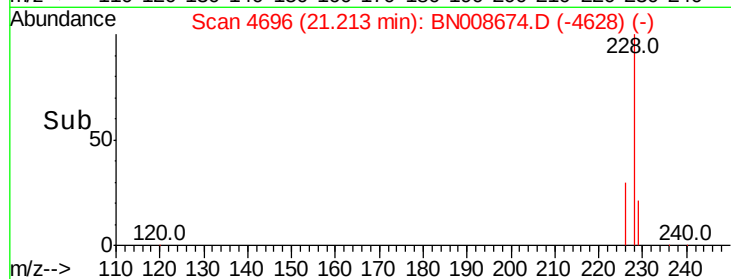
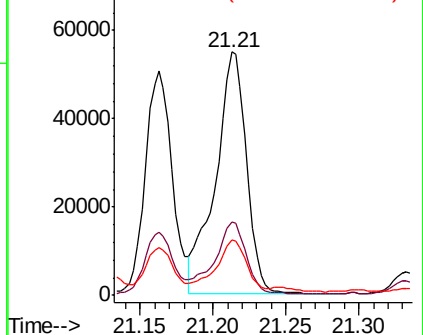
229 22.5 15.5 23.3



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: 2.252 ng/ul

RT: 22.71 min Scan# 5207

Delta R.T. 0.00 min

Lab File: BN008674.D

Acq: 20 Nov 2019 23:20

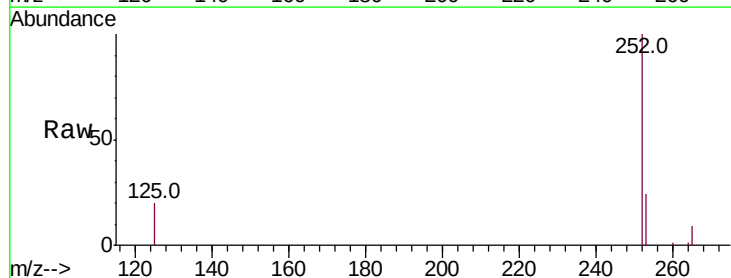
Tgt Ion:252 Resp: 136318

Ion Ratio Lower Upper

252 100

253 24.2 0.0 50.2

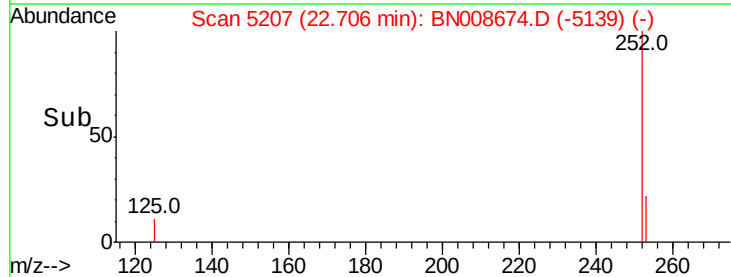
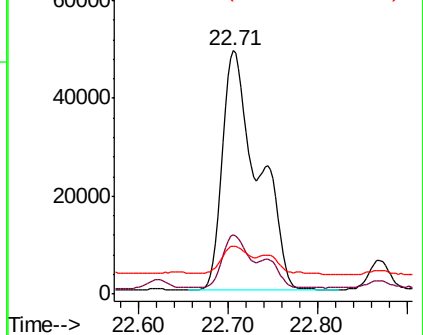
125 19.7 0.0 30.0



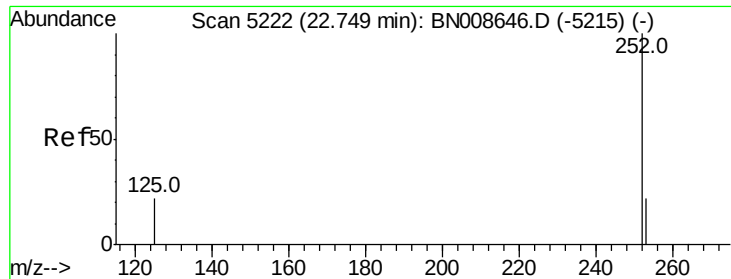
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E







#22

Benzo(k)fluoranthene

Concen: 2.272 ng/ul

RT: 22.71 min Scan# 5207

Delta R.T. -0.04 min

Lab File: BN008674.D

Acq: 20 Nov 2019 23:20

Instrument :

