

Data Path : Z:\HPCHEM1\BNA E\DATA\BE112215\  
 Data File : BE091285.D  
 Acq On : 21 Nov 2015 20:29  
 Operator : UM/NP  
 Sample : G4345-21  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 A4J66

Quant Time: Nov 22 02:20:36 2015  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Nov 22 01:59:17 2015  
 Response via : Initial Calibration

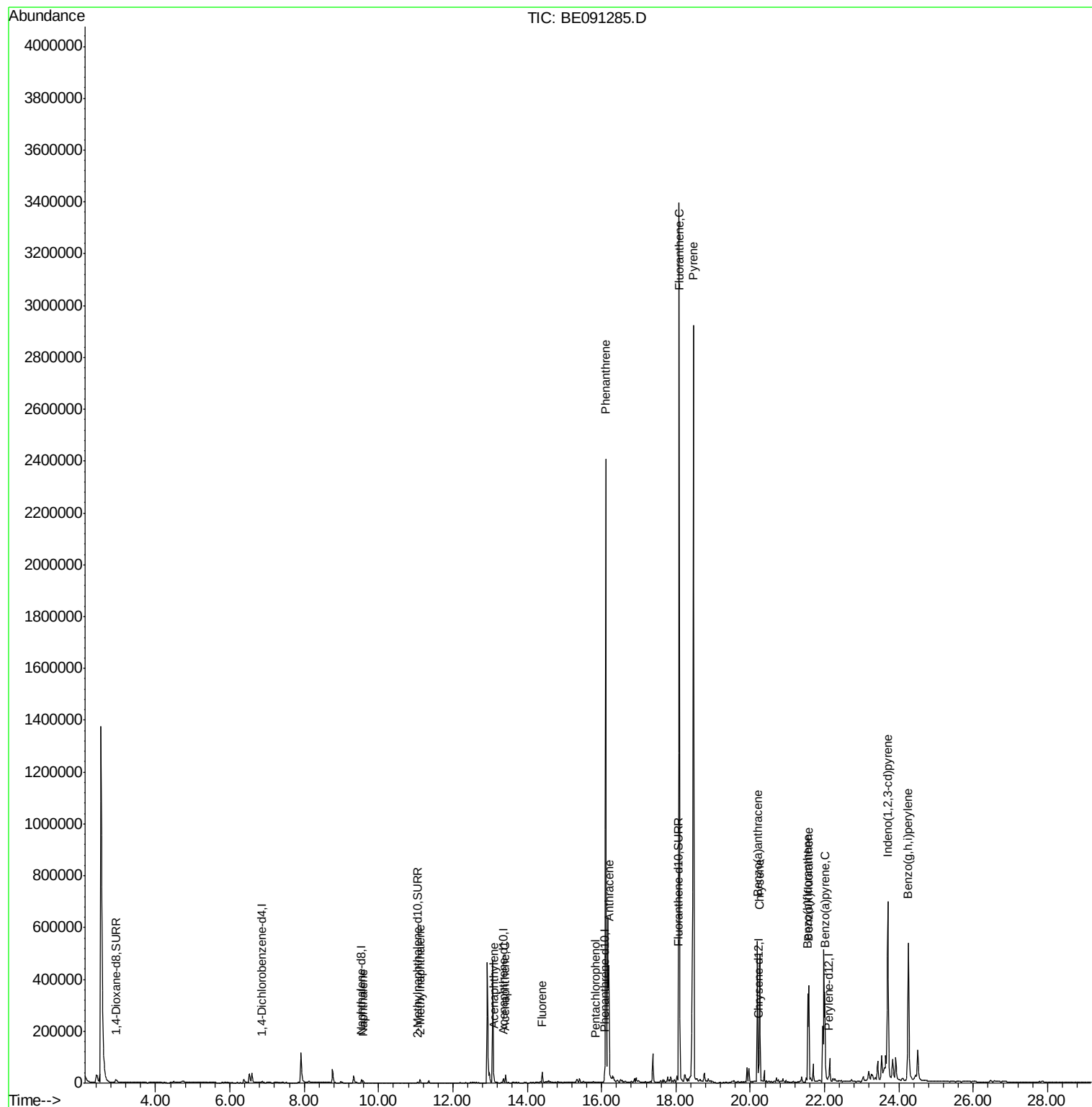
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.87  | 152  | 3267     | 0.40   | ng/ul  | -0.01    |
| 4) Naphthalene-d8           | 9.54  | 136  | 15712    | 0.40   | ng/ul  | -0.02    |
| 8) Acenaphthene-d10         | 13.36 | 164  | 8745     | 0.40   | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 16.08 | 188  | 19878    | 0.40   | ng/ul  | -0.01    |
| 18) Chrysene-d12            | 20.22 | 240  | 23641    | 0.40   | ng/ul  | 0.00     |
| 22) Perylene-d12            | 22.10 | 264  | 24392    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 2) 1,4-Dioxane-d8           | 2.93  | 96   | 15472    | 6.58   | ng/uL  | -0.03    |
| 6) 2-Methylnaphthalene-d10  | 11.05 | 152  | 3509     | 0.16   | ng/ul  | 0.00     |
| 16) Fluoranthene-d10        | 18.06 | 212  | 7724     | 0.14   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 5) Naphthalene              | 9.58  | 128  | 12087    | 0.31   | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 11.12 | 142  | 10183    | 0.40   | ng/ul  | 99       |
| 9) Acenaphthylene           | 13.11 | 152  | 11118    | 0.25   | ng/ul  | 100      |
| 10) Acenaphthene            | 13.42 | 153  | 15843    | 0.53   | ng/ul  | 92       |
| 11) Fluorene                | 14.40 | 166  | 24667    | 0.64   | ng/ul  | 93       |
| 13) Pentachlorophenol       | 15.85 | 266  | 297      | 0.16   | ng/ul  | 88       |
| 14) Phenanthrene            | 16.11 | 178  | 2264270  | 9.86   | ng/ul  | 99       |
| 15) Anthracene              | 16.20 | 178  | 530000m  | 2.54   | ng/ul  |          |
| 17) Fluoranthene            | 18.09 | 202  | 3564332  | 13.27  | ng/ul  | 89       |
| 19) Pyrene                  | 18.47 | 202  | 2966007  | 11.04  | ng/ul# | 79       |
| 20) Benzo(a)anthracene      | 20.19 | 228  | 420758m  | 6.93   | ng/ul  |          |
| 21) Chrysene                | 20.25 | 228  | 436555   | 6.24   | ng/ul  | 98       |
| 23) Benzo(b)fluoranthene    | 21.55 | 252  | 326417   | 4.29   | ng/ul  | 95       |
| 24) Benzo(k)fluoranthene    | 21.58 | 252  | 342244   | 4.38   | ng/ul  | 96       |
| 25) Benzo(a)pyrene          | 22.01 | 252  | 351976   | 5.02   | ng/ul  | 92       |
| 26) Indeno(1,2,3-cd)pyrene  | 23.70 | 276  | 902850   | 3.05   | ng/ul# | 91       |
| 28) Benzo(a,h,i)perylene    | 24.25 | 276  | 845078   | 2.73   | ng/ul  | 96       |

