

Data Path : Z:\HPCHEM1\BNA N\DATA\BN042418\  
 Data File : BN000878.D  
 Acq On : 25 Apr 2018 07:14  
 Operator : JU/SJ  
 Sample : J2444-03  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Apr 25 08:38:43 2018  
 Quant Method : Z:\HPCHEM1\BNA N\METHODS\SOM-EPA-BN042418MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Apr 25 08:30:17 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.62  | 152  | 205506   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.39 | 136  | 906503   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.25 | 164  | 465114   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.00 | 188  | 887701   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 21.20 | 240  | 655754   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 23.39 | 264  | 682859   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 7) Acenaphthylene-d8        | 13.94 | 160  | 816183   | 18.27 | ng/ul | 0.00     |
| 10) Fluorene-d10            | 15.25 | 176  | 562860   | 18.88 | ng/ul | 0.00     |
| 14) Anthracene-d10          | 17.10 | 188  | 754199   | 18.58 | ng/ul | 0.00     |
| 18) Pyrene-d10              | 19.40 | 212  | 696121   | 20.72 | ng/ul | 0.00     |
| 25) Benzo(a)pyrene-d12      | 23.26 | 264  | 655736   | 20.33 | ng/ul | 0.00     |

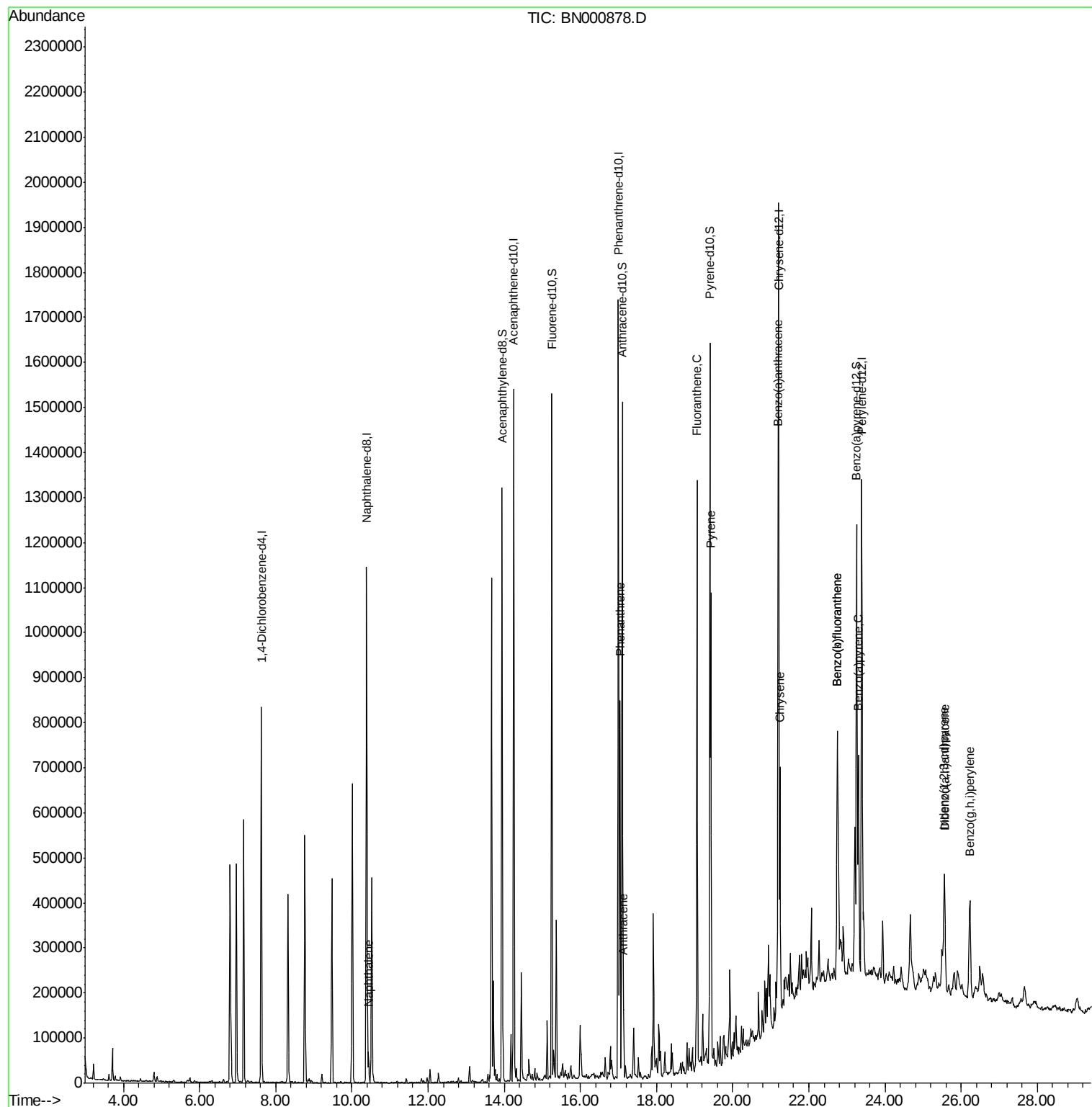
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 3) Naphthalene             | 10.43 | 128  | 54042    | 1.183  | ng/ul  | 99     |
| 13) Phenanthrene           | 17.04 | 178  | 458667   | 9.474  | ng/ul  | 99     |
| 15) Anthracene             | 17.13 | 178  | 92424    | 1.903  | ng/ul  | 99     |
| 16) Fluoranthene           | 19.06 | 202  | 689047   | 14.027 | ng/ul# | 94     |
| 19) Pyrene                 | 19.43 | 202  | 562772   | 13.361 | ng/ul# | 89     |
| 20) Benzo(a)anthracene     | 21.19 | 228  | 278184   | 7.097  | ng/ul  | 97     |
| 21) Chrysene               | 21.24 | 228  | 252422   | 6.851  | ng/ul  | 98     |
| 23) Benzo(b)fluoranthene   | 22.75 | 252  | 531690   | 13.701 | ng/ul# | 98     |
| 24) Benzo(k)fluoranthene   | 22.75 | 252  | 542960   | 14.298 | ng/ul# | 98     |
| 26) Benzo(a)pyrene         | 23.30 | 252  | 284020   | 7.658  | ng/ul# | 94     |
| 27) Indeno(1,2,3-cd)pyrene | 25.56 | 276  | 225071   | 5.024  | ng/ul# | 91     |
| 28) Dibenzo(a,h)anthracene | 25.57 | 278  | 54584    | 1.462  | ng/ul# | 79     |
| 29) Benzo(a,h,i)perylene   | 26.23 | 276  | 229981   | 6.138  | ng/ul# | 93     |