BNA\_N

ClientSampleId :

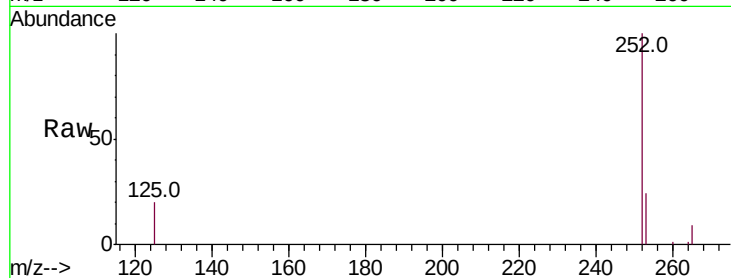
Tot Ion:252 Resp: 136435

Ion Ratio Lower Upper

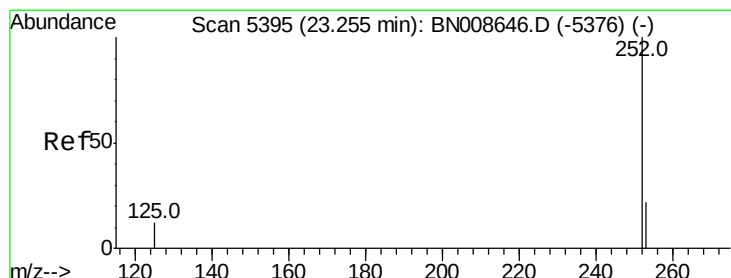
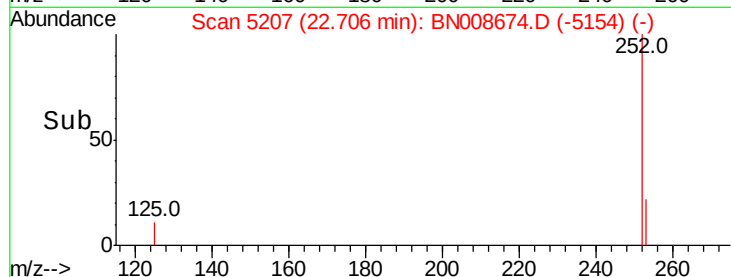
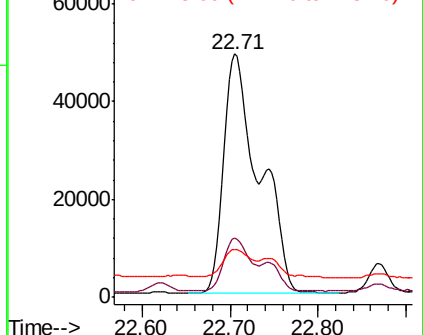
252 100

