

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM110720\  
 Data File : BM027738.D  
 Acq On : 07 Nov 2020 00:56  
 Operator : JU/CG  
 Sample : SSTDC00.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

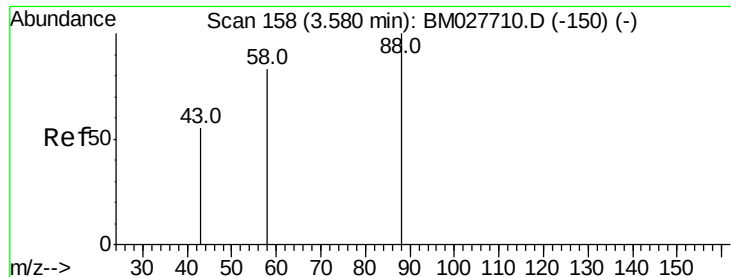
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD0.4101

Quant Time: Nov 07 01:30:01 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM110520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 06 11:00:57 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.40  | 152  | 352      | 0.40   | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 11.23 | 136  | 1193     | 0.40   | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 15.00 | 164  | 692      | 0.40   | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.72 | 188  | 1481     | 0.40   | ng/ul  | 0.00     |
| 19) Chrysene-d12            | 21.81 | 240  | 1259     | 0.40   | ng/ul  | 0.00     |
| 23) Perylene-d12            | 24.26 | 264  | 1200     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.54  | 96   | 174      | 0.48   | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.80 | 152  | 781      | 0.39   | ng/ul  | 0.00     |
| 17) Fluoranthene-d10        | 19.70 | 212  | 1672     | 0.42   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 2) 1,4-Dioxane              | 3.58  | 88   | 192      | 0.494  | ng/ul  | 98       |
| 5) Naphthalene              | 11.28 | 128  | 1391     | 0.411  | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 12.87 | 142  | 944      | 0.405  | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 13.08 | 142  | 865      | 0.393  | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.73 | 152  | 1261     | 0.408  | ng/ul  | 98       |
| 11) Acenaphthene            | 15.07 | 153  | 973      | 0.414  | ng/ul  | 99       |
| 12) Fluorene                | 16.04 | 166  | 1145     | 0.412  | ng/ul  | 99       |
| 14) Pentachlorophenol       | 17.36 | 266  | 226      | 0.463  | ng/ul  | 95       |
| 15) Phenanthrene            | 17.76 | 178  | 1810     | 0.419  | ng/ul  | 98       |
| 16) Anthracene              | 17.85 | 178  | 1743     | 0.411  | ng/ul  | 98       |
| 18) Fluoranthene            | 19.73 | 202  | 2054     | 0.407  | ng/ul  | 97       |
| 20) Pyrene                  | 20.09 | 202  | 2073     | 0.422  | ng/ul  | 100      |
| 21) Benzo(a)anthracene      | 21.80 | 228  | 1919     | 0.417  | ng/ul  | 98       |
| 22) Chrysene                | 21.85 | 228  | 1975     | 0.418  | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 23.51 | 252  | 1984     | 0.411  | ng/ul  | 97       |
| 25) Benzo(k)fluoranthene    | 23.56 | 252  | 1923     | 0.400  | ng/ul  | 96       |
| 26) Benzo(a)pyrene          | 24.15 | 252  | 1797     | 0.411  | ng/ul  | 94       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.79 | 276  | 2213     | 0.431  | ng/ul# | 99       |
| 28) Dibenzo(a,h)anthracene  | 26.81 | 278  | 1852     | 0.434  | ng/ul  | 96       |
| 29) Benzo(a,h,i)perylene    | 27.58 | 276  | 1918     | 0.444  | ng/ul  | 97       |

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





#2

1,4-Dioxane

Concen: 0.494 ng/ul

RT: 3.58 min Scan# 158

Delta R.T. -0.00 min

Lab File: BM027738.D

Acq: 07 Nov 2020 00:56

Instrument :

BNA\_M

ClientSampleId :

SSTD0.4101

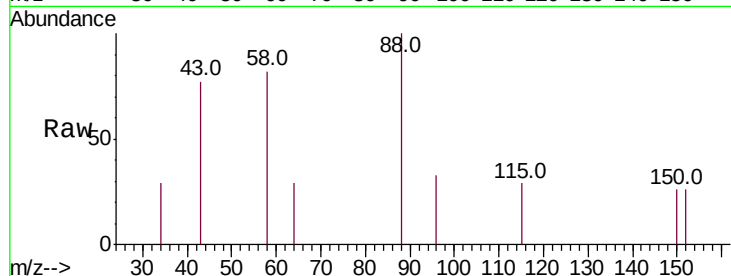
Tot Ion: 88 Resp: 192

Ion Ratio Lower Upper

88 100

43 76.7 61.8 92.6

58 82.2 67.8 101.8



Abundance Ion 88.00 (87.70 to 88.70): BM027710.D (-150) (-)

Ion 43.00 (42.70 to 43.70): BM027710.D (-150) (-)

Ion 58.00 (57.70 to 58.70): BM027710.D (-150) (-)

250

200

150

100

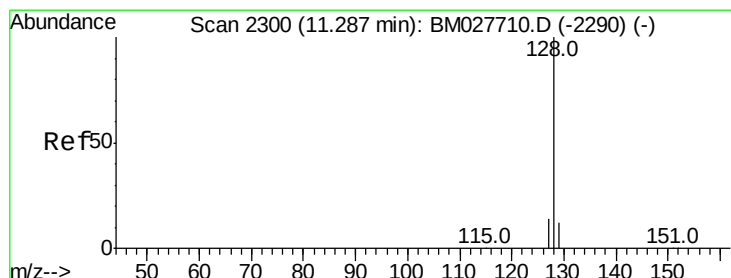
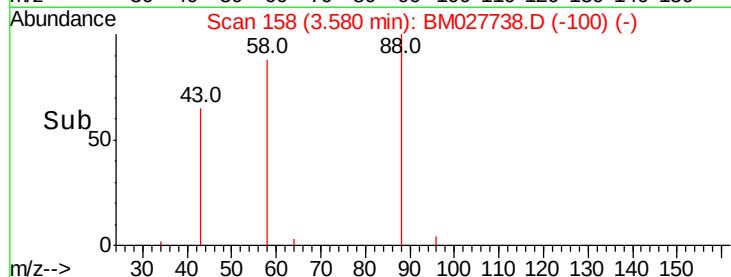
50

0

3.58

3.50 3.55 3.60 3.65

Time-->



#5

Naphthalene

Concen: 0.411 ng/ul

RT: 11.28 min Scan# 2299

Delta R.T. -0.00 min

Lab File: BM027738.D

Acq: 07 Nov 2020 00:56

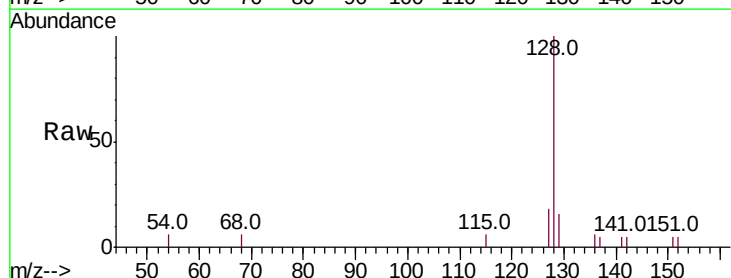
Tgt Ion: 128 Resp: 1391

Ion Ratio Lower Upper

128 100

129 15.8 11.7 17.5

127 18.3 14.0 21.0



Abundance Ion 128.00 (127.70 to 128.70): BM027710.D (-2290) (-)