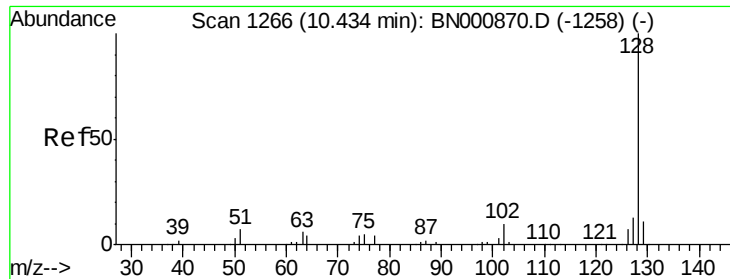
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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Response via : Initial Calibration





#3

Naphthalene

Concen: 1.183 ng/ul

RT: 10.43 min Scan# 1266

Delta R.T. 0.00 min

Lab File: BN000878.D

Acq: 25 Apr 2018 07:14

Instrument :

BNA\_N

ClientSampleId :

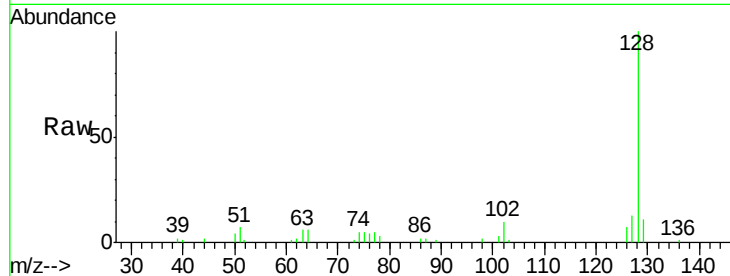
Tot Ion:128 Resp: 54042

Ion Ratio Lower Upper

128 100

129 10.6 8.7 13.1

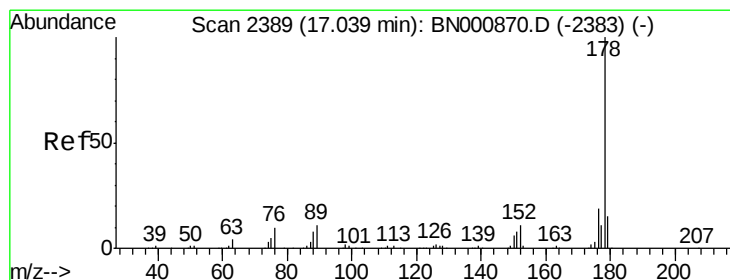
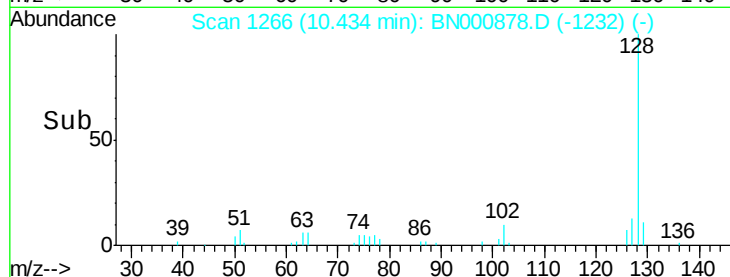
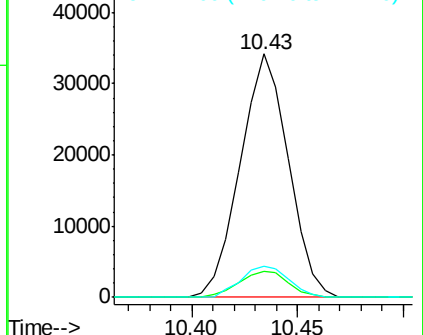
127 12.6 10.6 16.0