253 24.2 20.5 30.7

125 19.7 15.0 22.4



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



#23

Benzo(a)pyrene

Concen: 1.109 ng/ul

RT: 23.25 min Scan# 5394

Delta R.T. -0.00 min

Lab File: BN008674.D

Acq: 20 Nov 2019 23:20

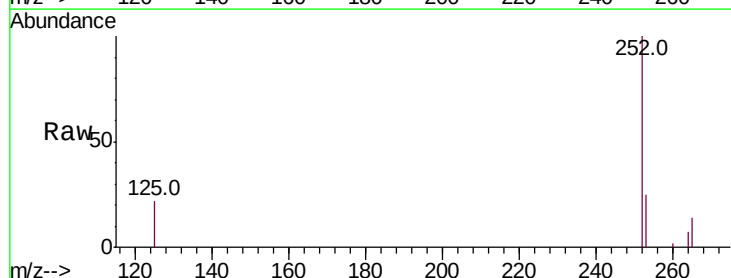
Tgt Ion:252 Resp: 63028

Ion Ratio Lower Upper

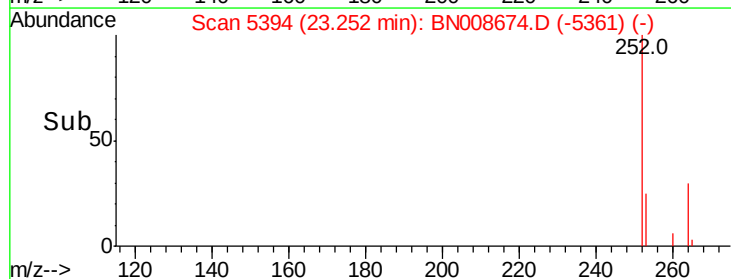
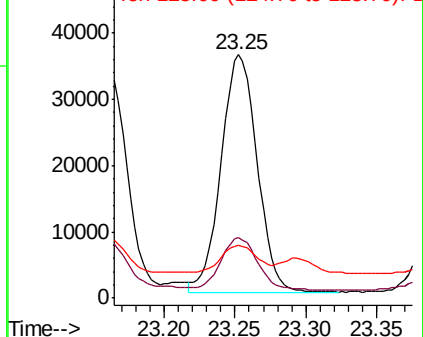
252 100

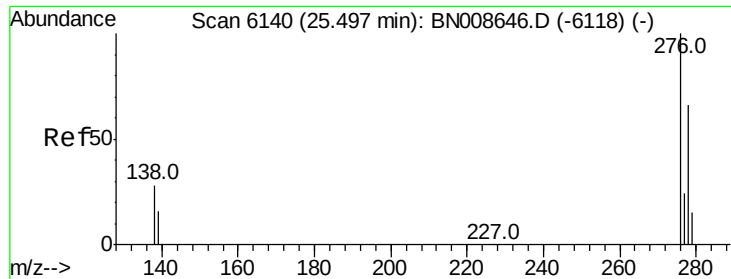
253 24.9 21.4 32.2

125 21.8 13.8 20.8#



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



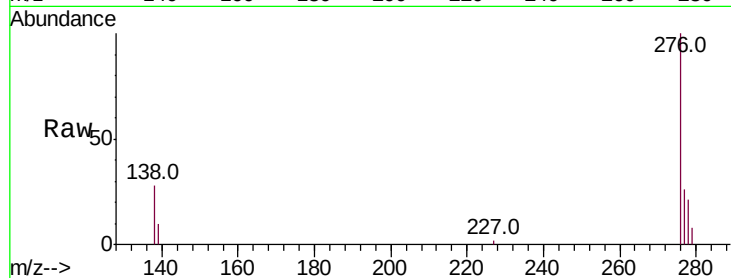


#24

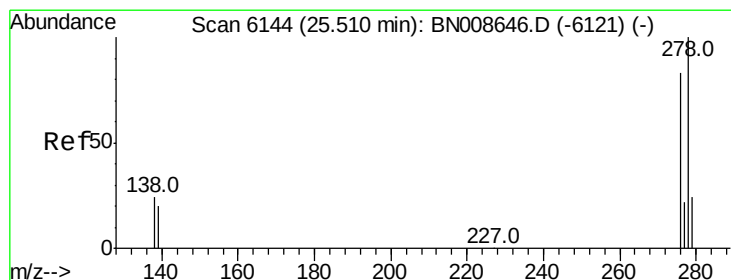
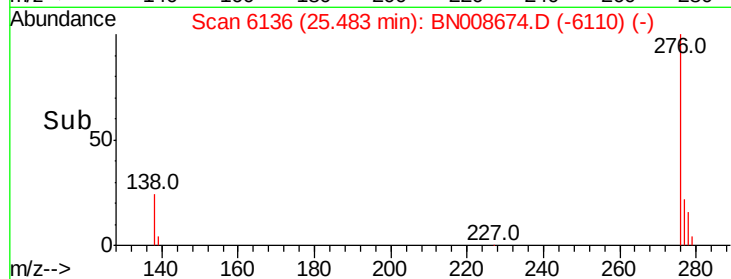
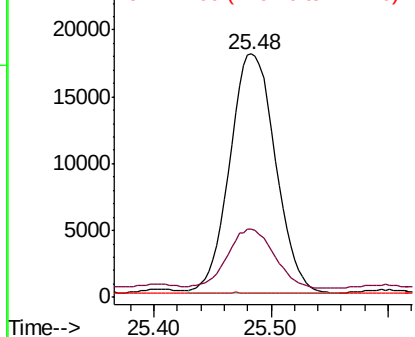
Indeno(1,2,3-cd)pyrene  
Concen: 0.726 ng/ul  
RT: 25.48 min Scan# 6136  
Delta R.T. -0.01 min  
Lab File: BN008674.D  
Acq: 20 Nov 2019 23:20

Instrument :  
BNA\_N  
ClientSampled :