Ion 129.00 (128.70 to 129.70): BM027710.D (-2290) (-)

Ion 127.00 (126.70 to 127.70): BM027710.D (-2290) (-)

1200

1000

800

600

400

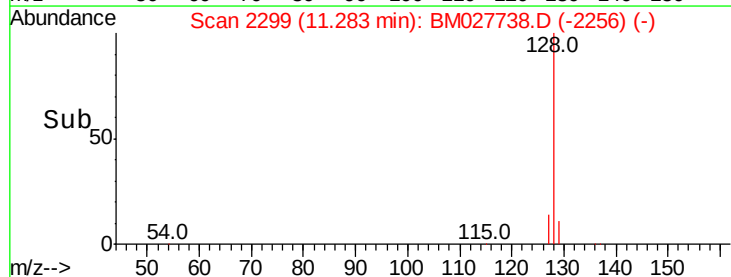
200

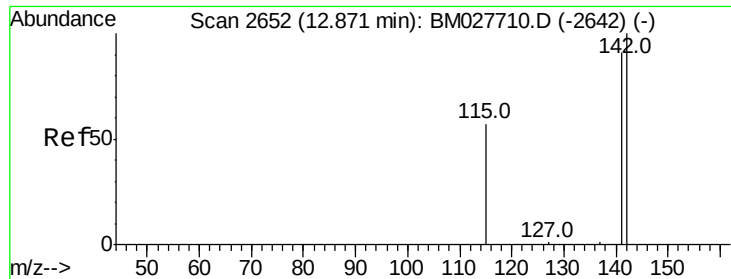
0

11.28

11.20 11.25 11.30 11.35

Time-->





#7

2-Methylnaphthalene

Concen: 0.405 ng/ul

RT: 12.87 min Scan# 2651

Delta R.T. -0.00 min

Lab File: BM027738.D

Acq: 07 Nov 2020 00:56

Instrument :

BNA\_M

ClientSampleId :

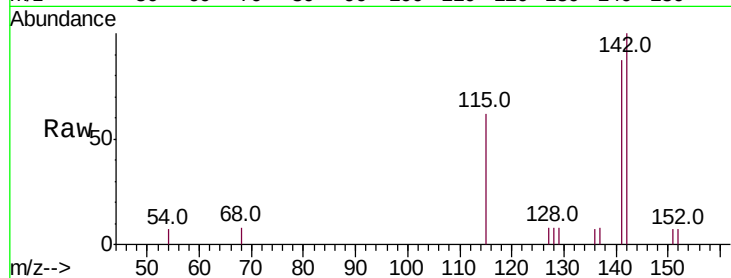
SSTD0.4101

Tot Ion:142 Resp: 944

Ion Ratio Lower Upper

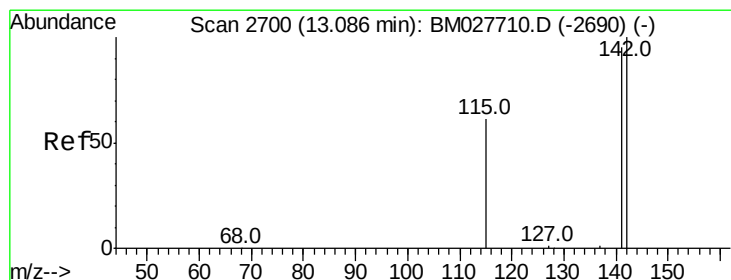
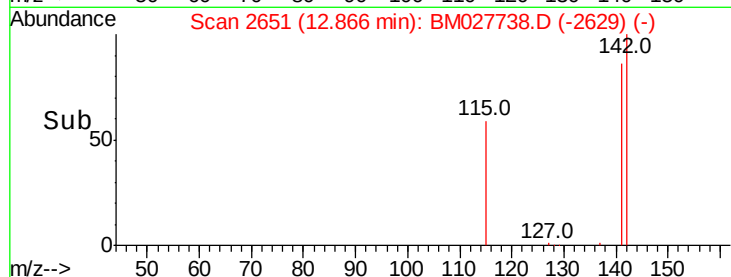
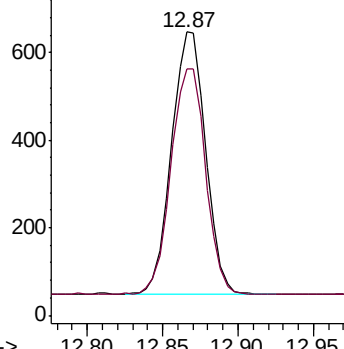
142 100

141 87.3 71.2 106.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#8

1-Methylnaphthalene

Concen: 0.393 ng/ul

RT: 13.08 min Scan# 2699

Delta R.T. -0.00 min

Lab File: BM027738.D

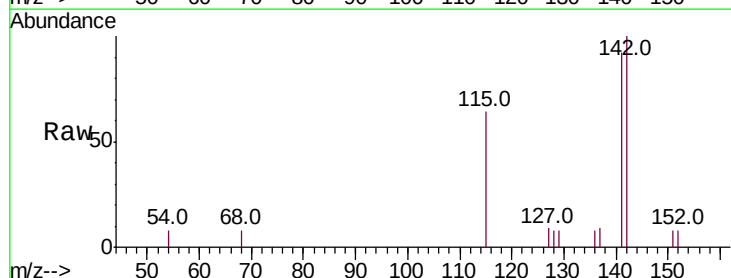
Acq: 07 Nov 2020 00:56

Tgt Ion:142 Resp: 865

Ion Ratio Lower Upper

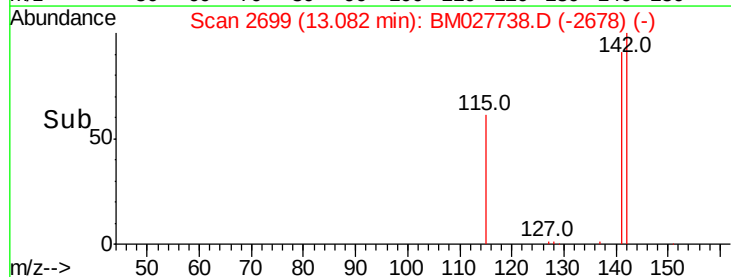
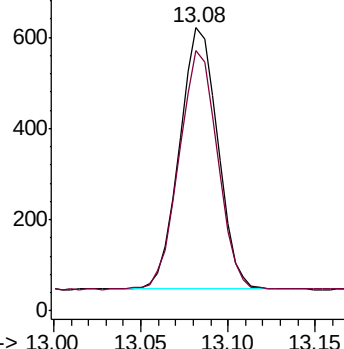
142 100

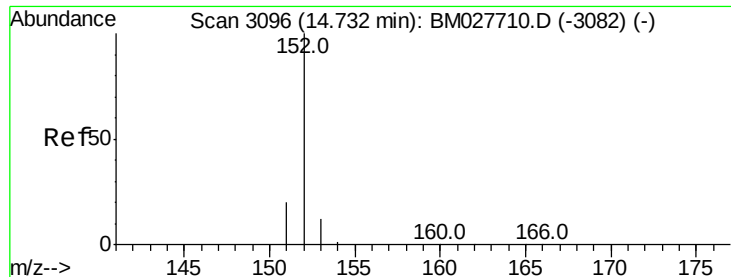
141 92.8 74.1 111.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#10

Acenaphthylene

Concen: 0.408 ng/ul

RT: 14.73 min Scan# 3096

Delta R.T. -0.00 min

Lab File: BM027738.D

Acq: 07 Nov 2020 00:56

Instrument :

