

Data Path : Z:\HPCHEM1\BNA M\DATA\BM123115\  
 Data File : BM003855.D  
 Acq On : 29 Dec 2015 18:45  
 Operator : SJ/UM  
 Sample : G4848-11  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9N57

Quant Time: Dec 30 03:33:27 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM121515.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 30 03:30:26 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.68  | 152  | 5618     | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 10.46 | 136  | 24403    | 0.40 | ng/ul | 0.00     |
| 8) Acenaphthene-d10       | 14.33 | 164  | 14512    | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.18 | 188  | 1872850  | 0.40 | ng/ul | 0.10     |
| 18) Chrysene-d12          | 21.28 | 240  | 24280    | 0.40 | ng/ul | 0.00     |
| 22) Perylene-d12          | 23.38 | 264  | 1370637  | 0.40 | ng/ul | -0.15    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 2) 1,4-Dioxane-d8           | 3.14  | 96   | 25266    | 10.52 | ng/uL | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.06 | 152  | 10418    | 0.36  | ng/ul | -0.01    |
| 16) Fluoranthene-d10        | 19.12 | 212  | 26208    | 0.01  | ng/ul | 0.00     |

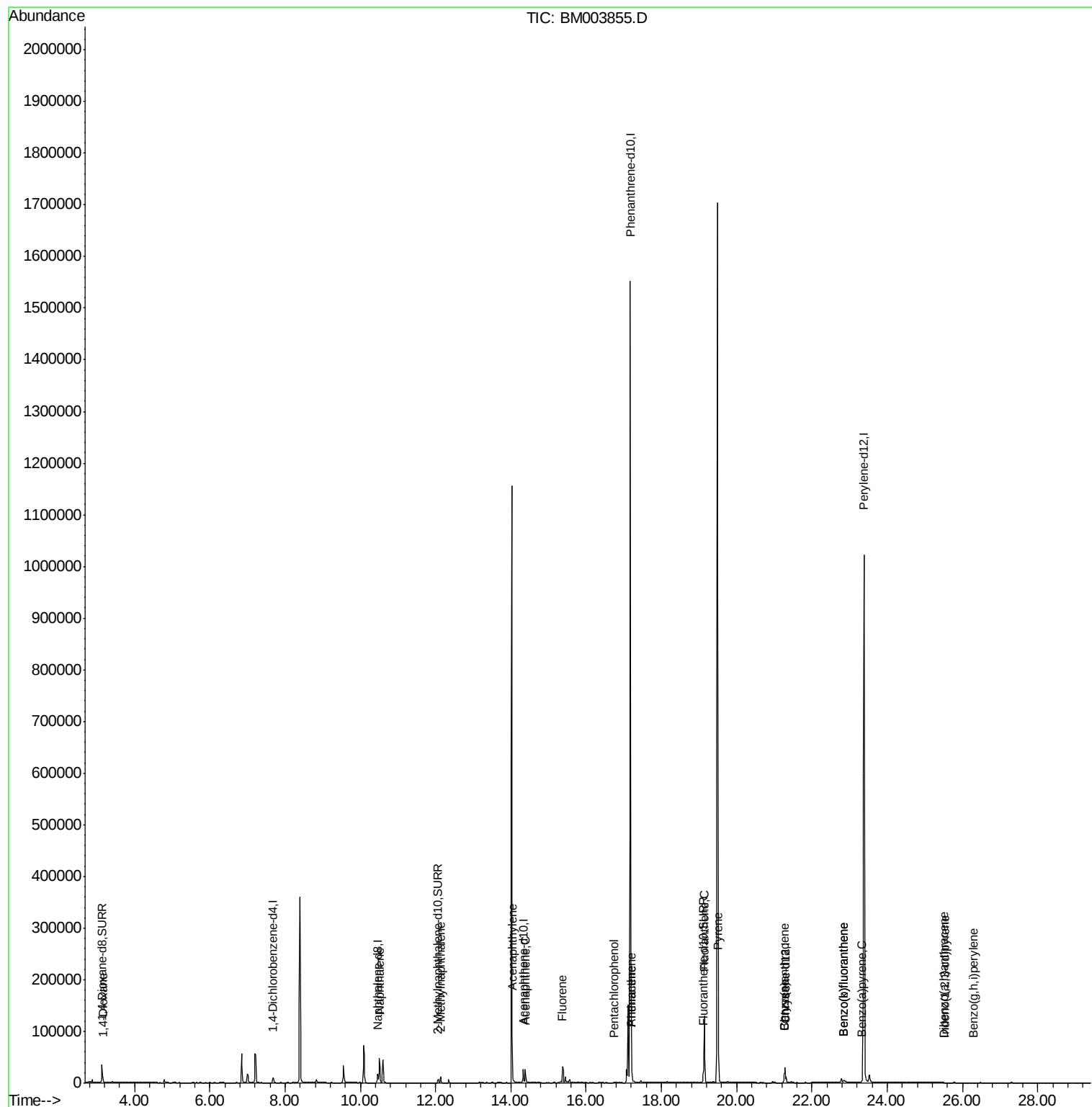
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Ovalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) 1,4-Dioxane             | 3.17  | 88   | 203      | 0.07 | ng/ul# | 1      |
| 5) Naphthalene             | 10.51 | 128  | 64550    | 1.17 | ng/ul  | 98     |
| 7) 2-Methylnaphthalene     | 12.13 | 142  | 9016     | 0.24 | ng/ul  | 98     |
| 9) Acenaphthylene          | 14.04 | 152  | 1252     | 0.02 | ng/ul# | 84     |
| 10) Acenaphthene           | 14.38 | 153  | 15988    | 0.36 | ng/ul# | 83     |
| 11) Fluorene               | 15.38 | 166  | 29667    | 0.60 | ng/ul# | 76     |
| 13) Pentachlorophenol      | 16.75 | 266  | 728      | 0.00 | ng/ul  | 96     |
| 14) Phenanthrene           | 17.21 | 178  | 18527    | 0.00 | ng/ul  | 98     |
| 15) Anthracene             | 17.21 | 178  | 18579    | 0.00 | ng/ul  | 98     |
| 17) Fluoranthene           | 19.14 | 202  | 114391   | 0.02 | ng/ul  | 99     |
| 19) Pyrene                 | 19.51 | 202  | 81438    | 1.24 | ng/ul  | 98     |
| 20) Benzo(a)anthracene     | 21.26 | 228  | 12776    | 0.22 | ng/ul# | 94     |
| 21) Chrysene               | 21.26 | 228  | 12776    | 0.19 | ng/ul  | 97     |
| 23) Benzo(b)fluoranthene   | 22.85 | 252  | 4509     | 0.00 | ng/ul  | 77     |
| 24) Benzo(k)fluoranthene   | 22.85 | 252  | 7697     | 0.00 | ng/ul# | 78     |
| 25) Benzo(a)pyrene         | 23.33 | 252  | 2360     | 0.00 | ng/ul# | 54     |
| 26) Indeno(1,2,3-cd)pyrene | 25.54 | 276  | 1031     | 0.00 | ng/ul# | 25     |
| 27) Dibenzo(a,h)anthracene | 25.51 | 278  | 1050     | 0.00 | ng/ul# | 1      |
| 28) Benzo(g,h,i)perylene   | 26.30 | 276  | 41       | 0.00 | ng/ul# | 1      |

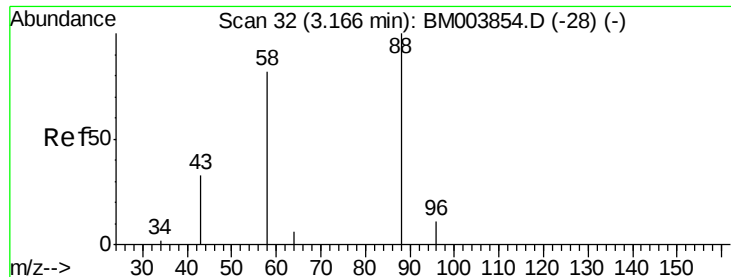
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA M\DATA\BM123115\  
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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
D9N57

