

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM022020\  
 Data File : BM024986.D  
 Acq On : 20 Feb 2020 19:28  
 Operator : CG/JU  
 Sample : SSTD3.281  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Feb 21 01:41:27 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM022020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 21 01:39:01 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.38  | 152  | 2640     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.13 | 136  | 10395    | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.03 | 164  | 7186     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 16.78 | 188  | 13709    | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.00 | 240  | 15804    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.09 | 264  | 15474    | 0.40 | ng/ul | 0.00     |

|                             |       |     |        |      |       |       |
|-----------------------------|-------|-----|--------|------|-------|-------|
| System Monitoring Compounds |       |     |        |      |       |       |
| 4) 2-Methylnaphthalene-d10  | 11.73 | 152 | 57828  | 3.39 | ng/ul | -0.01 |
| 14) Fluoranthene-d10        | 18.82 | 212 | 135724 | 3.61 | ng/ul | 0.00  |

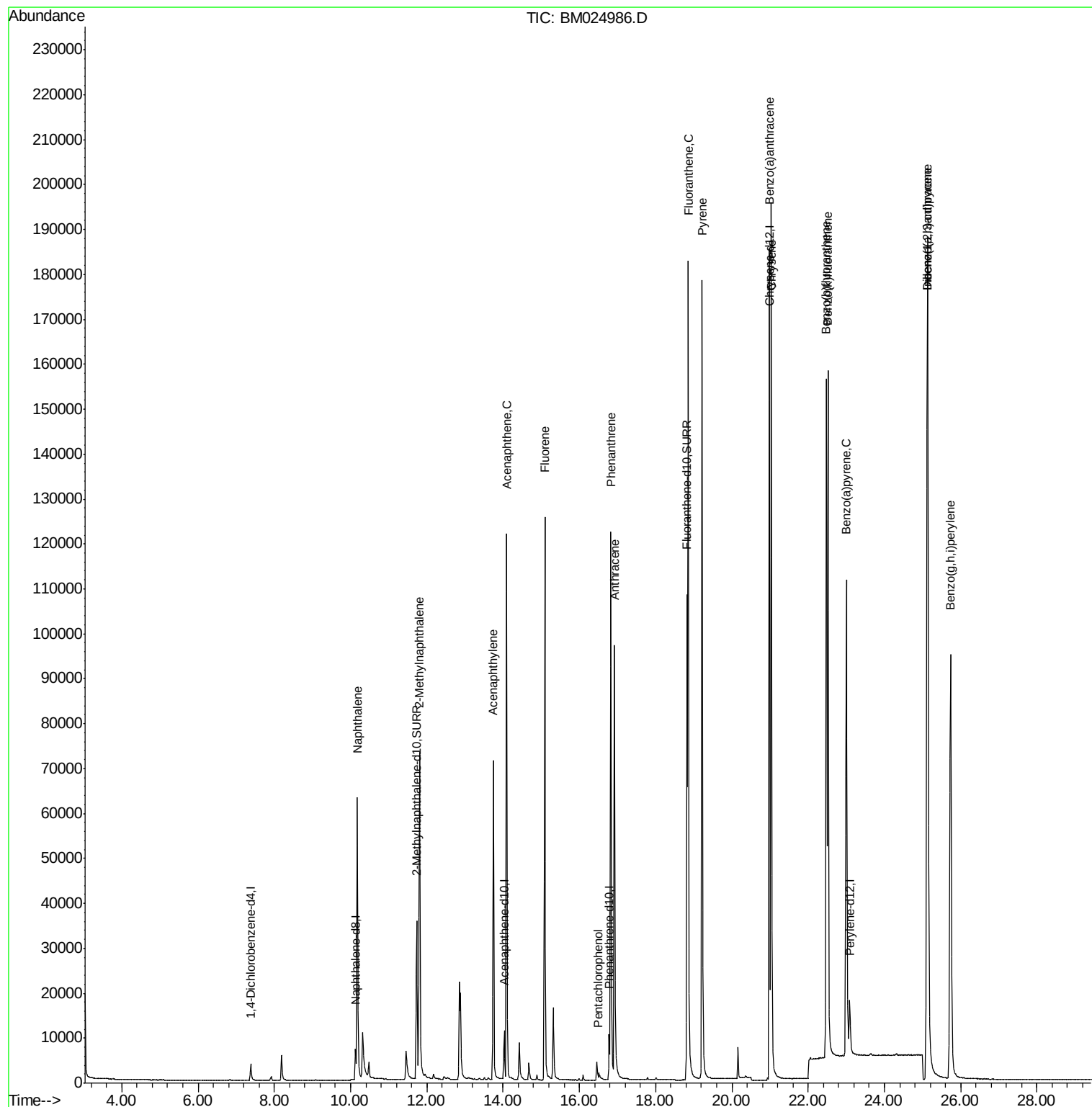
|                            |       |     |        |        |        |    |
|----------------------------|-------|-----|--------|--------|--------|----|
| Target Compounds           |       |     |        | Ovalue |        |    |
| 3) Naphthalene             | 10.17 | 128 | 92893  | 3.136  | ng/ul  | 97 |
| 5) 2-Methylnaphthalene     | 11.81 | 142 | 64699  | 3.186  | ng/ul  | 96 |
| 7) Acenaphthylene          | 13.75 | 152 | 96417  | 2.899  | ng/ul  | 98 |
| 8) Acenaphthene            | 14.09 | 153 | 71667  | 2.574  | ng/ul  | 98 |
| 9) Fluorene                | 15.09 | 166 | 84920  | 2.662  | ng/ul  | 98 |
| 11) Pentachlorophenol      | 16.50 | 266 | 3972   | 1.428  | ng/ul  | 88 |
| 12) Phenanthrene           | 16.82 | 178 | 136581 | 3.127  | ng/ul  | 98 |
| 13) Anthracene             | 16.92 | 178 | 127225 | 3.395  | ng/ul  | 98 |
| 15) Fluoranthene           | 18.85 | 202 | 171468 | 3.638  | ng/ul  | 98 |
| 17) Pyrene                 | 19.22 | 202 | 173979 | 2.428  | ng/ul  | 98 |
| 18) Benzo(a)anthracene     | 20.98 | 228 | 168961 | 2.793  | ng/ul  | 99 |
| 19) Chrysene               | 21.03 | 228 | 186917 | 2.937  | ng/ul  | 98 |
| 21) Benzo(b)fluoranthene   | 22.48 | 252 | 186400 | 2.772  | ng/ul  | 91 |
| 22) Benzo(k)fluoranthene   | 22.52 | 252 | 200157 | 2.918  | ng/ul# | 87 |
| 23) Benzo(a)pyrene         | 23.00 | 252 | 173229 | 2.945  | ng/ul# | 89 |
| 24) Indeno(1,2,3-cd)pyrene | 25.12 | 276 | 233877 | 3.259  | ng/ul# | 89 |
| 25) Dibenzo(a,h)anthracene | 25.14 | 278 | 193297 | 3.334  | ng/ul  | 93 |
| 26) Benzo(g,h,i)perylene   | 25.74 | 276 | 204052 | 3.569  | ng/ul  | 97 |