BNA\_M

ClientSampleId :

SSTD0.4101

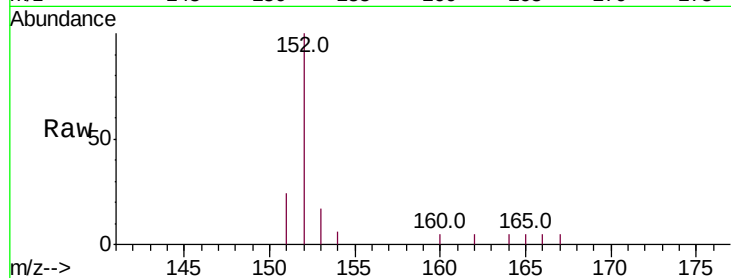
Tot Ion:152 Resp: 1261

Ion Ratio Lower Upper

152 100

151 23.6 17.8 26.8

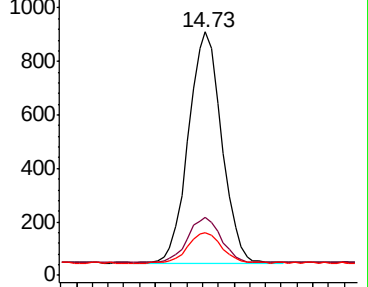
153 17.3 13.5 20.3



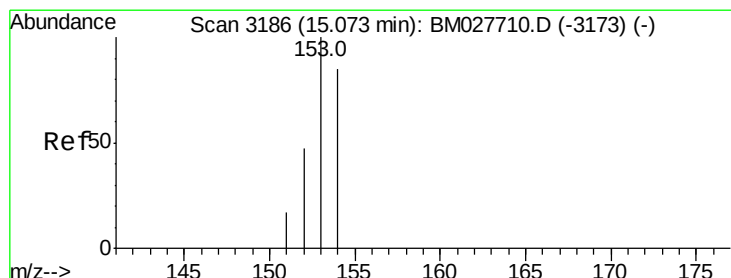
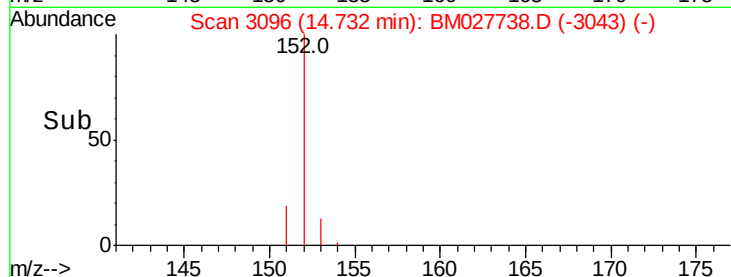
Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



Time-->



#11

Acenaphthene

Concen: 0.414 ng/ul

RT: 15.07 min Scan# 3185

Delta R.T. -0.00 min

Lab File: BM027738.D

Acq: 07 Nov 2020 00:56

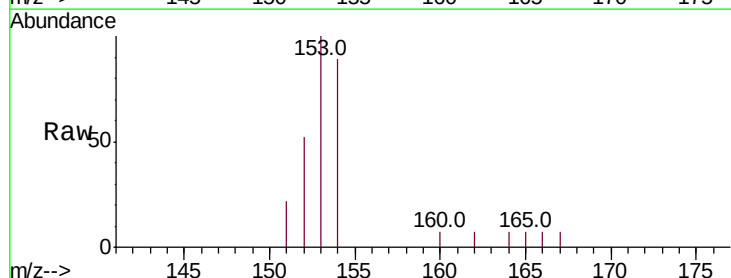
Tgt Ion:153 Resp: 973

Ion Ratio Lower Upper

153 100

152 52.0 40.6 60.8

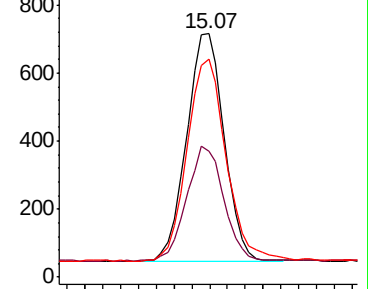
154 89.4 71.0 106.4



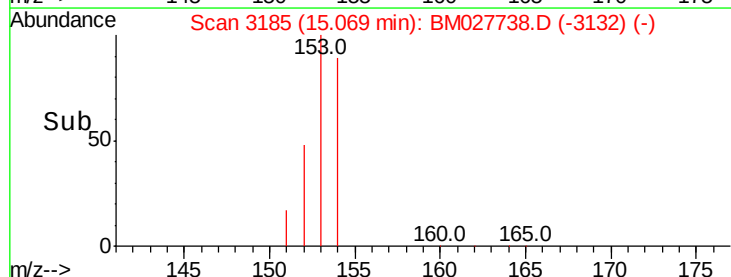
Abundance Ion 153.00 (152.70 to 153.70): E

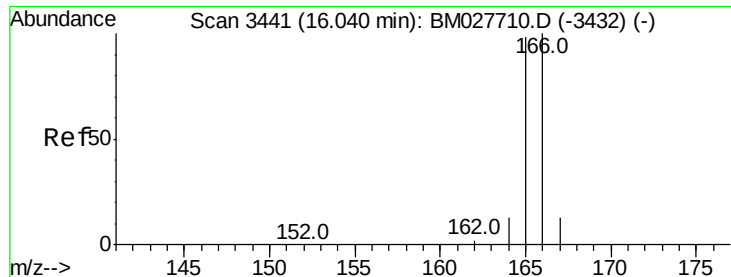
Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



Time-->





#12

Fluorene

Concen: 0.412 ng/ul

RT: 16.04 min Scan# 3441

Delta R.T. -0.00 min

Lab File: BM027738.D

Acq: 07 Nov 2020 00:56

Instrument :

BNA\_M

ClientSampleId :

SSTD0.4101

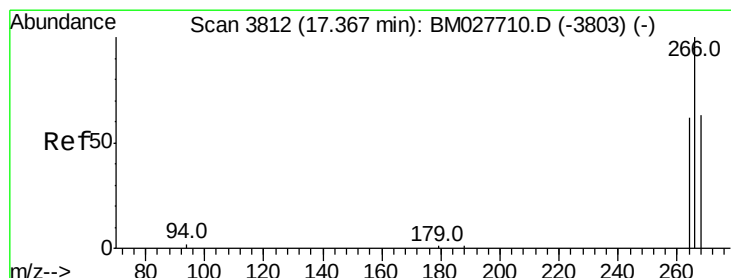
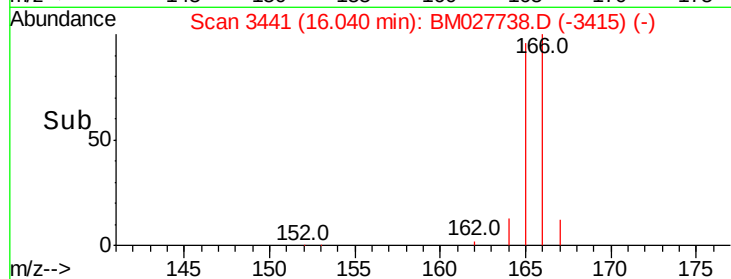
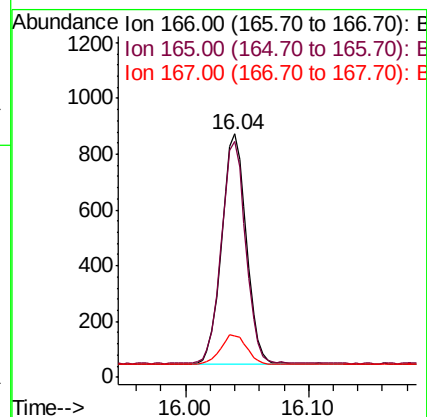
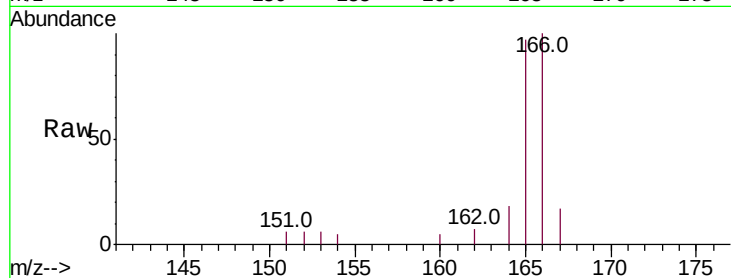
Tot Ion:166 Resp: 1145