Quant Time: Dec 30 03:33:27 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM121515.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 30 03:30:26 2015  
Response via : Initial Calibration





#3

1,4-Dioxane

Concen: 0.07 ng/ul

RT: 3.17 min Scan# 32

Delta R.T. 0.00 min

Lab File: BM003855.D

Acq: 29 Dec 2015 18:45

Instrument :

BNA\_M

ClientSampleId :

D9N57

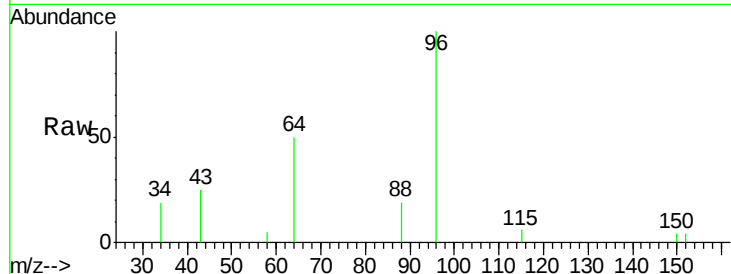
Tot Ion: 88 Resp: 203

Ion Ratio Lower Upper

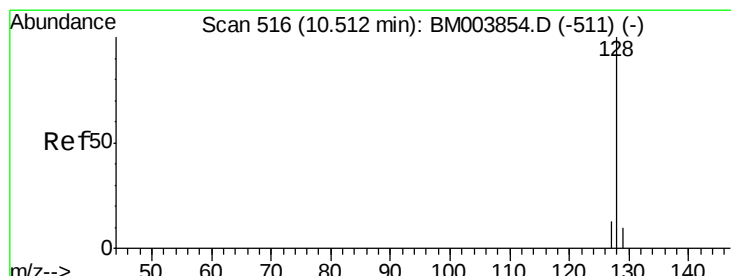
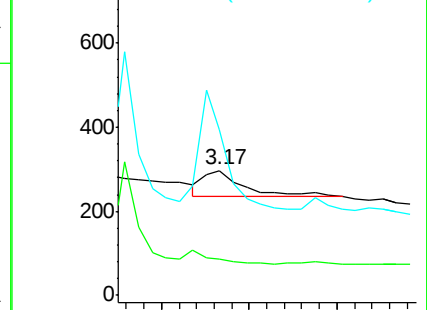
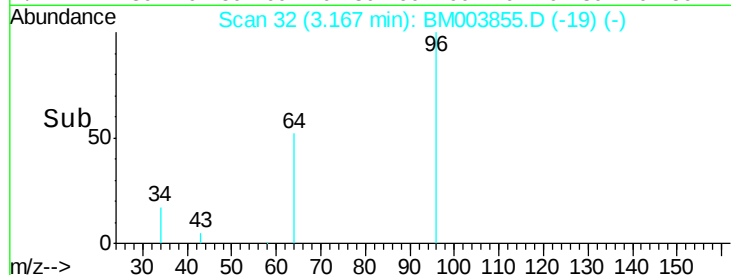
88 100

58 0.0 8.0 12.0#

43 291.1 8.0 12.0#



Abundance Ion 88.00 (87.70 to 88.70): BM003855.D (-19) (-)



#5

Naphthalene

Concen: 1.17 ng/ul

RT: 10.51 min Scan# 516

Delta R.T. 0.00 min

Lab File: BM003855.D

Acq: 29 Dec 2015 18:45

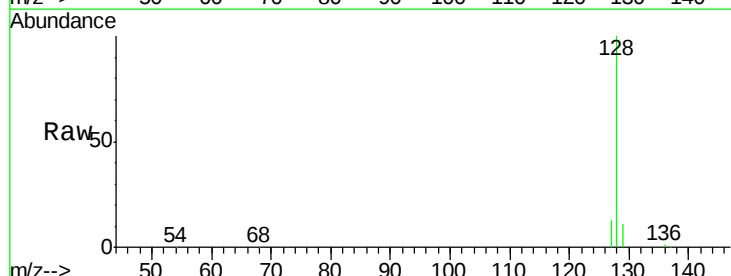
Tgt Ion: 128 Resp: 64550

Ion Ratio Lower Upper

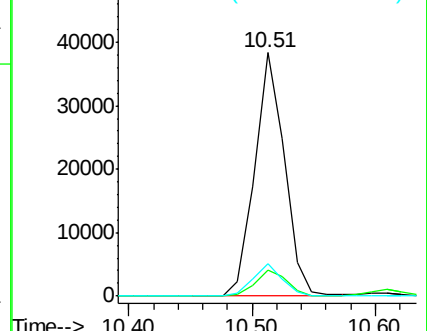
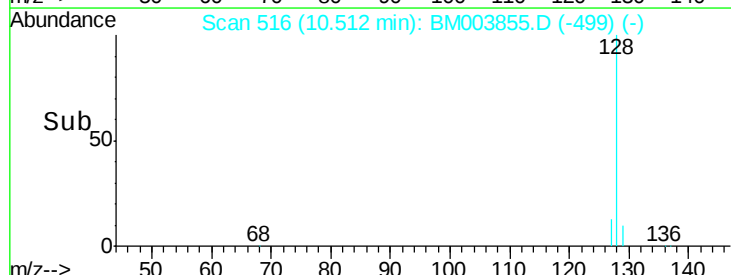
128 100

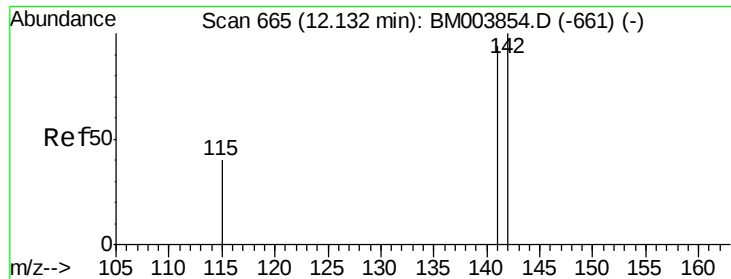
129 10.8 9.0 13.6

127 13.2 9.6 14.4



Abundance Ion 128.00 (127.70 to 128.70): BM003855.D (-499) (-)





#7

2-Methylnaphthalene

Concen: 0.24 ng/ul

RT: 12.13 min Scan# 665

Delta R.T. 0.00 min

Lab File: BM003855.D

Acq: 29 Dec 2015 18:45

Instrument :

BNA\_M

ClientSampleId :

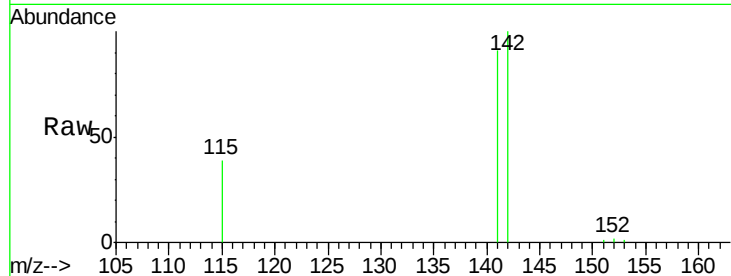
D9N57

Tot Ion:142 Resp: 9016

Ion Ratio Lower Upper

142 100

141 89.4 70.3 105.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.13

6000

5000

4000

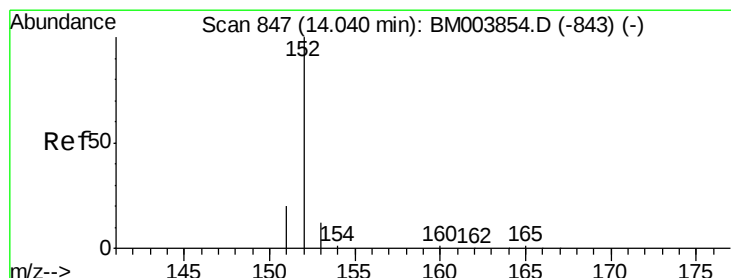
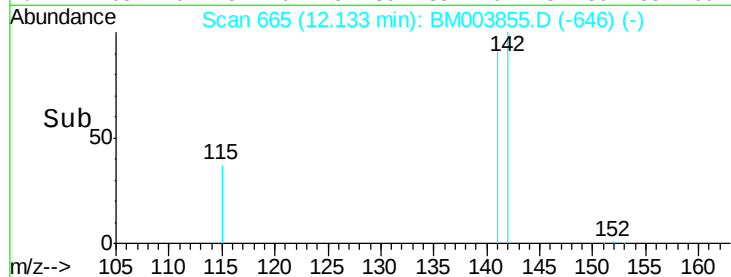
3000

