

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN062419\  
 Data File : BN006557.D  
 Acq On : 25 Jun 2019 06:25  
 Operator : HP/JU  
 Sample : K3388-04MS  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4216MS

Quant Time: Jun 25 07:12:08 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 : Tue Jun 25 01:51:13 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.63  | 152  | 5564     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.41 | 136  | 20831    | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.28 | 164  | 10299    | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.04 | 188  | 20509    | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.26 | 240  | 11446    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.48 | 264  | 12444    | 0.40 | ng/ul | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.01 | 152  | 4194     | 0.13 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 19.08 | 212  | 7891     | 0.14 | ng/ul | 0.00     |

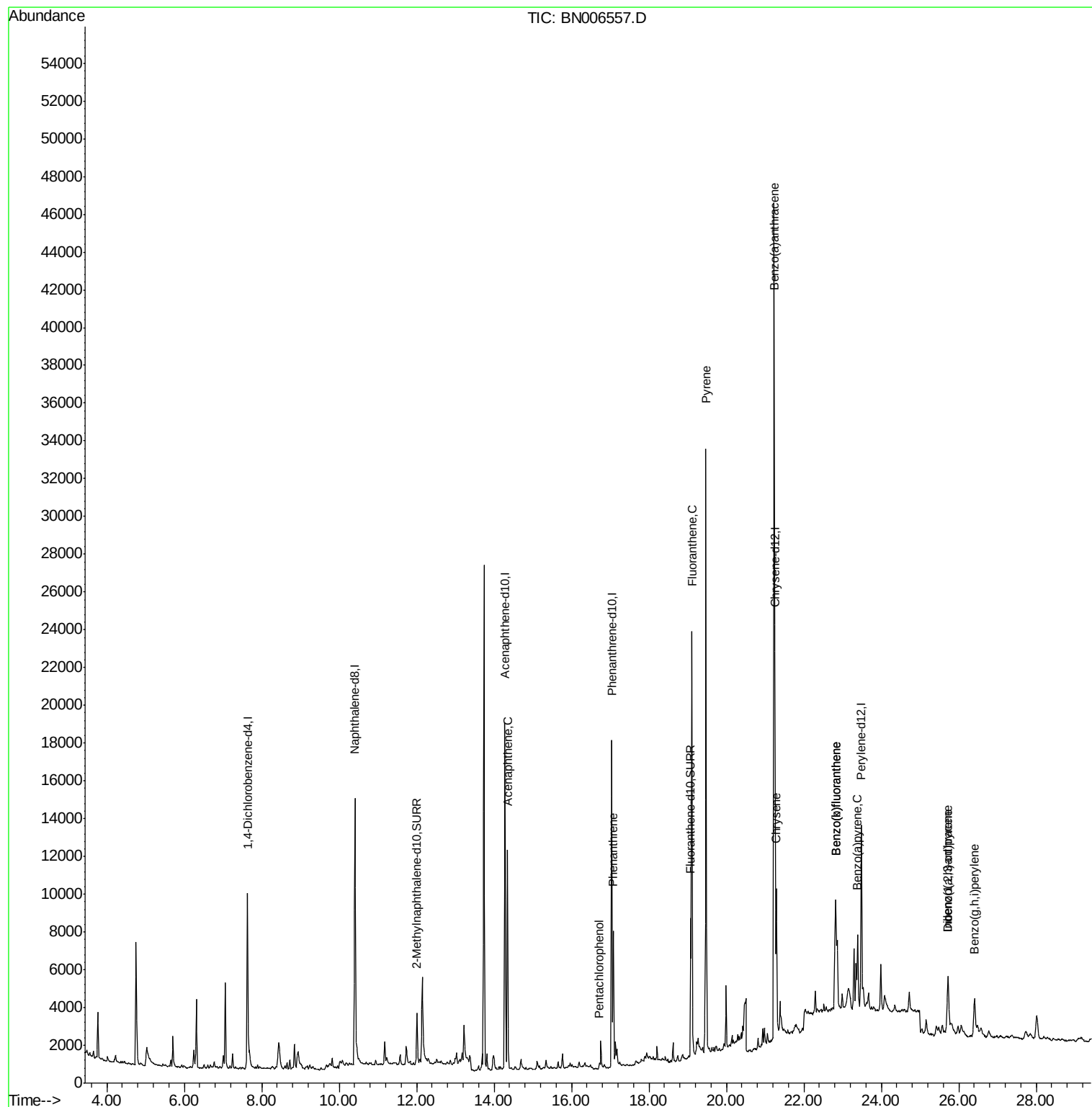
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 8) Acenaphthene            | 14.34 | 153  | 6477     | 0.163 | ng/ul  | 99     |
| 11) Pentachlorophenol      | 16.72 | 266  | 407      | 0.078 | ng/ul  | 97     |
| 12) Phenanthrene           | 17.08 | 178  | 7547     | 0.115 | ng/ul  | 97     |
| 15) Fluoranthene           | 19.11 | 202  | 18727    | 0.258 | ng/ul  | 96     |
| 17) Pyrene                 | 19.47 | 202  | 27107    | 0.450 | ng/ul  | 99     |
| 18) Benzo(a)anthracene     | 21.24 | 228  | 5365     | 0.106 | ng/ul# | 84     |
| 19) Chrysene               | 21.29 | 228  | 7292     | 0.153 | ng/ul# | 87     |
| 21) Benzo(b)fluoranthene   | 22.82 | 252  | 12984    | 0.250 | ng/ul  | 78     |
| 22) Benzo(k)fluoranthene   | 22.82 | 252  | 12950    | 0.256 | ng/ul# | 75     |
| 23) Benzo(a)pyrene         | 23.39 | 252  | 5548     | 0.115 | ng/ul# | 73     |
| 24) Indeno(1,2,3-cd)pyrene | 25.72 | 276  | 4764     | 0.091 | ng/ul# | 84     |
| 25) Dibenzo(a,h)anthracene | 25.72 | 278  | 1144     | 0.027 | ng/ul# | 1      |
| 26) Benzo(g,h,i)perylene   | 26.41 | 276  | 4293     | 0.098 | ng/ul# | 73     |