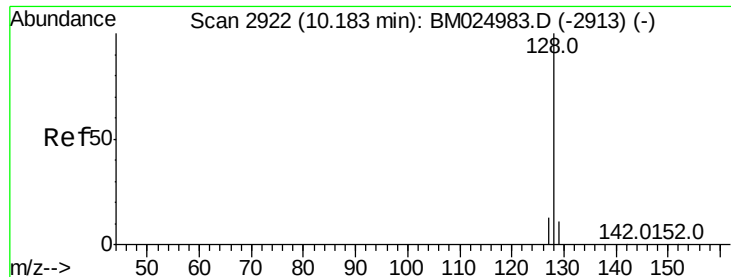
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM022020\  
Data File : BM024986.D  
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Sample : SST3.281  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :

Quant Time: Feb 21 01:41:27 2020  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Feb 21 01:39:01 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 3.136 ng/ul

RT: 10.17 min Scan# 2920

Delta R.T. -0.01 min

Lab File: BM024986.D

Acq: 20 Feb 2020 19:28

Instrument :

BNA\_M

ClientSampleId :

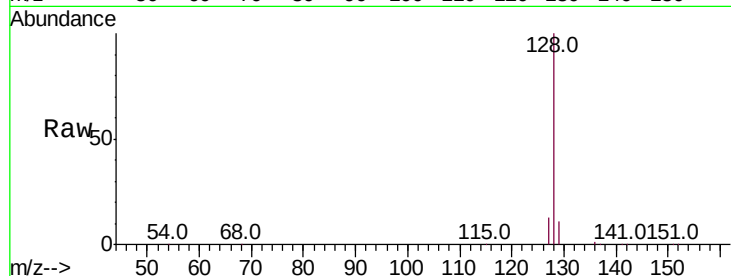
Tot Ion:128 Resp: 92893

Ion Ratio Lower Upper

128 100

129 10.9 9.8 14.6

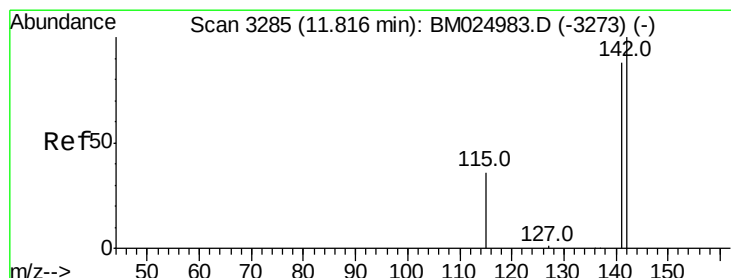
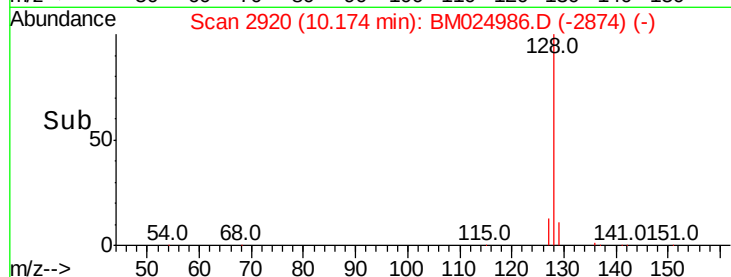
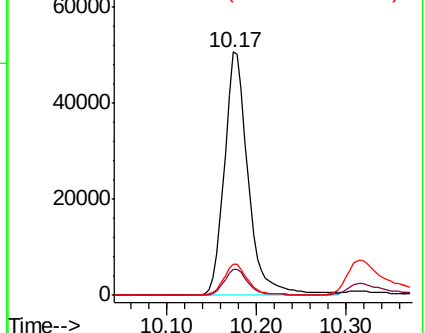
127 13.0 11.5 17.3



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: 3.186 ng/ul

RT: 11.81 min Scan# 3283

Delta R.T. -0.01 min

Lab File: BM024986.D

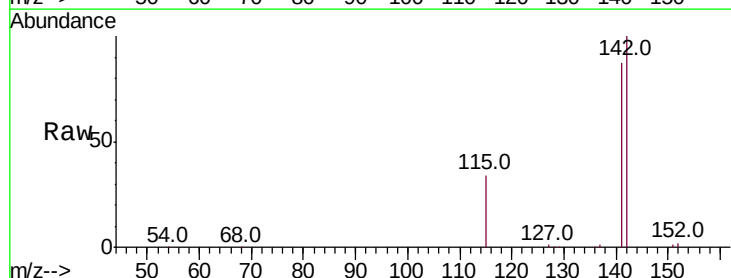
Acq: 20 Feb 2020 19:28

Tgt Ion:142 Resp: 64699

Ion Ratio Lower Upper

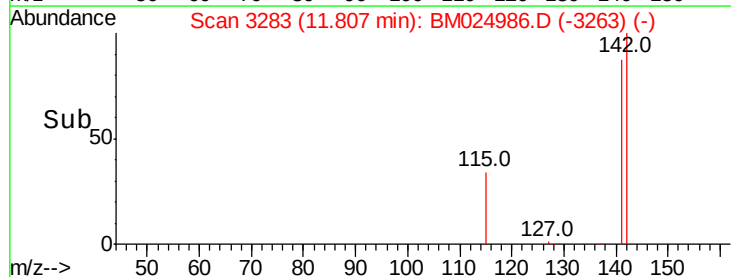
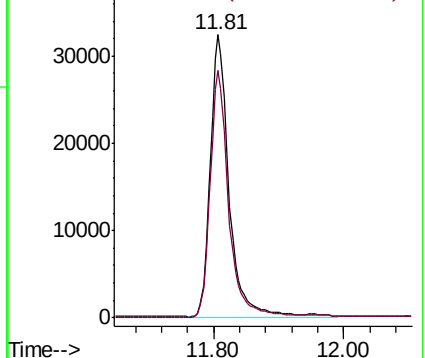
142 100

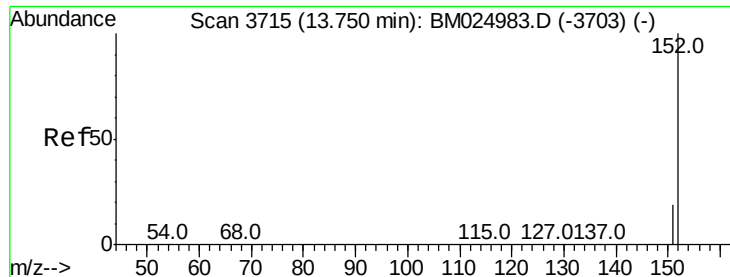
141 86.4 72.2 108.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 2.899 ng/ul

RT: 13.75 min Scan# 3714

Delta R.T. -0.00 min

Lab File: BM024986.D

Acq: 20 Feb 2020 19:28

Instrument :

BNA\_M

ClientSampleId :

