

Data File : BM021874.D  
Acq On : 07 Aug 2019 00:46  
Operator : HP/JU  
Sample : K3893-08  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP12

Quant Time: Aug 07 04:06:20 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 04:02:33 2019  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.63  | 152  | 849      | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.40 | 136  | 3592     | 0.40 | ng/ul | -0.02    |
| 6) Acenaphthene-d10       | 14.28 | 164  | 2007     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.13 | 188  | 250279   | 0.40 | ng/ul | 0.08     |
| 16) Chrysene-d12          | 21.37 | 240  | 23       | 0.40 | ng/ul | 0.13     |
| 20) Perylene-d12          | 23.70 | 264  | 349      | 0.40 | ng/ul | 0.24     |

|                             |       |     |      |      |       |       |
|-----------------------------|-------|-----|------|------|-------|-------|
| System Monitoring Compounds |       |     |      |      |       |       |
| 4) 2-Methylnaphthalene-d10  | 12.02 | 152 | 1302 | 0.22 | ng/ul | -0.01 |
| 14) Fluoranthene-d10        | 0.00  | 212 | 0    | 0.00 | ng/ul |       |

| Target Compounds           | R.T.  | QIon | Response | Conc     | Units  | Qvalue |
|----------------------------|-------|------|----------|----------|--------|--------|
| 3) Naphthalene             | 10.45 | 128  | 992      | 0.098    | ng/ul# | 90     |
| 5) 2-Methylnaphthalene     | 12.09 | 142  | 401      | 0.059    | ng/ul  | 99     |
| 7) Acenaphthylene          | 14.00 | 152  | 3147     | 0.336    | ng/ul# | 83     |
| 8) Acenaphthene            | 14.34 | 153  | 1574     | 0.206    | ng/ul  | 99     |
| 9) Fluorene                | 15.34 | 166  | 1916     | 0.225    | ng/ul  | 97     |
| 17) Pyrene                 | 19.46 | 202  | 117614   | 1244.410 | ng/ul  | 100    |
| 18) Benzo(a)anthracene     | 21.27 | 228  | 70807    | 860.672  | ng/ul  | 97     |
| 19) Chrysene               | 21.27 | 228  | 69591    | 657.730  | ng/ul  | 99     |
| 21) Benzo(b)fluoranthene   | 22.95 | 252  | 11470    | 9.746    | ng/ul  | 98     |
| 22) Benzo(k)fluoranthene   | 22.95 | 252  | 11311    | 8.493    | ng/ul  | 98     |
| 24) Indeno(1,2,3-cd)pyrene | 25.92 | 276  | 1924     | 1.346    | ng/ul# | 47     |
| 25) Dibenzo(a,h)anthracene | 25.92 | 278  | 7402     | 6.408    | ng/ul  | 98     |
| 26) Benzo(g,h,i)perylene   | 26.71 | 276  | 7101     | 5.519    | ng/ul  | 92     |

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

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ClientSampleId :