2000

1000

0

Time--> 12.10 12.20



#9

Acenaphthylene

Concen: 0.02 ng/ul

RT: 14.04 min Scan# 847

Delta R.T. 0.00 min

Lab File: BM003855.D

Acq: 29 Dec 2015 18:45

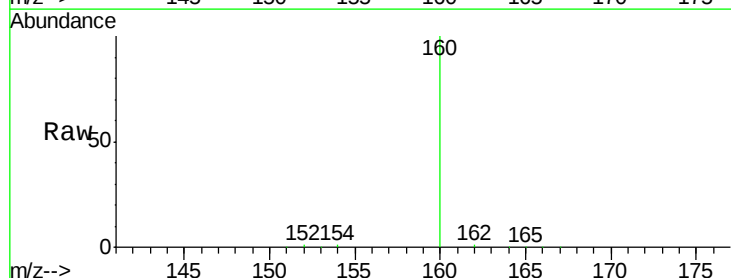
Tgt Ion:152 Resp: 1252

Ion Ratio Lower Upper

152 100

151 26.5 17.6 26.4#

153 23.0 9.7 14.5#



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

14.04

1200

1000

800

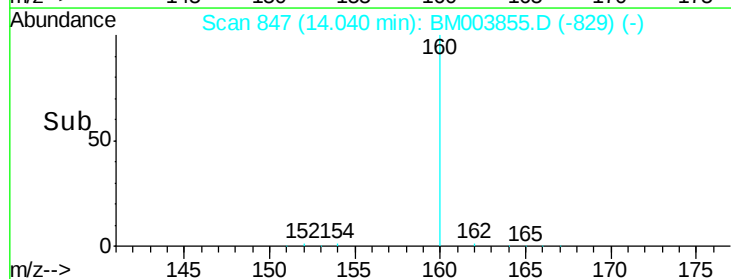
600

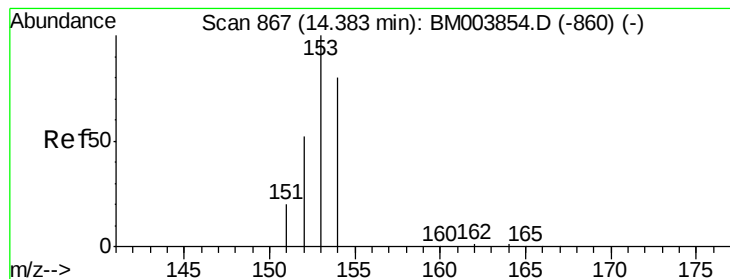
400

200

0

Time--> 13.90 14.00 14.10 14.20





#10

Acenaphthene

Concen: 0.36 ng/ul

RT: 14.38 min Scan# 867

Delta R.T. 0.00 min

Lab File: BM003855.D

Acq: 29 Dec 2015 18:45

Instrument :

BNA\_M

ClientSampleId :

D9N57

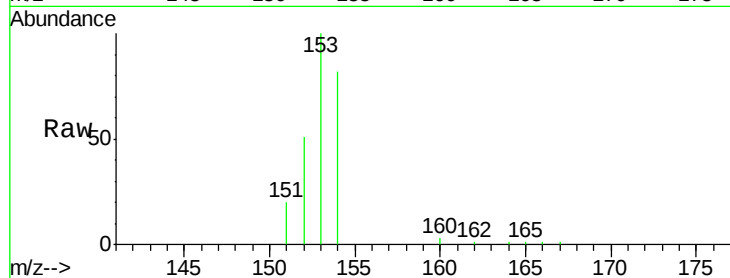
Tot Ion:153 Resp: 15988

Ion Ratio Lower Upper

153 100

152 50.9 33.9 50.9#

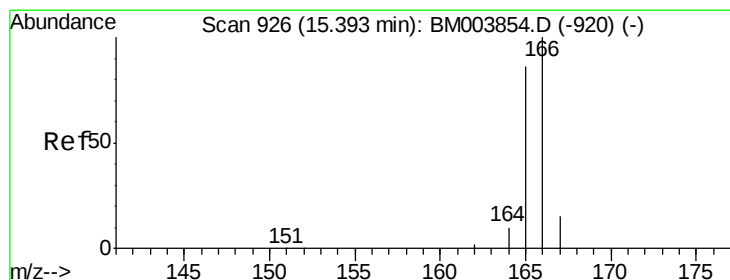
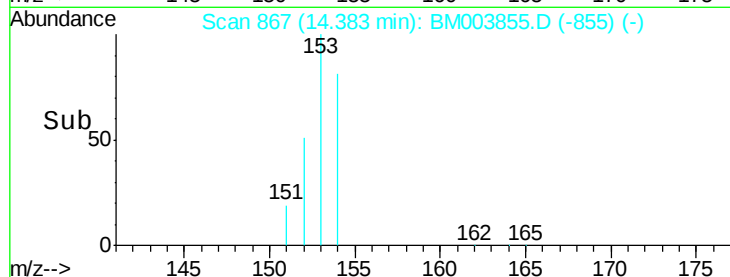
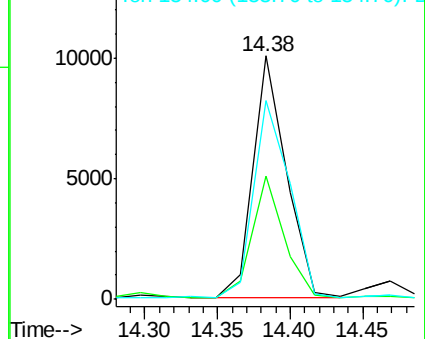
154 81.7 80.6 121.0



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

Fluorene

Concen: 0.60 ng/ul

RT: 15.38 min Scan# 925

Delta R.T. -0.02 min

Lab File: BM003855.D

Acq: 29 Dec 2015 18:45

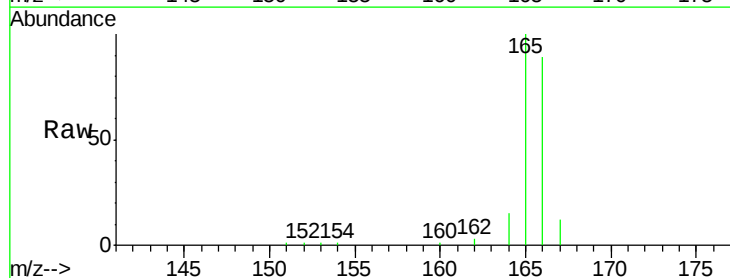
Tgt Ion:166 Resp: 29667

Ion Ratio Lower Upper

166 100

165 112.8 69.6 104.4#

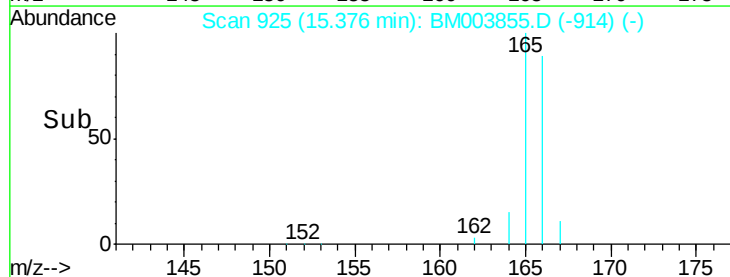
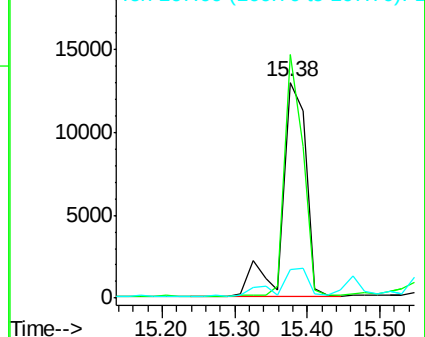
167 13.3 11.9 17.9