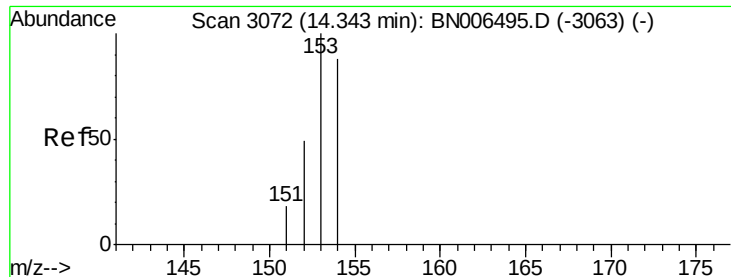
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#8

Acenaphthene

Concen: 0.163 ng/ul

RT: 14.34 min Scan# 3072

Delta R.T. 0.00 min

Lab File: BN006557.D

Acq: 25 Jun 2019 06:25

Instrument :

BNA\_N

ClientSampleId :

A4216MS

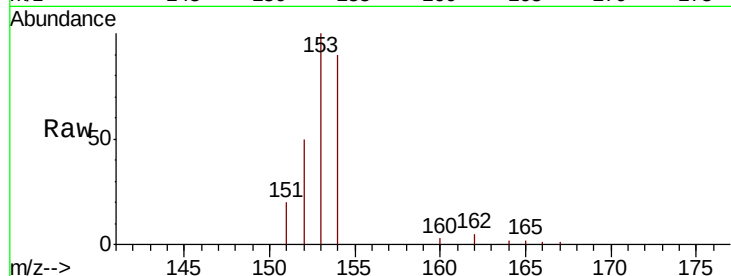
Tgt Ion:153 Resp: 6477

Ion Ratio Lower Upper

153 100

152 49.7 39.1 58.7

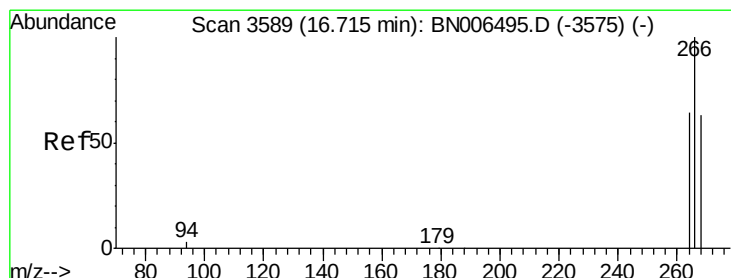
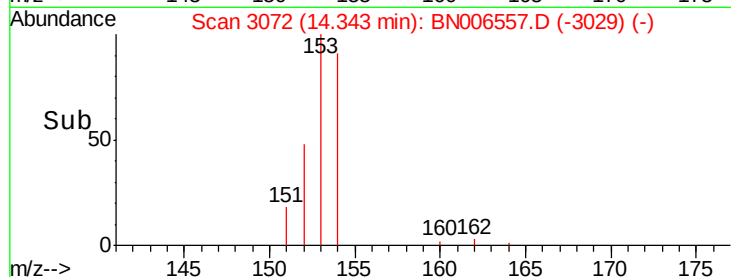
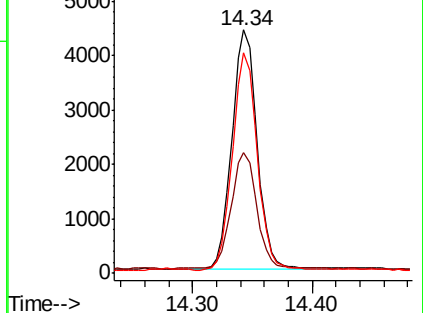
154 90.5 71.1 106.7