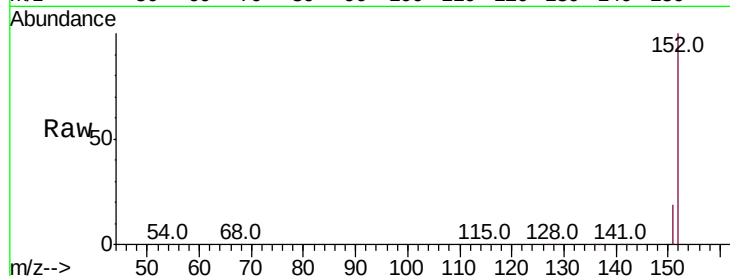
Tot Ion:152 Resp: 96417

Ion Ratio Lower Upper

152 100

151 19.1 16.1 24.1

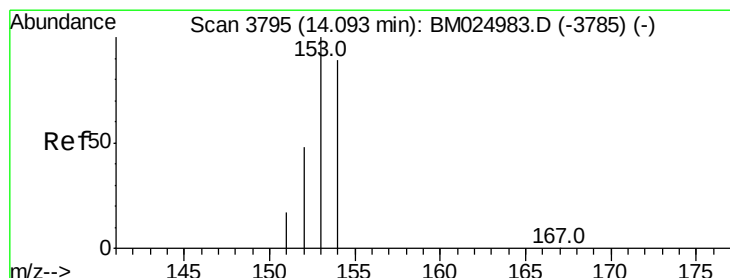
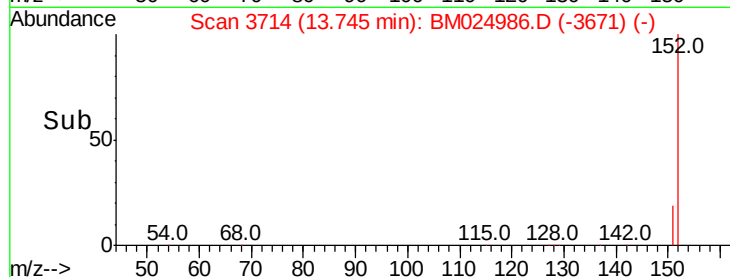
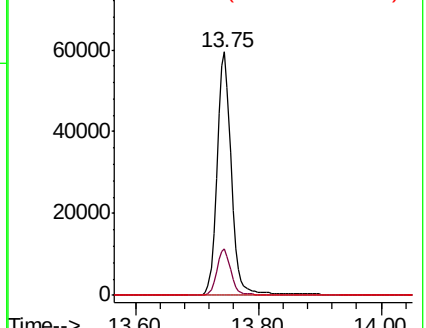
153 0.0 0.0 0.0



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: 2.574 ng/ul

RT: 14.09 min Scan# 3794

Delta R.T. -0.00 min

Lab File: BM024986.D

Acq: 20 Feb 2020 19:28

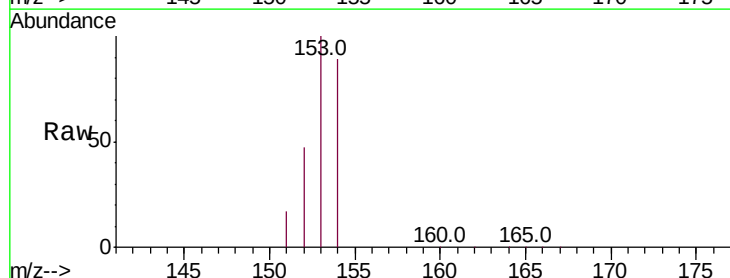
Tgt Ion:153 Resp: 71667

Ion Ratio Lower Upper

153 100

152 47.5 39.8 59.6

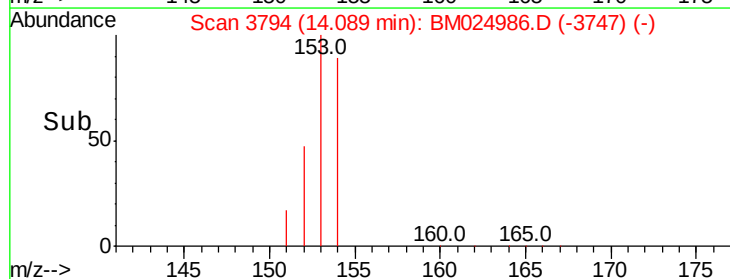
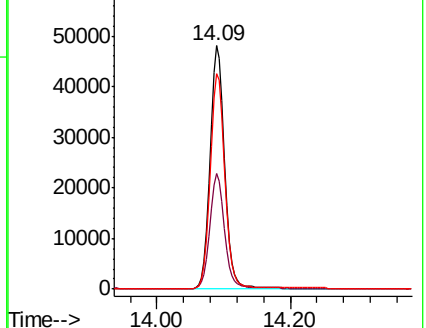
154 88.7 71.8 107.6

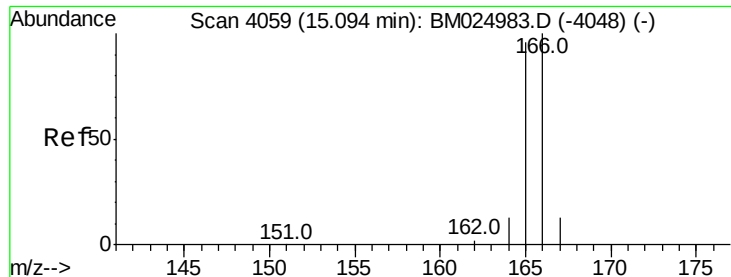


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 2.662 ng/ul

RT: 15.09 min Scan# 4058

Delta R.T. -0.00 min

Lab File: BM024986.D

Acq: 20 Feb 2020 19:28

Instrument :

BNA\_M

ClientSampleId :

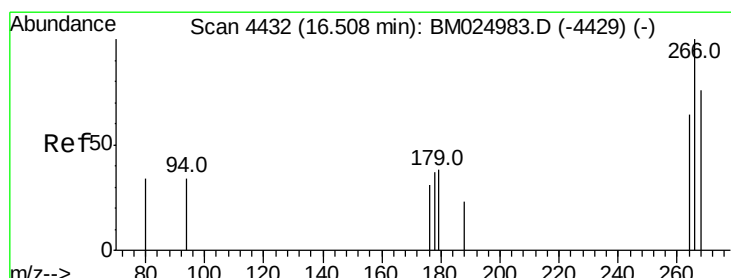
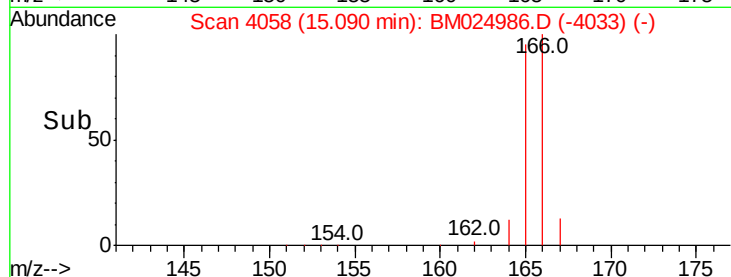
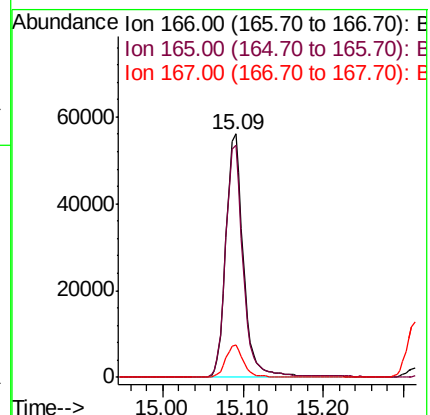
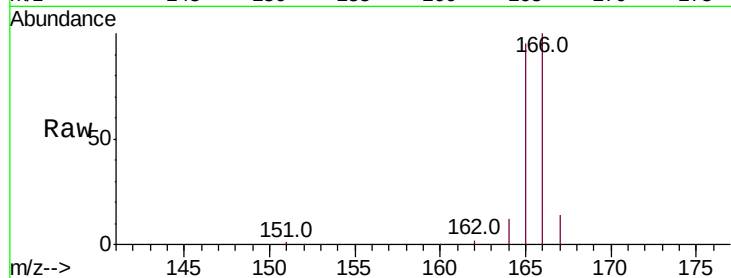
Tot Ion:166 Resp: 84920