Ion Ratio Lower Upper

166 100

165 96.8 76.2 114.4

167 17.1 13.7 20.5



#14

Pentachlorophenol

Concen: 0.463 ng/ul

RT: 17.36 min Scan# 3811

Delta R.T. -0.00 min

Lab File: BM027738.D

Acq: 07 Nov 2020 00:56

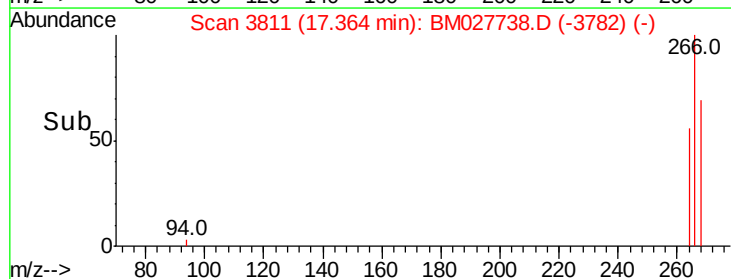
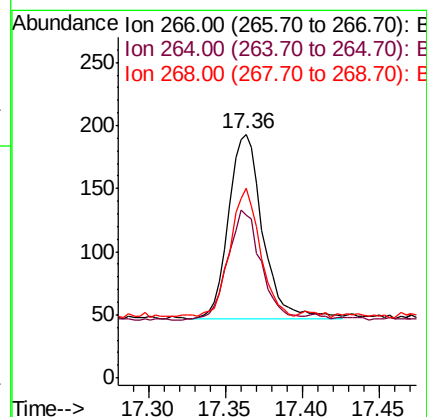
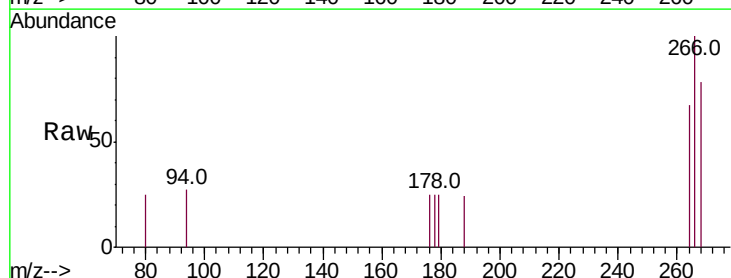
Tgt Ion:266 Resp: 226

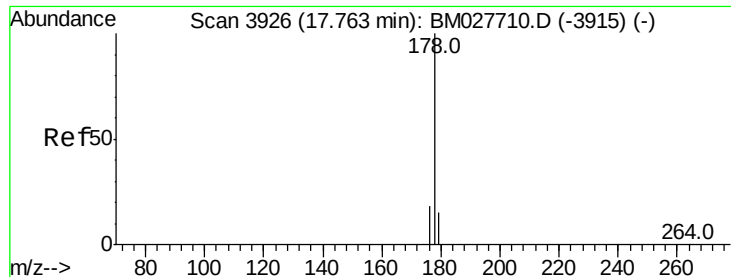
Ion Ratio Lower Upper

266 100

264 58.0 48.2 72.4

268 60.6 53.4 80.0





#15

Phenanthrene

Concen: 0.419 ng/ul

RT: 17.76 min Scan# 3926

Delta R.T. 0.00 min

Lab File: BM027738.D

Acq: 07 Nov 2020 00:56

Instrument :

BNA\_M

ClientSampleId :

SSTD0.4101

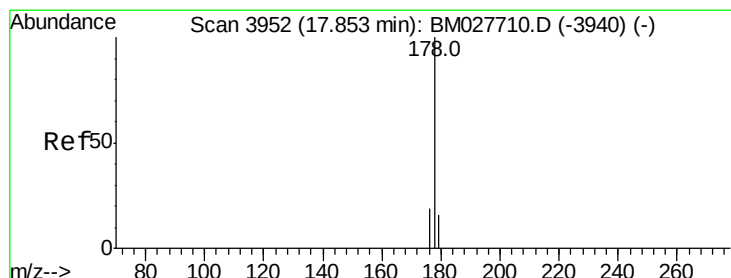
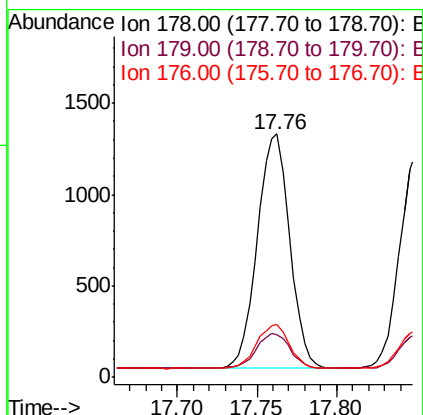
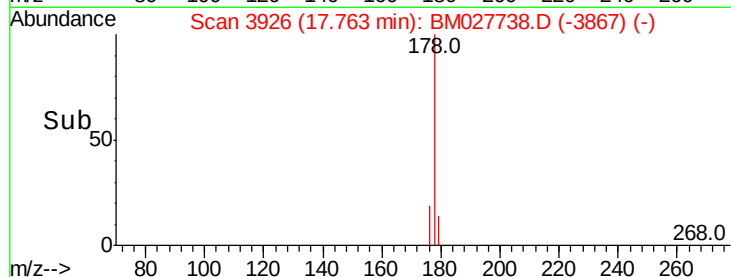
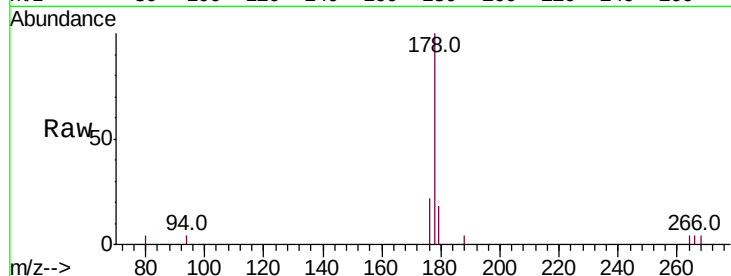
Tot Ion:178 Resp: 1810