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



#11

Pentachlorophenol

Concen: 0.078 ng/ul

RT: 16.72 min Scan# 3590

Delta R.T. 0.00 min

Lab File: BN006557.D

Acq: 25 Jun 2019 06:25

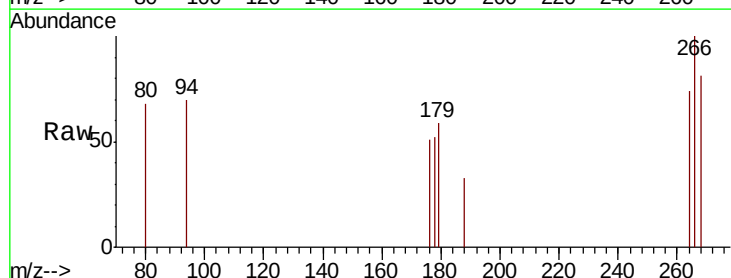
Tgt Ion:266 Resp: 407

Ion Ratio Lower Upper

266 100

264 58.7 50.3 75.5

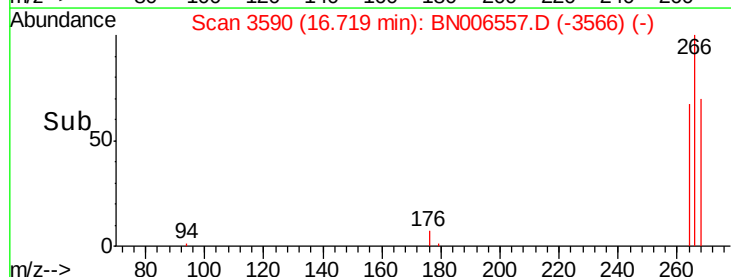
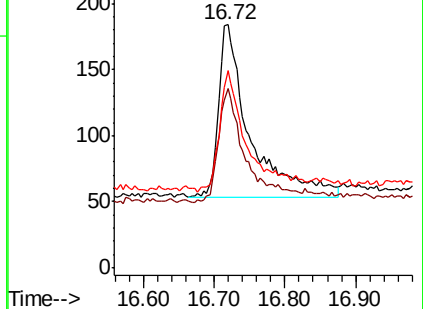
268 63.9 51.3 76.9

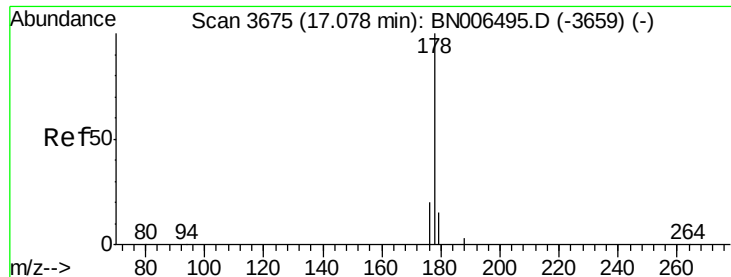


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#12

Phenanthrene

Concen: 0.115 ng/ul

RT: 17.08 min Scan# 3675

Delta R.T. -0.00 min

Lab File: BN006557.D

Acq: 25 Jun 2019 06:25

Instrument :

BNA\_N

ClientSampleId :

A4216MS

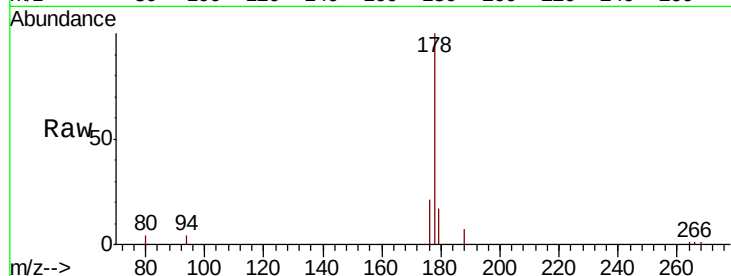
Tgt Ion:178 Resp: 7547

Ion Ratio Lower Upper

178 100

179 16.9 12.3 18.5

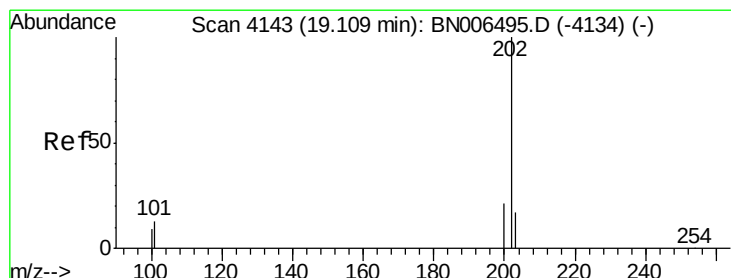
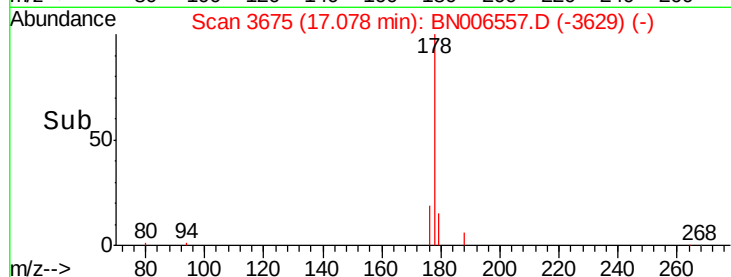
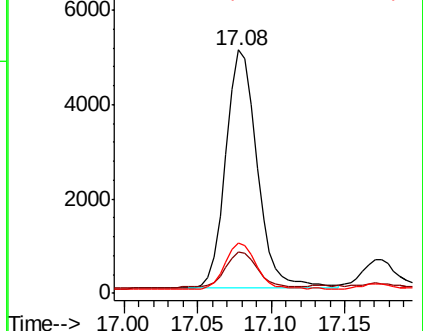
176 20.6 15.3 22.9