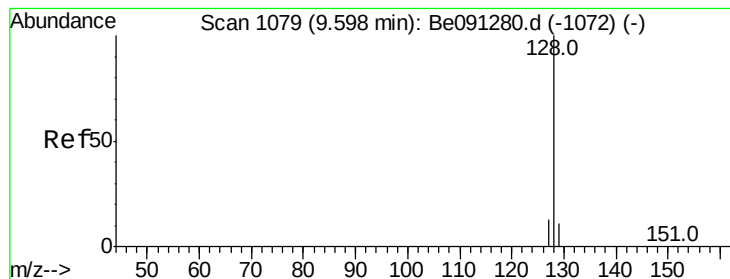
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Naphthalene

Concen: 0.31 ng/ul

RT: 9.58 min Scan# 1077

Delta R.T. -0.02 min

Lab File: BE091285.D

Acq: 21 Nov 2015 20:29

Instrument :

BNA\_E

ClientSampleId :

A4J66

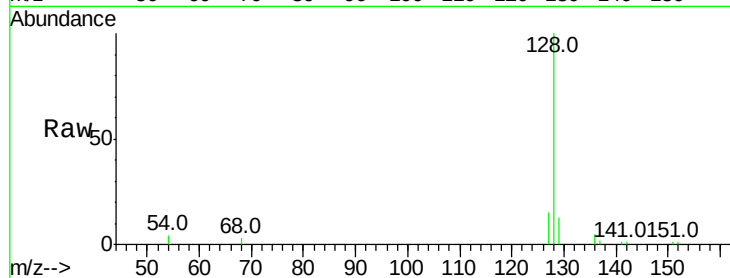
Tot Ion:128 Resp: 12087

Ion Ratio Lower Upper

128 100

129 12.7 9.8 14.8

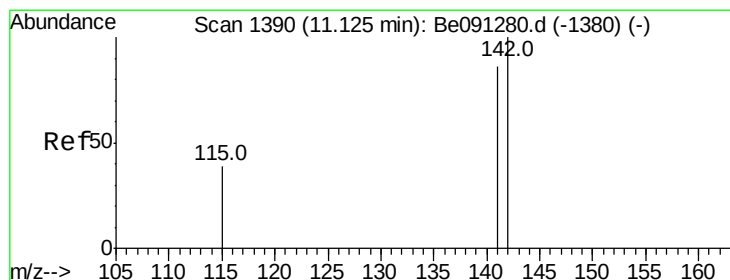
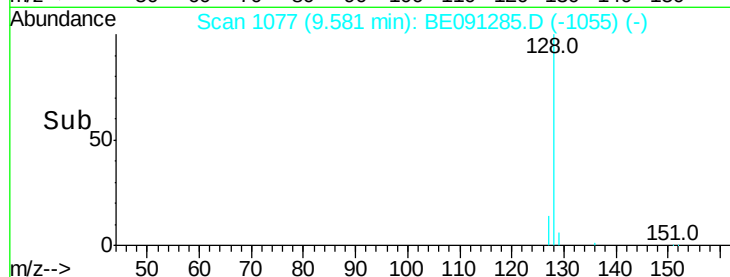
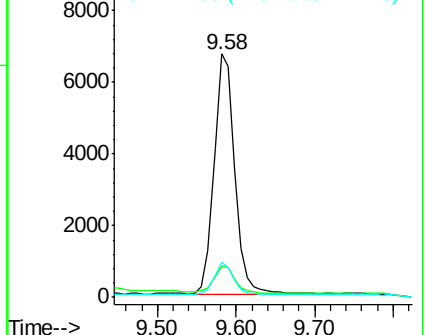
127 14.6 10.7 16.1