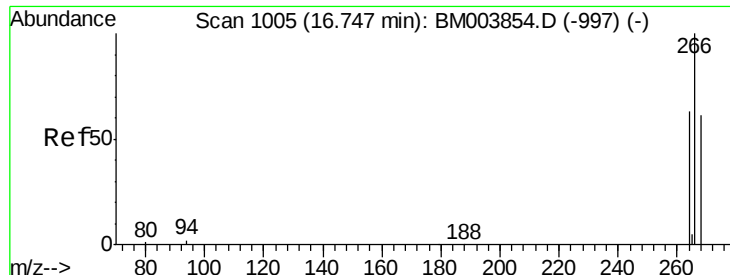


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

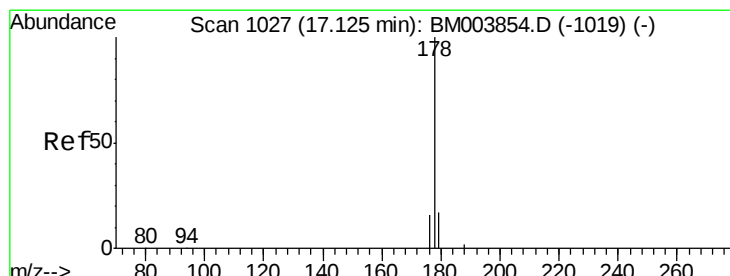
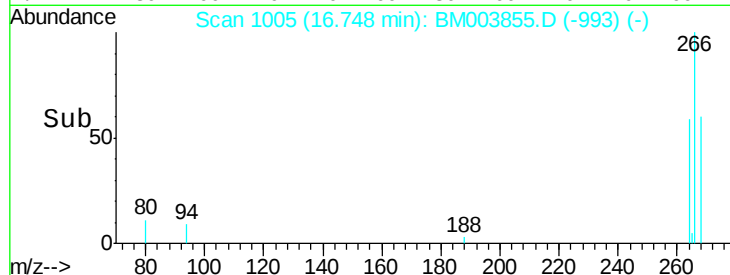
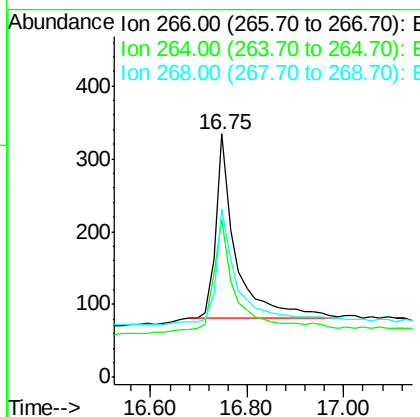
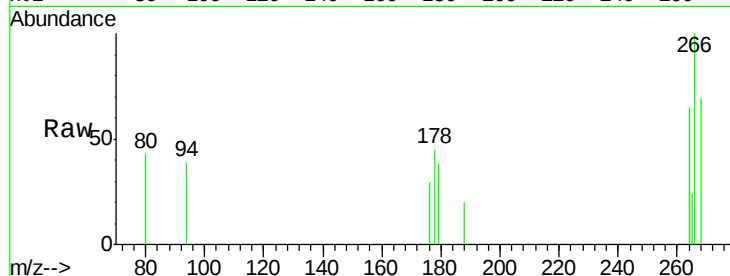




#13  
 Pentachlorophenol  
 Concen: 0.00 ng/ul  
 RT: 16.75 min Scan# 1005  
 Delta R.T. 0.00 min  
 Lab File: BM003855.D  
 Acq: 29 Dec 2015 18:45

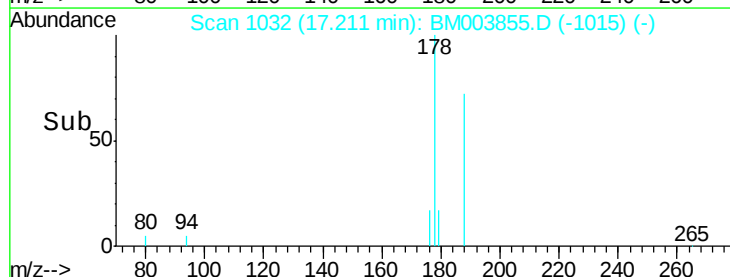
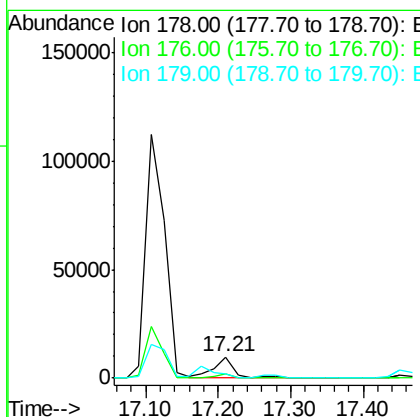
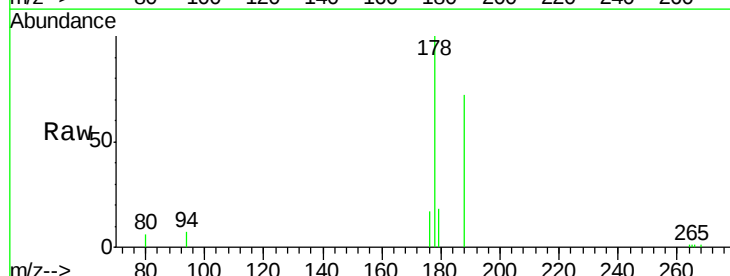
Instrument :  
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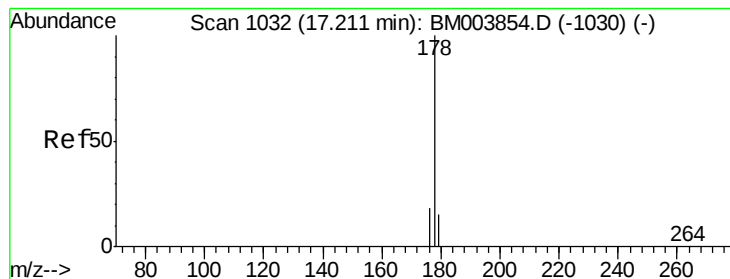
Tot Ion:266 Resp: 728  
 Ion Ratio Lower Upper  
 266 100  
 264 64.8 51.8 77.8  
 268 64.8 46.8 70.2



#14  
 Phenanthrene  
 Concen: 0.00 ng/ul  
 RT: 17.21 min Scan# 1032  
 Delta R.T. 0.09 min  
 Lab File: BM003855.D  
 Acq: 29 Dec 2015 18:45

Tgt Ion:178 Resp: 18527  
 Ion Ratio Lower Upper  
 178 100  
 176 17.3 13.0 19.4  
 179 18.1 14.2 21.2