Ion Ratio Lower Upper

166 100

165 95.2 77.5 116.3

167 13.5 11.5 17.3



#11

Pentachlorophenol

Concen: 1.428 ng/ul

RT: 16.50 min Scan# 4431

Delta R.T. -0.00 min

Lab File: BM024986.D

Acq: 20 Feb 2020 19:28

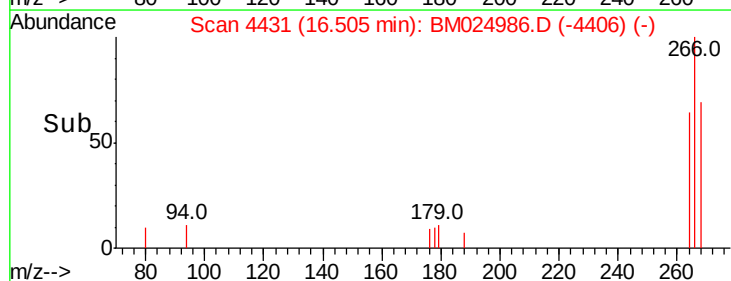
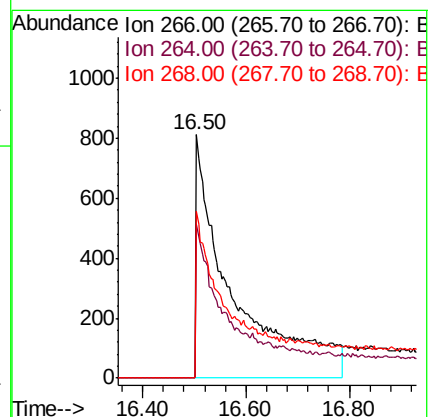
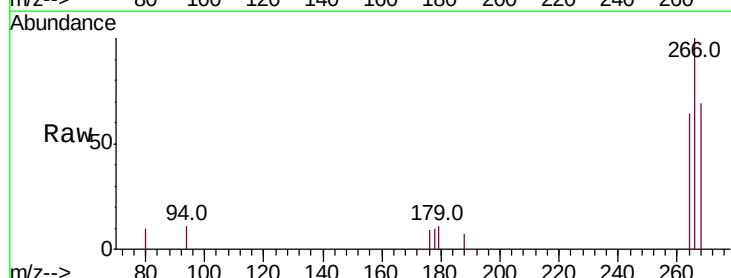
Tgt Ion:266 Resp: 3972

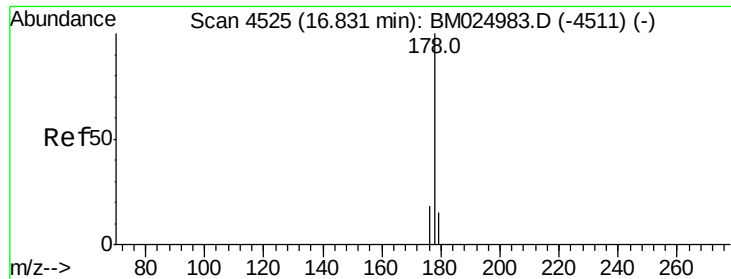
Ion Ratio Lower Upper

266 100

264 66.9 56.9 85.3

268 79.8 77.6 116.4





#12

Phenanthrene

Concen: 3.127 ng/ul

RT: 16.82 min Scan# 4523

Delta R.T. -0.01 min

Lab File: BM024986.D

Acq: 20 Feb 2020 19:28

Instrument :

BNA\_M

ClientSampleId :

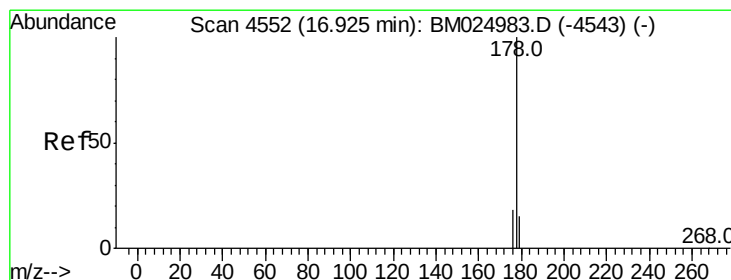
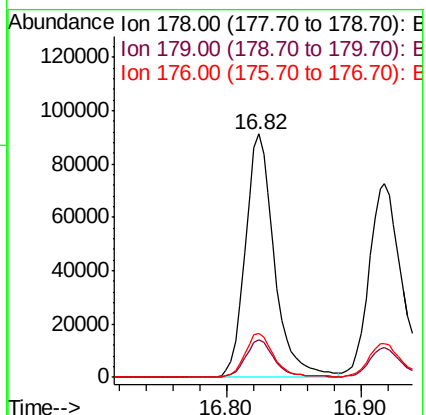
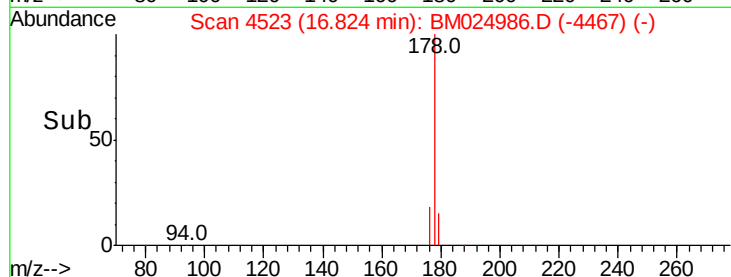
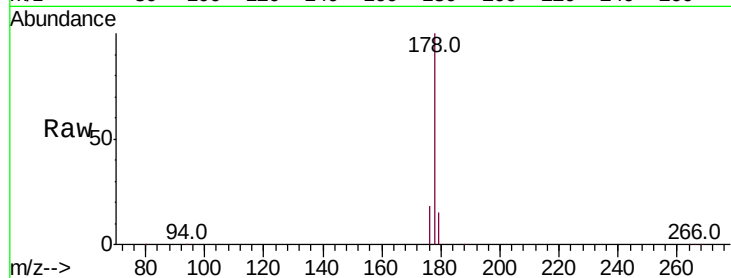
Tot Ion:178 Resp: 136581