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: 0.258 ng/ul

RT: 19.11 min Scan# 4143

Delta R.T. 0.00 min

Lab File: BN006557.D

Acq: 25 Jun 2019 06:25

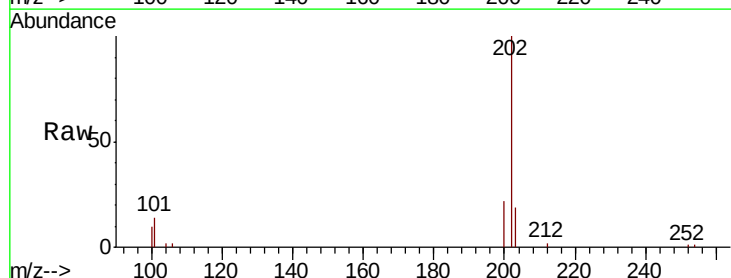
Tgt Ion:202 Resp: 18727

Ion Ratio Lower Upper

202 100

101 13.7 0.0 32.1

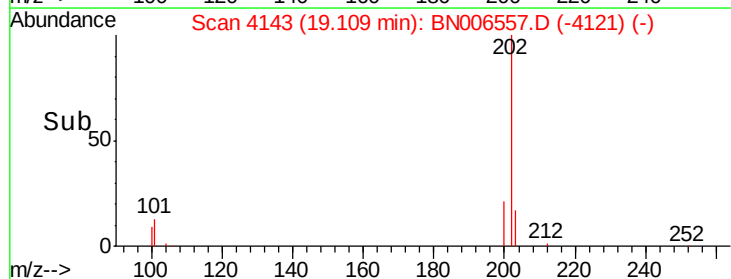
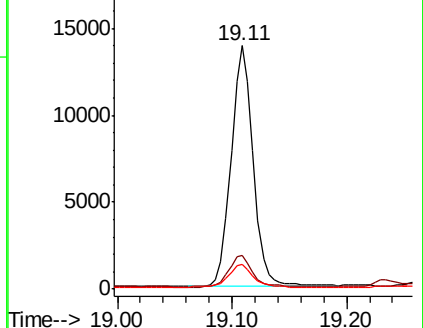
100 10.0 0.0 28.7

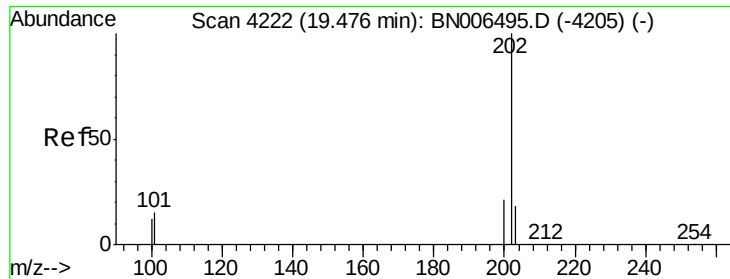


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

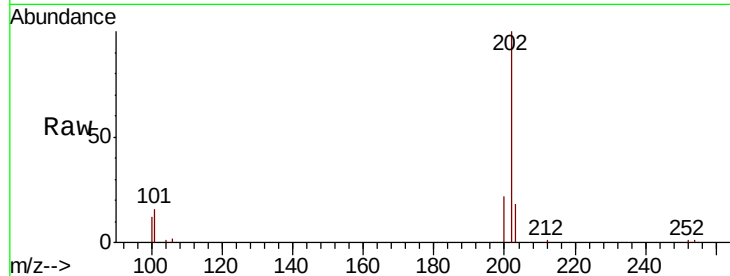




#17  
**Pyrene**  
 Concen: 0.450 ng/ul  
 RT: 19.47 min Scan# 4221  
 Delta R.T. -0.01 min  
 Lab File: BN006557.D  
 Acq: 25 Jun 2019 06:25

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4216MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 15.8  | 12.2  | 18.2  |
| 100     | 12.3  | 9.8   | 14.6  |

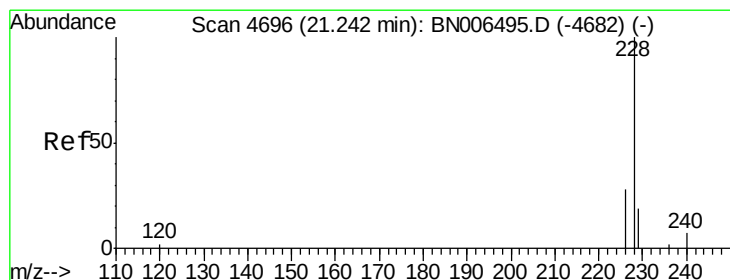
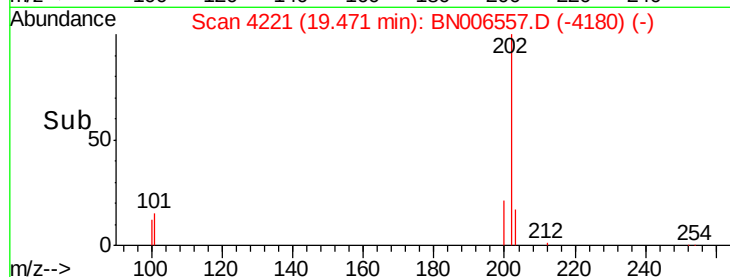
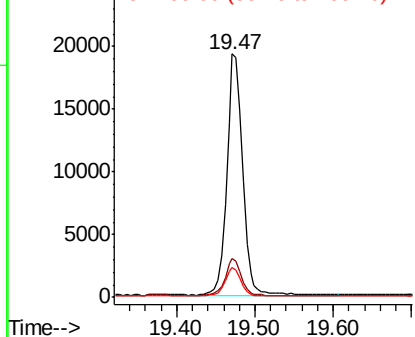


