

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092815\  
 Data File : BM002740.D  
 Acq On : 28 Sep 2015 19:04  
 Operator : UM/IZ  
 Sample : G3798-21MSD  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9G73MSD

Quant Time: Sep 29 02:53:31 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM092415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 29 02:52:19 2015  
 Response via : Initial Calibration

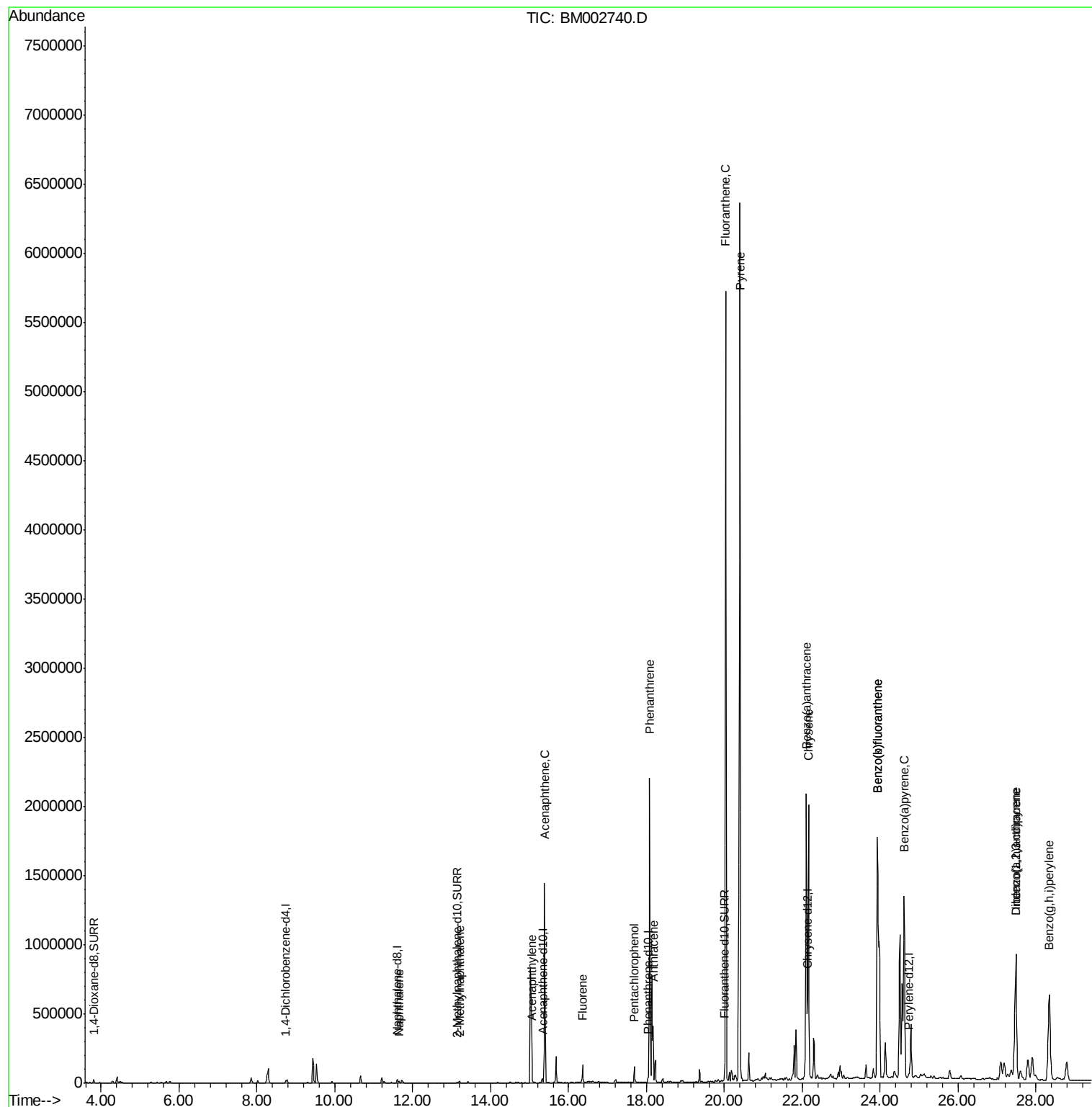
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.74  | 152  | 9438     | 0.40   | ng/ul | 0.00     |
| 4) Naphthalene-d8           | 11.60 | 136  | 36672    | 0.40   | ng/ul | 0.00     |
| 8) Acenaphthene-d10         | 15.33 | 164  | 20287    | 0.40   | ng/ul | 0.00     |
| 12) Phenanthrene-d10        | 18.03 | 188  | 41869    | 0.40   | ng/ul | 0.00     |
| 18) Chrysene-d12            | 22.13 | 240  | 42554    | 0.40   | ng/ul | 0.00     |
| 22) Perylene-d12            | 24.73 | 264  | 50110    | 0.40   | ng/ul | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 2) 1,4-Dioxane-d8           | 3.80  | 96   | 21483    | 2.21   | ng/uL | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 13.13 | 152  | 7867     | 0.15   | ng/ul | 0.00     |
| 16) Fluoranthene-d10        | 20.01 | 212  | 12850    | 0.12   | ng/ul | 0.00     |
| Target Compounds            |       |      |          | Ovalue |       |          |
| 5) Naphthalene              | 11.65 | 128  | 22341    | 0.22   | ng/ul | 99       |
| 7) 2-Methylnaphthalene      | 13.20 | 142  | 10884    | 0.17   | ng/ul | 99       |
| 9) Acenaphthylene           | 15.06 | 152  | 131295   | 1.25   | ng/ul | 96       |
| 10) Acenaphthene            | 15.38 | 153  | 890202   | 11.66  | ng/ul | 95       |
| 11) Fluorene                | 16.36 | 166  | 92522    | 1.06   | ng/ul | 90       |
| 13) Pentachlorophenol       | 17.69 | 266  | 87048    | 10.65  | ng/ul | 95       |
| 14) Phenanthrene            | 18.08 | 178  | 2410718  | 17.70  | ng/ul | 98       |
| 15) Anthracene              | 18.17 | 178  | 468540   | 3.72   | ng/ul | 96       |
| 17) Fluoranthene            | 20.03 | 202  | 5708270  | 38.52  | ng/ul | 97       |
| 19) Pyrene                  | 20.40 | 202  | 5872554  | 35.41  | ng/ul | 97       |
| 20) Benzo(a)anthracene      | 22.11 | 228  | 2131578  | 14.99  | ng/ul | 95       |
| 21) Chrysene                | 22.16 | 228  | 2396891  | 17.61  | ng/ul | 98       |
| 23) Benzo(b)fluoranthene    | 23.93 | 252  | 4539001  | 25.13  | ng/ul | 96       |
| 24) Benzo(k)fluoranthene    | 23.93 | 252  | 4539001  | 27.12  | ng/ul | 96       |
| 25) Benzo(a)pyrene          | 24.62 | 252  | 2007457  | 12.07  | ng/ul | 94       |
| 26) Indeno(1,2,3-cd)pyrene  | 27.48 | 276  | 1682961  | 9.07   | ng/ul | 94       |
| 27) Dibenzo(a,h)anthracene  | 27.47 | 278  | 386571   | 2.54   | ng/ul | 97       |
| 28) Benzo(a,h,i)perylene    | 28.34 | 276  | 1491905  | 9.48   | ng/ul | 97       |