Ion Ratio Lower Upper

178 100

179 15.4 12.8 19.2

176 18.1 15.1 22.7



#13

Anthracene

Concen: 3.395 ng/ul

RT: 16.92 min Scan# 4550

Delta R.T. -0.01 min

Lab File: BM024986.D

Acq: 20 Feb 2020 19:28

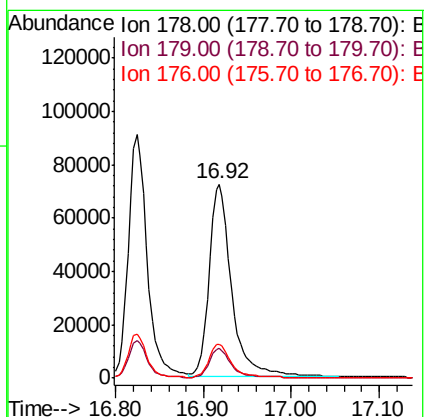
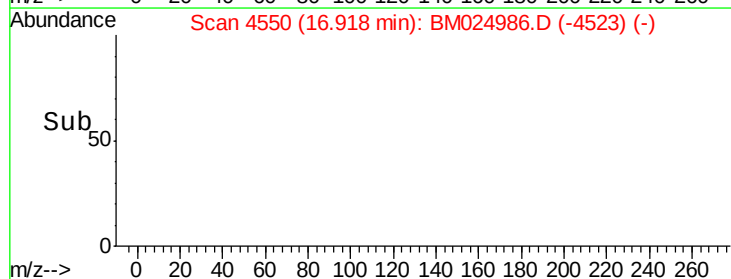
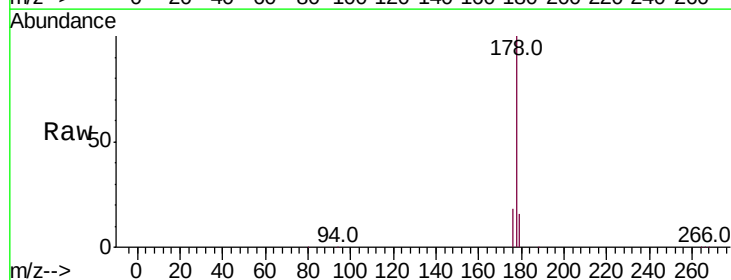
Tgt Ion:178 Resp: 127225

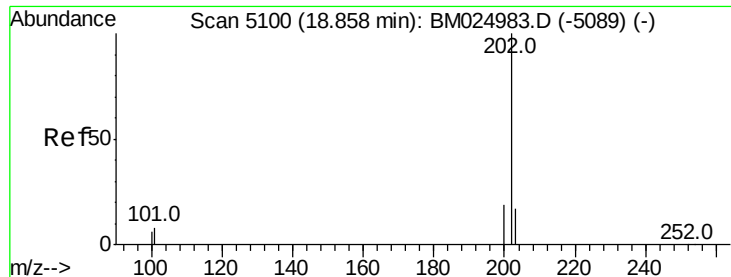
Ion Ratio Lower Upper

178 100

179 15.6 13.3 19.9

176 17.6 15.0 22.4

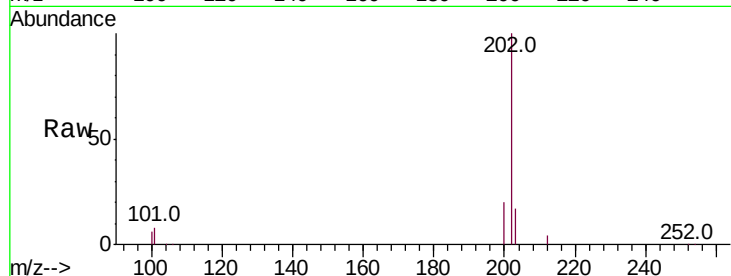




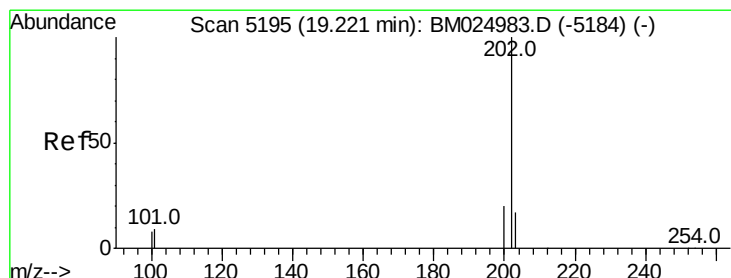
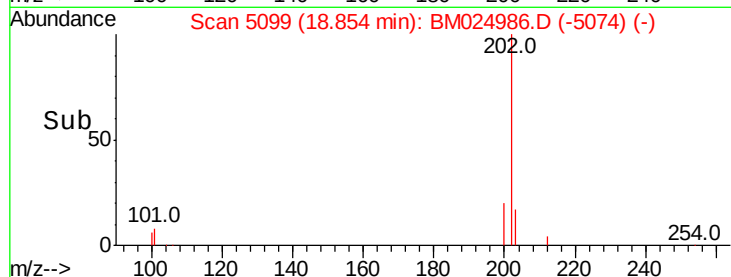
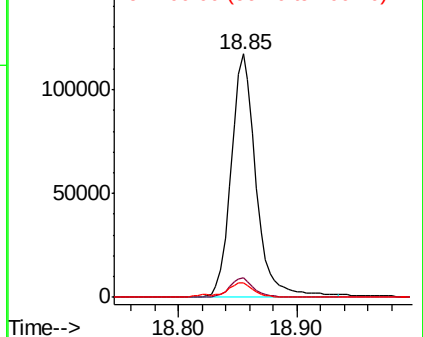
#15  
Fluoranthene  
Concen: 3.638 ng/ul  
RT: 18.85 min Scan# 5099  
Delta R.T. -0.00 min  
Lab File: BM024986.D  
Acq: 20 Feb 2020 19:28

Instrument :  
BNA\_M  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 7.8   | 0.0   | 28.5  |
| 100     | 6.0   | 0.0   | 26.6  |

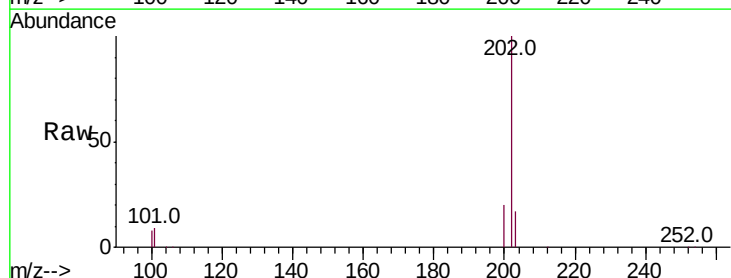


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

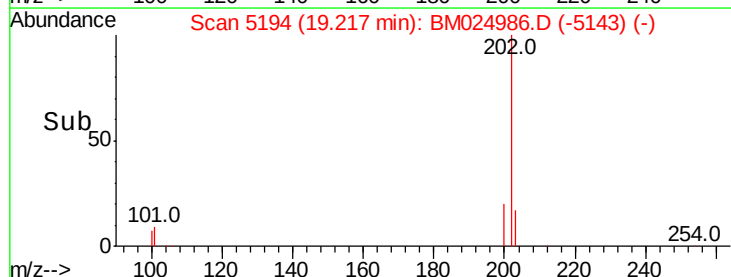
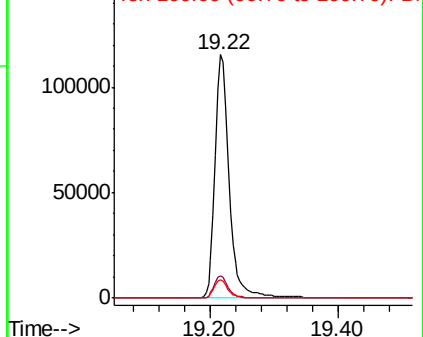