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



#13

Phenanthrene

Concen: 9.474 ng/ul

RT: 17.04 min Scan# 2389

Delta R.T. 0.00 min

Lab File: BN000878.D

Acq: 25 Apr 2018 07:14

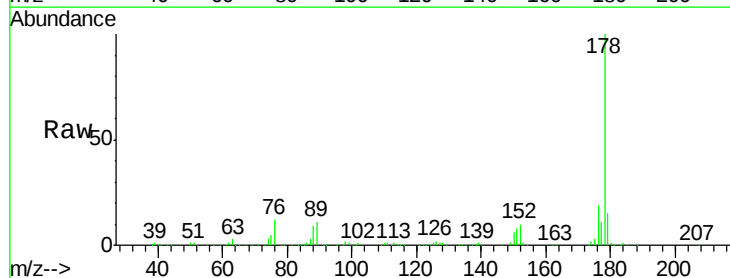
Tgt Ion:178 Resp: 458667

Ion Ratio Lower Upper

178 100

179 15.2 12.3 18.5

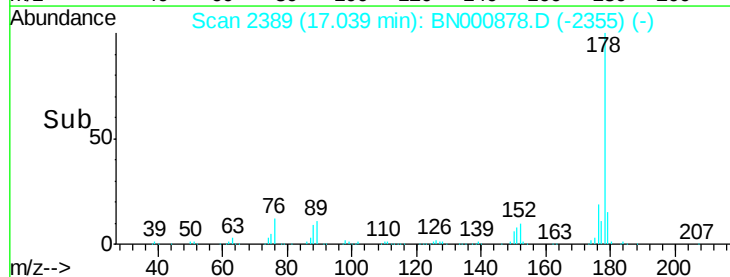
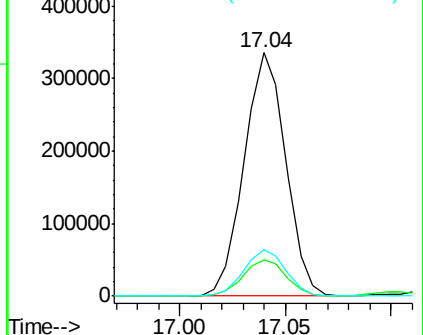
176 19.2 15.1 22.7

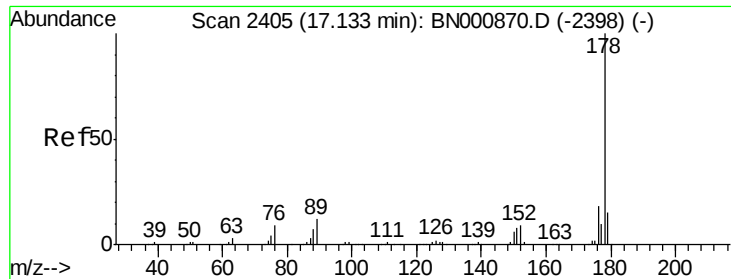


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

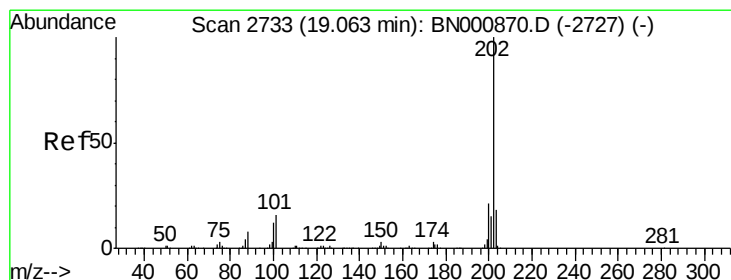
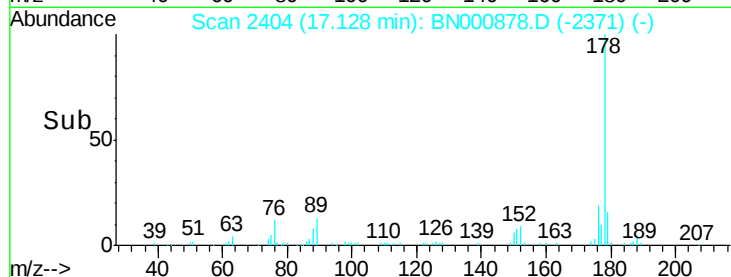
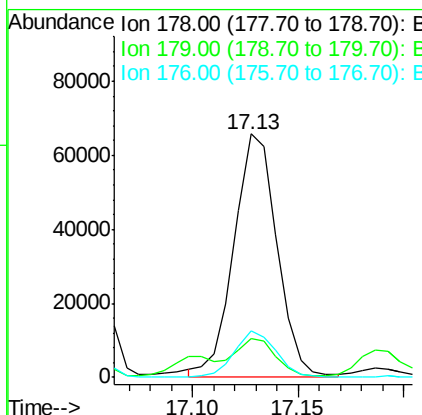
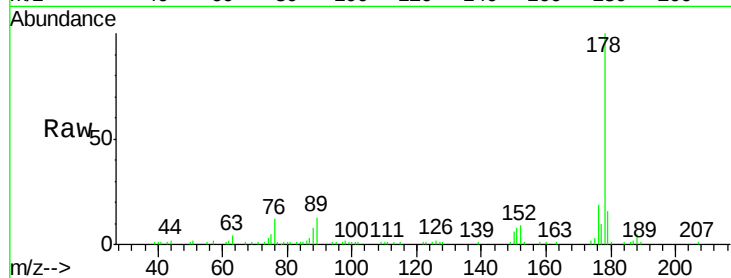




#15  
 Anthracene  
 Concen: 1.903 ng/ul  
 RT: 17.13 min Scan# 2404  
 Delta R.T. -0.01 min  
 Lab File: BN000878.D  
 Acq: 25 Apr 2018 07:14