#15

Anthracene

Concen: 0.00 ng/u1

RT: 17.21 min Scan# 1032

Delta R.T. 0.00 min

Lab File: BM003855.D

Acq: 29 Dec 2015 18:45

Instrument :

BNA\_M

ClientSampleId :

D9N57

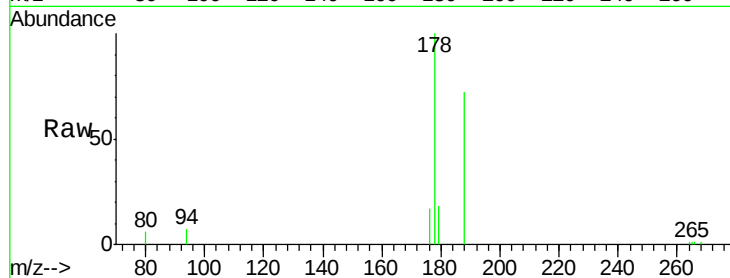
Tot Ion:178 Resp: 18579

Ion Ratio Lower Upper

178 100

176 17.3 14.0 21.0

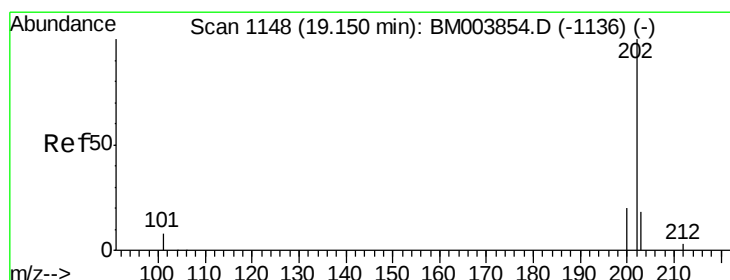
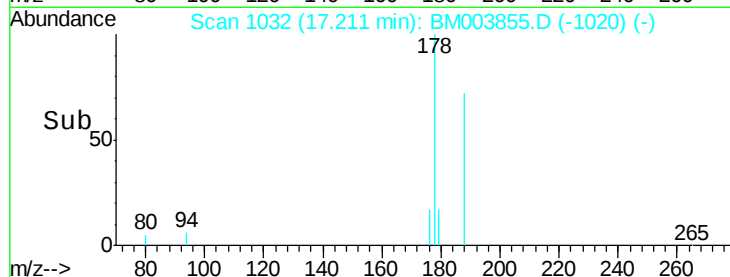
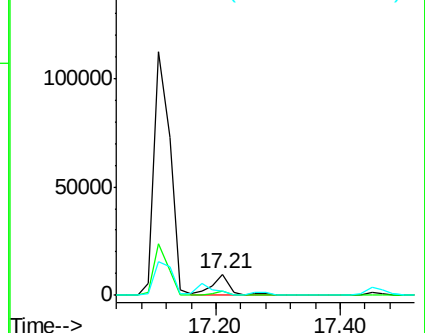
179 18.1 12.9 19.3



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#17

Fluoranthene

Concen: 0.02 ng/u1

RT: 19.14 min Scan# 1148

Delta R.T. -0.00 min

Lab File: BM003855.D

Acq: 29 Dec 2015 18:45

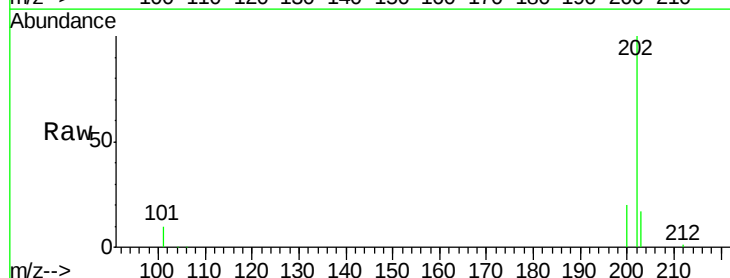
Tgt Ion:202 Resp: 114391

Ion Ratio Lower Upper

202 100

101 9.6 0.0 29.6

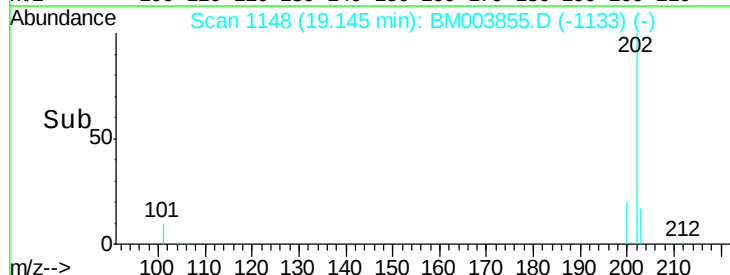
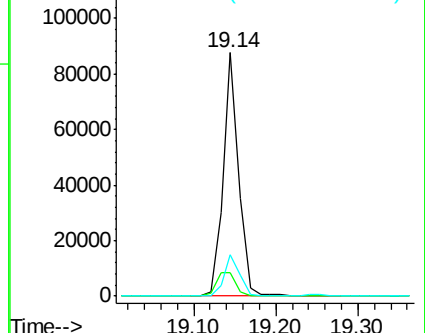
203 17.2 0.0 36.3

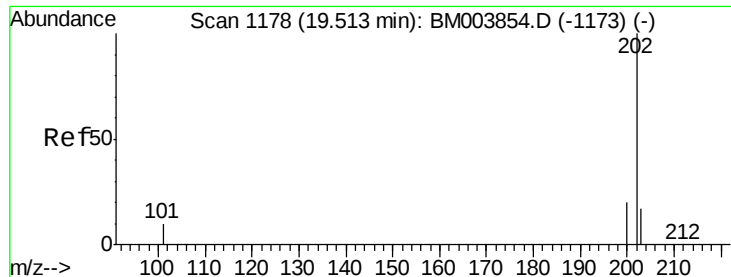


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

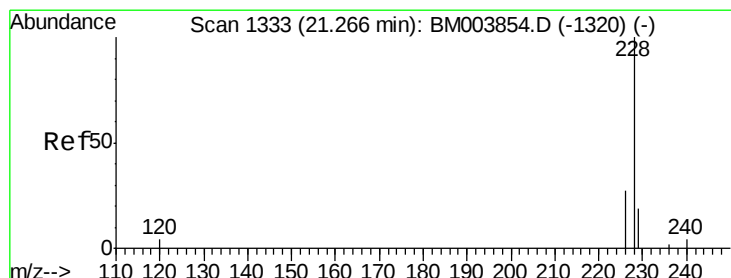
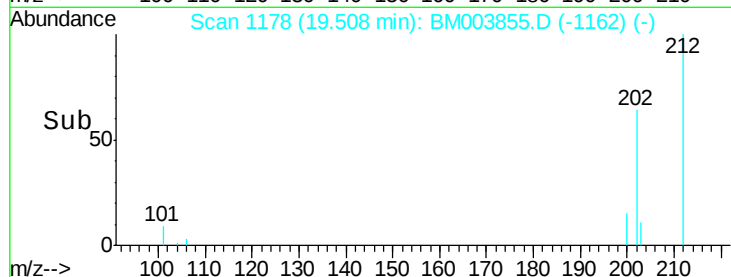
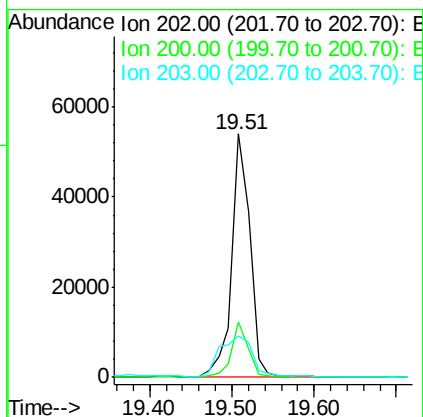
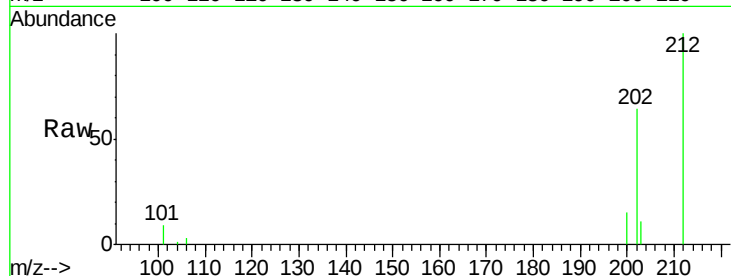