BEP12

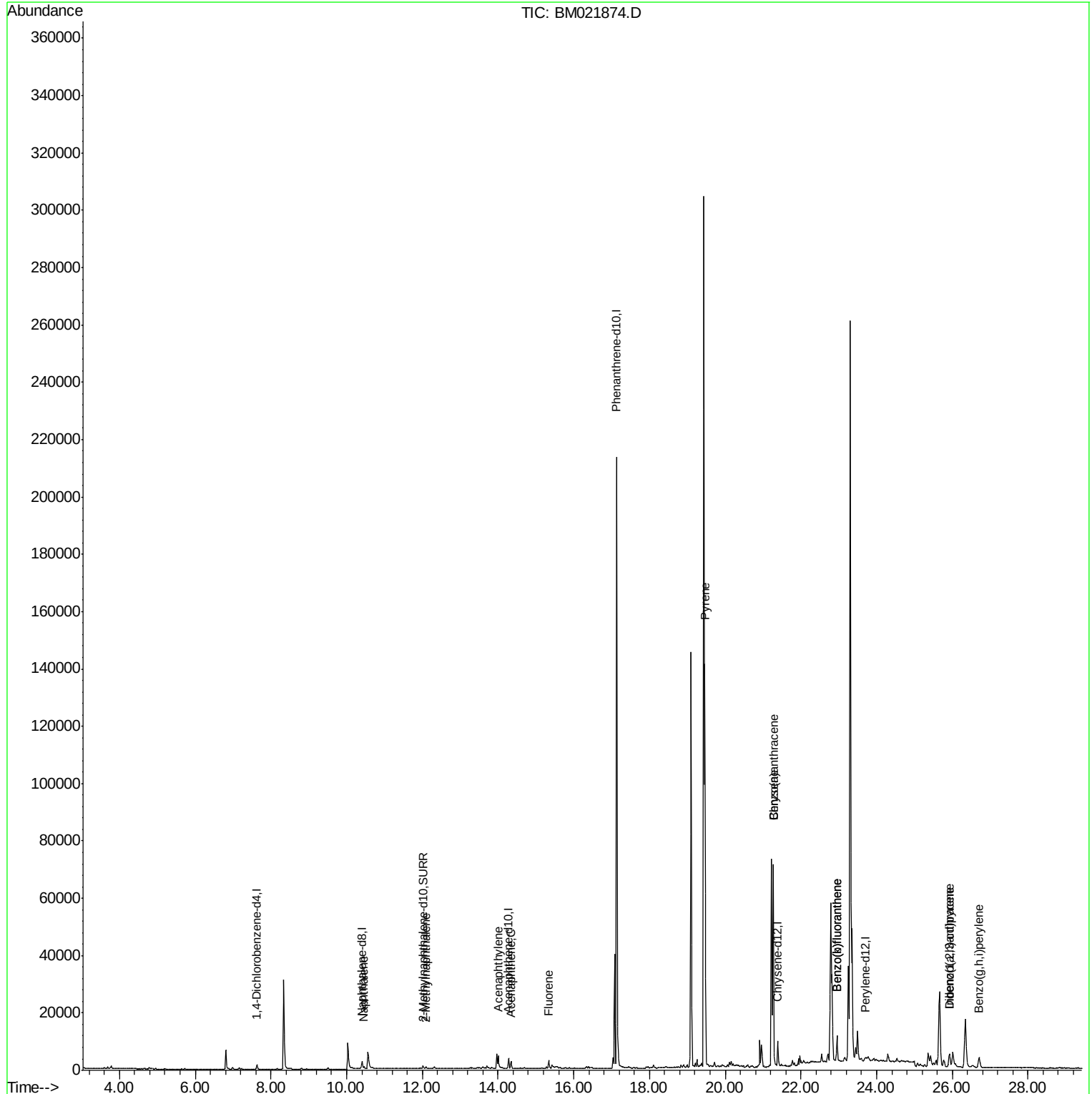
Quant Time: Aug 07 04:06:20 2019

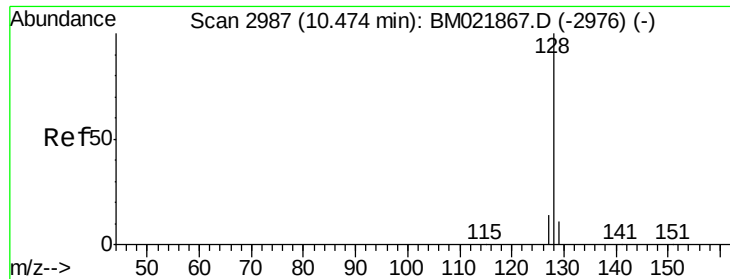
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Aug 07 04:02:33 2019

Response via : Initial Calibration





#3

Naphthalene

Concen: 0.098 ng/ul

RT: 10.45 min Scan# 2982

Delta R.T. -0.02 min

Lab File: BM021874.D

Acq: 07 Aug 2019 00:46

Instrument :

BNA\_M

ClientSampleId :

BEP12

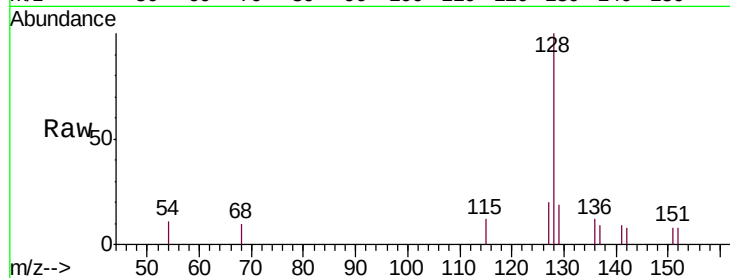
Tgt Ion:128 Resp: 992

Ion Ratio Lower Upper

128 100

129 19.5 12.3 18.5#

127 20.4 13.0 19.6#



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

10.45

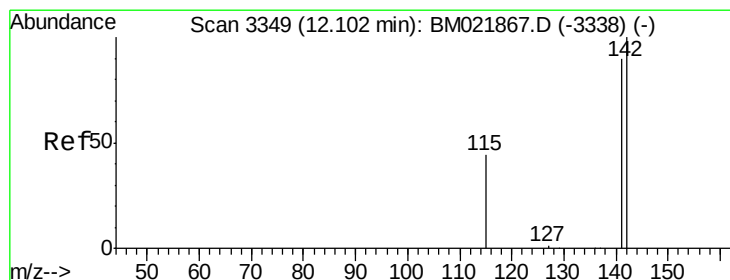
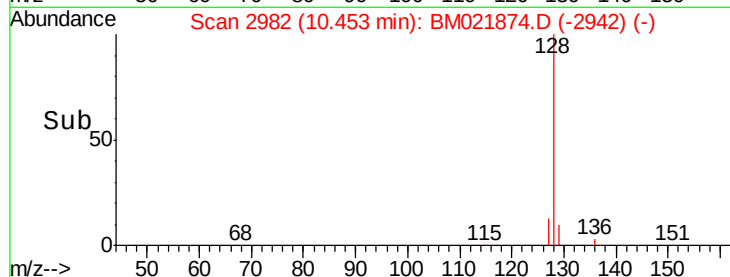
600