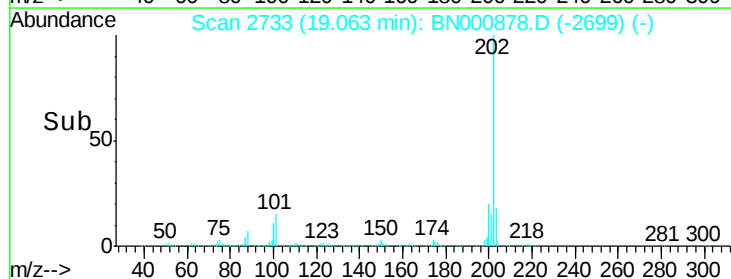
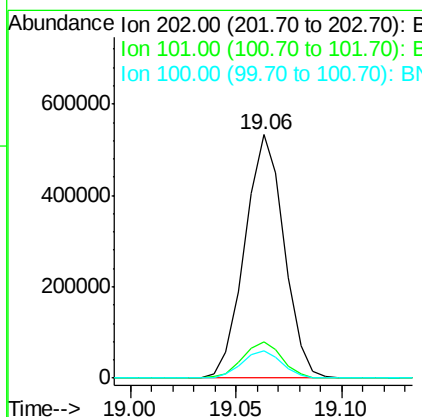
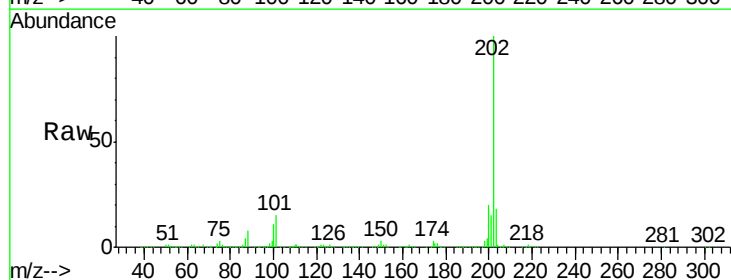
Instrument :  
 BNA\_N  
 ClientSampled :

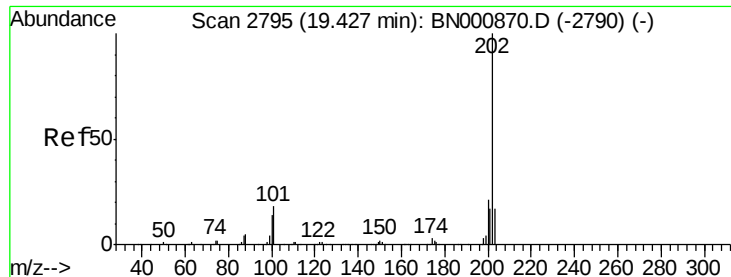
Tot Ion:178 Resp: 92424  
 Ion Ratio Lower Upper  
 178 100  
 179 15.9 11.8 17.8  
 176 19.3 15.2 22.8



#16  
 Fluoranthene  
 Concen: 14.027 ng/ul  
 RT: 19.06 min Scan# 2733  
 Delta R.T. 0.00 min  
 Lab File: BN000878.D  
 Acq: 25 Apr 2018 07:14

Tgt Ion:202 Resp: 689047  
 Ion Ratio Lower Upper  
 202 100  
 101 14.9 9.9 14.9#  
 100 11.2 7.4 11.0#

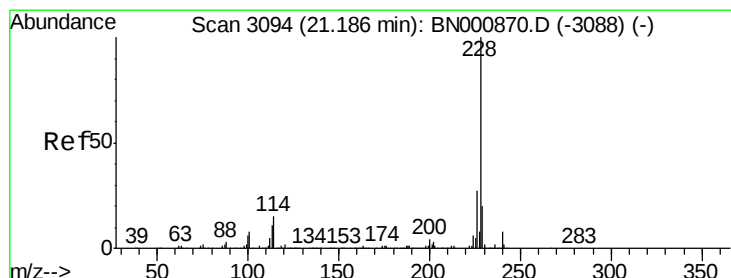
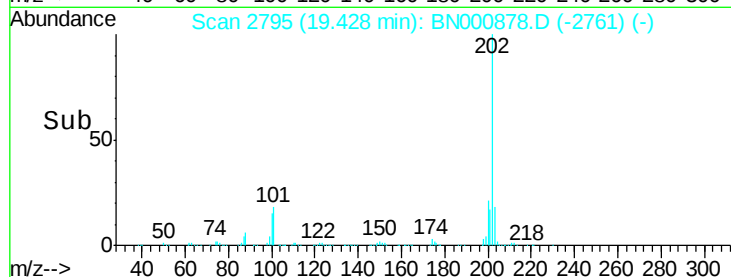
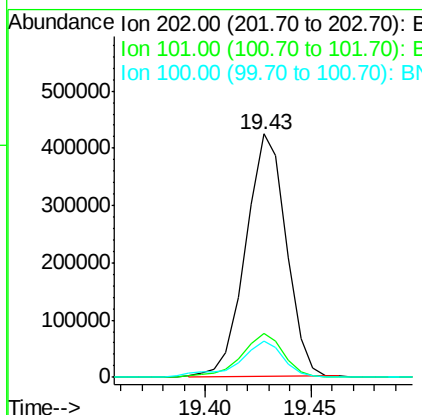
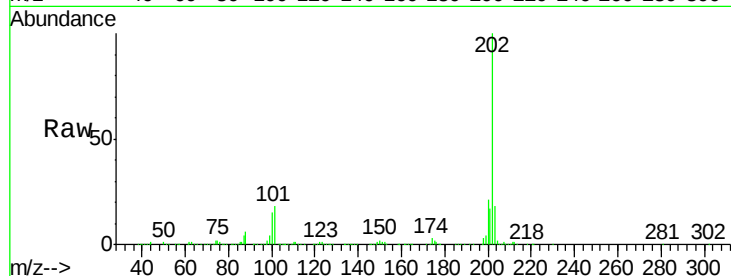




#19  
Pvrene  
Concen: 13.361 ng/ul  
RT: 19.43 min Scan# 2795  
Delta R.T. 0.00 min  
Lab File: BN000878.D  
Acq: 25 Apr 2018 07:14