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: 0.40 ng/ul

RT: 11.12 min Scan# 1388

Delta R.T. -0.01 min

Lab File: BE091285.D

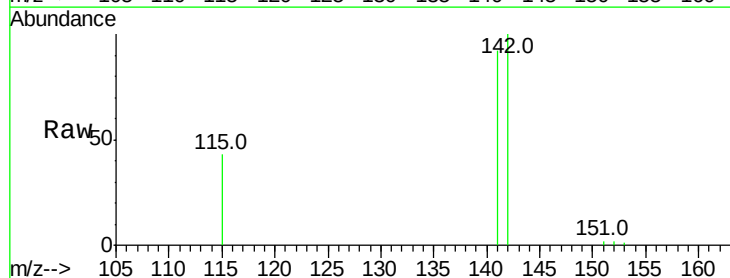
Acq: 21 Nov 2015 20:29

Tgt Ion:142 Resp: 10183

Ion Ratio Lower Upper

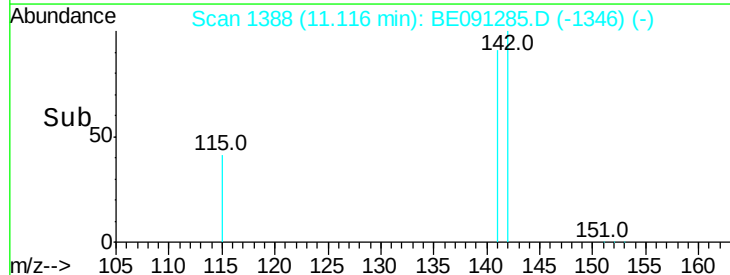
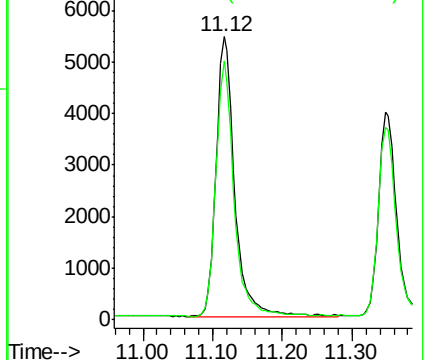
142 100

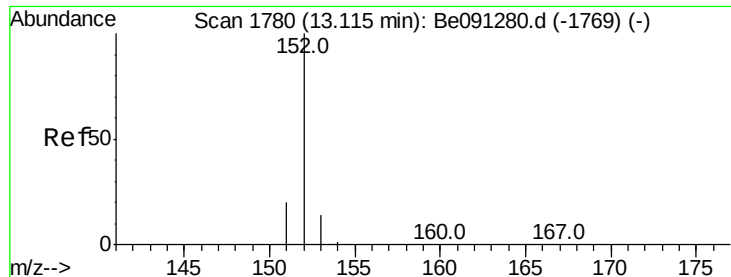
141 88.8 70.3 105.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#9

Acenaphthylene

Concen: 0.25 ng/ul

RT: 13.11 min Scan# 1779

Delta R.T. -0.01 min

Lab File: BE091285.D

Acq: 21 Nov 2015 20:29

Instrument :

BNA\_E

ClientSampleId :

A4J66

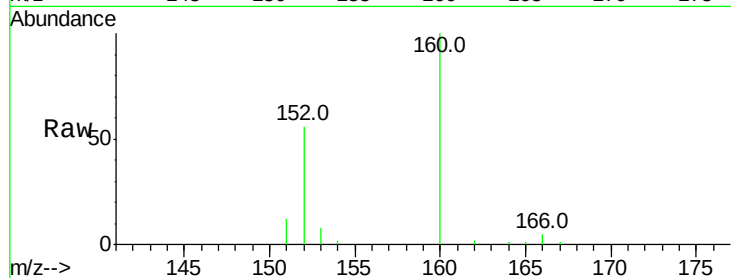
Tot Ion:152 Resp: 11118

Ion Ratio Lower Upper

152 100

151 21.0 16.8 25.2

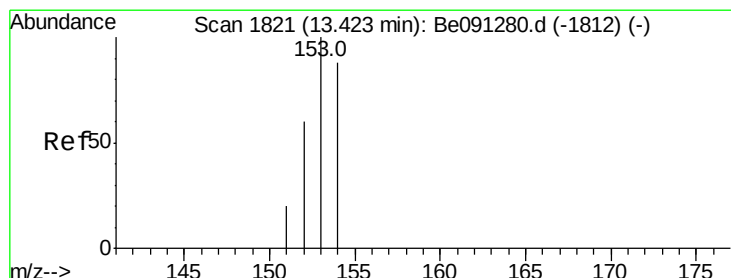
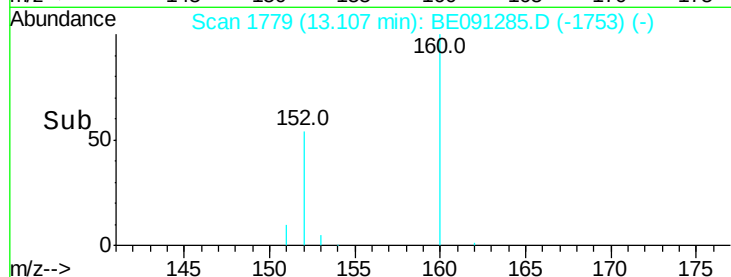
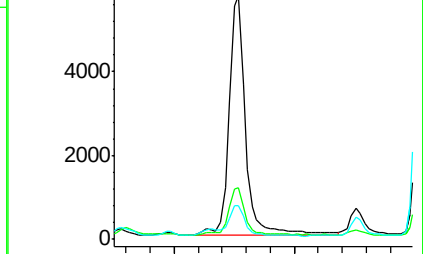
153 13.8 11.3 16.9