400

200

0

Time-->



#5

2-Methylnaphthalene

Concen: 0.059 ng/ul

RT: 12.09 min Scan# 3347

Delta R.T. -0.01 min

Lab File: BM021874.D

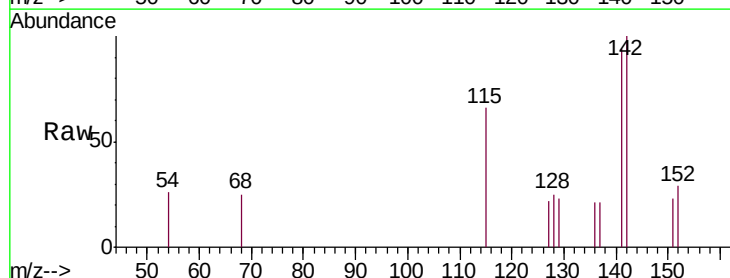
Acq: 07 Aug 2019 00:46

Tgt Ion:142 Resp: 401

Ion Ratio Lower Upper

142 100

141 92.0 74.3 111.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.09

250

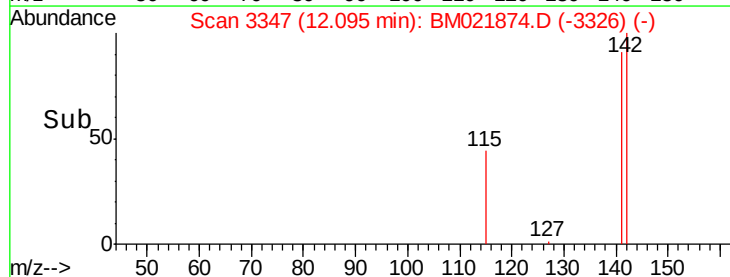
200

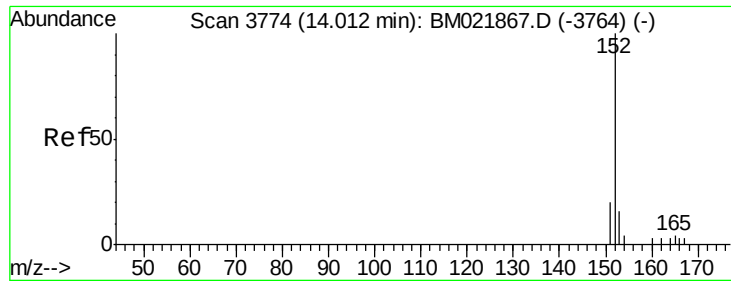
150

100

50

Time-->





#7

Acenaphthylene

Concen: 0.336 ng/ul

RT: 14.00 min Scan# 3771

Delta R.T. -0.01 min

Lab File: BM021874.D

Acq: 07 Aug 2019 00:46

Instrument :

BNA\_M

ClientSampleId :

BEP12

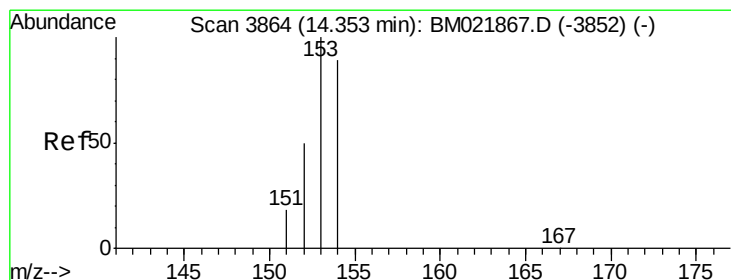
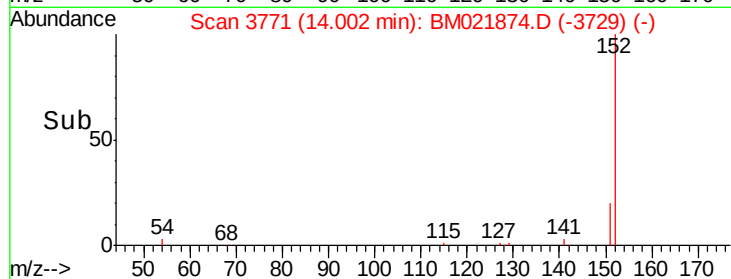
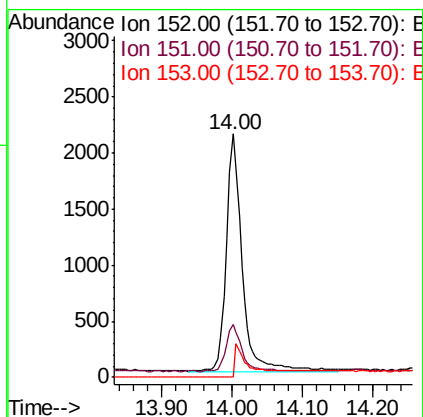
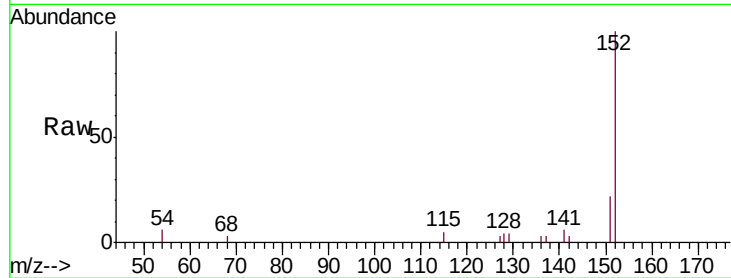
Tgt Ion:152 Resp: 3147