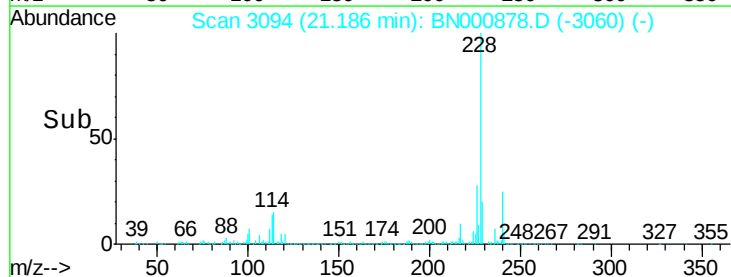
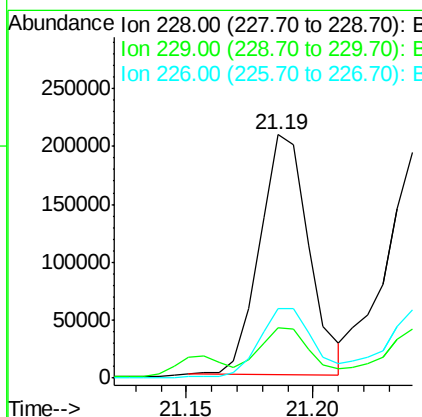
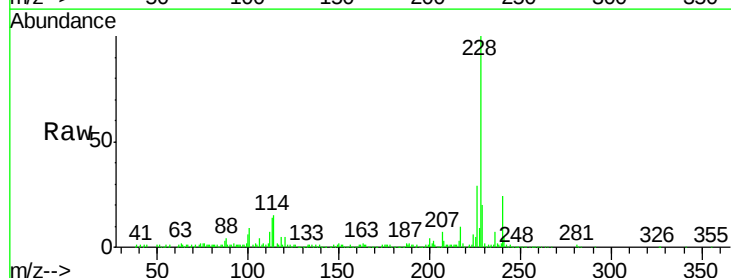
Instrument :  
BNA\_N  
ClientSampleId :

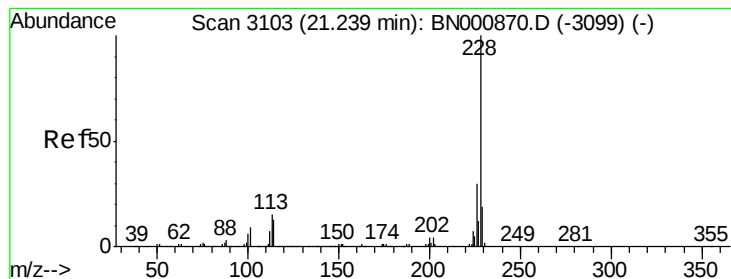
Tot Ion:202 Resp: 562772  
Ion Ratio Lower Upper  
202 100  
101 17.9 11.0 16.4#  
100 14.9 8.1 12.1#



#20  
Benzo(a)anthracene  
Concen: 7.097 ng/ul  
RT: 21.19 min Scan# 3094  
Delta R.T. 0.00 min  
Lab File: BN000878.D  
Acq: 25 Apr 2018 07:14

Tgt Ion:228 Resp: 278184  
Ion Ratio Lower Upper  
228 100  
229 20.5 15.7 23.5  
226 28.6 21.1 31.7





#21

Chrysene

Concen: 6.851 ng/ul

RT: 21.24 min Scan# 3103

Delta R.T. 0.00 min

Lab File: BN000878.D

Acq: 25 Apr 2018 07:14

Instrument :

BNA\_N

ClientSampleId :

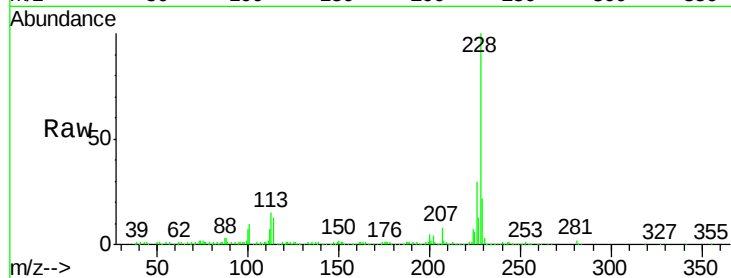
Tot Ion:228 Resp: 252422

Ion Ratio Lower Upper

228 100

226 30.2 24.5 36.7

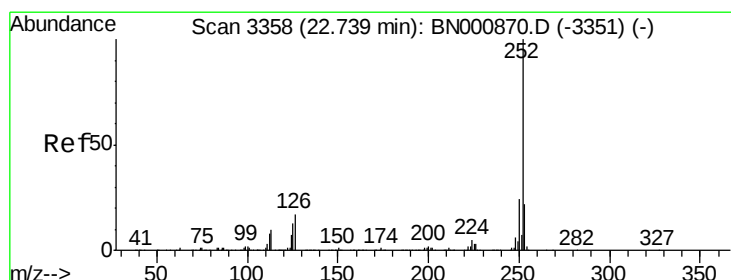
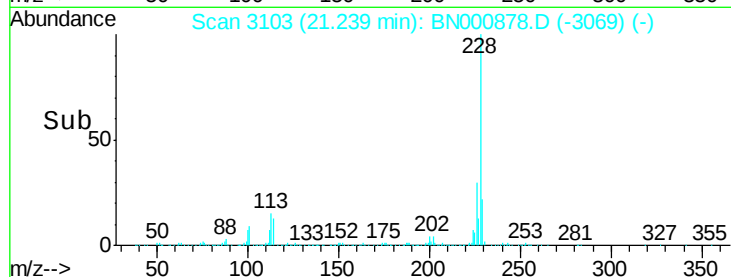
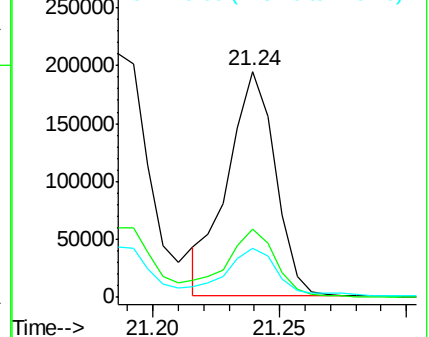
229 22.0 15.8 23.8