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



#10

Acenaphthene

Concen: 0.53 ng/ul

RT: 13.42 min Scan# 1820

Delta R.T. -0.01 min

Lab File: BE091285.D

Acq: 21 Nov 2015 20:29

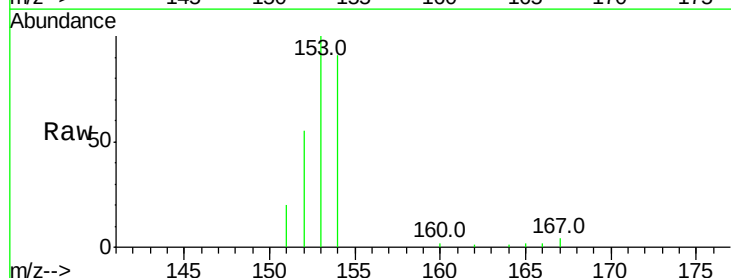
Tgt Ion:153 Resp: 15843

Ion Ratio Lower Upper

153 100

152 55.5 42.3 63.5

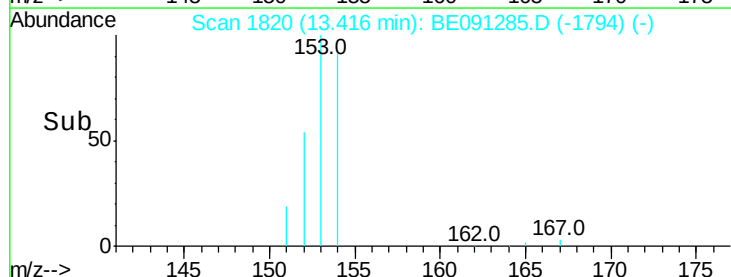
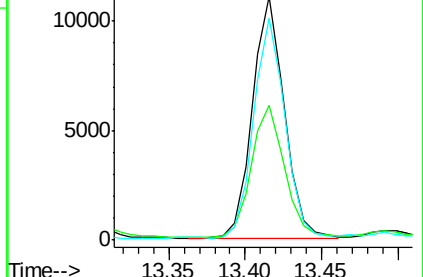
154 91.2 64.7 97.1

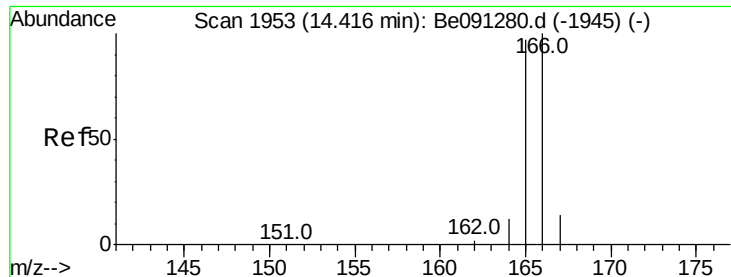


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

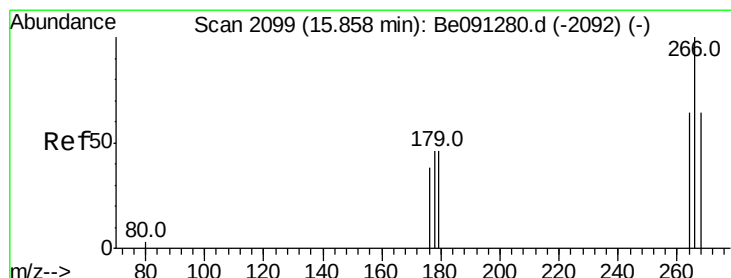
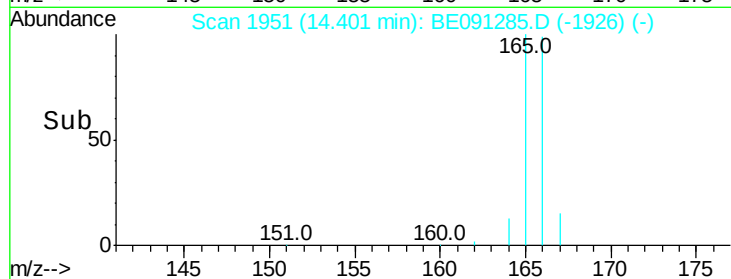
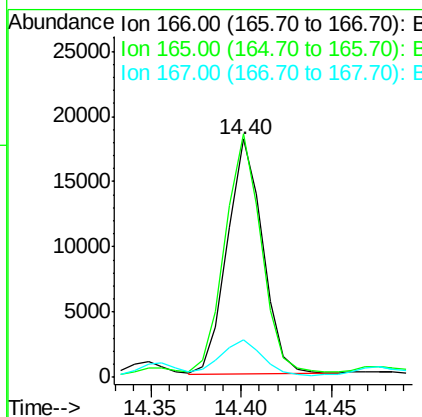
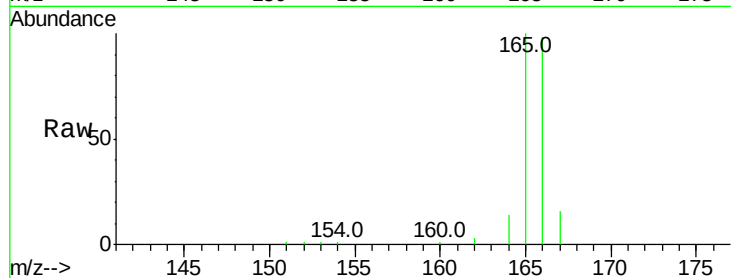




#11  
 Fluorene  
 Concen: 0.64 ng/ul  
 RT: 14.40 min Scan# 1951  
 Delta R.T. -0.01 min  
 Lab File: BE091285.D  
 Acq: 21 Nov 2015 20:29