Ion Ratio Lower Upper

178 100

179 17.6 14.6 22.0

176 21.8 18.2 27.2



#16

Anthracene

Concen: 0.411 ng/ul

RT: 17.85 min Scan# 3951

Delta R.T. -0.00 min

Lab File: BM027738.D

Acq: 07 Nov 2020 00:56

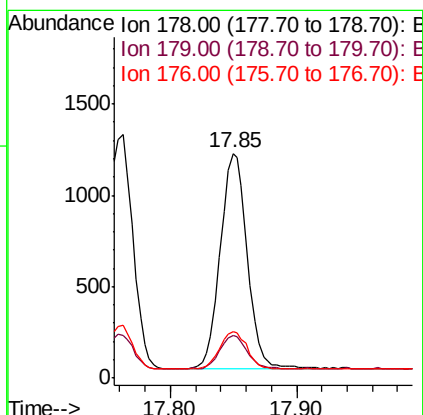
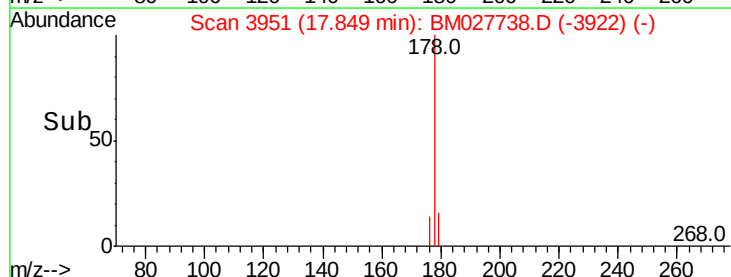
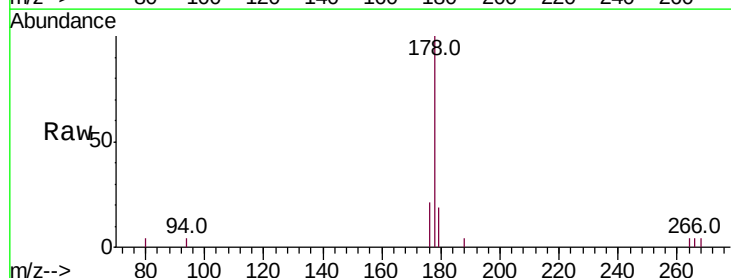
Tgt Ion:178 Resp: 1743

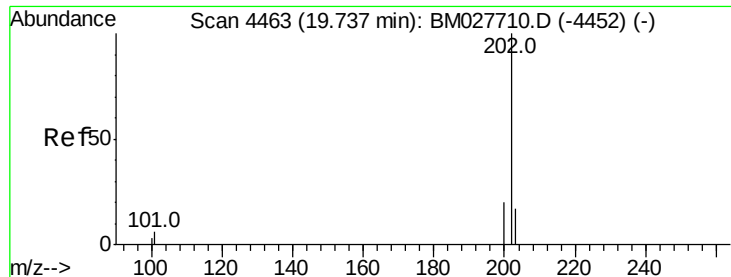
Ion Ratio Lower Upper

178 100

179 19.1 14.1 21.1

176 20.9 16.3 24.5

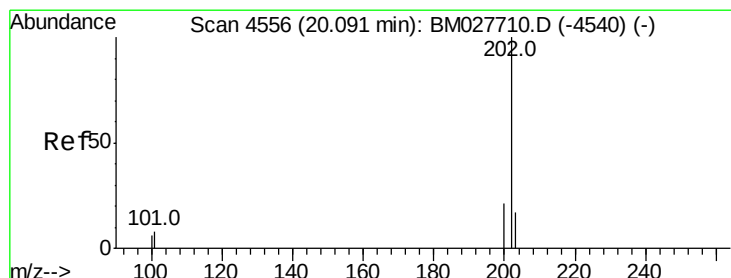
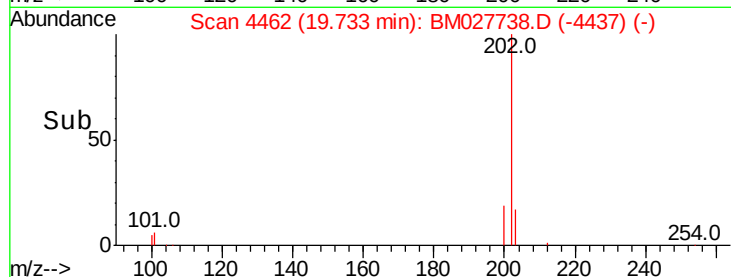
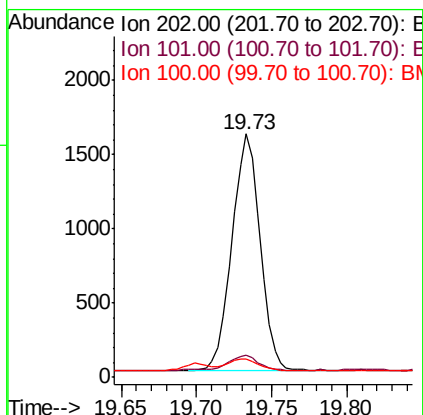
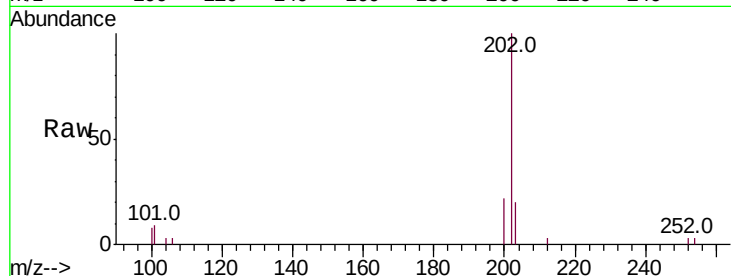




#18  
 Fluoranthene  
 Concen: 0.407 ng/ul  
 RT: 19.73 min Scan# 4462  
 Delta R.T. -0.00 min  
 Lab File: BM027738.D  
 Acq: 07 Nov 2020 00:56

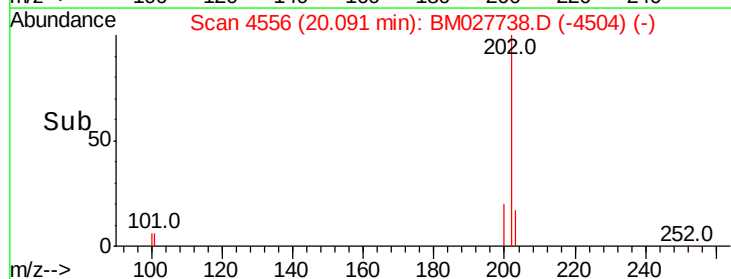
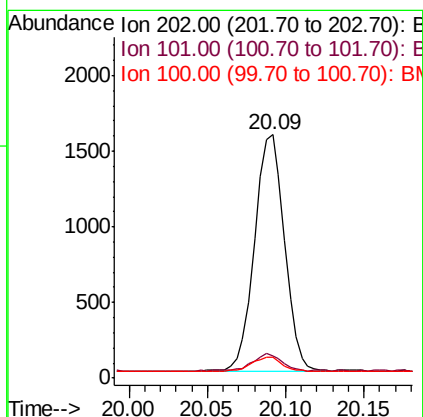
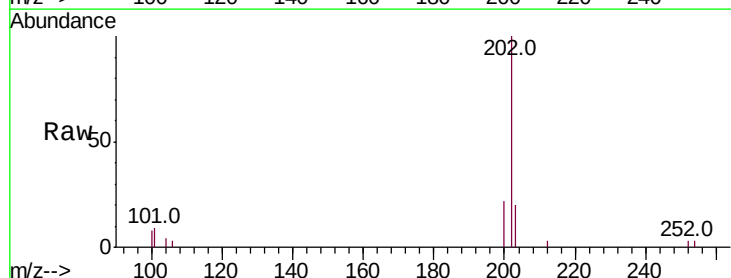
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SST0.4101