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



#23

Benzo(b)fluoranthene

Concen: 13.701 ng/ul

RT: 22.75 min Scan# 3359

Delta R.T. 0.01 min

Lab File: BN000878.D

Acq: 25 Apr 2018 07:14

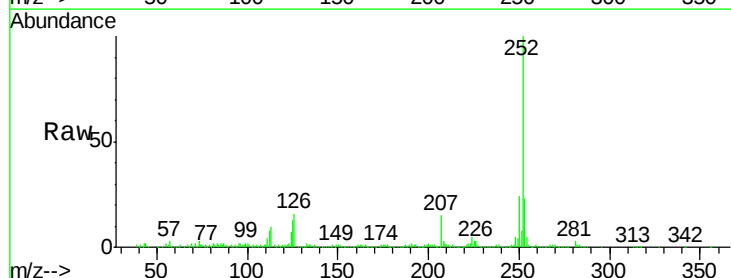
Tgt Ion:252 Resp: 531690

Ion Ratio Lower Upper

252 100

253 22.5 18.0 27.0

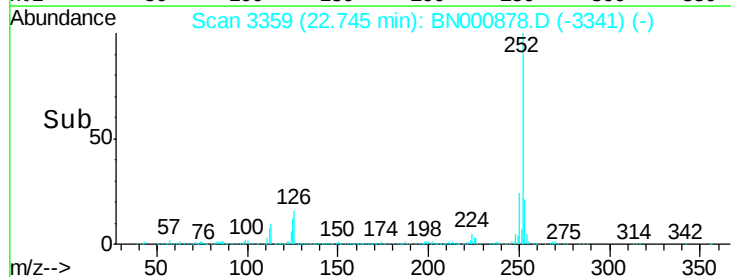
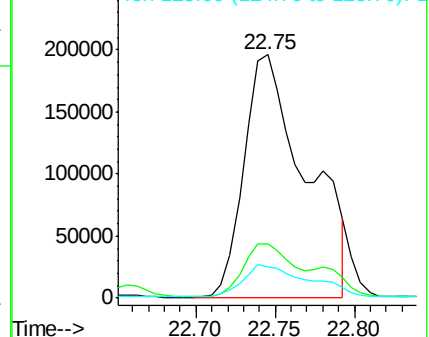
125 12.8 8.0 12.0#

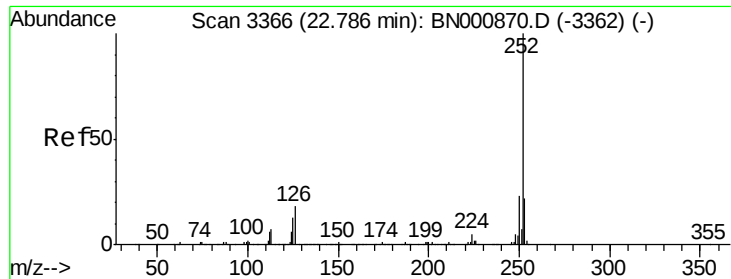


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

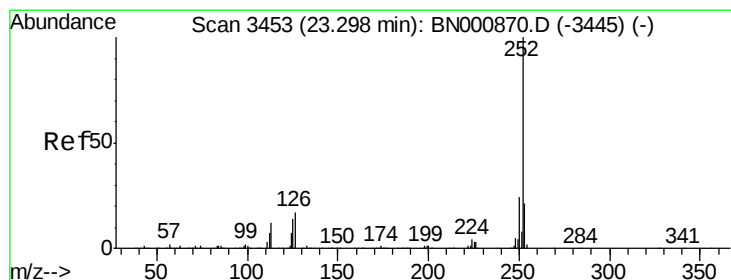
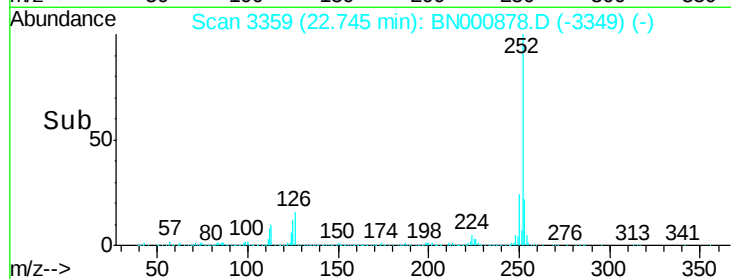
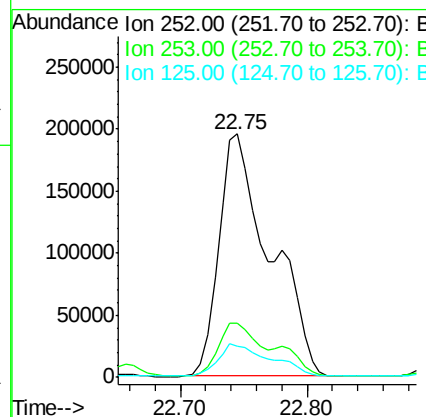
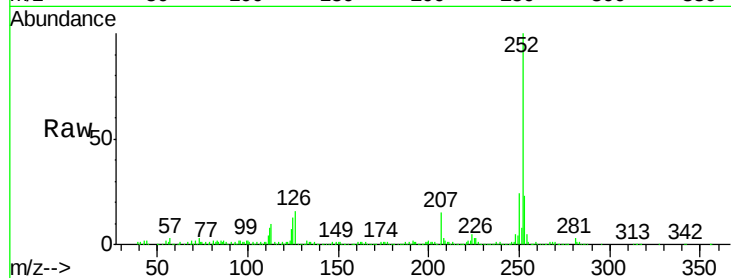