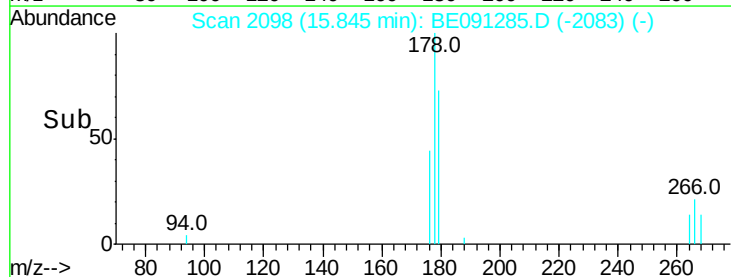
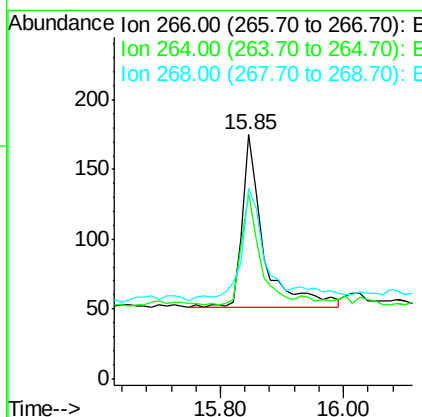
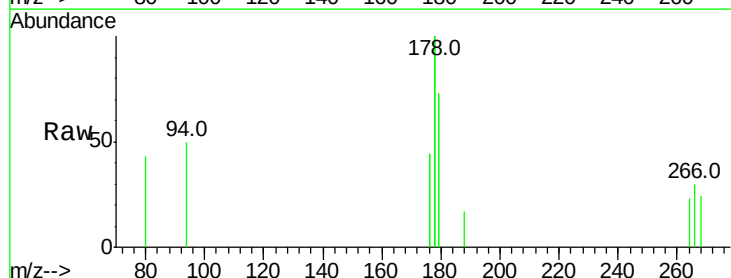
Instrument :  
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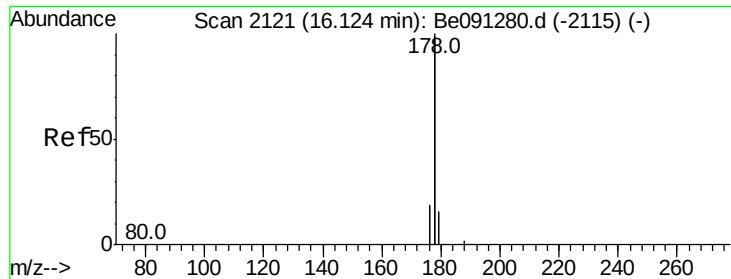
Tot Ion:166 Resp: 24667  
 Ion Ratio Lower Upper  
 166 100  
 165 102.3 87.6 131.4  
 167 15.9 11.1 16.7



#13  
 Pentachlorophenol  
 Concen: 0.16 ng/ul  
 RT: 15.85 min Scan# 2098  
 Delta R.T. -0.01 min  
 Lab File: BE091285.D  
 Acq: 21 Nov 2015 20:29

Tgt Ion:266 Resp: 297  
 Ion Ratio Lower Upper  
 266 100  
 264 60.3 53.5 80.3  
 268 79.8 54.2 81.2





#14

Phenanthrene

Concen: 9.86 ng/ul

RT: 16.11 min Scan# 2120

Delta R.T. -0.01 min

Lab File: BE091285.D

Acq: 21 Nov 2015 20:29

Instrument :

BNA\_E

ClientSampleId :

A4J66

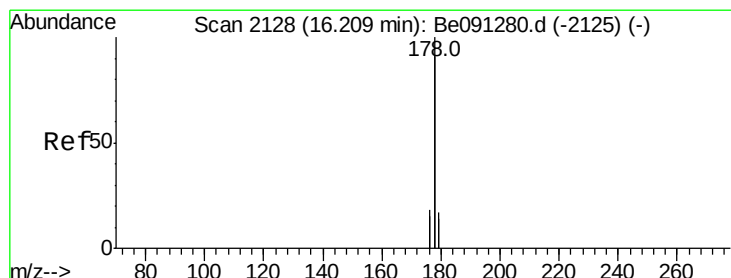
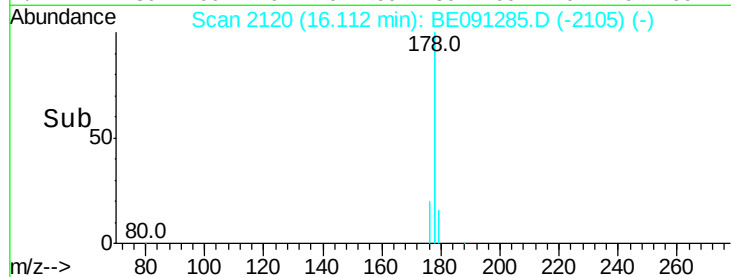
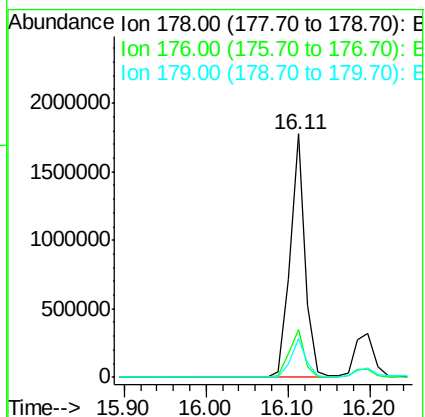
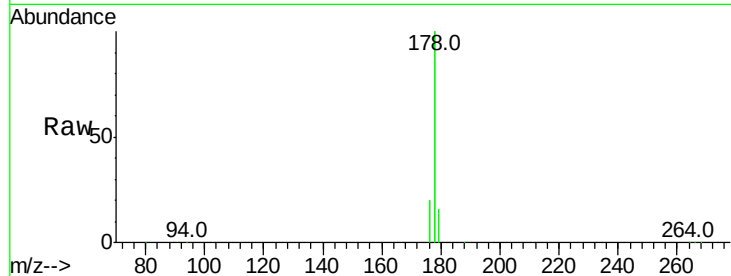
Tot Ion:178 Resp: 2264270