Abundance

Ion 202.00 (201.70 to 202.70): E

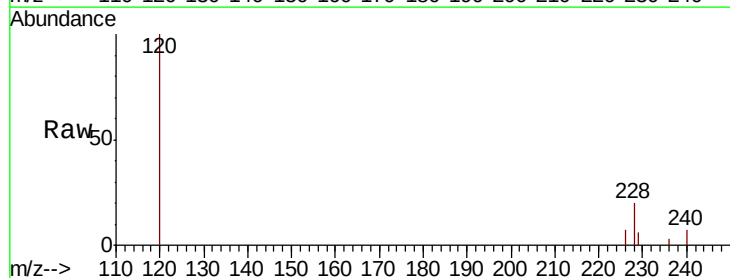
Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#18  
**Benzo(a)anthracene**  
 Concen: 0.106 ng/ul  
 RT: 21.24 min Scan# 4695  
 Delta R.T. -0.01 min  
 Lab File: BN006557.D  
 Acq: 25 Jun 2019 06:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 29.1  | 16.5  | 24.7# |
| 226     | 35.7  | 22.8  | 34.2# |

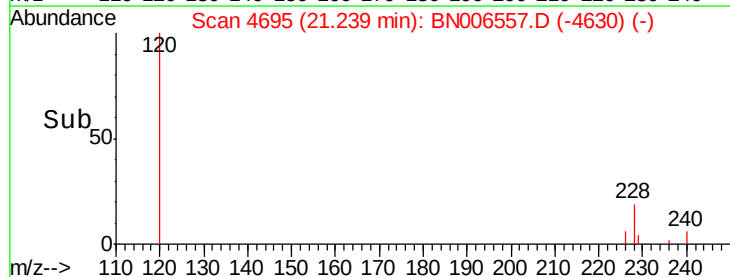
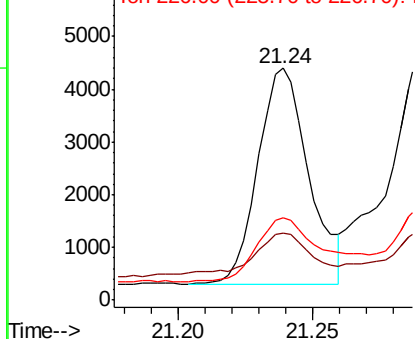


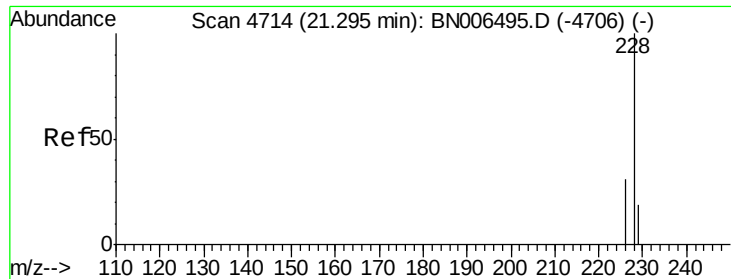
Abundance

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: 0.153 ng/ul

RT: 21.29 min Scan# 4713

Delta R.T. -0.01 min

Lab File: BN006557.D

Acq: 25 Jun 2019 06:25

Instrument :

BNA\_N

ClientSampleId :

A4216MS

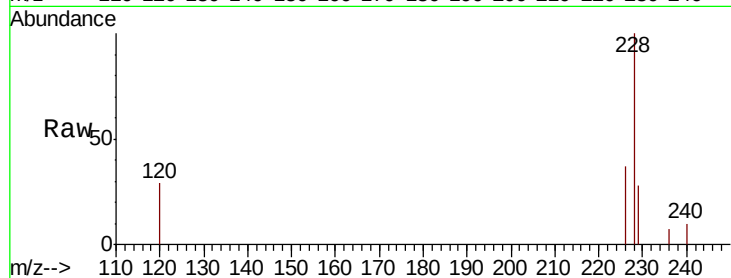
Tgt Ion:228 Resp: 7292

Ion Ratio Lower Upper

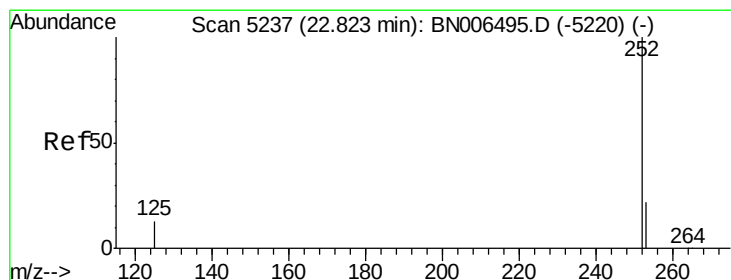
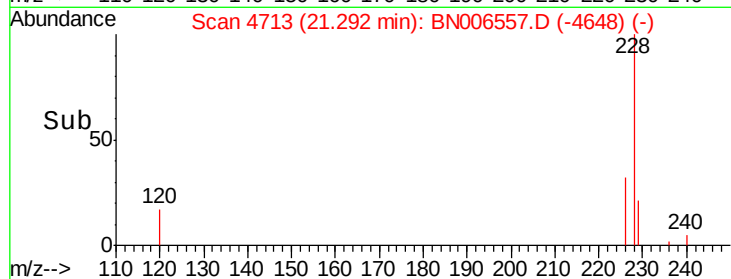
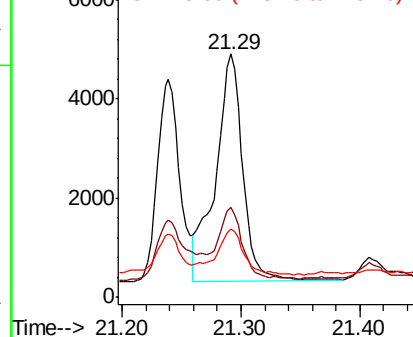
228 100