#24  
Benzo(k)fluoranthene  
Concen: 14.298 ng/ul  
RT: 22.75 min Scan# 3359  
Delta R.T. -0.04 min  
Lab File: BN000878.D  
Acq: 25 Apr 2018 07:14

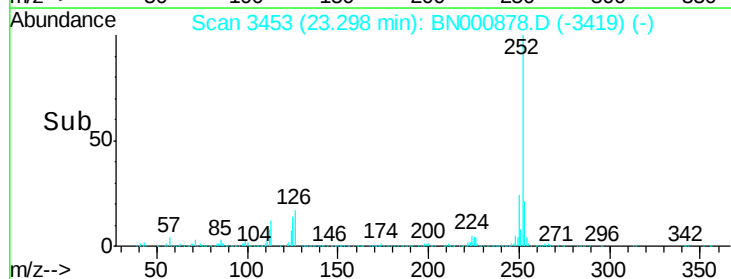
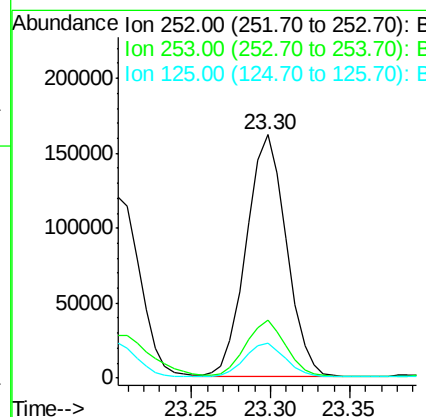
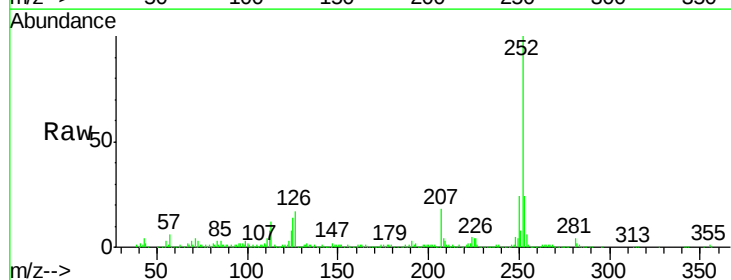
Instrument :  
BNA\_N  
ClientSampleId :

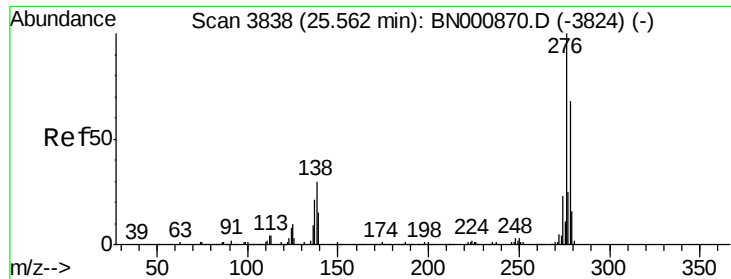
Tot Ion:252 Resp: 542960  
Ion Ratio Lower Upper  
252 100  
253 22.5 18.0 27.0  
125 12.8 8.1 12.1#



#26  
Benzo(a)pyrene  
Concen: 7.658 ng/ul  
RT: 23.30 min Scan# 3453  
Delta R.T. 0.00 min  
Lab File: BN000878.D  
Acq: 25 Apr 2018 07:14

Tgt Ion:252 Resp: 284020  
Ion Ratio Lower Upper  
252 100  
253 23.6 17.2 25.8  
125 14.3 8.2 12.4#



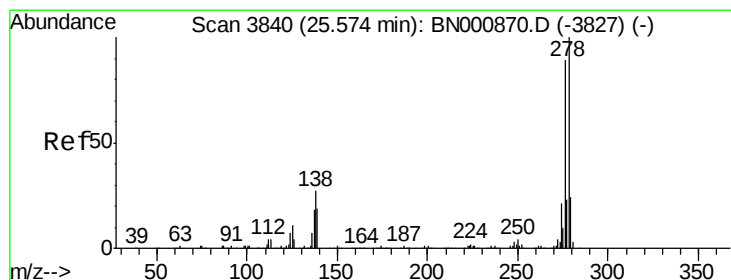
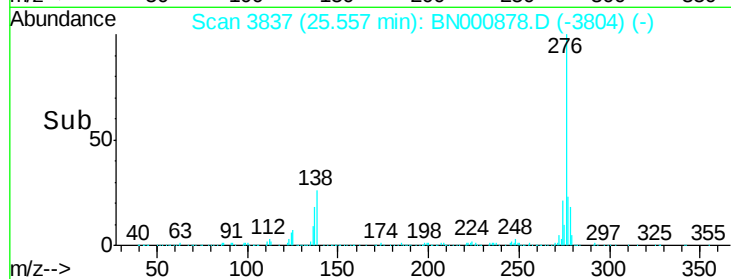
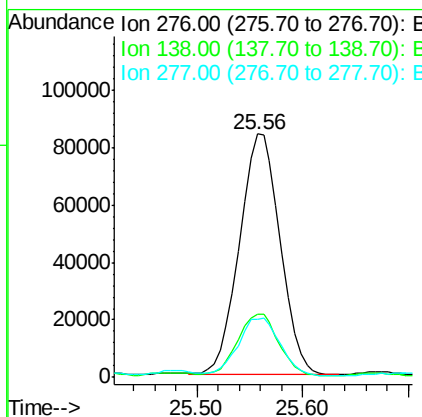
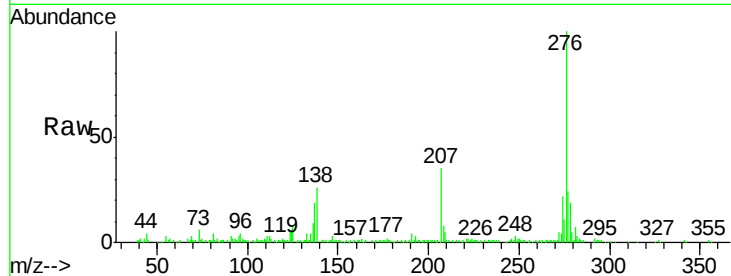