Ion Ratio Lower Upper

178 100

176 19.5 16.2 24.4

179 16.1 12.8 19.2



#15

Anthracene

Concen: 2.54 ng/ul m

RT: 16.20 min Scan# 2127

Delta R.T. -0.01 min

Lab File: BE091285.D

Acq: 21 Nov 2015 20:29

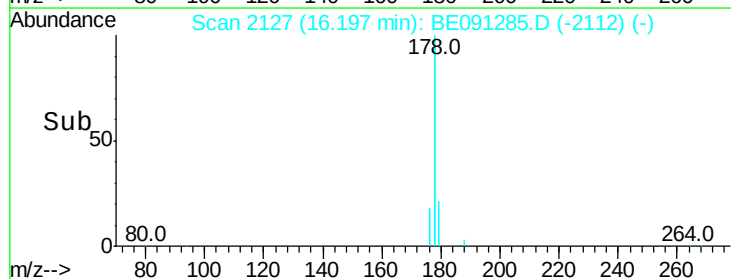
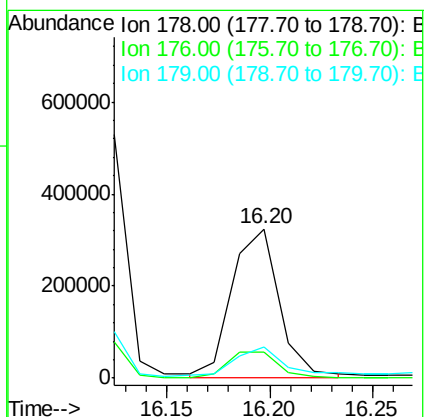
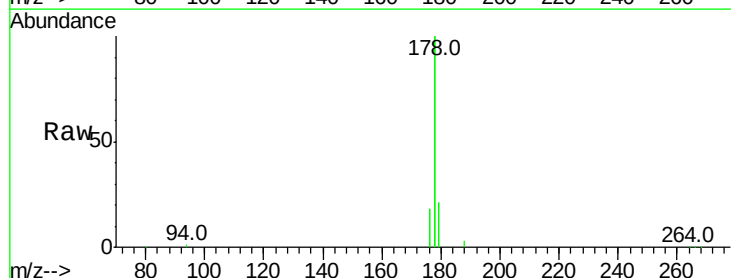
Tgt Ion:178 Resp: 530000

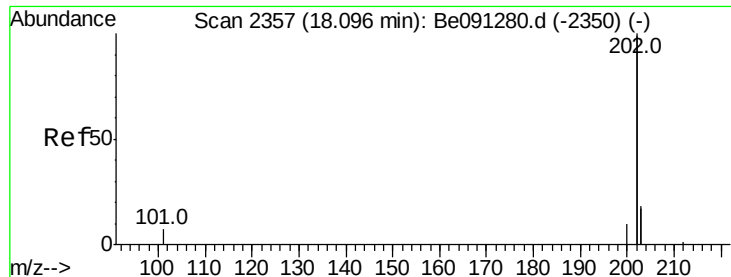
Ion Ratio Lower Upper

178 100

176 17.6 15.8 23.8

179 21.1 13.3 19.9#

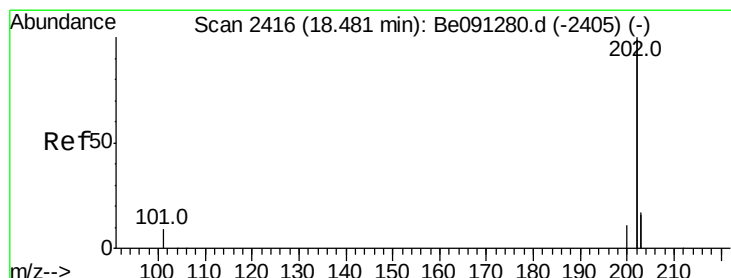
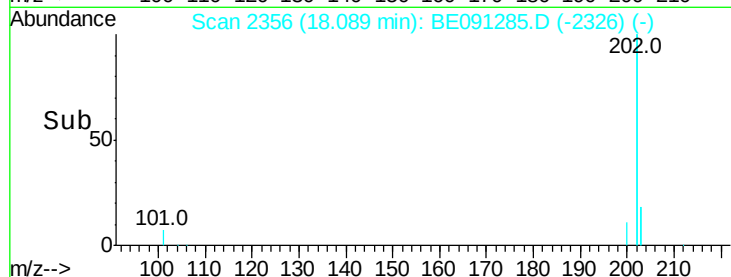
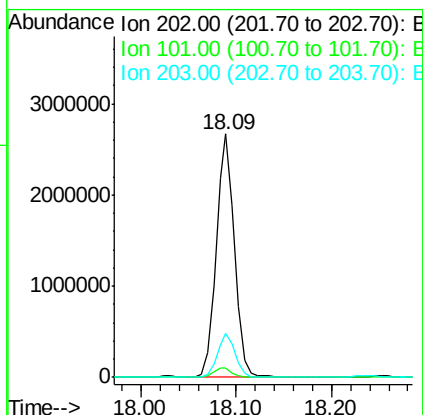
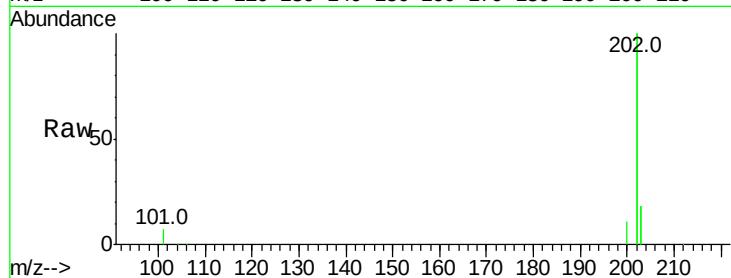