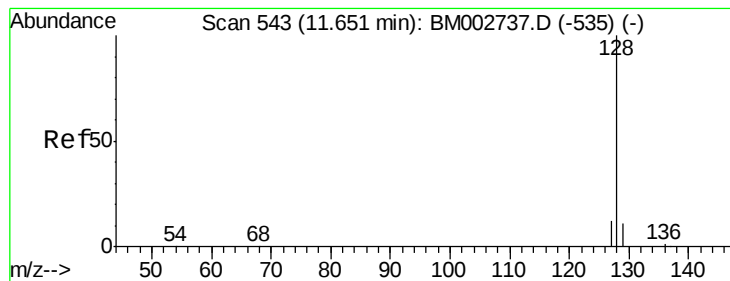
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Naphthalene

Concen: 0.22 ng/ul

RT: 11.65 min Scan# 543

Delta R.T. 0.00 min

Lab File: BM002740.D

Acq: 28 Sep 2015 19:04

Instrument :

BNA\_M

ClientSampleId :

D9G73MSD

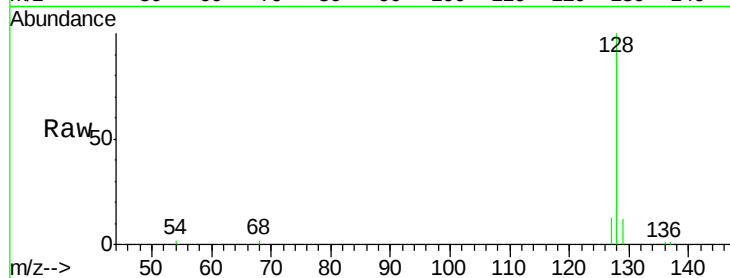
Tot Ion:128 Resp: 22341

Ion Ratio Lower Upper

128 100

129 12.1 9.8 14.8

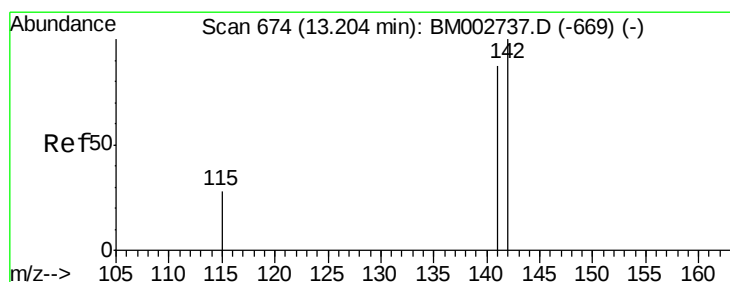
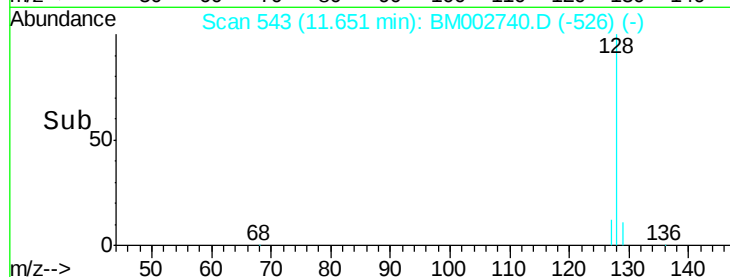
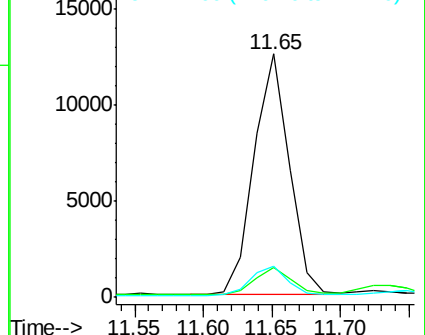
127 12.9 10.7 16.1



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



#7

2-Methylnaphthalene

Concen: 0.17 ng/ul

RT: 13.20 min Scan# 674

Delta R.T. 0.00 min

Lab File: BM002740.D

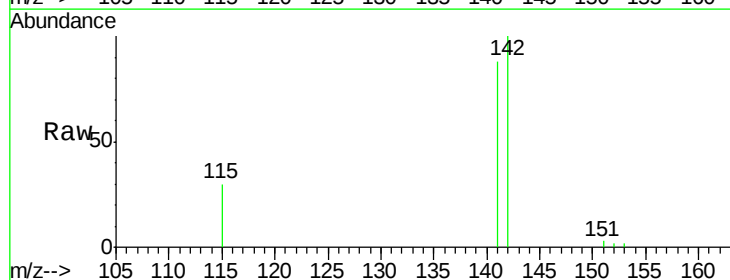
Acq: 28 Sep 2015 19:04

Tgt Ion:142 Resp: 10884

Ion Ratio Lower Upper

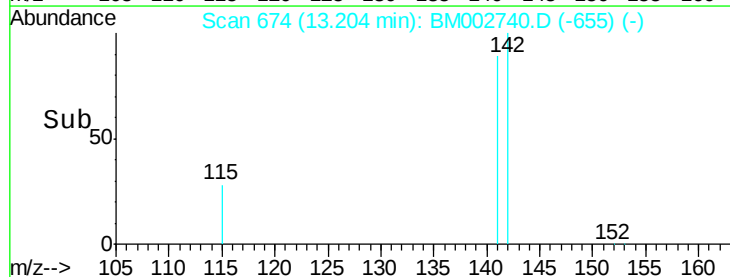
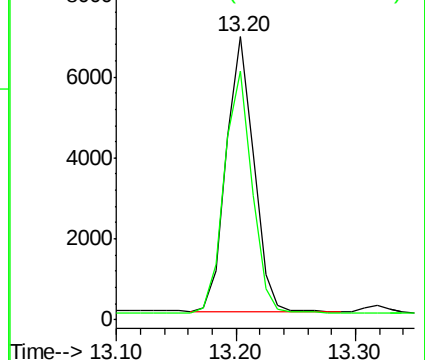
142 100

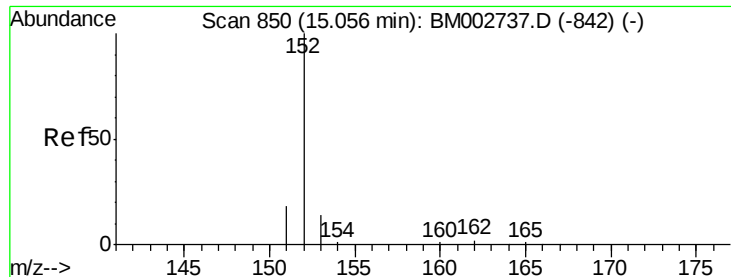
141 88.6 70.3 105.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#9

Acenaphthylene

Concen: 1.25 ng/ul

RT: 15.06 min Scan# 850

Delta R.T. 0.00 min

Lab File: BM002740.D

Acq: 28 Sep 2015 19:04

Instrument :

BNA\_M

ClientSampleId :