Ion Ratio Lower Upper

152 100

151 21.7 18.3 27.5

153 0.0 12.8 19.2#



#8

Acenaphthene

Concen: 0.206 ng/ul

RT: 14.34 min Scan# 3861

Delta R.T. -0.01 min

Lab File: BM021874.D

Acq: 07 Aug 2019 00:46

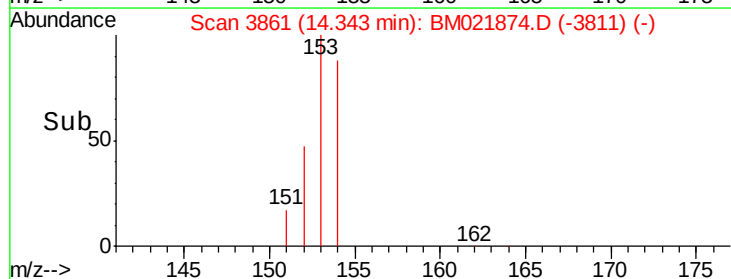
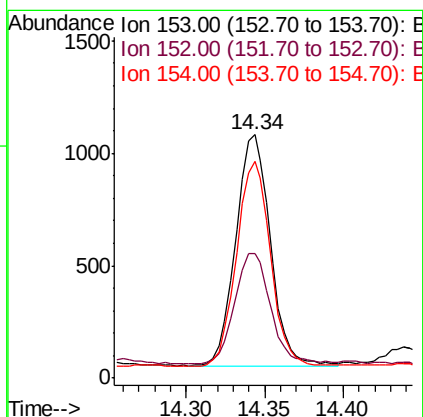
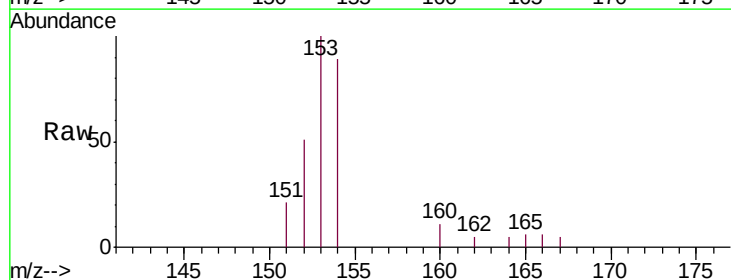
Tgt Ion:153 Resp: 1574

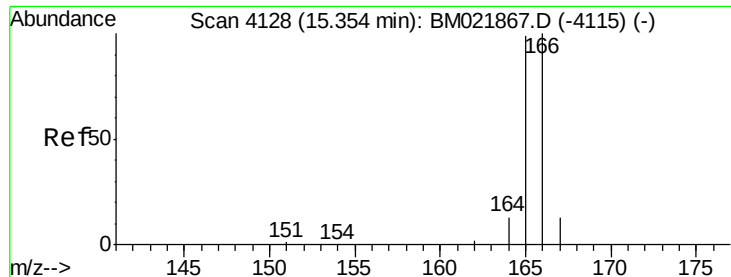
Ion Ratio Lower Upper

153 100

152 51.3 41.3 61.9

154 88.8 72.3 108.5

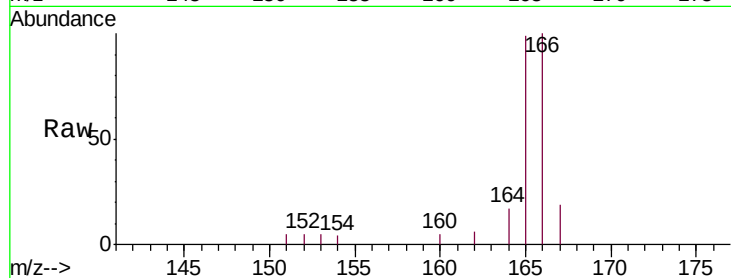




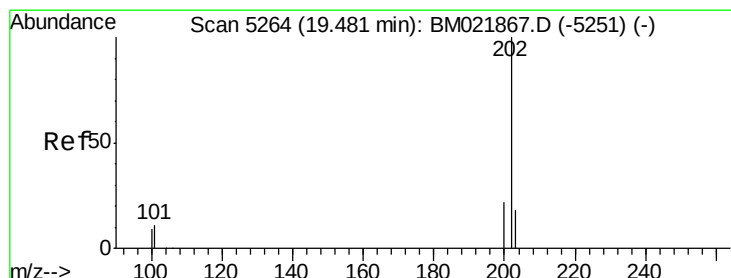
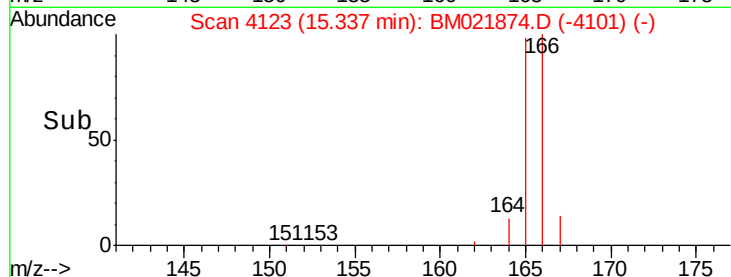
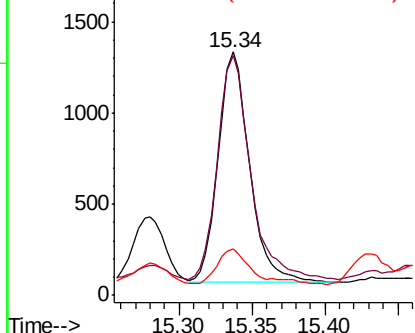
#9  
**Fluorene**  
 Concen: 0.225 ng/ul  
 RT: 15.34 min Scan# 4123  
 Delta R.T. -0.02 min  
 Lab File: BM021874.D  
 Acq: 07 Aug 2019 00:46

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BEP12

Tgt Ion:166 Resp: 1916  
 Ion Ratio Lower Upper  
 166 100  
 165 98.6 81.4 122.0  
 167 18.9 13.7 20.5

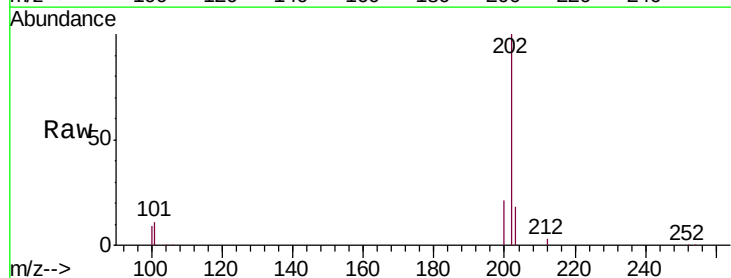


Abundance Ion 166.00 (165.70 to 166.70): E  
 Ion 165.00 (164.70 to 165.70): E  
 Ion 167.00 (166.70 to 167.70): E