#19  
Pvrene  
Concen: 1.24 ng/ul  
RT: 19.51 min Scan# 1178  
Delta R.T. -0.00 min  
Lab File: BM003855.D  
Acq: 29 Dec 2015 18:45

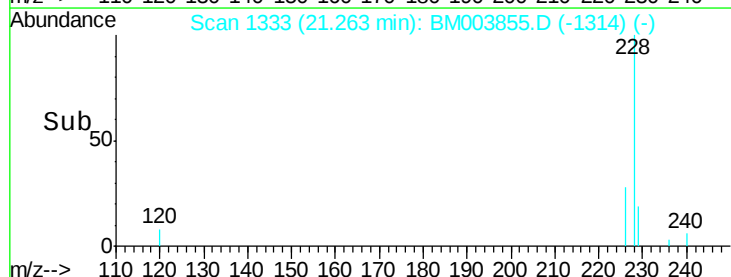
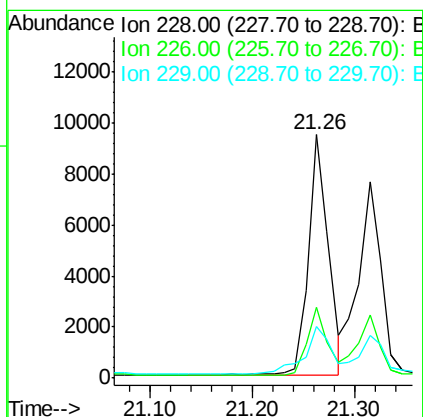
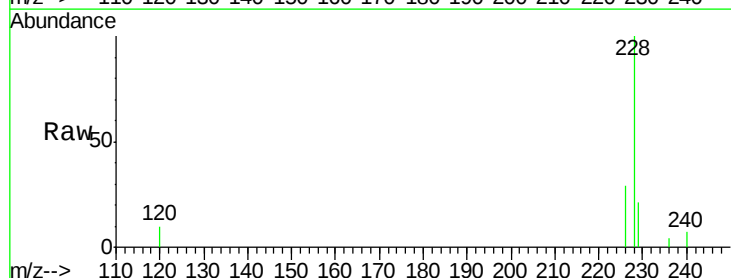
Instrument :  
BNA\_M  
ClientSampleId :  
D9N57

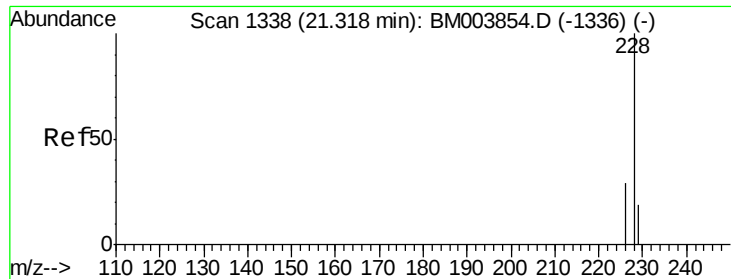
Tot Ion:202 Resp: 81438  
Ion Ratio Lower Upper  
202 100  
200 22.9 17.8 26.8  
203 16.9 12.8 19.2



#20  
Benzo(a)anthracene  
Concen: 0.22 ng/ul  
RT: 21.26 min Scan# 1333  
Delta R.T. -0.00 min  
Lab File: BM003855.D  
Acq: 29 Dec 2015 18:45

Tgt Ion:228 Resp: 12776  
Ion Ratio Lower Upper  
228 100  
226 28.9 18.8 28.2#  
229 21.1 17.1 25.7





#21

Chrysene

Concen: 0.19 ng/ul

RT: 21.26 min Scan# 1333

Delta R.T. -0.06 min

Lab File: BM003855.D

Acq: 29 Dec 2015 18:45

Instrument :

BNA\_M

ClientSampleId :

D9N57

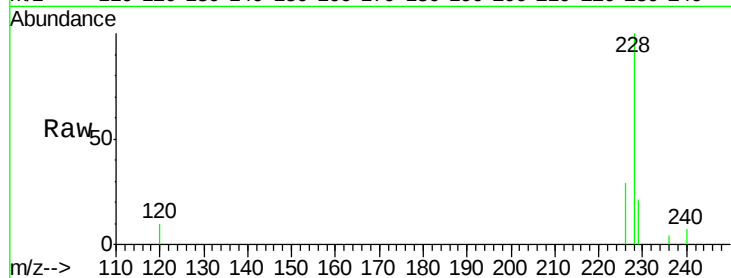
Tot Ion:228 Resp: 12776

Ion Ratio Lower Upper

228 100

226 28.9 21.2 31.8

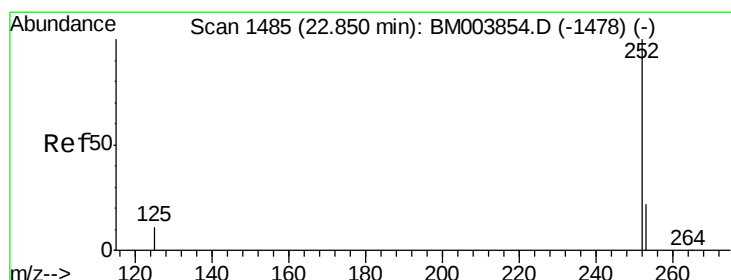
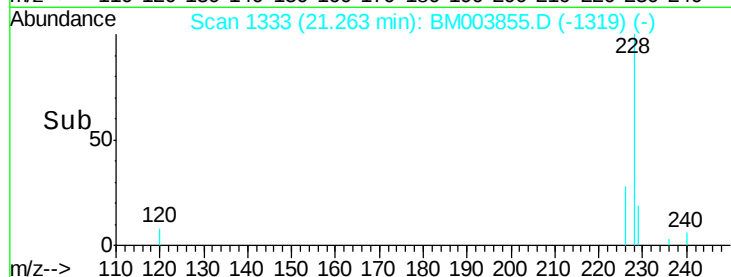
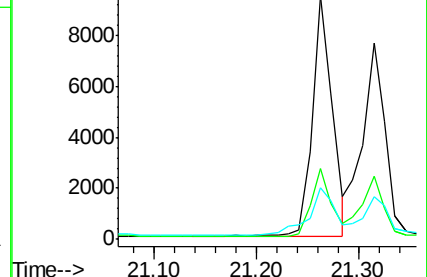
229 21.1 17.0 25.6