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 202   | Resp: | 2054  |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 9.0   | 6.1   | 9.1   |
| 100      | 7.6   | 5.8   | 8.6   |

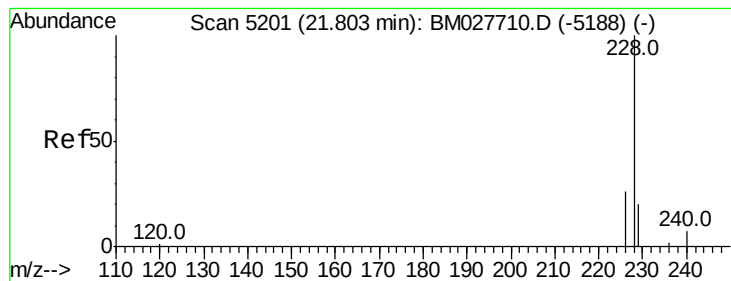


#20  
 Pyrene  
 Concen: 0.422 ng/ul  
 RT: 20.09 min Scan# 4556  
 Delta R.T. -0.00 min  
 Lab File: BM027738.D  
 Acq: 07 Nov 2020 00:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 2073  |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 9.3   | 7.4   | 11.0  |
| 100      | 8.4   | 6.6   | 9.8   |







#21

Benzo(a)anthracene

Concen: 0.417 ng/ul

RT: 21.80 min Scan# 5199

Delta R.T. -0.00 min

Lab File: BM027738.D

Acq: 07 Nov 2020 00:56

Instrument :

BNA\_M

ClientSampleId :

SSTD0.4101

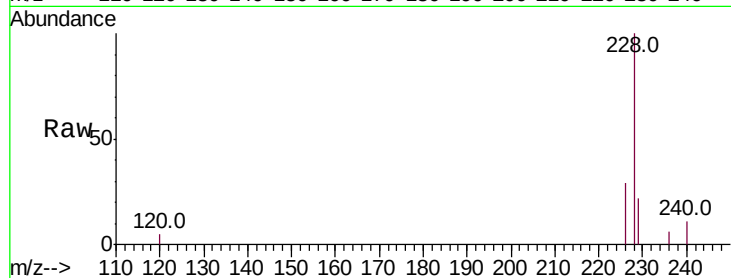
Tot Ion:228 Resp: 1919

Ion Ratio Lower Upper

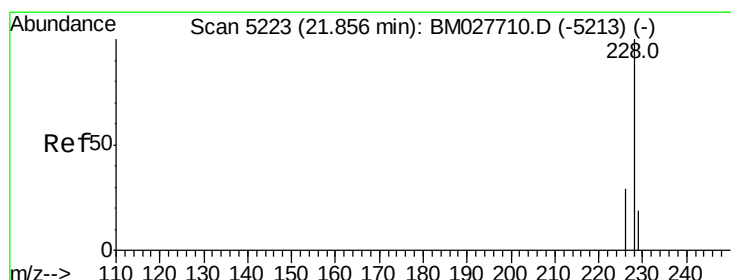
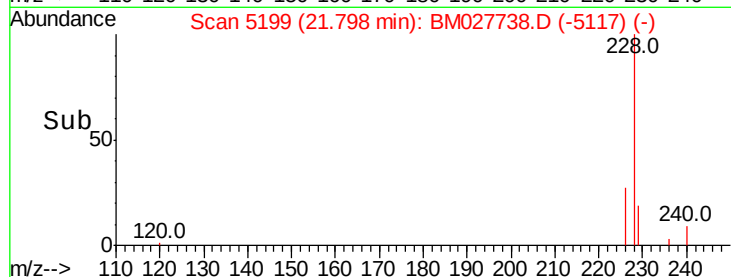
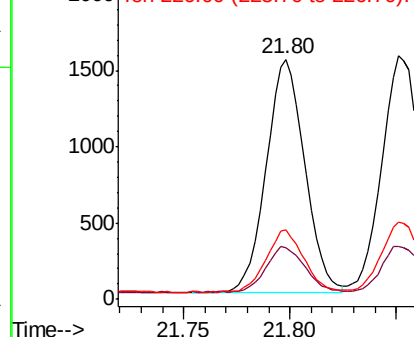
228 100

229 21.7 17.0 25.4

226 29.2 22.0 33.0



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



#22

Chrysene

Concen: 0.418 ng/ul

RT: 21.85 min Scan# 5221

Delta R.T. -0.00 min

Lab File: BM027738.D

Acq: 07 Nov 2020 00:56

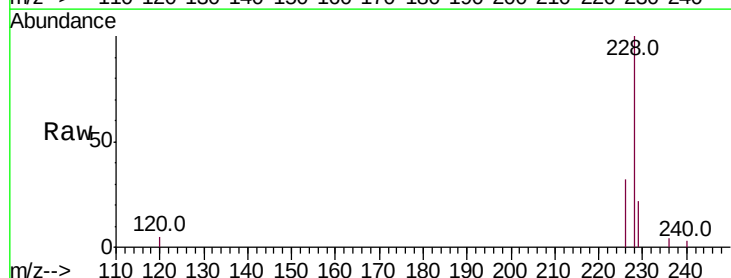
Tgt Ion:228 Resp: 1975

Ion Ratio Lower Upper

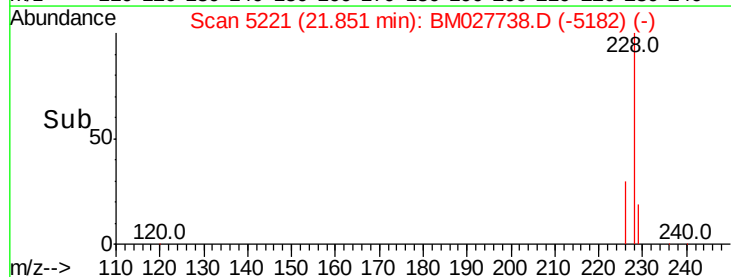
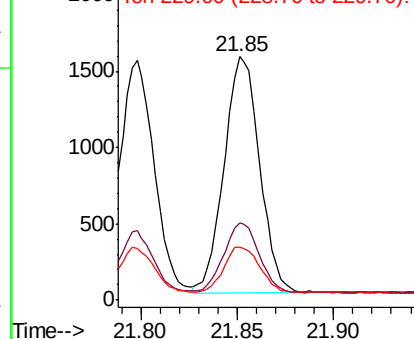
228 100

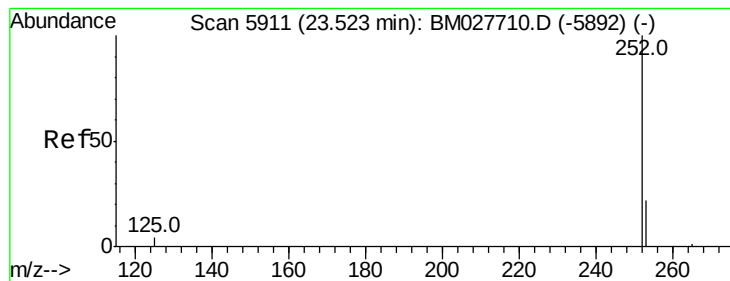
226 31.8 24.0 36.0

229 21.6 16.9 25.3



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





#24

Benzo(b)fluoranthene

Concen: 0.411 ng/ul

RT: 23.51 min Scan# 5907

Delta R.T. -0.00 min

Lab File: BM027738.D

Acq: 07 Nov 2020 00:56

Instrument :

BNA\_M

ClientSampleId :