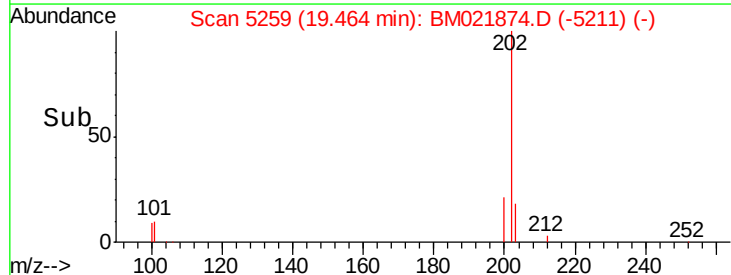
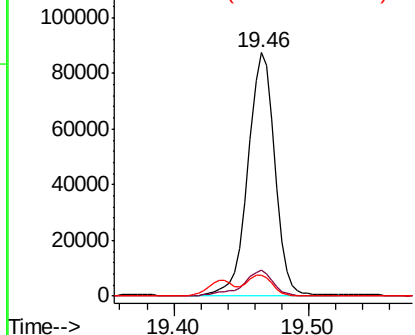


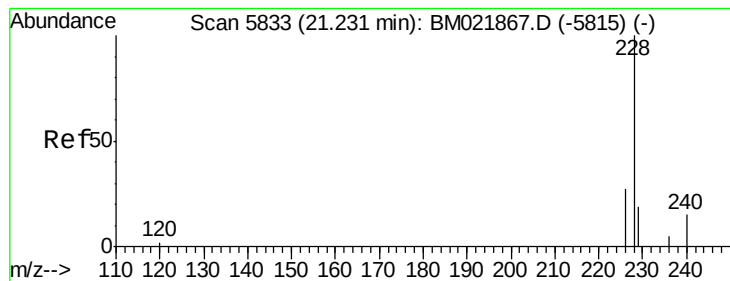
#17  
**Pyrene**  
 Concen: 1244.410 ng/ul  
 RT: 19.46 min Scan# 5259  
 Delta R.T. -0.02 min  
 Lab File: BM021874.D  
 Acq: 07 Aug 2019 00:46

Tgt Ion:202 Resp: 117614  
 Ion Ratio Lower Upper  
 202 100  
 101 10.5 8.3 12.5  
 100 8.8 7.2 10.8



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: 860.672 ng/ul

RT: 21.27 min Scan# 5848

Delta R.T. 0.04 min

Lab File: BM021874.D

Acq: 07 Aug 2019 00:46

Instrument :

BNA\_M

ClientSampleId :

BEP12

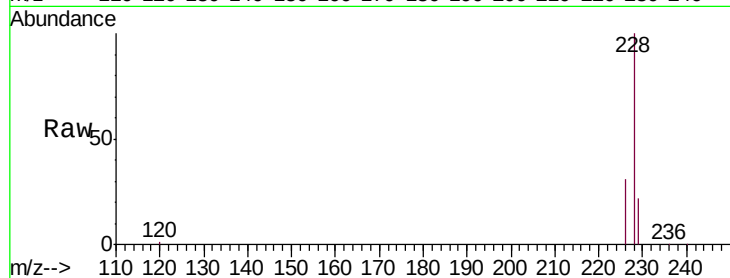
Tgt Ion:228 Resp: 70807

Ion Ratio Lower Upper

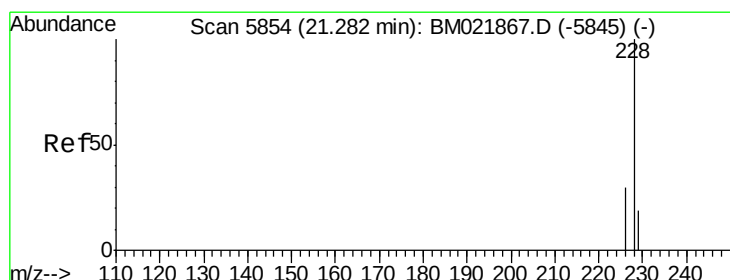
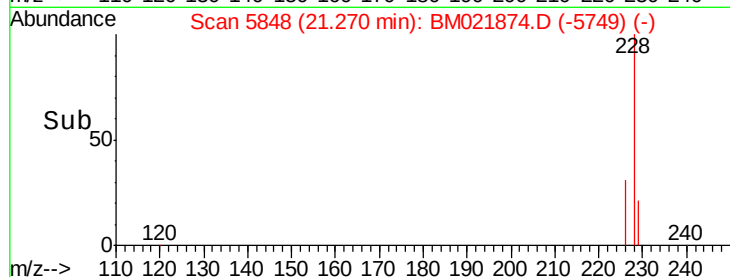
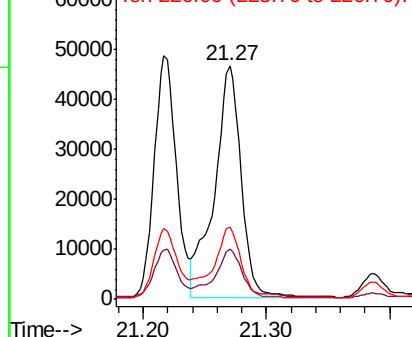
228 100