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: 0.00 ng/ul

RT: 22.85 min Scan# 1485

Delta R.T. -0.00 min

Lab File: BM003855.D

Acq: 29 Dec 2015 18:45

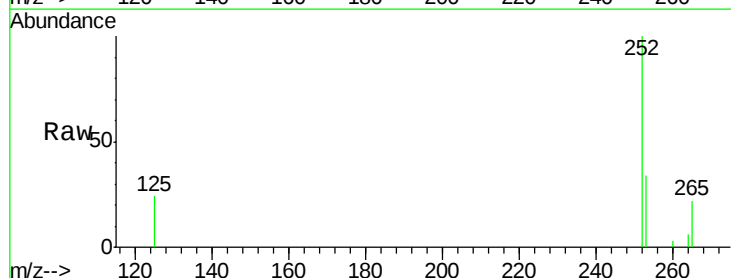
Tgt Ion:252 Resp: 4509

Ion Ratio Lower Upper

252 100

253 34.2 0.0 45.4

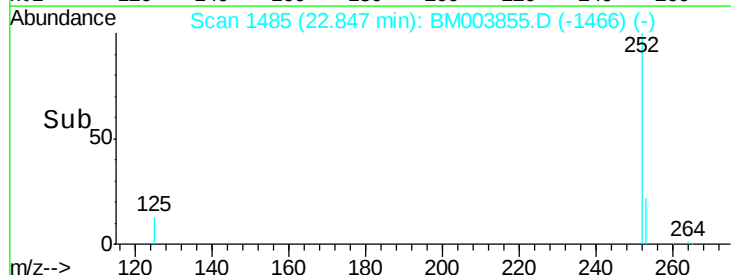
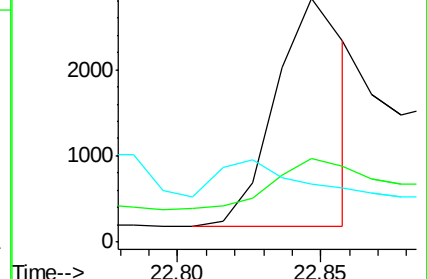
125 23.7 0.0 28.8

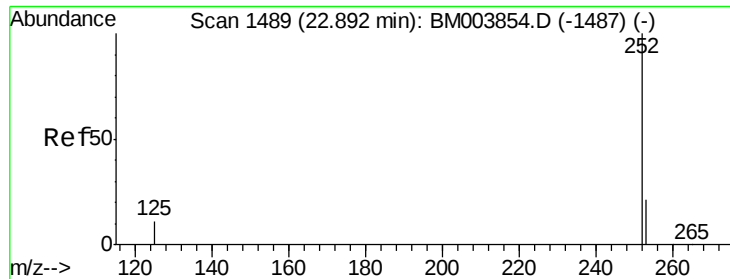


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#24

Benzo(k)fluoranthene

Concen: 0.00 ng/ul

RT: 22.85 min Scan# 1485

Delta R.T. -0.04 min

Lab File: BM003855.D

Acq: 29 Dec 2015 18:45

Instrument :

BNA\_M

ClientSampleId :

D9N57

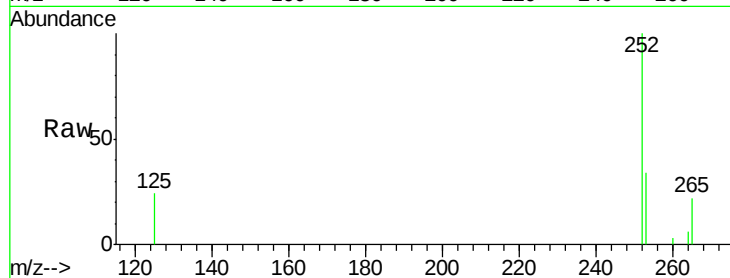
Tot Ion:252 Resp: 7697

Ion Ratio Lower Upper

252 100

253 34.2 19.8 29.8#

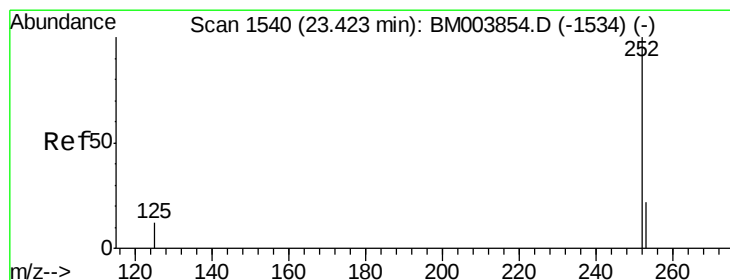
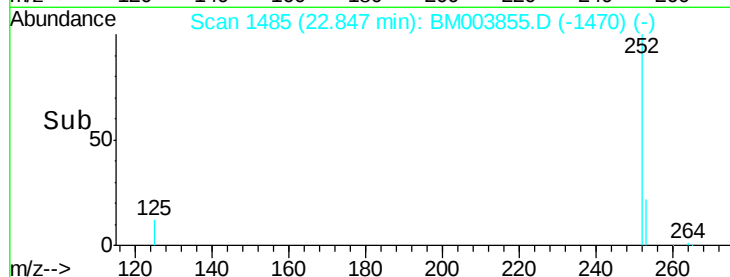
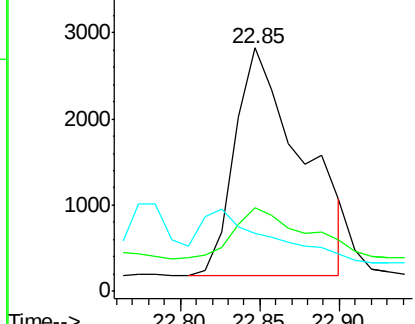
125 23.7 10.4 15.6#



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(a)pyrene

Concen: 0.00 ng/ul

RT: 23.33 min Scan# 1531

Delta R.T. -0.10 min

Lab File: BM003855.D

Acq: 29 Dec 2015 18:45

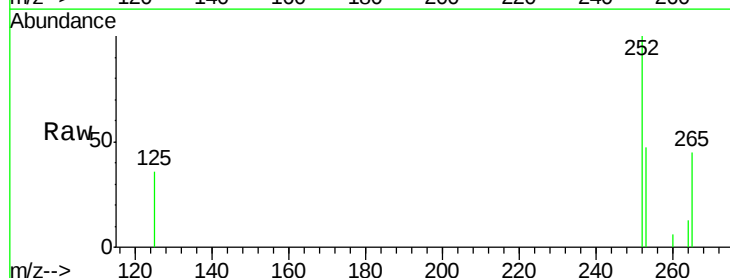
Tgt Ion:252 Resp: 2360

Ion Ratio Lower Upper

252 100

253 46.5 19.4 29.2#

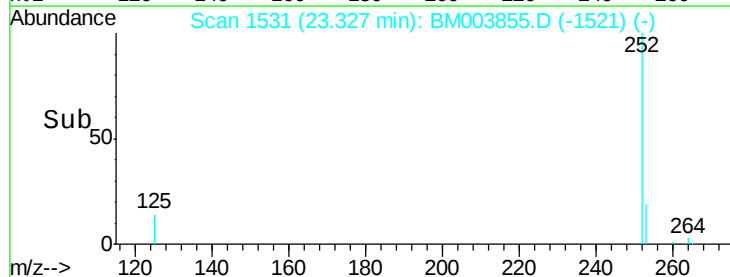
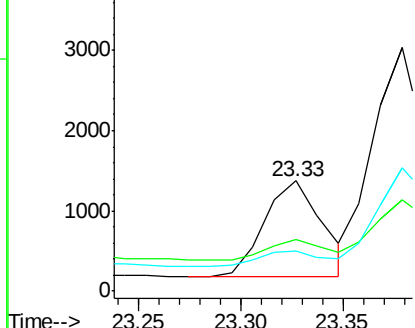
125 36.0 12.7 19.1#

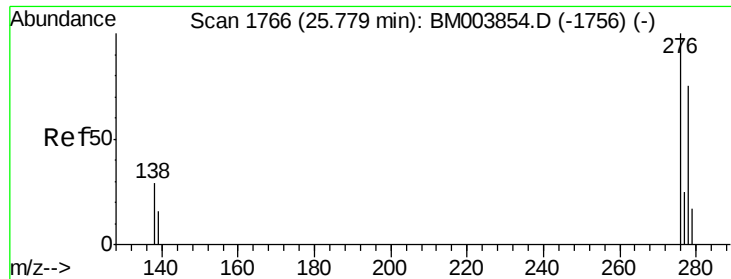


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Indeno(1,2,3-cd)pyrene

Concen: 0.00 ng/ul

RT: 25.54 min Scan# 1743

Delta R.T. -0.24 min

Lab File: BM003855.D

Acq: 29 Dec 2015 18:45

Instrument :