Tot Ion:276 Resp: 48282  
Ion Ratio Lower Upper  
276 100  
138 25.7 21.7 32.5  
227 0.2 0.2 0.2#



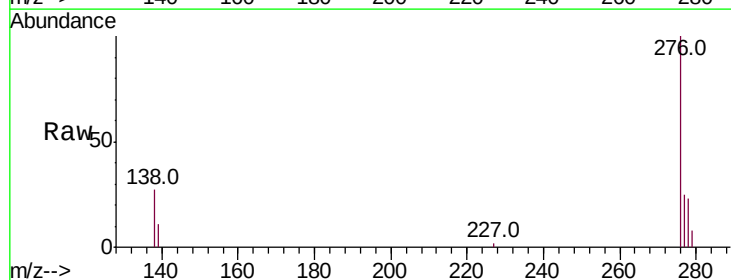
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 227.00 (226.70 to 227.70): E



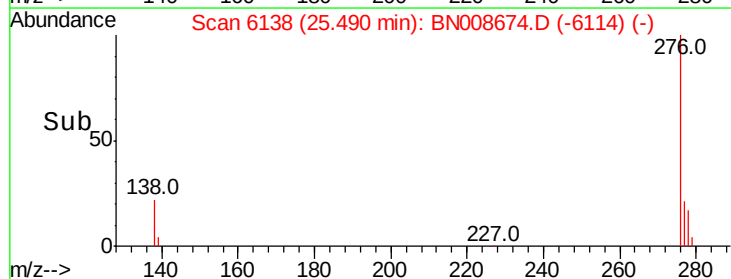
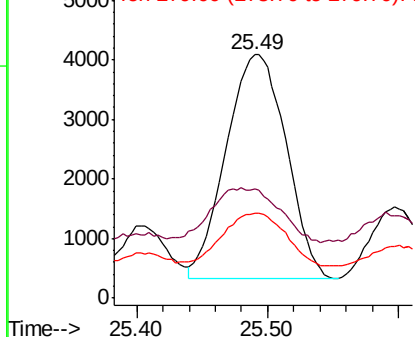
#25

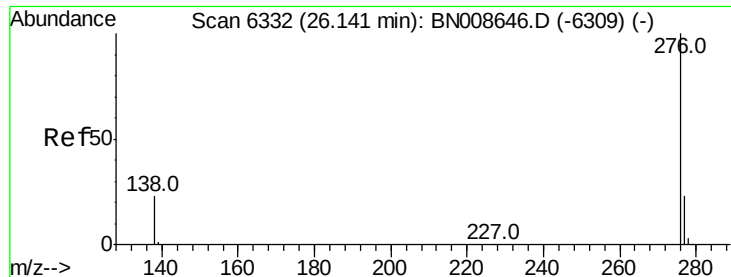
Dibenzo(a,h)anthracene  
Concen: 0.223 ng/ul  
RT: 25.49 min Scan# 6138  
Delta R.T. -0.02 min  
Lab File: BN008674.D  
Acq: 20 Nov 2019 23:20

Tgt Ion:278 Resp: 11958  
Ion Ratio Lower Upper  
278 100  
139 44.9 18.7 28.1#  
279 34.8 20.8 31.2#



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(a,h,i)perylene

Concen: 0.897 ng/ul

RT: 26.13 min Scan# 6330

Delta R.T. -0.01 min

Lab File: BN008674.D

Acq: 20 Nov 2019 23:20

Instrument :

BNA\_N

ClientSampleId :

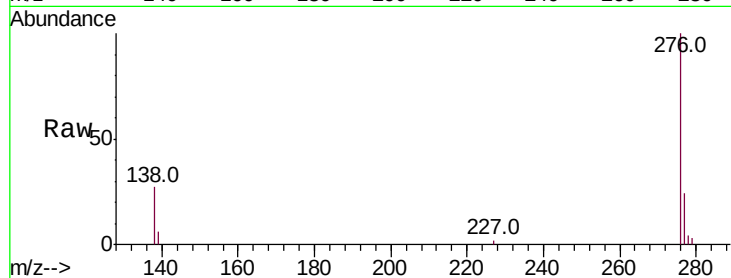
Tot Ion:276 Resp: 49848

Ion Ratio Lower Upper

276 100

138 27.5 20.0 30.0

277 24.4 20.0 30.0



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