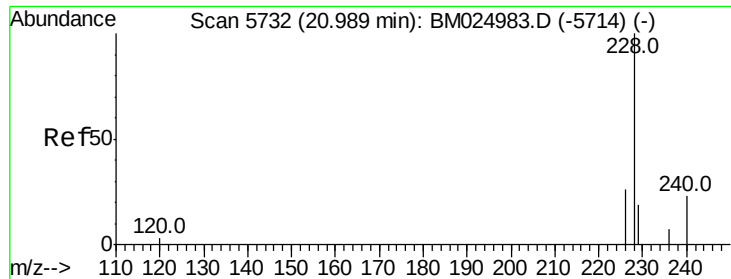
#17  
Pyrene  
Concen: 2.428 ng/ul  
RT: 19.22 min Scan# 5194  
Delta R.T. -0.00 min  
Lab File: BM024986.D  
Acq: 20 Feb 2020 19:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.1   | 7.9   | 11.9  |
| 100     | 7.5   | 6.6   | 9.8   |



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: 2.793 ng/ul

RT: 20.98 min Scan# 5729

Delta R.T. -0.01 min

Lab File: BM024986.D

Acq: 20 Feb 2020 19:28

Instrument :

BNA\_M

ClientSampleId :

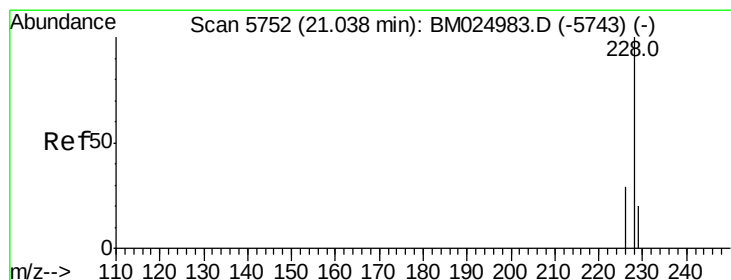
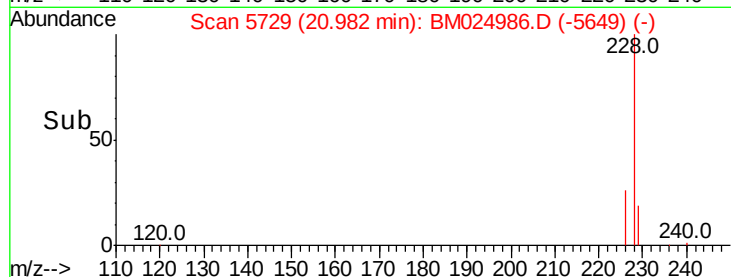
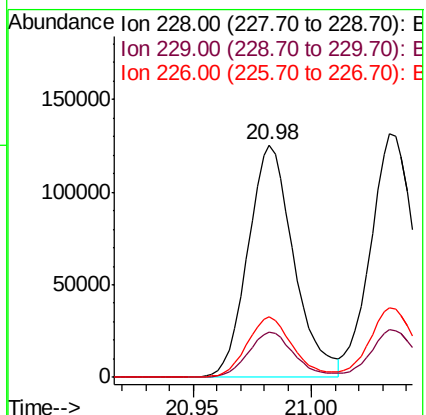
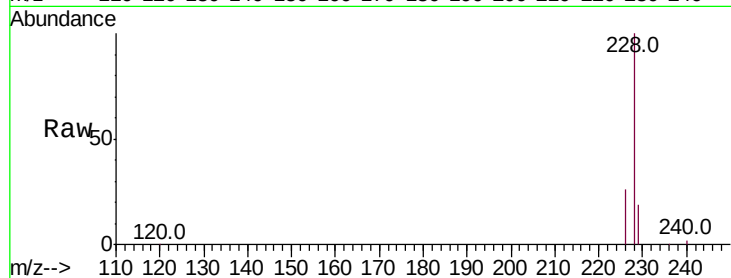
Tot Ion:228 Resp: 168961

Ion Ratio Lower Upper

228 100

229 19.4 15.8 23.8

226 26.0 21.1 31.7



#19

Chrysene

Concen: 2.937 ng/ul

RT: 21.03 min Scan# 5750

Delta R.T. -0.00 min

Lab File: BM024986.D

Acq: 20 Feb 2020 19:28

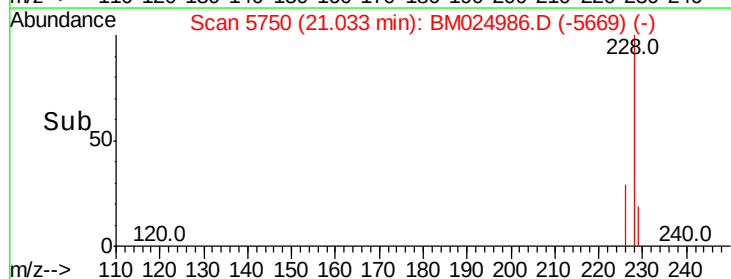
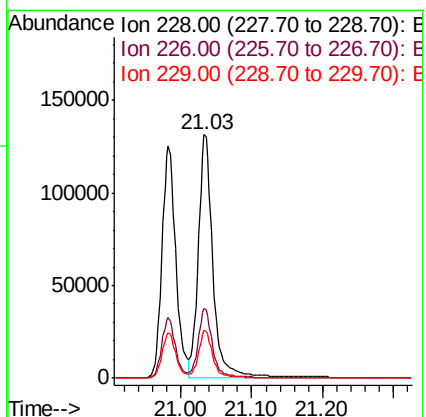
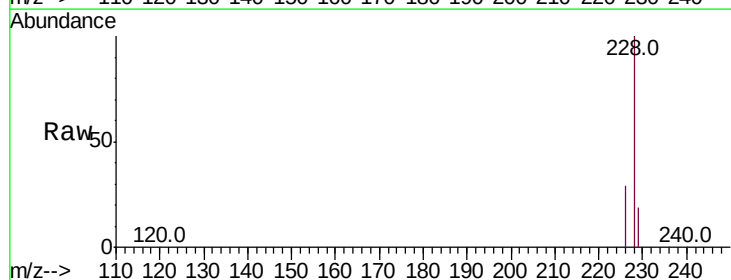
Tgt Ion:228 Resp: 186917

Ion Ratio Lower Upper

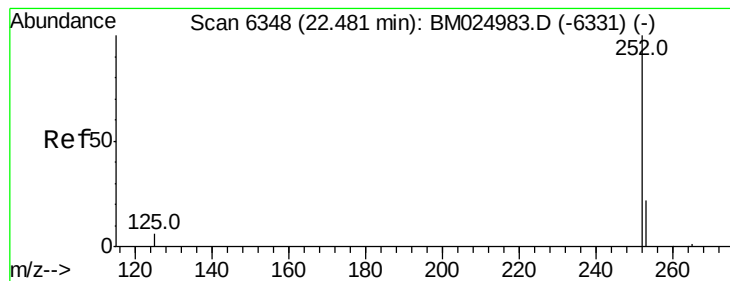
228 100

226 28.8 23.6 35.4

229 19.4 16.2 24.4







#21

Benzo(b)fluoranthene

Concen: 2.772 ng/ul

RT: 22.48 min Scan# 6346

Delta R.T. -0.00 min

Lab File: BM024986.D

Acq: 20 Feb 2020 19:28

Instrument :

BNA\_M

ClientSampleId :