SSTD0.4101

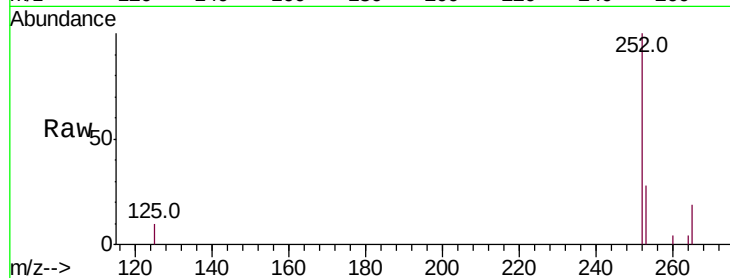
Tot Ion:252 Resp: 1984

Ion Ratio Lower Upper

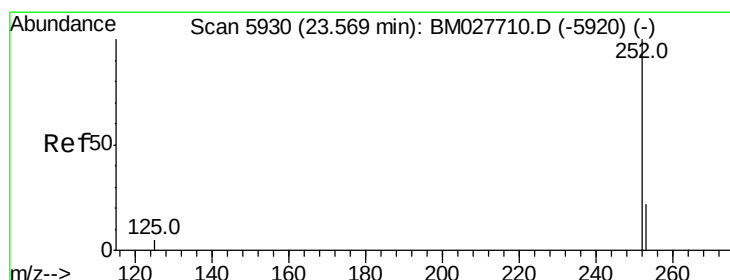
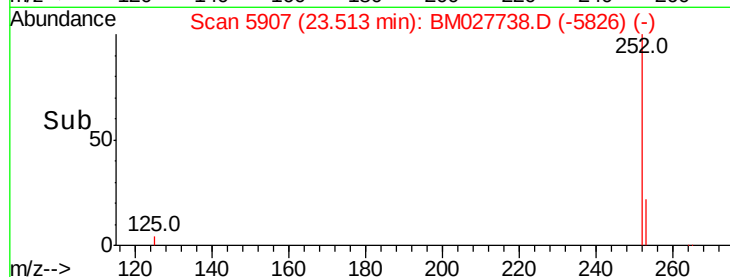
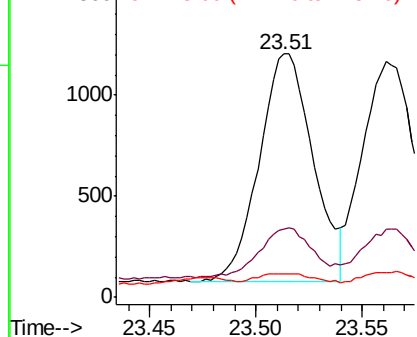
252 100

253 28.0 0.0 53.0

125 9.7 0.0 17.6



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



#25

Benzo(k)fluoranthene

Concen: 0.400 ng/ul

RT: 23.56 min Scan# 5927

Delta R.T. -0.01 min

Lab File: BM027738.D

Acq: 07 Nov 2020 00:56

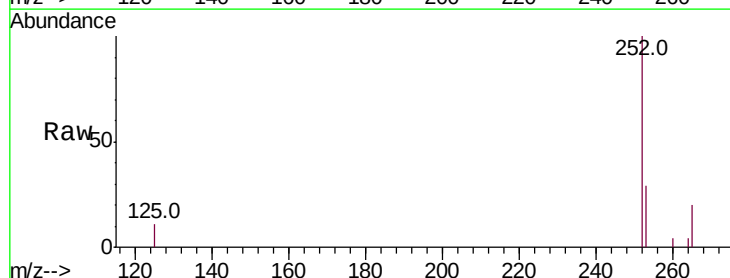
Tgt Ion:252 Resp: 1923

Ion Ratio Lower Upper

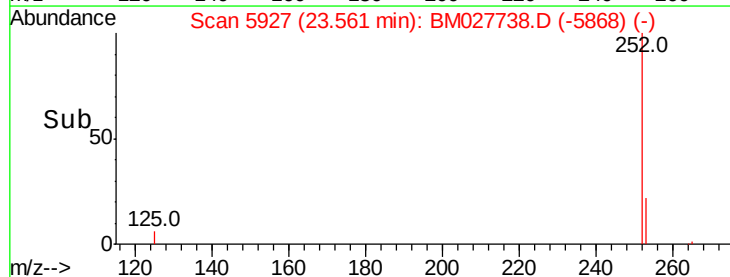
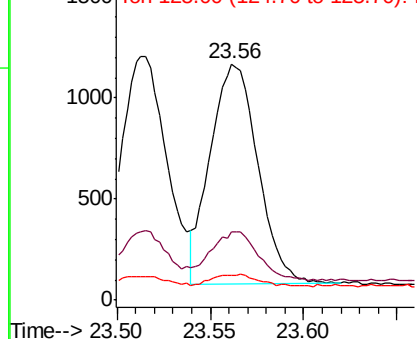
252 100

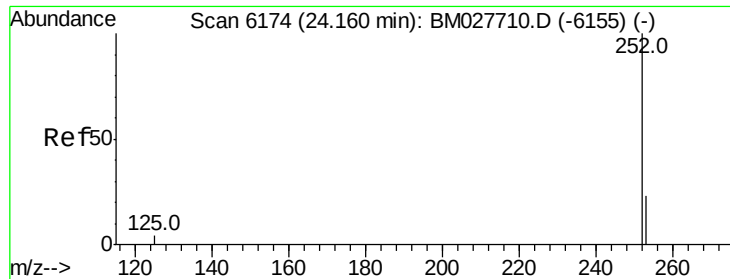
253 28.7 21.4 32.2

125 10.6 7.4 11.0



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





#26

Benzo(a)pyrene

Concen: 0.411 ng/ul

RT: 24.15 min Scan# 6171

Delta R.T. -0.00 min

Lab File: BM027738.D

Acq: 07 Nov 2020 00:56

Instrument :

BNA\_M

ClientSampleId :

SSTD0.4101

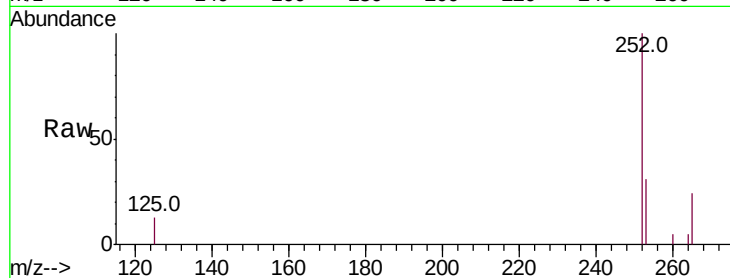
Tot Ion:252 Resp: 1797

Ion Ratio Lower Upper

252 100

253 31.0 22.3 33.5

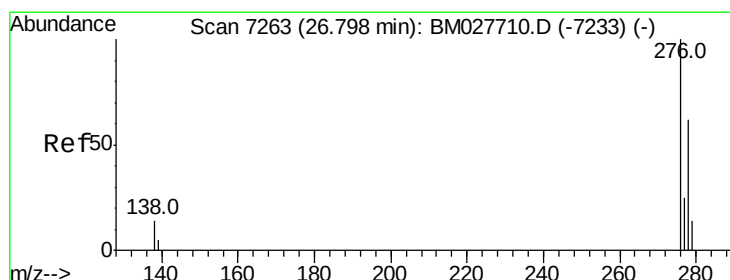
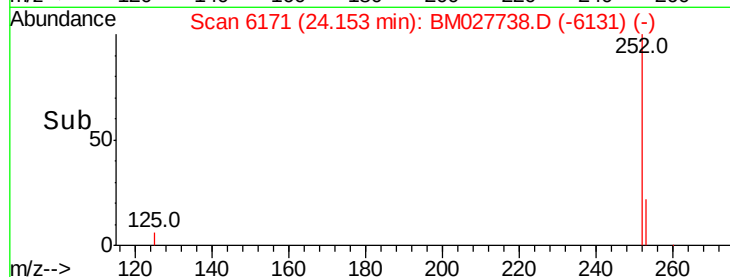
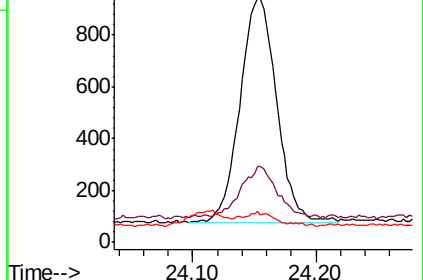
125 12.9 8.8 13.2