BNA\_M

ClientSampled :

D9N57

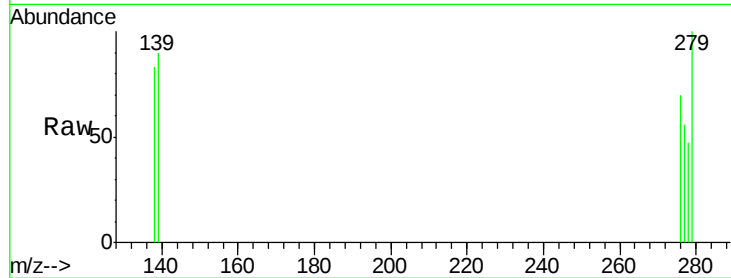
Tot Ion:276 Resp: 1031

Ion Ratio Lower Upper

276 100

138 69.0 16.3 24.5#

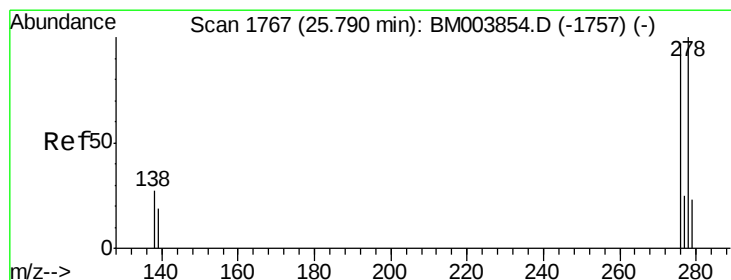
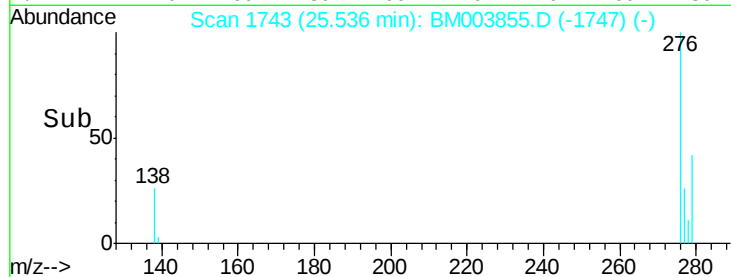
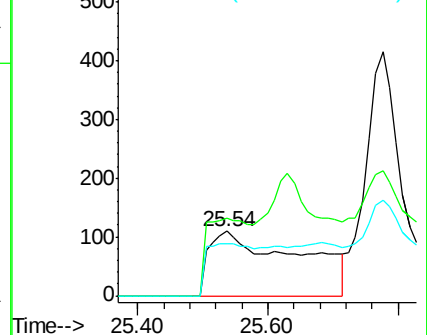
277 0.0 19.8 29.8#



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

Dibenzo(a,h)anthracene

Concen: 0.00 ng/ul

RT: 25.51 min Scan# 1740

Delta R.T. -0.28 min

Lab File: BM003855.D

Acq: 29 Dec 2015 18:45

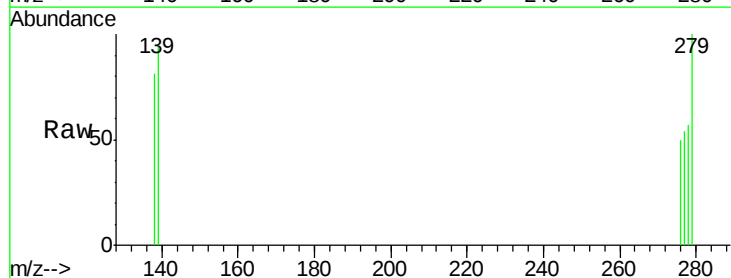
Tgt Ion:278 Resp: 1050

Ion Ratio Lower Upper

278 100

139 163.6 16.4 24.6#

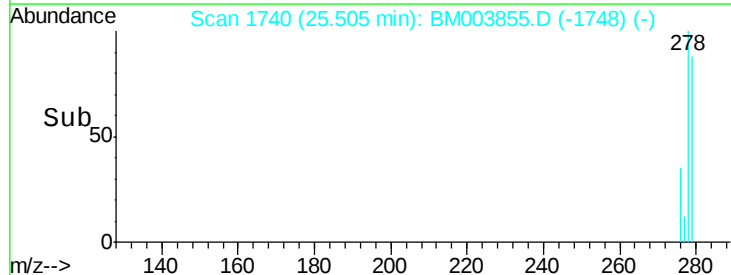
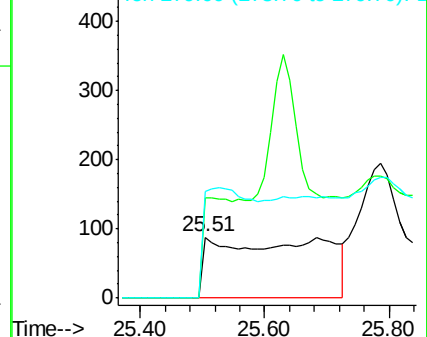
279 175.0 20.2 30.2#

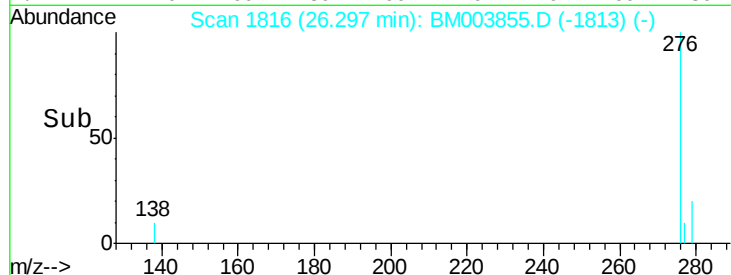
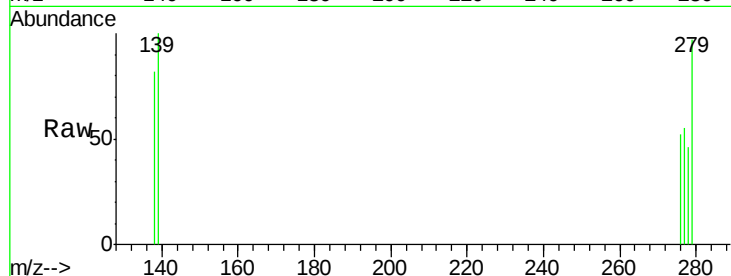
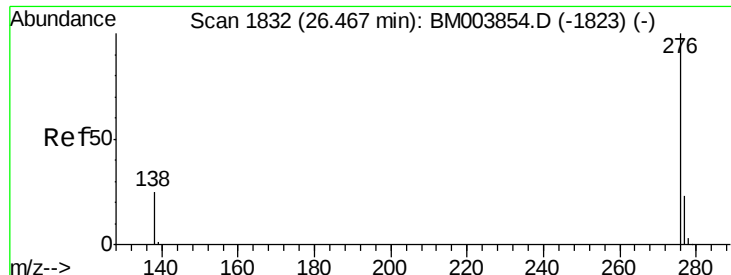


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#28

Benzo(a,h,i)perylene

Concen: 0.00 ng/ul

RT: 26.30 min Scan# 1816

Delta R.T. -0.17 min

Lab File: BM003855.D

Acq: 29 Dec 2015 18:45

Instrument :

BNA\_M

ClientSampleId :

D9N57

Tot Ion: 276 Resp: 41

Ion Ratio Lower Upper

276 100

277 105.2 18.9 28.3#

138 157.1 22.5 33.7#