D9G73MSD

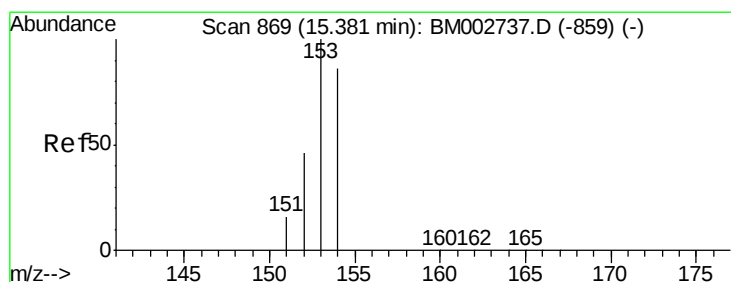
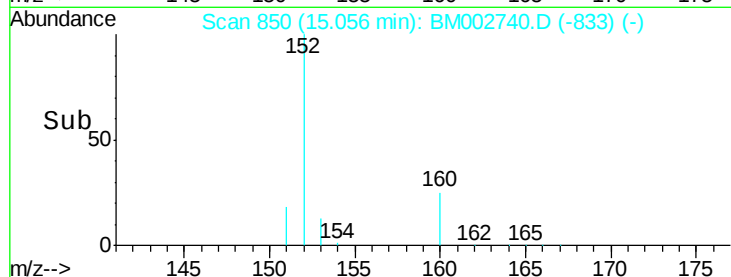
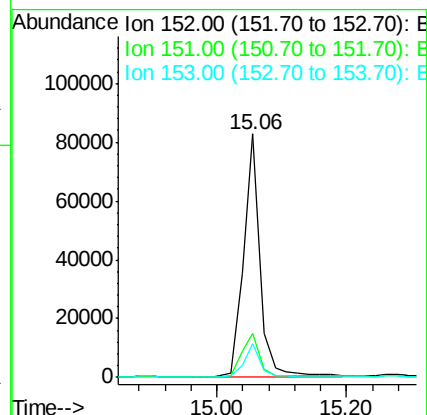
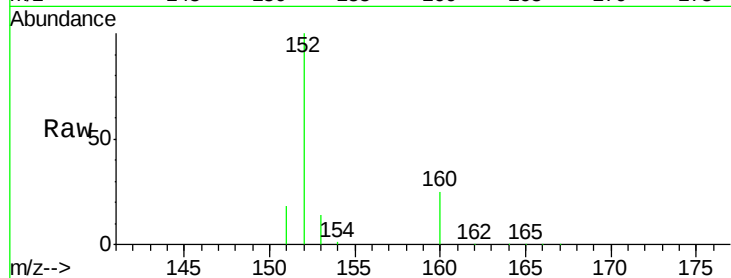
Tot Ion:152 Resp: 131295

Ion Ratio Lower Upper

152 100

151 18.2 16.8 25.2

153 13.7 11.3 16.9



#10

Acenaphthene

Concen: 11.66 ng/ul

RT: 15.38 min Scan# 869

Delta R.T. 0.00 min

Lab File: BM002740.D

Acq: 28 Sep 2015 19:04

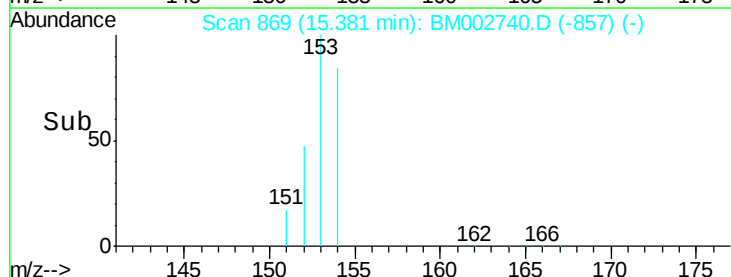
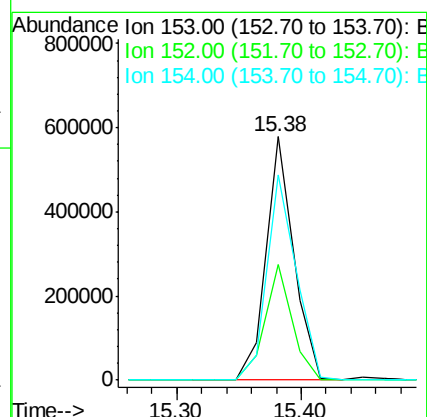
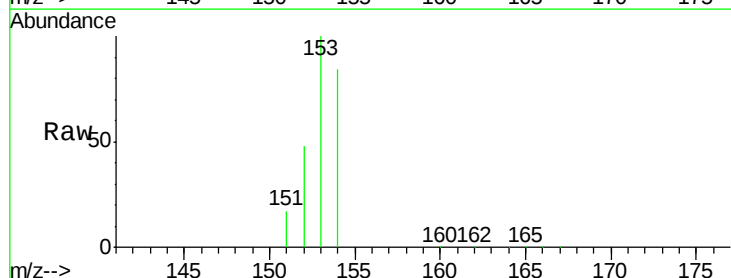
Tgt Ion:153 Resp: 890202

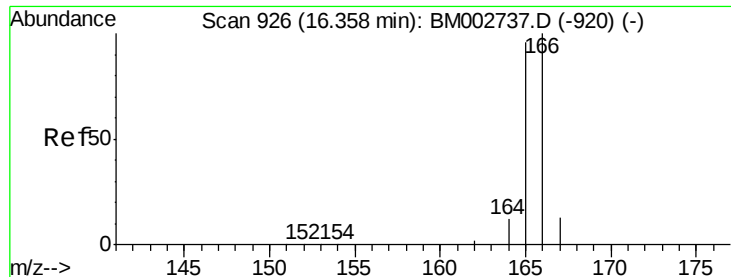
Ion Ratio Lower Upper

153 100

152 47.6 42.3 63.5

154 84.3 64.7 97.1

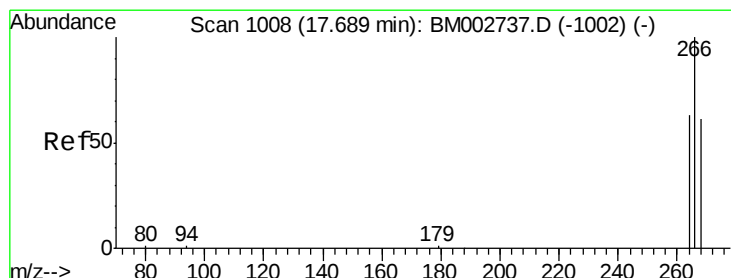
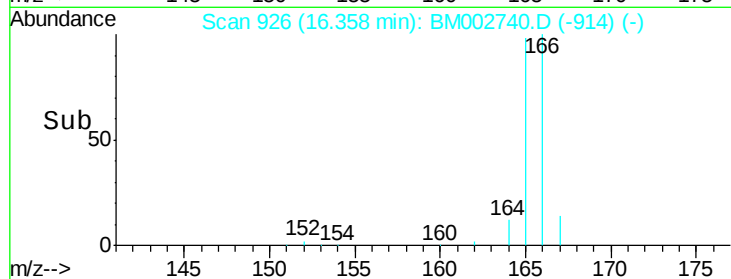
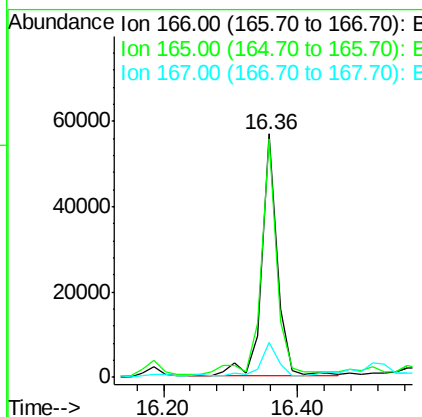
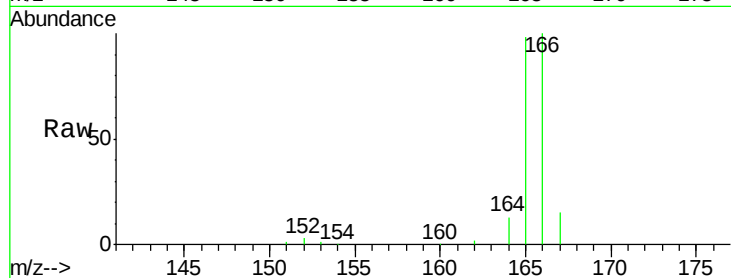