229 21.5 17.2 25.8

226 31.1 22.6 34.0



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



#19

Chrysene

Concen: 657.730 ng/ul

RT: 21.27 min Scan# 5848

Delta R.T. -0.01 min

Lab File: BM021874.D

Acq: 07 Aug 2019 00:46

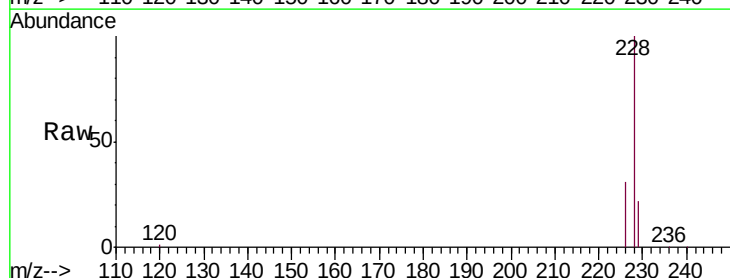
Tgt Ion:228 Resp: 69591

Ion Ratio Lower Upper

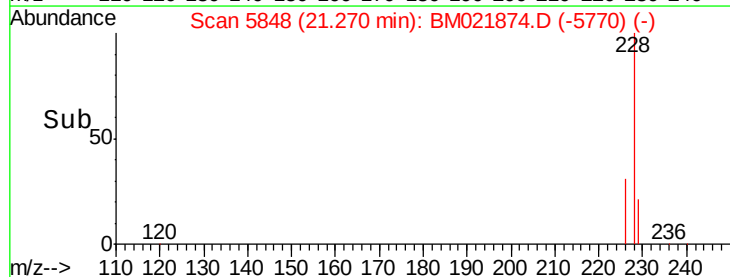
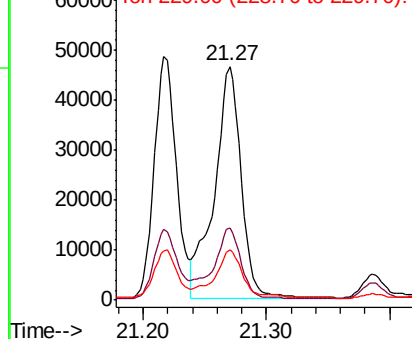
228 100

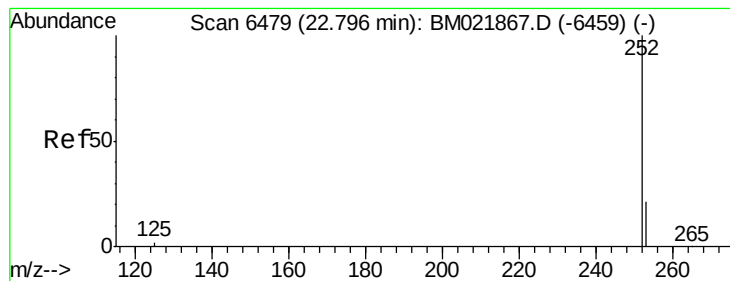
226 31.1 24.9 37.3

229 21.5 16.6 25.0



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: 9.746 ng/ul

RT: 22.95 min Scan# 6543

Delta R.T. 0.16 min

Lab File: BM021874.D

Acq: 07 Aug 2019 00:46

Instrument :

BNA\_M

ClientSampleId :

BEP12

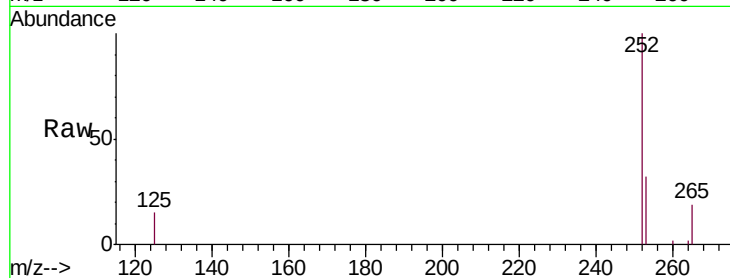
Tgt Ion:252 Resp: 11470

Ion Ratio Lower Upper

252 100

253 32.4 0.0 67.4

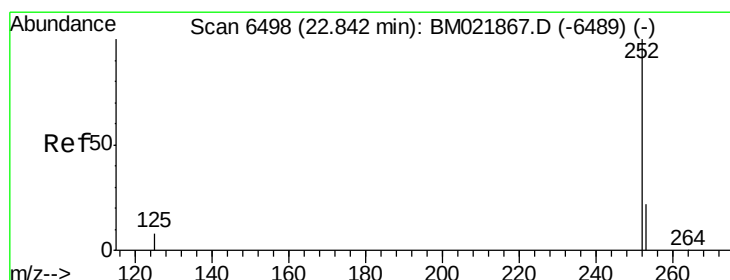
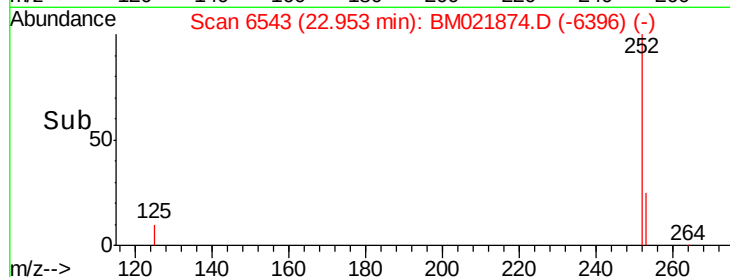
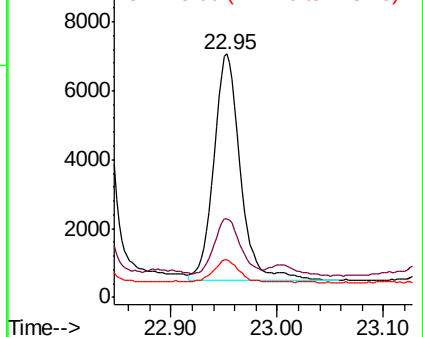
125 15.4 0.0 31.0