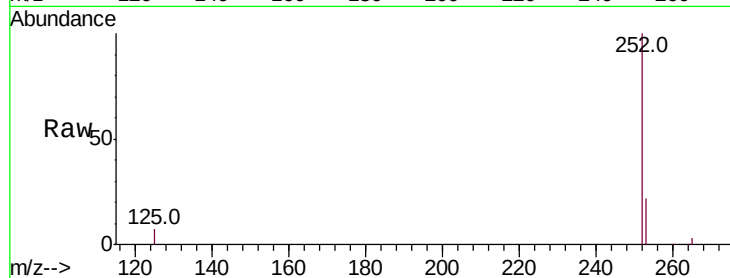
Tot Ion:252 Resp: 186400

Ion Ratio Lower Upper

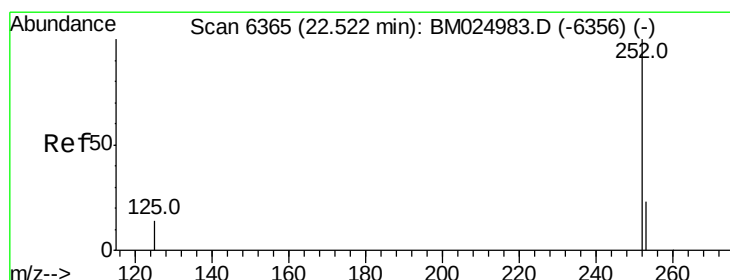
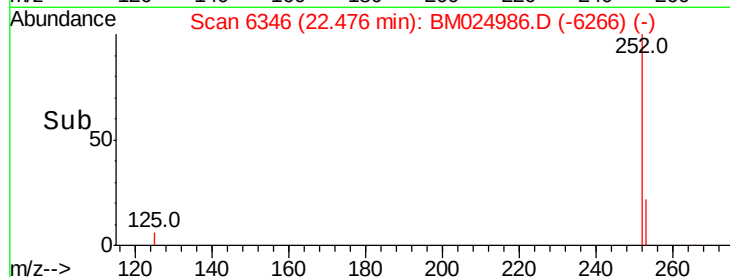
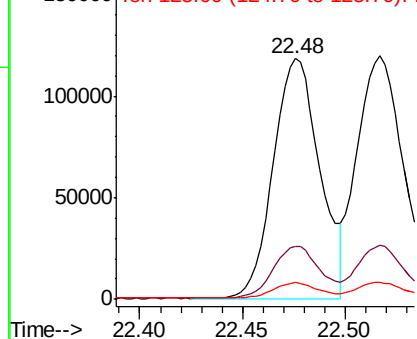
252 100

253 22.1 0.0 52.6

125 6.9 0.0 21.0



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: 2.918 ng/ul

RT: 22.52 min Scan# 6363

Delta R.T. -0.00 min

Lab File: BM024986.D

Acq: 20 Feb 2020 19:28

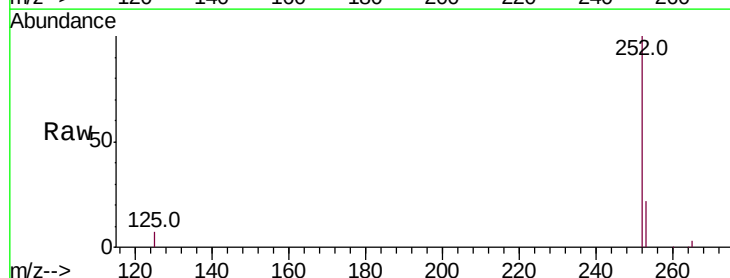
Tgt Ion:252 Resp: 200157

Ion Ratio Lower Upper

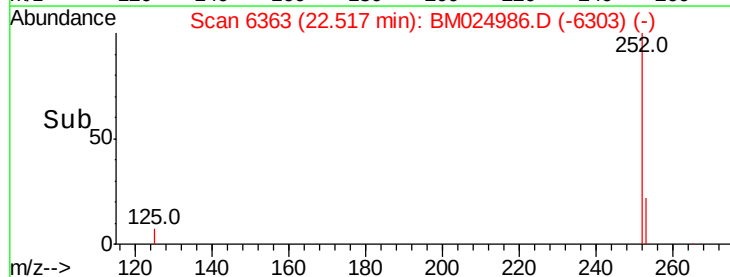
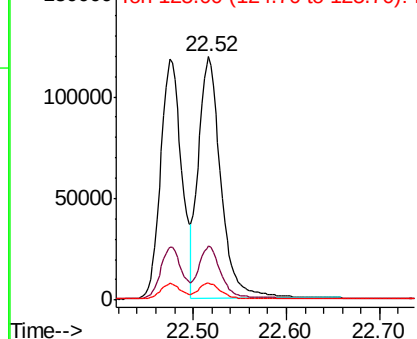
252 100

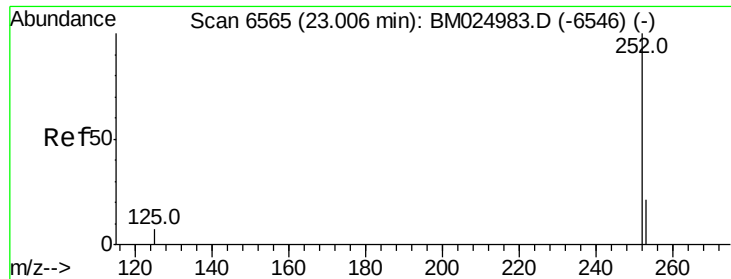
253 22.1 21.7 32.5

125 7.0 11.8 17.8#



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





#23

Benzo(a)pyrene

Concen: 2.945 ng/ul

RT: 23.00 min Scan# 6562

Delta R.T. -0.01 min

Lab File: BM024986.D

Acq: 20 Feb 2020 19:28

Instrument :

BNA\_M

ClientSampleId :

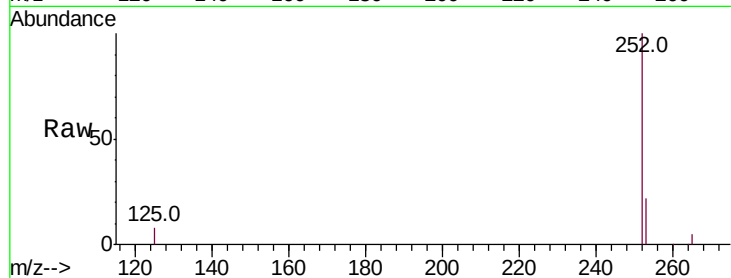
Tot Ion:252 Resp: 173229

Ion Ratio Lower Upper

252 100

253 22.5 22.3 33.5

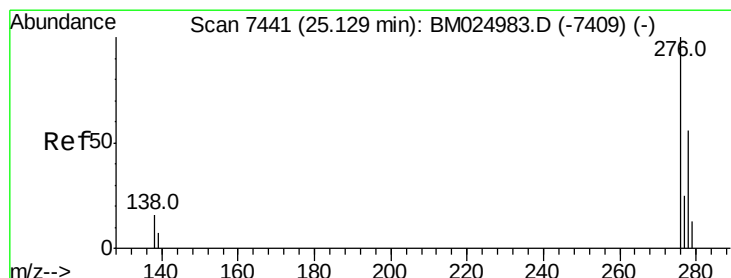
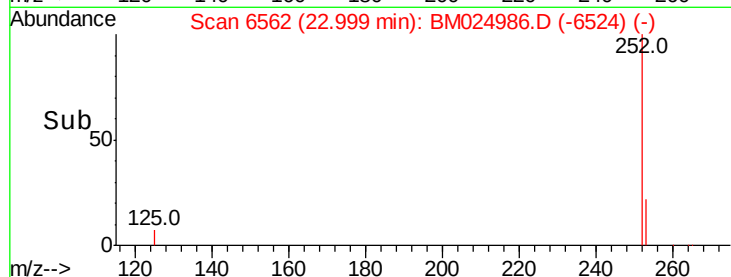
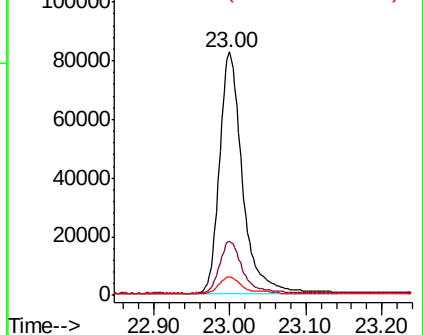
125 7.7 10.2 15.4#