#11  
**Fluorene**  
 Concen: 1.06 ng/ul  
 RT: 16.36 min Scan# 926  
 Delta R.T. 0.00 min  
 Lab File: BM002740.D  
 Acq: 28 Sep 2015 19:04

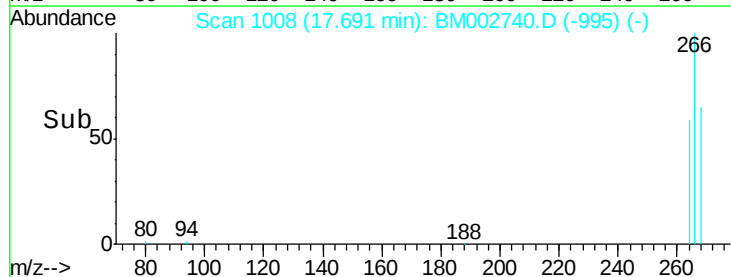
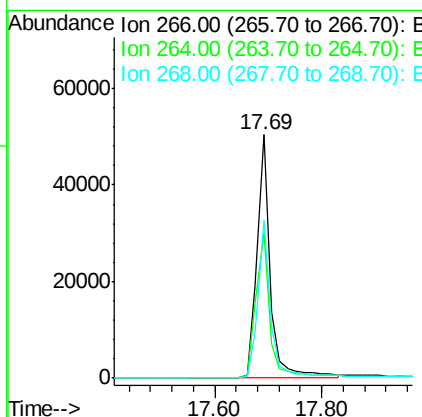
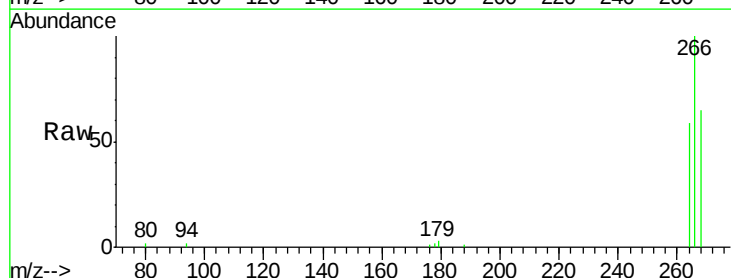
Instrument :  
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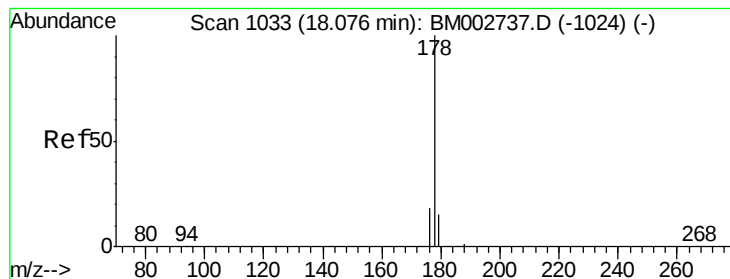
Tot Ion:166 Resp: 92522  
 Ion Ratio Lower Upper  
 166 100  
 165 98.1 87.6 131.4  
 167 14.6 11.1 16.7



#13  
**Pentachlorophenol**  
 Concen: 10.65 ng/ul  
 RT: 17.69 min Scan# 1008  
 Delta R.T. 0.00 min  
 Lab File: BM002740.D  
 Acq: 28 Sep 2015 19:04

Tgt Ion:266 Resp: 87048  
 Ion Ratio Lower Upper  
 266 100  
 264 62.8 53.5 80.3  
 268 63.7 54.2 81.2





#14

Phenanthrene

Concen: 17.70 ng/ul

RT: 18.08 min Scan# 1033

Delta R.T. 0.00 min

Lab File: BM002740.D

Acq: 28 Sep 2015 19:04

Instrument :

BNA\_M

ClientSampleId :

D9G73MSD

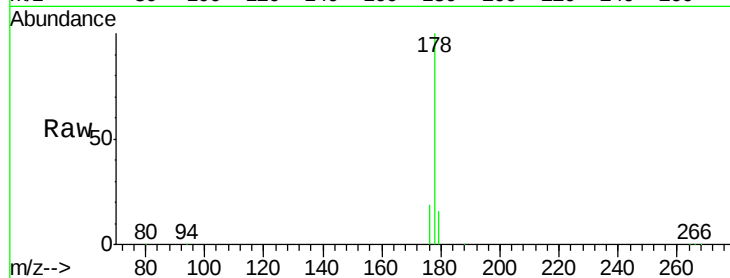
Tot Ion:178 Resp: 2410718

Ion Ratio Lower Upper

178 100

176 18.5 16.2 24.4

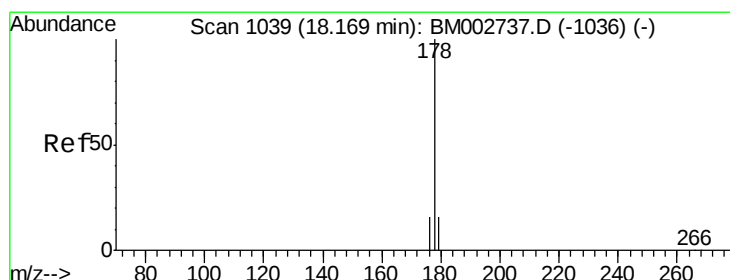
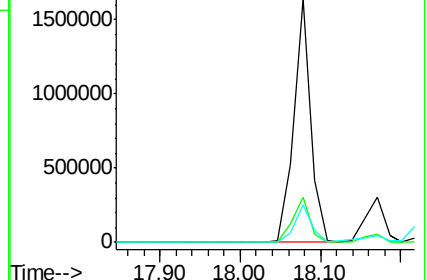
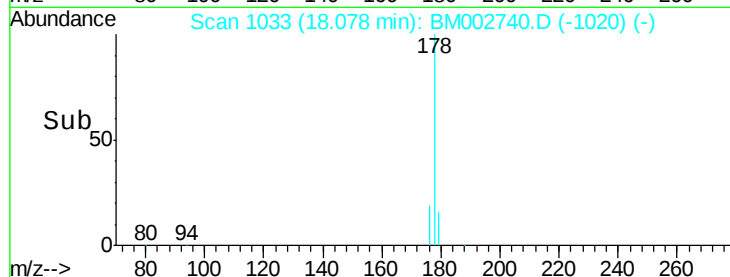
179 15.7 12.8 19.2