226 36.7 25.0 37.6

229 28.1 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: 0.250 ng/ul

RT: 22.82 min Scan# 5236

Delta R.T. -0.01 min

Lab File: BN006557.D

Acq: 25 Jun 2019 06:25

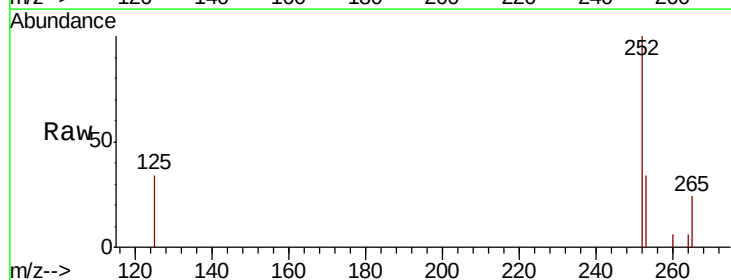
Tgt Ion:252 Resp: 12984

Ion Ratio Lower Upper

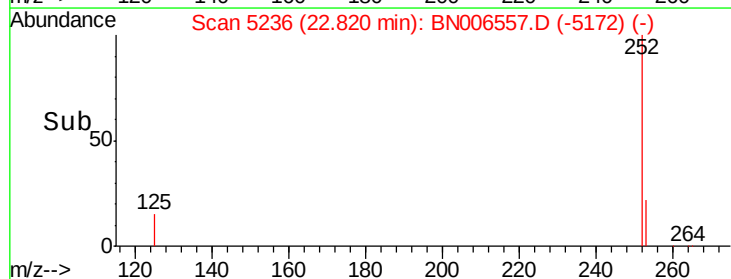
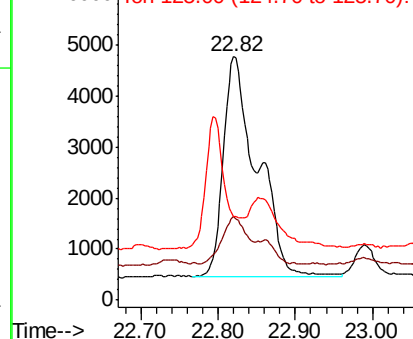
252 100

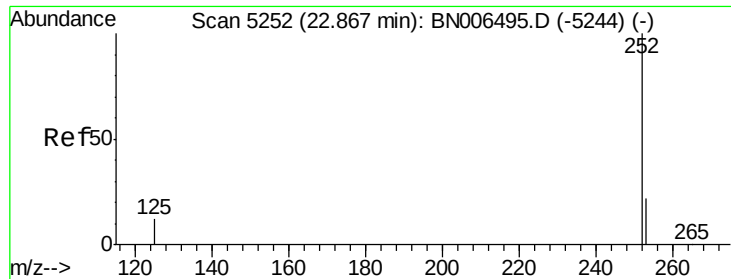
253 34.1 0.0 51.4

125 34.3 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: 0.256 ng/ul

RT: 22.82 min Scan# 5236

Delta R.T. -0.05 min

Lab File: BN006557.D

Acq: 25 Jun 2019 06:25

Instrument :

BNA\_N

ClientSampleId :

A4216MS

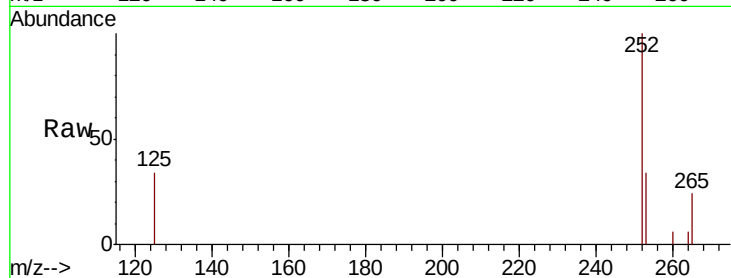
Tgt Ion:252 Resp: 12950

Ion Ratio Lower Upper

252 100

253 34.1 20.3 30.5#

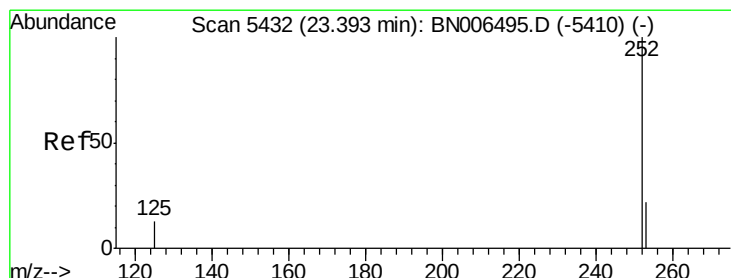
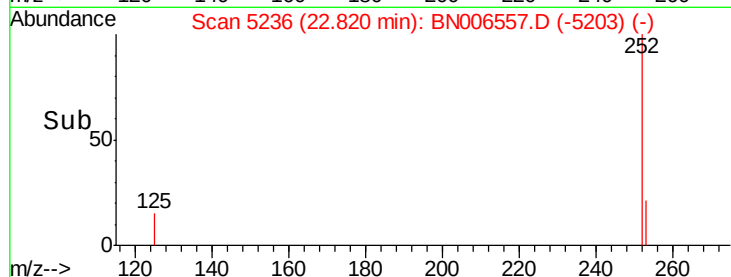
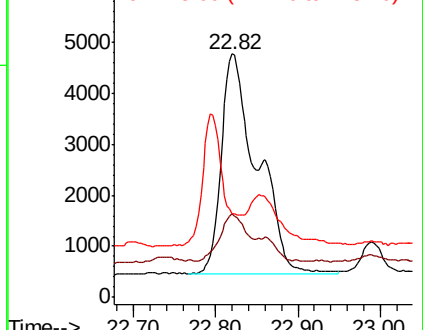
125 34.3 14.3 21.5#