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 3.259 ng/ul

RT: 25.12 min Scan# 7438

Delta R.T. -0.01 min

Lab File: BM024986.D

Acq: 20 Feb 2020 19:28

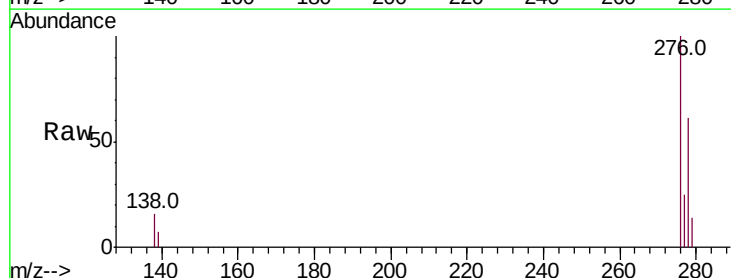
Tgt Ion:276 Resp: 233877

Ion Ratio Lower Upper

276 100

138 16.4 9.6 14.4#

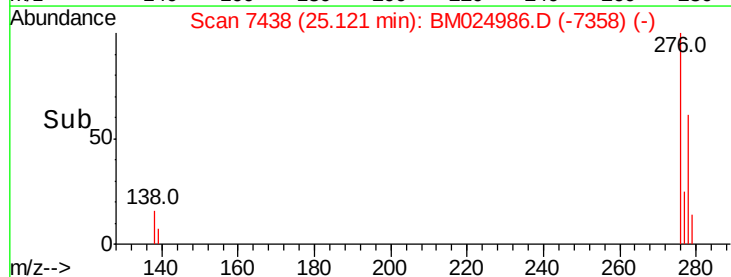
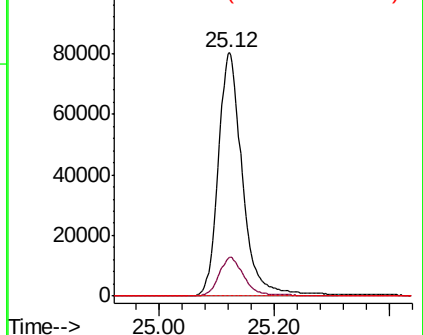
227 0.0 0.0 0.0

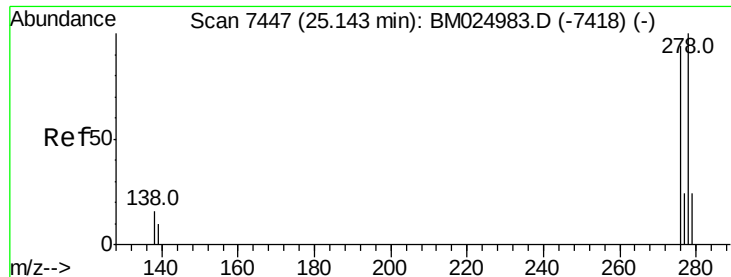


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E

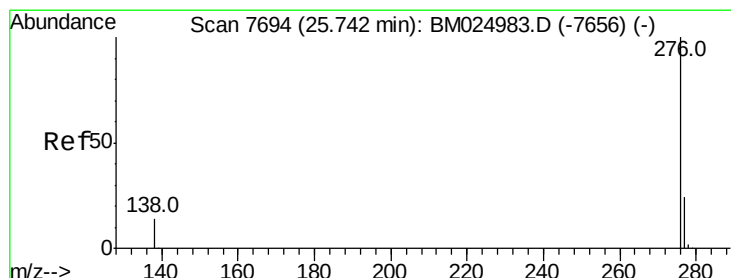
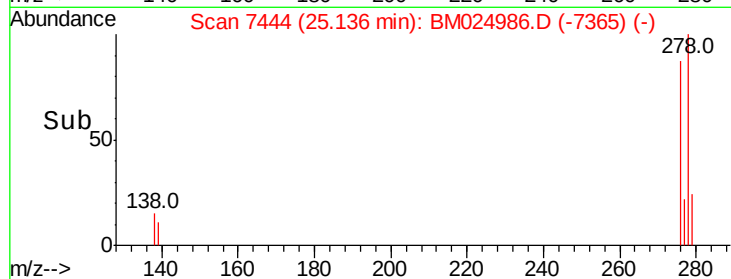
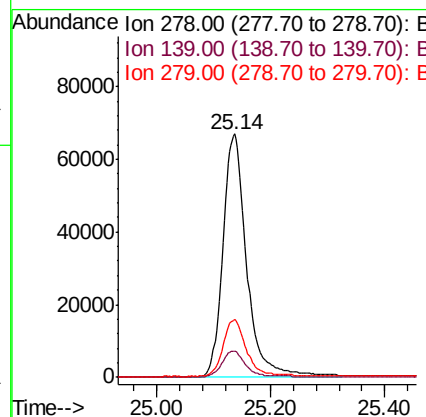
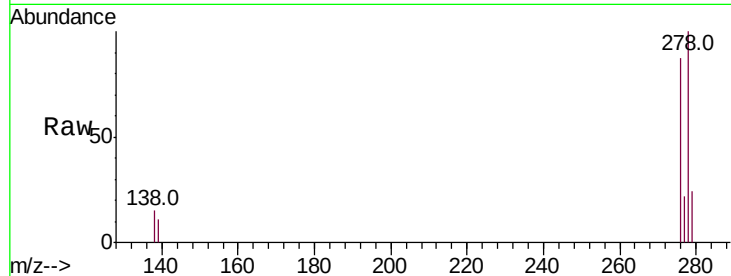




#25  
Dibenzo(a,h)anthracene  
Concen: 3.334 ng/ul  
RT: 25.14 min Scan# 7444  
Delta R.T. -0.01 min  
Lab File: BM024986.D  
Acq: 20 Feb 2020 19:28

Instrument :  
BNA\_M  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 10.8  | 10.2  | 15.2  |
| 279     | 23.9  | 22.3  | 33.5  |



#26  
Benzo(g,h,i)perylene  
Concen: 3.569 ng/ul  
RT: 25.74 min Scan# 7692  
Delta R.T. -0.00 min  
Lab File: BM024986.D  
Acq: 20 Feb 2020 19:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 14.2  | 12.4  | 18.6  |
| 277     | 23.4  | 20.1  | 30.1  |