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



#15

Anthracene

Concen: 3.72 ng/ul

RT: 18.17 min Scan# 1039

Delta R.T. 0.00 min

Lab File: BM002740.D

Acq: 28 Sep 2015 19:04

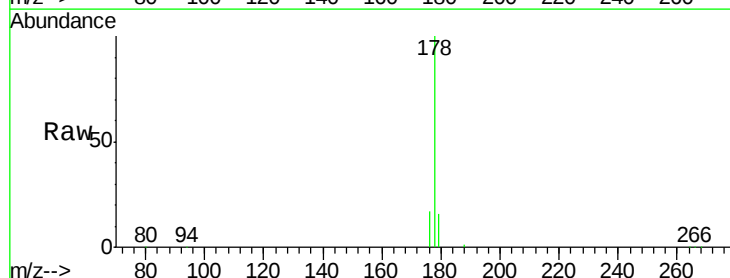
Tgt Ion:178 Resp: 468540

Ion Ratio Lower Upper

178 100

176 16.7 15.8 23.8

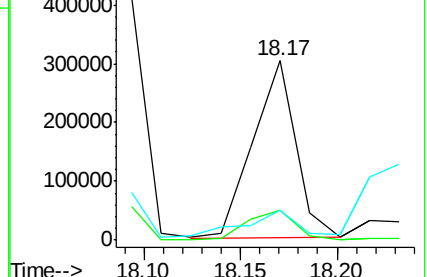
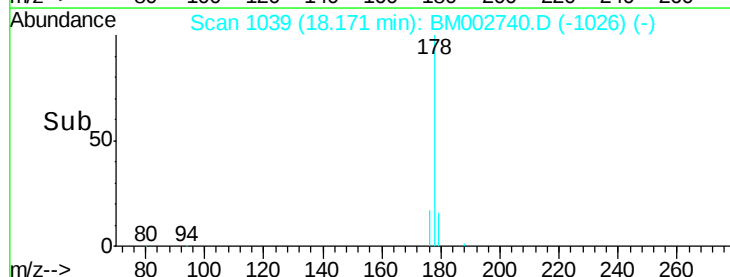
179 16.5 13.3 19.9

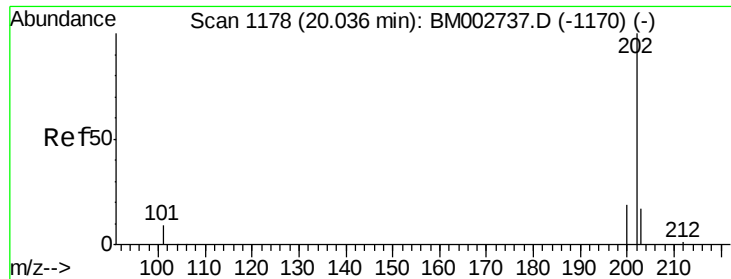


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

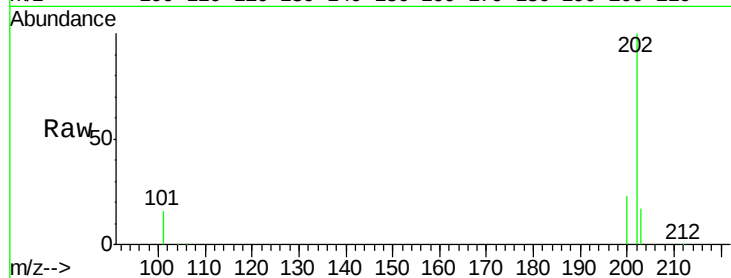




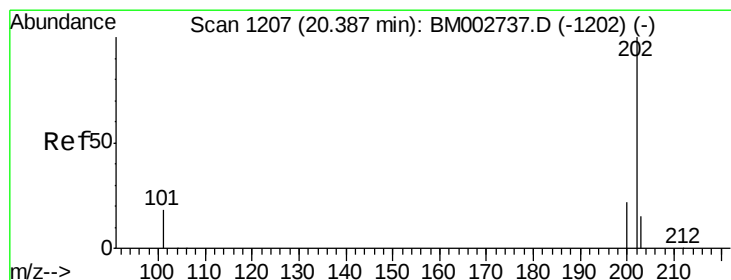
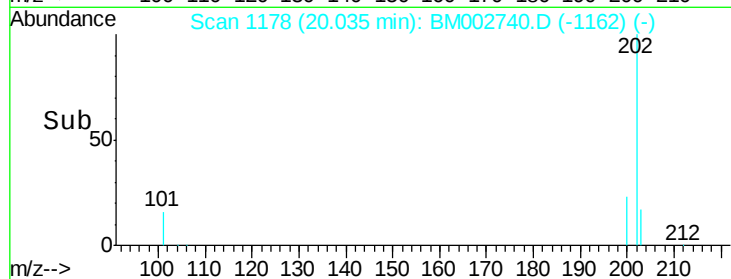
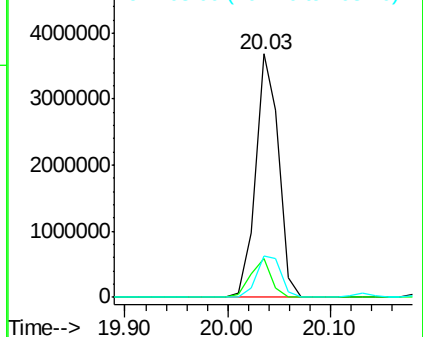
#17  
 Fluoranthene  
 Concen: 38.52 ng/ul  
 RT: 20.03 min Scan# 1178  
 Delta R.T. -0.00 min  
 Lab File: BM002740.D  
 Acq: 28 Sep 2015 19:04

Instrument :  
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Tot Ion:202 Resp: 5708270  
 Ion Ratio Lower Upper  
 202 100  
 101 15.7 0.0 33.1  
 203 16.9 0.0 37.2

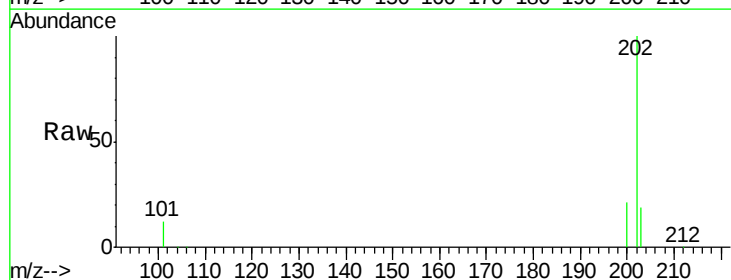


Abundance Ion 202.00 (201.70 to 202.70): E  
 5000000  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E

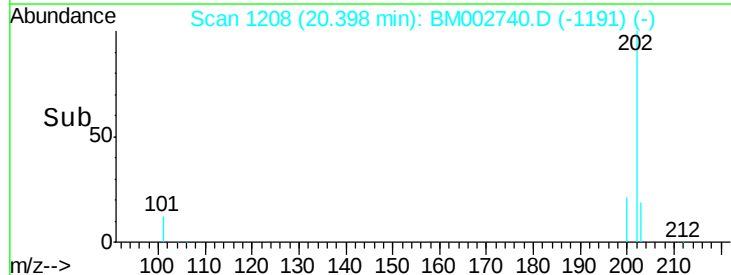
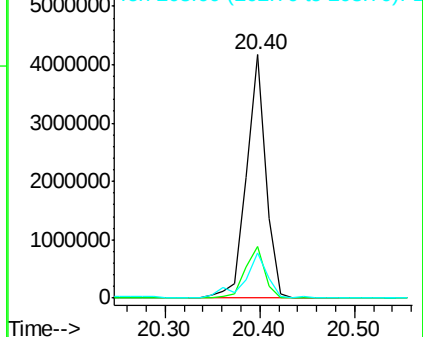