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: 0.115 ng/ul

RT: 23.39 min Scan# 5430

Delta R.T. -0.02 min

Lab File: BN006557.D

Acq: 25 Jun 2019 06:25

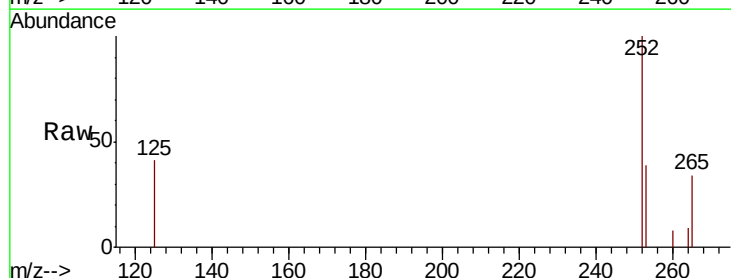
Tgt Ion:252 Resp: 5548

Ion Ratio Lower Upper

252 100

253 38.9 21.1 31.7#

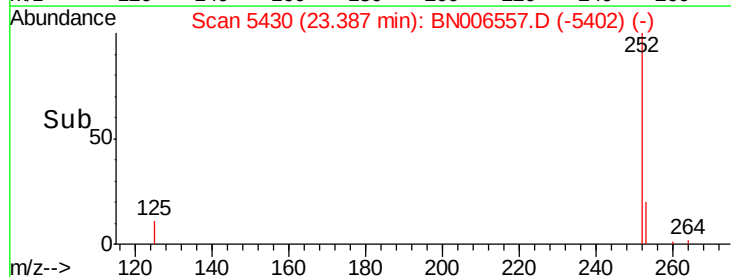
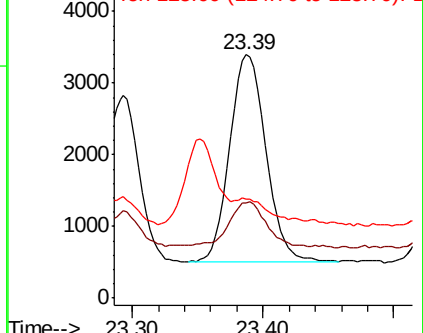
125 40.8 20.3 30.5#