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



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.431 ng/ul

RT: 26.79 min Scan# 7261

Delta R.T. -0.00 min

Lab File: BM027738.D

Acq: 07 Nov 2020 00:56

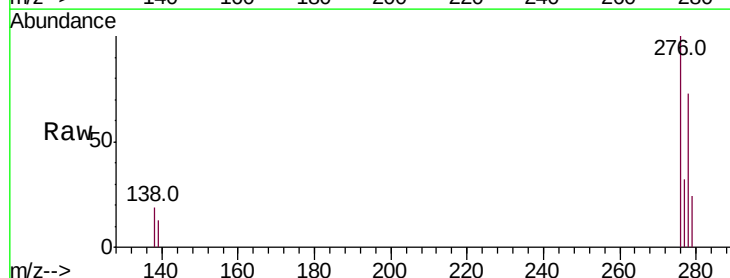
Tgt Ion:276 Resp: 2213

Ion Ratio Lower Upper

276 100

138 13.3 11.0 16.6

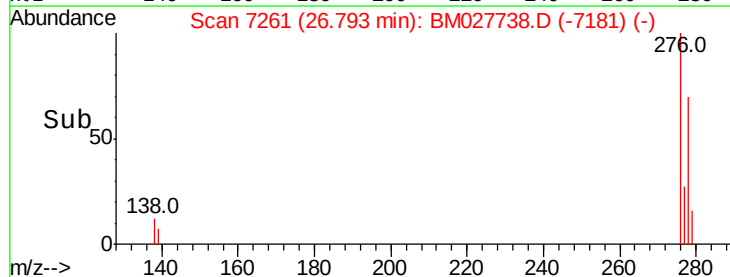
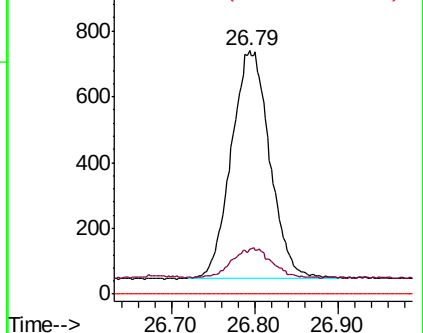
227 0.0 0.0 0.0

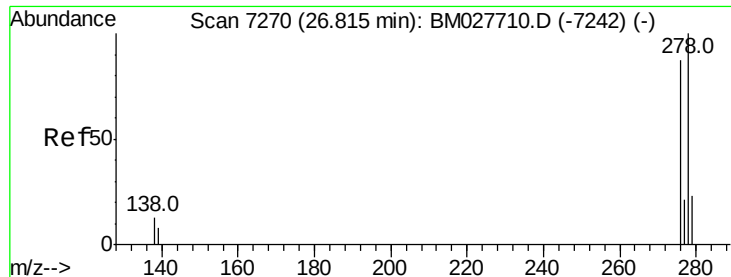


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E





#28

Dibenzo(a,h)anthracene

Concen: 0.434 ng/ul

RT: 26.81 min Scan# 7266

Delta R.T. -0.00 min

Lab File: BM027738.D

Acq: 07 Nov 2020 00:56

Instrument :

BNA\_M

ClientSampleId :

SSTD0.4101

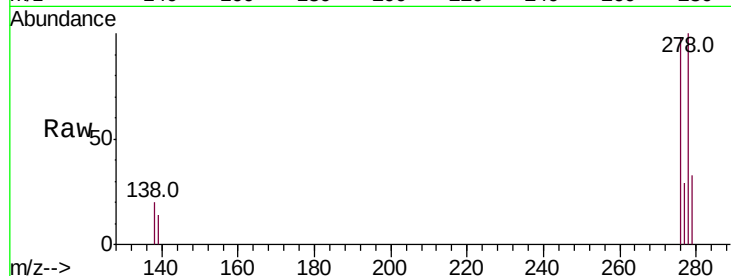
Tot Ion:278 Resp: 1852

Ion Ratio Lower Upper

278 100

139 14.2 12.6 18.8

279 32.5 24.3 36.5



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

26.81

800

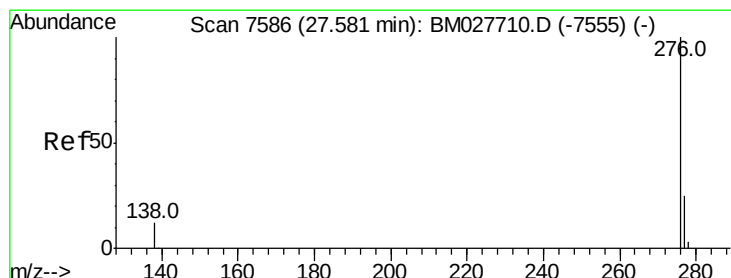
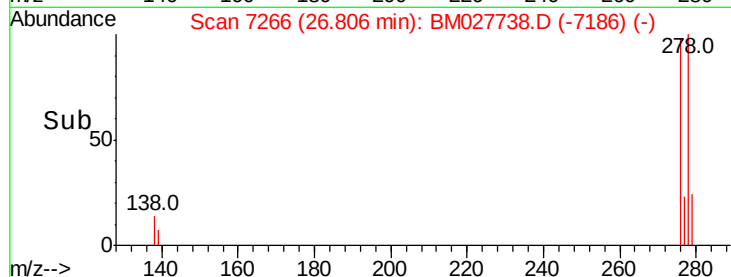
600

400

200

0

Time-->



#29

Benzo(g,h,i)perylene

Concen: 0.444 ng/ul

RT: 27.58 min Scan# 7585

Delta R.T. -0.00 min

Lab File: BM027738.D

Acq: 07 Nov 2020 00:56

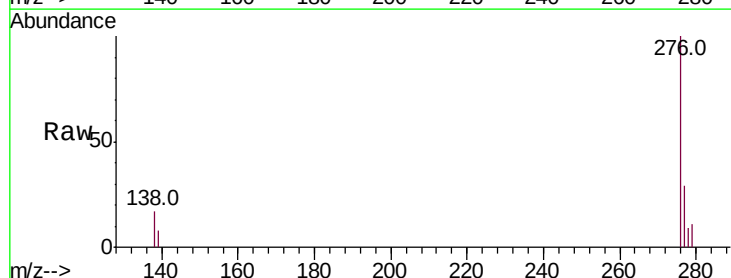
Tgt Ion:276 Resp: 1918

Ion Ratio Lower Upper

276 100

138 16.6 15.0 22.4

277 29.3 24.2 36.2



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

27.58

800

600

400

200

0

Time-->