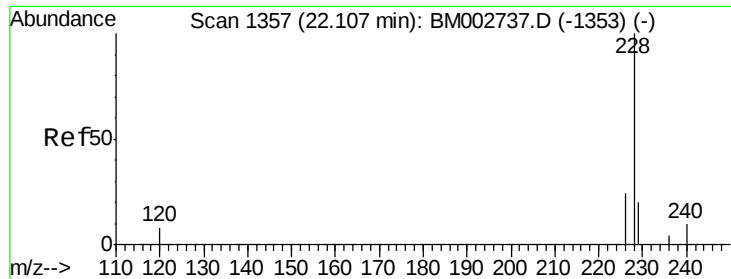
#19  
 Pyrene  
 Concen: 35.41 ng/ul  
 RT: 20.40 min Scan# 1208  
 Delta R.T. 0.01 min  
 Lab File: BM002740.D  
 Acq: 28 Sep 2015 19:04

Tgt Ion:202 Resp: 5872554  
 Ion Ratio Lower Upper  
 202 100  
 200 21.3 18.0 27.0  
 203 18.7 13.8 20.6



Abundance Ion 202.00 (201.70 to 202.70): E  
 5000000  
 Ion 200.00 (199.70 to 200.70): E  
 Ion 203.00 (202.70 to 203.70): E





#20

Benzo(a)anthracene

Concen: 14.99 ng/ul

RT: 22.11 min Scan# 1357

Delta R.T. -0.00 min

Lab File: BM002740.D

Acq: 28 Sep 2015 19:04

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ClientSampleId :

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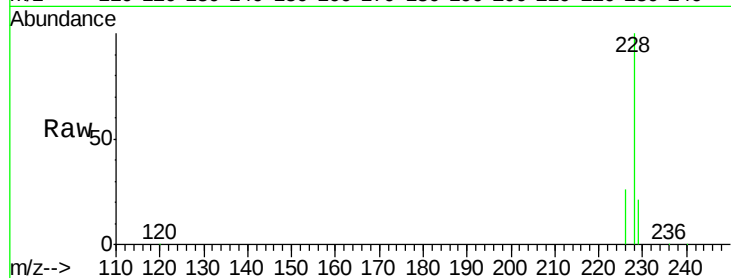
Tot Ion:228 Resp: 2131578

Ion Ratio Lower Upper

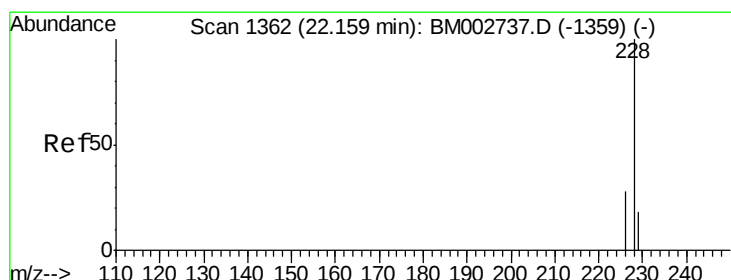
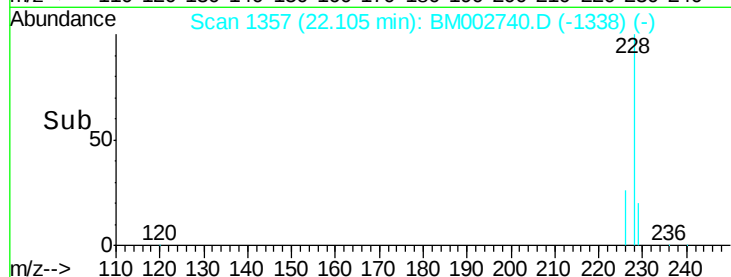
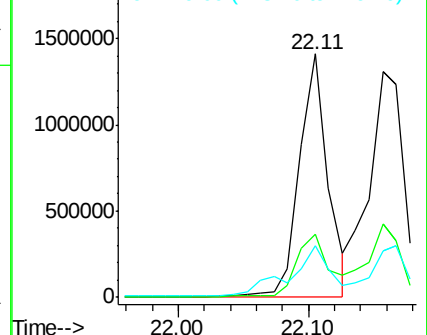
228 100

226 26.0 23.0 34.4

229 21.0 15.2 22.8



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



#21

Chrysene

Concen: 17.61 ng/ul

RT: 22.16 min Scan# 1362

Delta R.T. -0.00 min

Lab File: BM002740.D

Acq: 28 Sep 2015 19:04

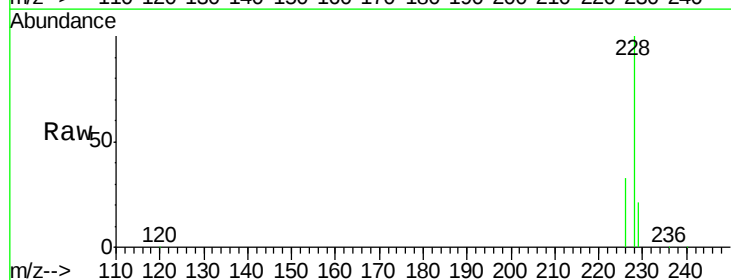
Tgt Ion:228 Resp: 2396891

Ion Ratio Lower Upper

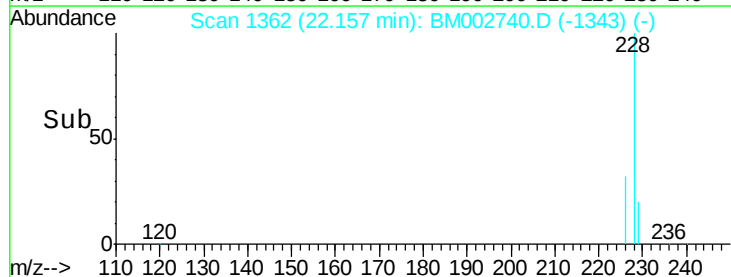
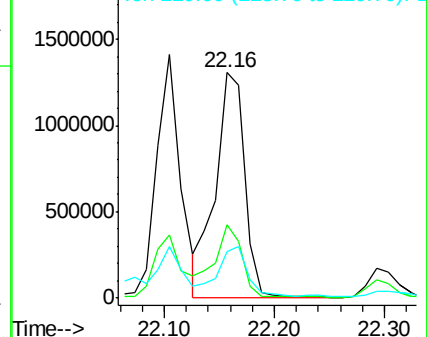
228 100

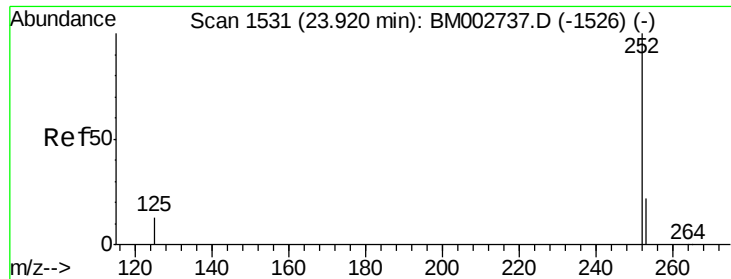
226 32.6 25.7 38.5

229 20.5 15.2 22.8



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: 25.13 ng/ul

RT: 23.93 min Scan# 1532

Delta R.T. 0.01 min

Lab File: BM002740.D

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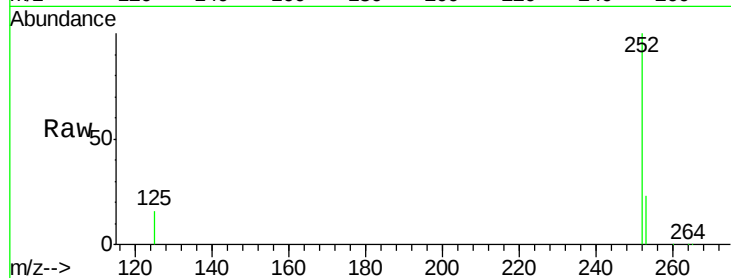
Tot Ion:252 Resp: 4539001