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: 8.493 ng/ul

RT: 22.95 min Scan# 6543

Delta R.T. 0.11 min

Lab File: BM021874.D

Acq: 07 Aug 2019 00:46

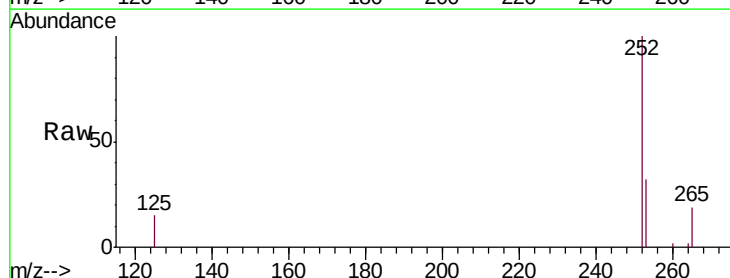
Tgt Ion:252 Resp: 11311

Ion Ratio Lower Upper

252 100

253 32.4 27.0 40.4

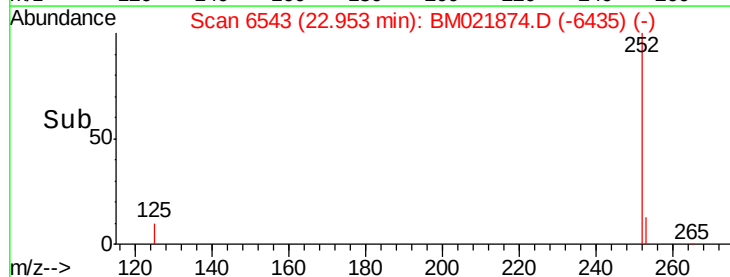
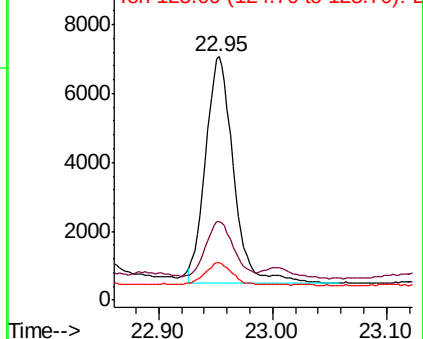
125 15.4 12.2 18.2

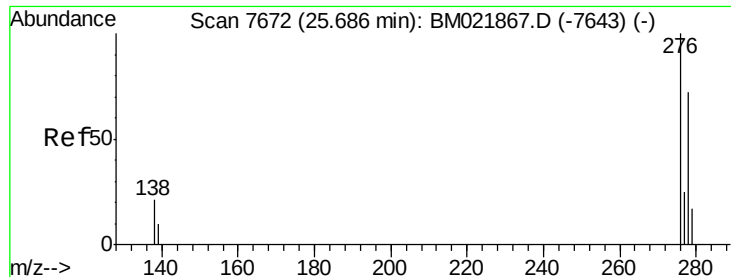


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



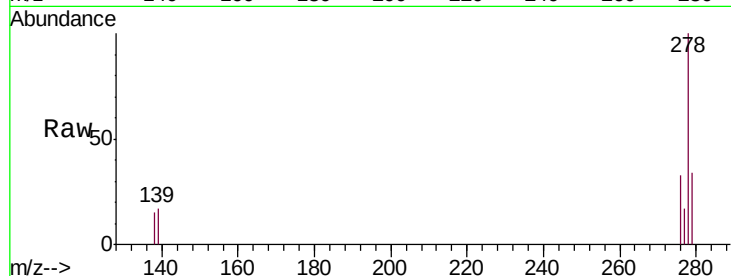


#24

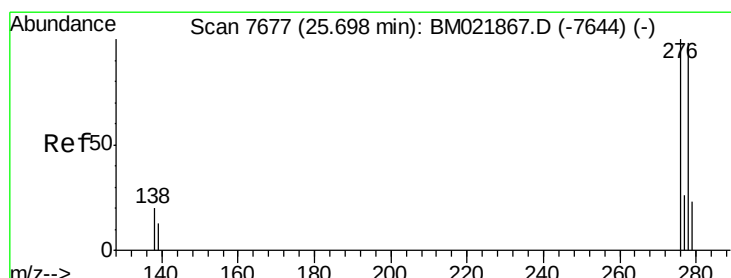
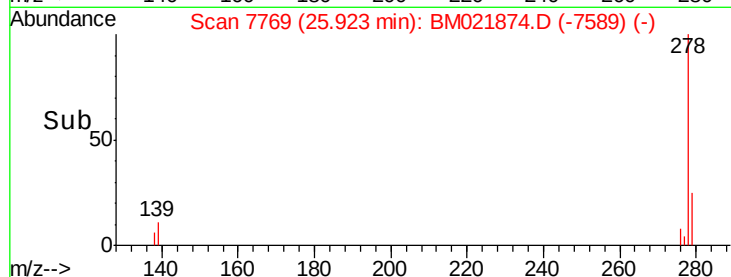
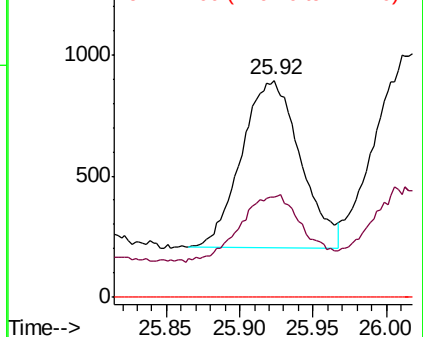
Indeno(1,2,3-cd)pyrene  
Concen: 1.346 ng/ul  
RT: 25.92 min Scan# 7769  
Delta R.T. 0.24 min  
Lab File: BM021874.D  
Acq: 07 Aug 2019 00:46