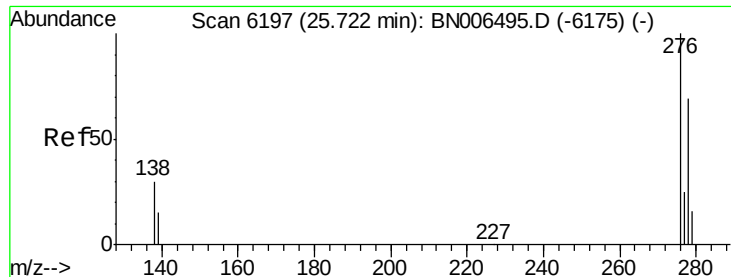


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



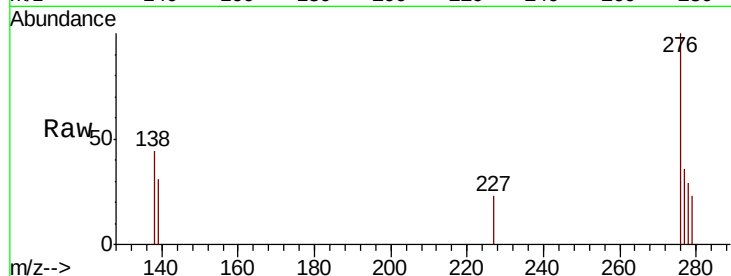


#24

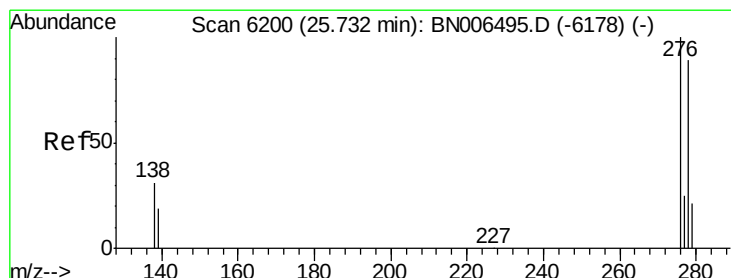
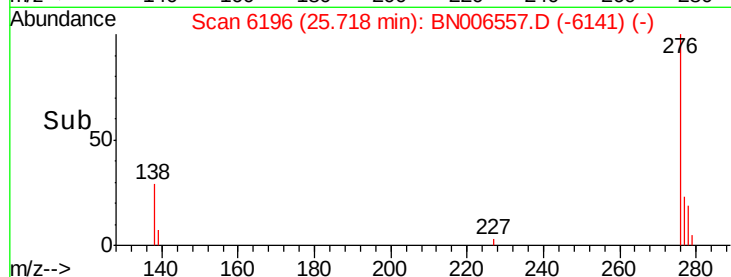
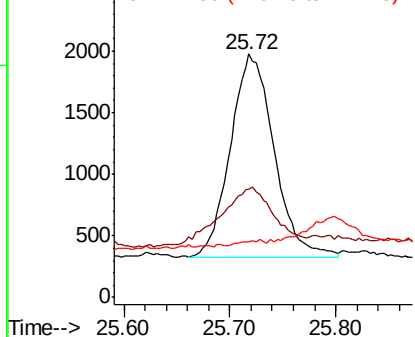
Indeno(1,2,3-cd)pyrene  
Concen: 0.091 ng/ul  
RT: 25.72 min Scan# 6196  
Delta R.T. -0.02 min  
Lab File: BN006557.D  
Acq: 25 Jun 2019 06:25

Instrument :  
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Tgt Ion: 276 Resp: 4764  
Ion Ratio Lower Upper  
276 100  
138 41.0 25.6 38.4#  
227 1.7 0.3 0.5#



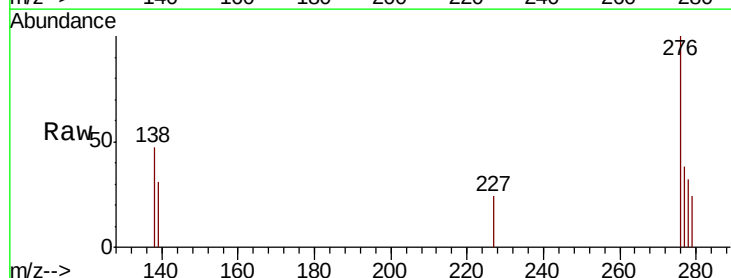
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 227.00 (226.70 to 227.70): E



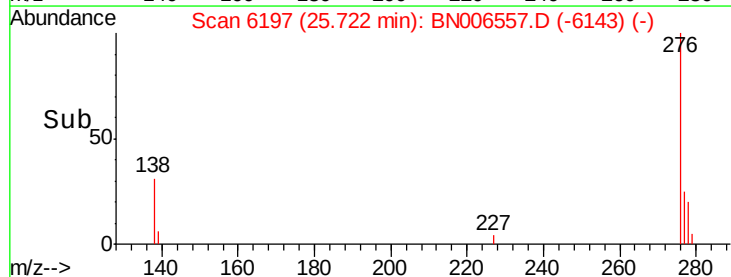
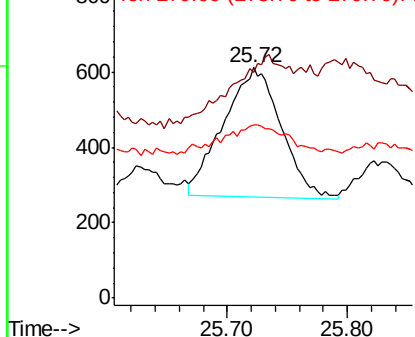
#25

Dibenzo(a,h)anthracene  
Concen: 0.027 ng/ul  
RT: 25.72 min Scan# 6197  
Delta R.T. -0.02 min  
Lab File: BN006557.D  
Acq: 25 Jun 2019 06:25

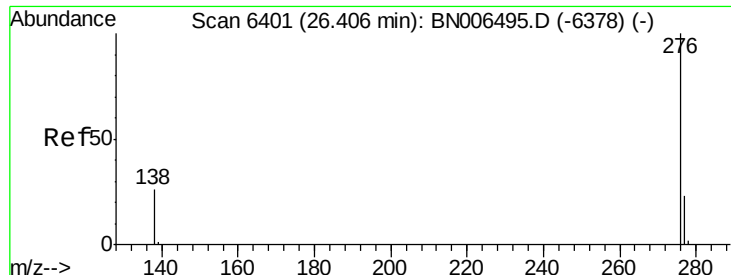
Tgt Ion: 278 Resp: 1144  
Ion Ratio Lower Upper  
278 100  
139 97.9 21.2 31.8#  
279 75.3 22.6 33.8#



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: 0.098 ng/ul

RT: 26.41 min Scan# 6401

Delta R.T. -0.02 min

Lab File: BN006557.D

Acq: 25 Jun 2019 06:25

Instrument :

BNA\_N

ClientSampleId :

A4216MS

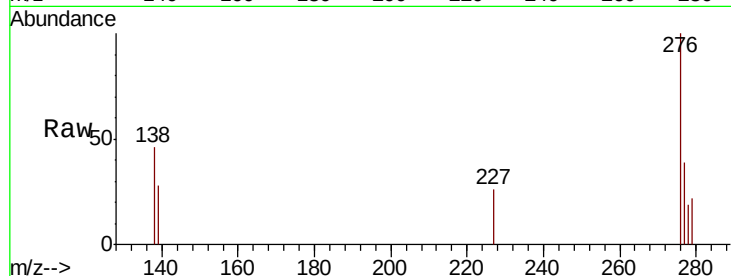
Tgt Ion: 276 Resp: 4293

Ion Ratio Lower Upper

276 100

138 46.2 24.2 36.4#

277 39.0 21.5 32.3#



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