Ion Ratio Lower Upper

252 100

253 22.9 0.0 48.0

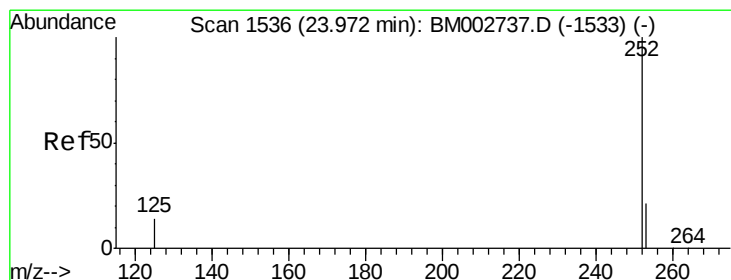
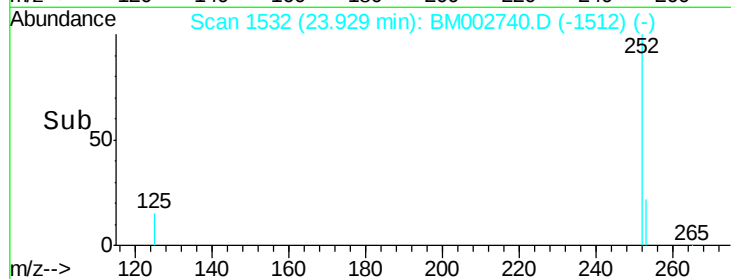
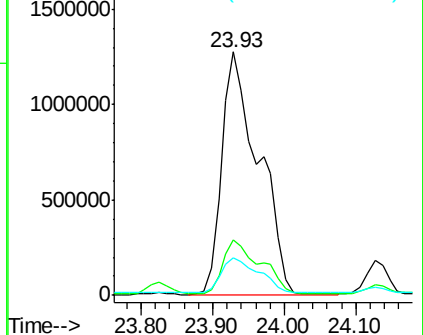
125 15.6 0.0 36.6



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



#24

Benzo(k)fluoranthene

Concen: 27.12 ng/ul

RT: 23.93 min Scan# 1532

Delta R.T. -0.04 min

Lab File: BM002740.D

Acq: 28 Sep 2015 19:04

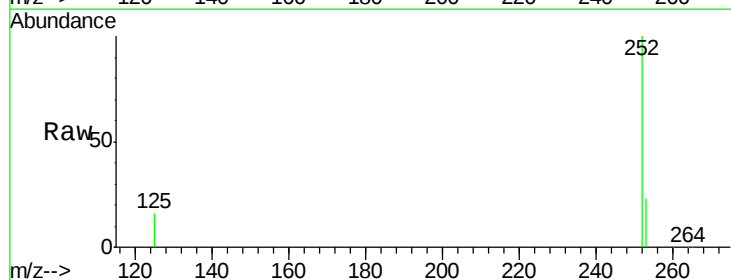
Tgt Ion:252 Resp: 4539001

Ion Ratio Lower Upper

252 100

253 22.9 20.8 31.2

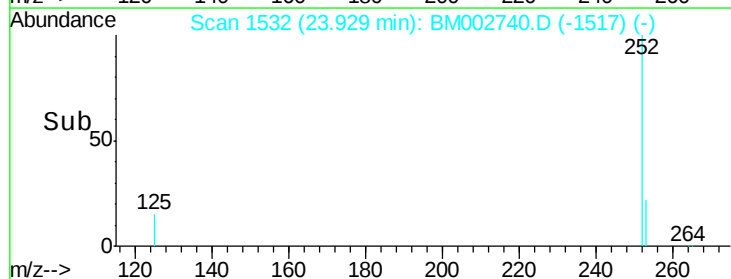
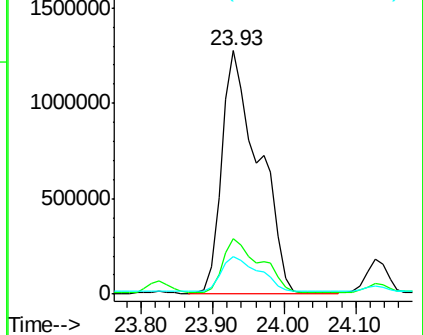
125 15.6 12.2 18.4

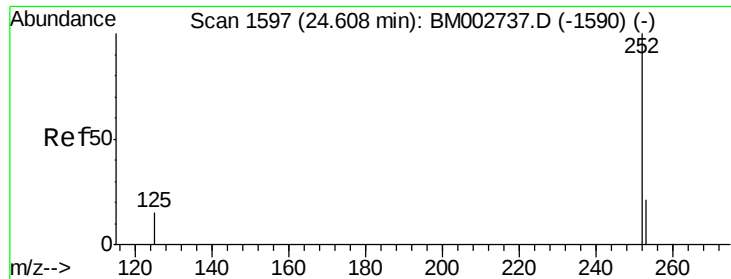


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 12.07 ng/ul

RT: 24.62 min Scan# 1598

Delta R.T. 0.01 min

Lab File: BM002740.D

Acq: 28 Sep 2015 19:04

Instrument :

BNA\_M

ClientSampleId :

D9G73MSD

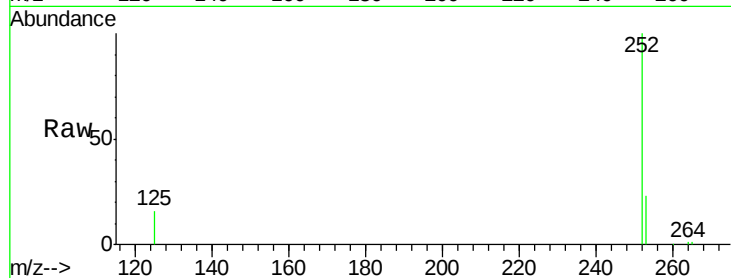
Tot Ion:252 Resp: 2007457

Ion Ratio Lower Upper

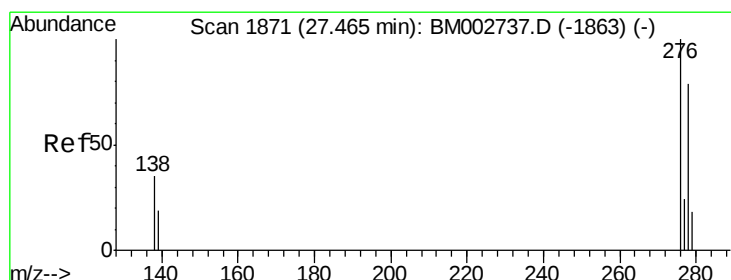
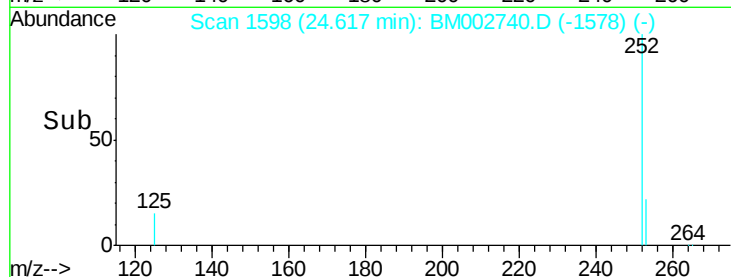
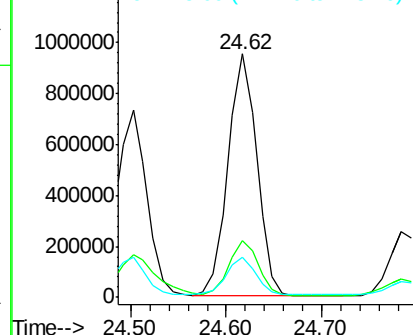
252 100