#17  
Fluoranthene  
Concen: 13.27 ng/ul  
RT: 18.09 min Scan# 2356  
Delta R.T. -0.01 min  
Lab File: BE091285.D  
Acq: 21 Nov 2015 20:29

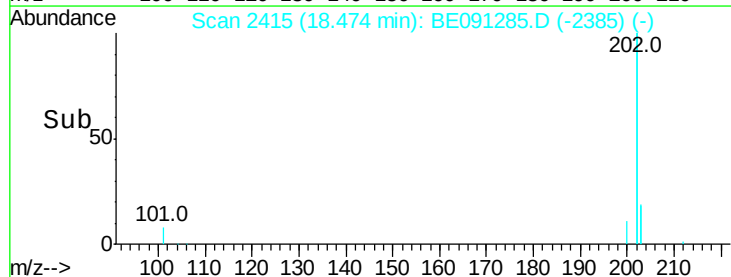
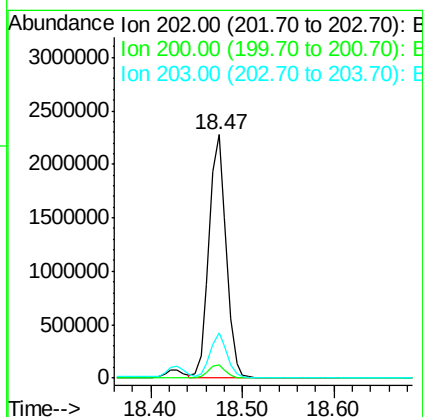
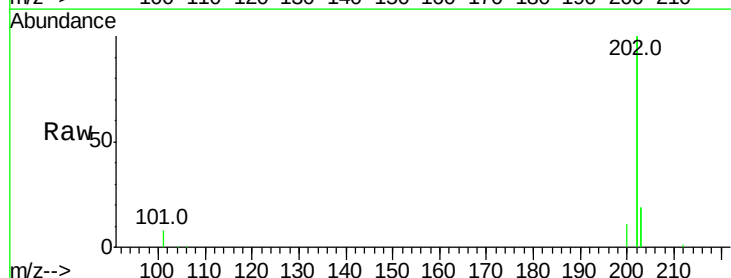
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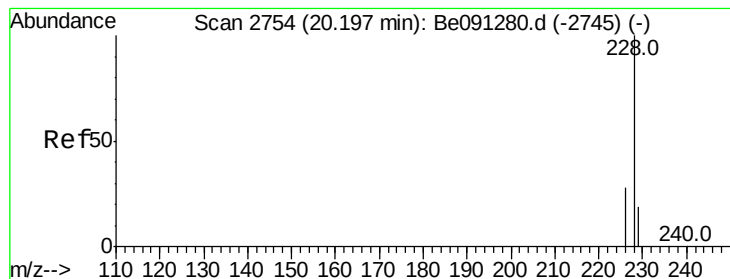
Tot Ion:202 Resp: 3564332  
Ion Ratio Lower Upper  
202 100  
101 3.6 0.0 33.1  
203 18.1 0.0 37.2



#19  
Pyrene  
Concen: 11.04 ng/ul  
RT: 18.47 min Scan# 2415  
Delta R.T. -0.01 min  
Lab File: BE091285.D  
Acq: 21 Nov 2015 20:29

Tgt Ion:202 Resp: 2966007  
Ion Ratio Lower Upper  
202 100  
200 5.4 18.0 27.0#  
203 18.6 13.8 20.6





#20

Benzo(a)anthracene

Concen: 6.93 ng/ul m

RT: 20.19 min Scan# 2753

Delta R.T. -0.00 min

Lab File: BE091285.D

Acq: 21 Nov 2015 20:29

Instrument :

BNA\_E

ClientSampleId :