Instrument :  
BNA\_M  
ClientSampleId :  
BEP12

Tgt Ion:276 Resp: 1924  
Ion Ratio Lower Upper  
276 100  
138 42.6 15.1 22.7#  
227 0.0 0.0 0.0



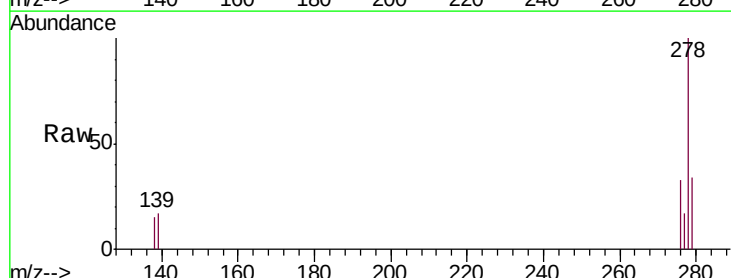
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 227.00 (226.70 to 227.70): E



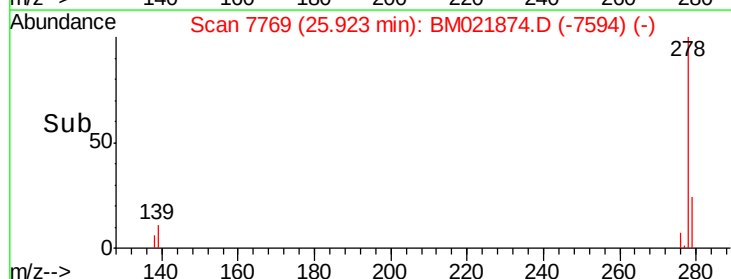
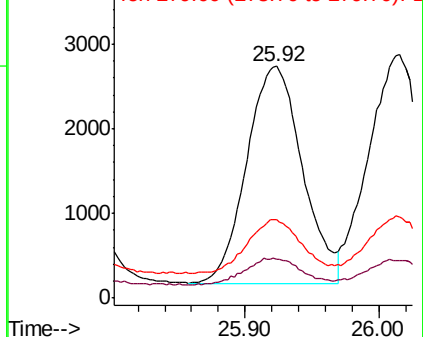
#25

Dibenzo(a,h)anthracene  
Concen: 6.408 ng/ul  
RT: 25.92 min Scan# 7769  
Delta R.T. 0.23 min  
Lab File: BM021874.D  
Acq: 07 Aug 2019 00:46

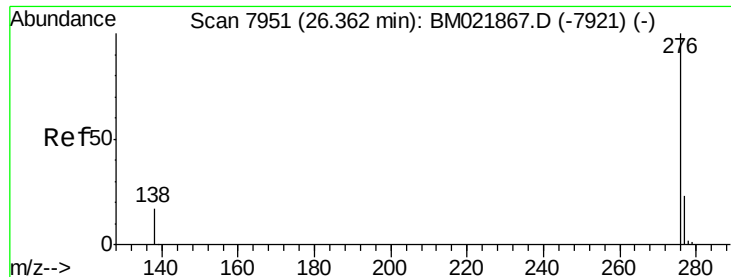
Tgt Ion:278 Resp: 7402  
Ion Ratio Lower Upper  
278 100  
139 16.9 14.2 21.2  
279 34.0 28.3 42.5



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

Benzo(g,h,i)perylene

Concen: 5.519 ng/ul

RT: 26.71 min Scan# 8093

Delta R.T. 0.35 min

Lab File: BM021874.D

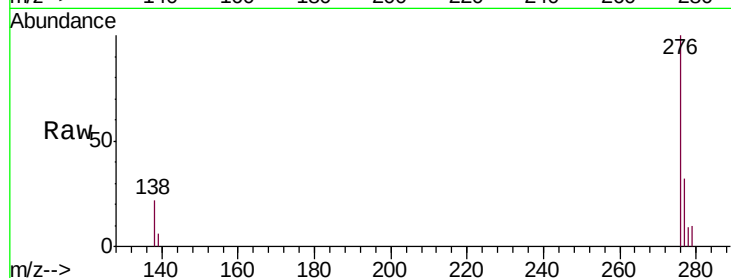
Acq: 07 Aug 2019 00:46

Instrument :

BNA\_M

ClientSampleId :

BEP12



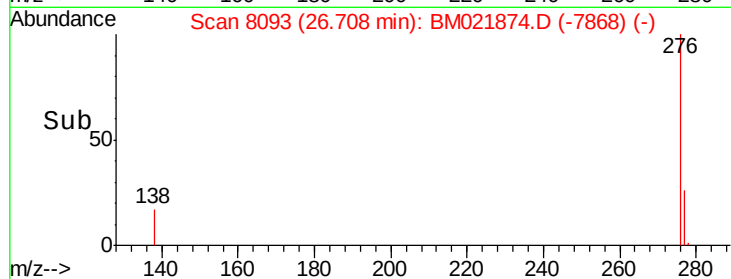
Tgt Ion: 276 Resp: 7101

Ion Ratio Lower Upper

276 100

138 21.8 15.5 23.3

277 31.6 21.4 32.2



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