253 23.3 21.8 32.8

125 16.3 14.5 21.7



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: 9.07 ng/ul

RT: 27.48 min Scan# 1873

Delta R.T. 0.02 min

Lab File: BM002740.D

Acq: 28 Sep 2015 19:04

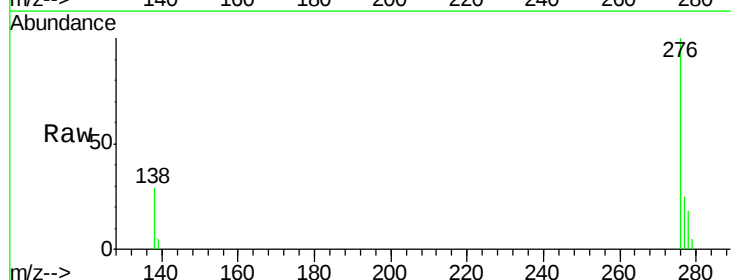
Tgt Ion:276 Resp: 1682961

Ion Ratio Lower Upper

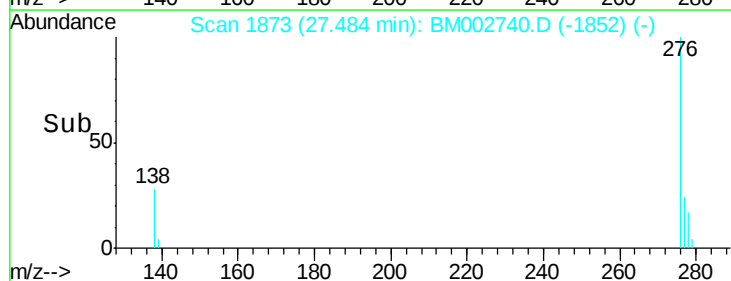
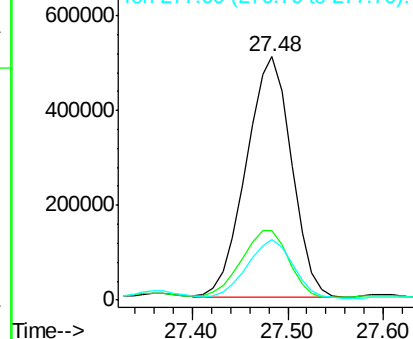
276 100

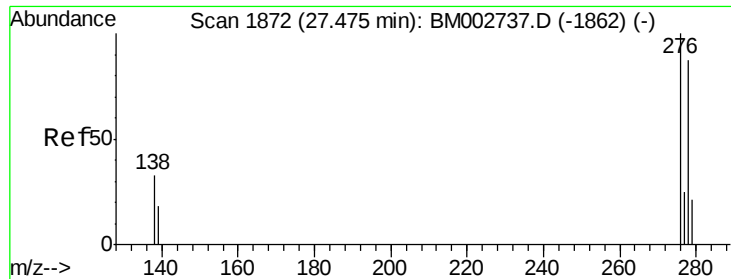
138 29.2 27.5 41.3

277 24.5 19.3 28.9



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



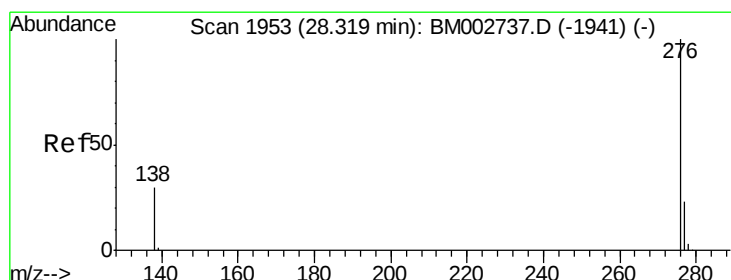
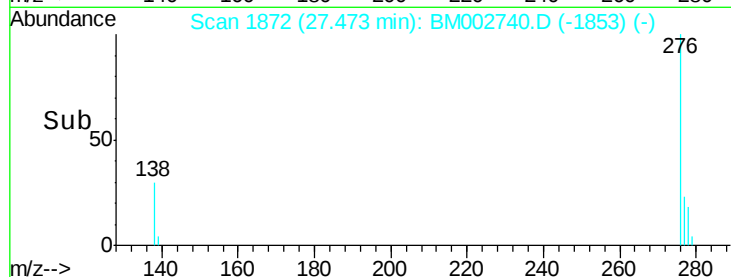
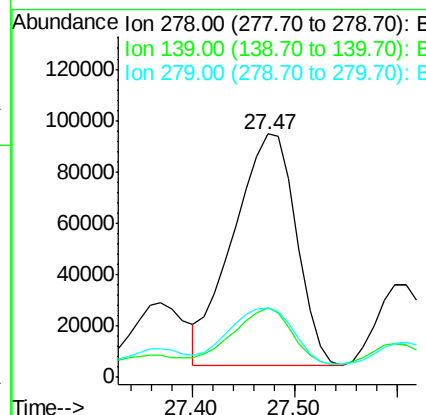
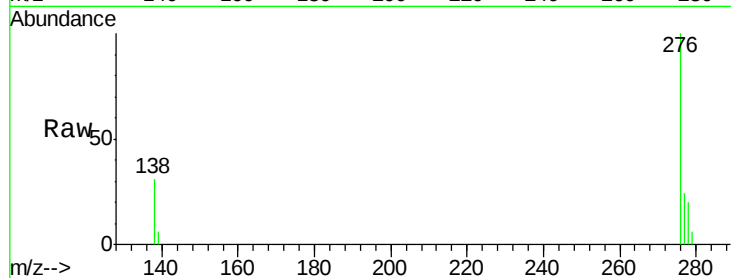


#27  
Dibenzo(a,h)anthracene  
Concen: 2.54 ng/ul  
RT: 27.47 min Scan# 1872  
Delta R.T. -0.00 min  
Lab File: BM002740.D  
Acq: 28 Sep 2015 19:04

Instrument :  
BNA\_M  
ClientSampleId :  
D9G73MSD

Tot Ion:278 Resp: 386571  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 28.4  | 21.7  | 32.5  |
| 279 | 28.7  | 21.9  | 32.9  |



#28  
Benzo(g,h,i)perylene  
Concen: 9.48 ng/ul  
RT: 28.34 min Scan# 1955  
Delta R.T. 0.02 min  
Lab File: BM002740.D  
Acq: 28 Sep 2015 19:04

Tgt Ion:276 Resp: 1491905  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 24.4  | 21.3  | 31.9  |
| 138 | 31.1  | 25.5  | 38.3  |