#27

Indeno(1,2,3-cd)pyrene  
Concen: 5.024 ng/ul  
RT: 25.56 min Scan# 3837  
Delta R.T. -0.01 min  
Lab File: BN000878.D  
Acq: 25 Apr 2018 07:14

Instrument :  
BNA\_N  
ClientSampled :

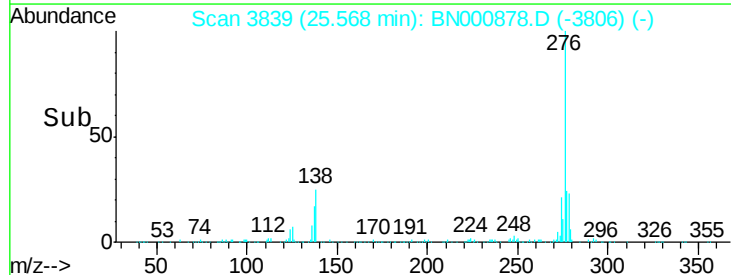
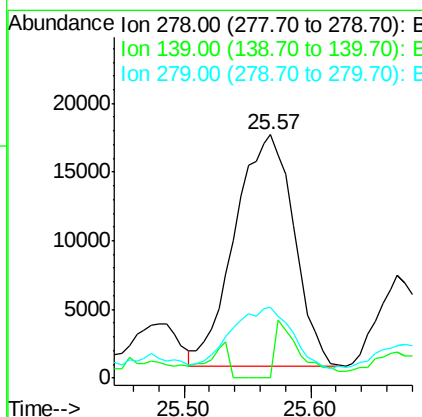
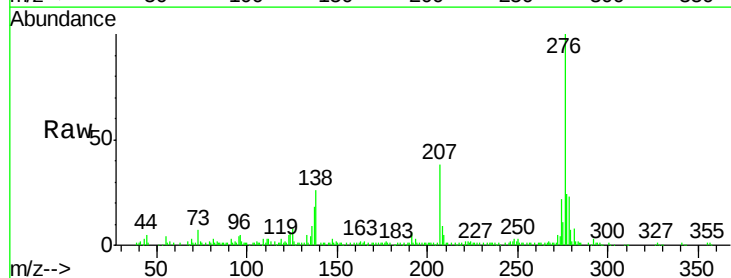
Tot Ion:276 Resp: 225071  
Ion Ratio Lower Upper  
276 100  
138 25.9 14.4 21.6#  
277 23.7 18.0 27.0

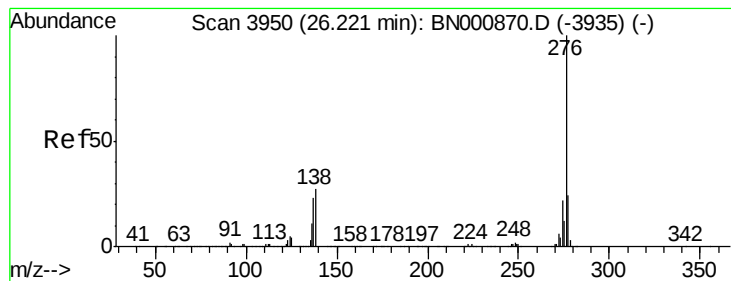


#28

Dibenzo(a,h)anthracene  
Concen: 1.462 ng/ul  
RT: 25.57 min Scan# 3839  
Delta R.T. -0.01 min  
Lab File: BN000878.D  
Acq: 25 Apr 2018 07:14

Tgt Ion:278 Resp: 54584  
Ion Ratio Lower Upper  
278 100  
139 0.0 12.2 18.4#  
279 29.3 19.2 28.8#





#29

Benzo(a,h,i)perylene

Concen: 6.138 ng/ul

RT: 26.23 min Scan# 3951

Delta R.T. 0.01 min

Lab File: BN000878.D

Acq: 25 Apr 2018 07:14

Instrument :

BNA\_N

ClientSampleId :

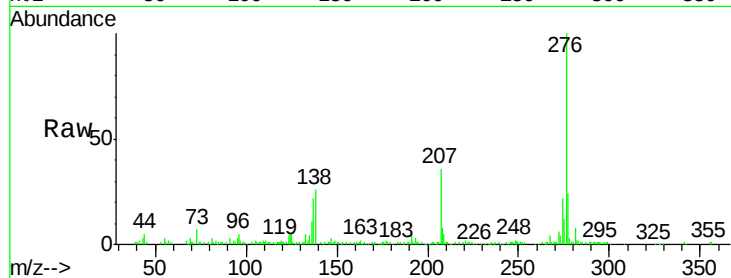
Tot Ion:276 Resp: 229981

Ion Ratio Lower Upper

276 100

138 26.0 15.3 22.9#

277 24.2 19.0 28.4



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