A4J66

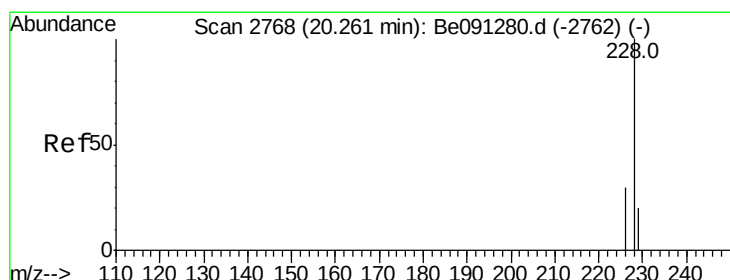
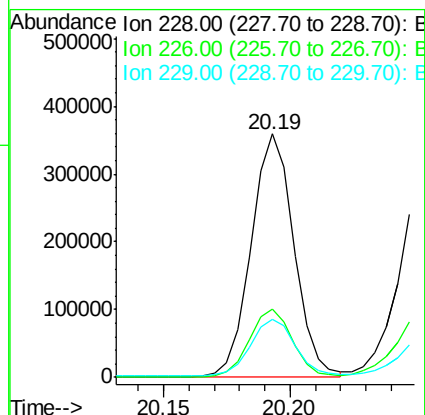
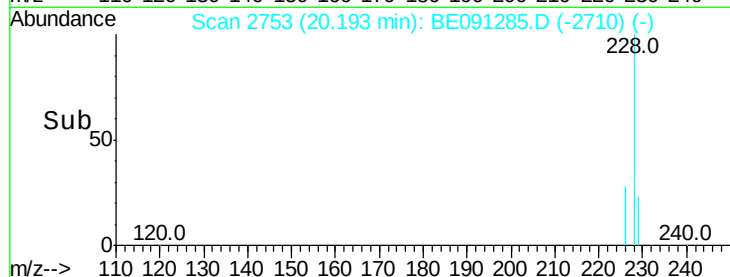
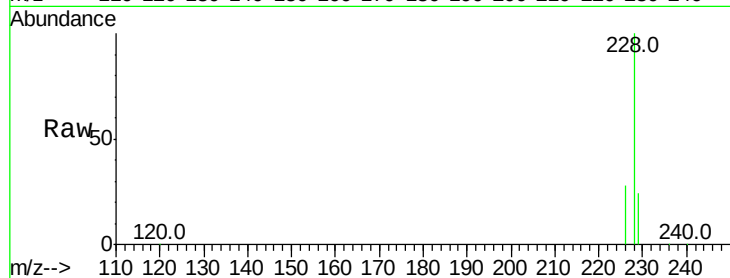
Tot Ion:228 Resp: 420758

Ion Ratio Lower Upper

228 100

226 28.2 23.0 34.4

229 23.6 15.2 22.8#



#21

Chrysene

Concen: 6.24 ng/ul

RT: 20.25 min Scan# 2766

Delta R.T. -0.01 min

Lab File: BE091285.D

Acq: 21 Nov 2015 20:29

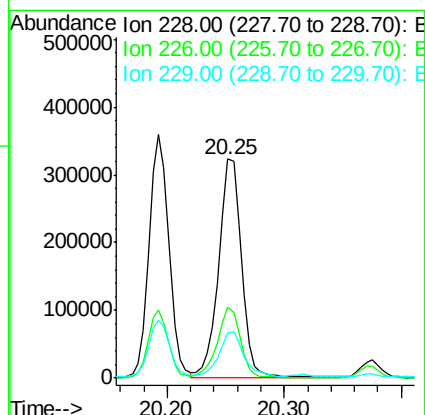
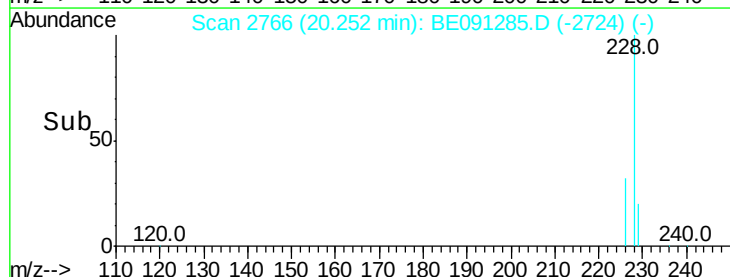
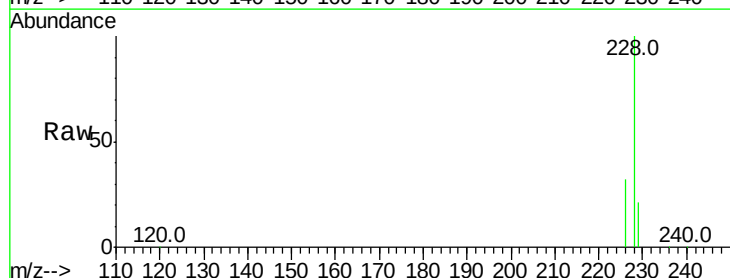
Tgt Ion:228 Resp: 436555

Ion Ratio Lower Upper

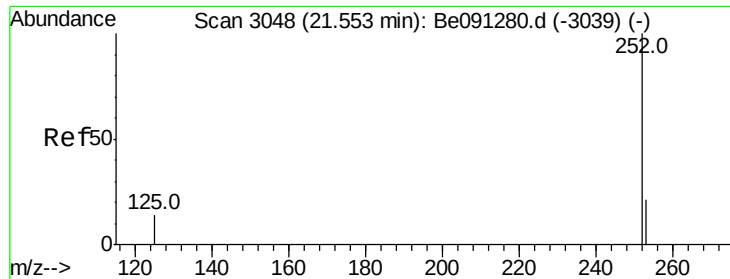
228 100

226 32.2 25.7 38.5

229 20.9 15.2 22.8







#23

Benzo(b)fluoranthene

Concen: 4.29 ng/ul

RT: 21.55 min Scan# 3047

Delta R.T. -0.00 min

Lab File: BE091285.D

Acq: 21 Nov 2015 20:29

Instrument :

BNA\_E

ClientSampleId :

A4J66

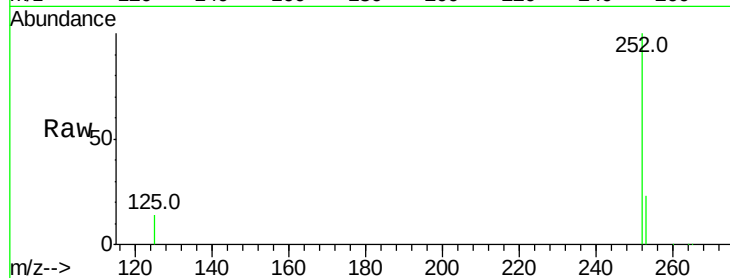
Tot Ion:252 Resp: 326417

Ion Ratio Lower Upper

252 100

253 22.5 0.0 48.0

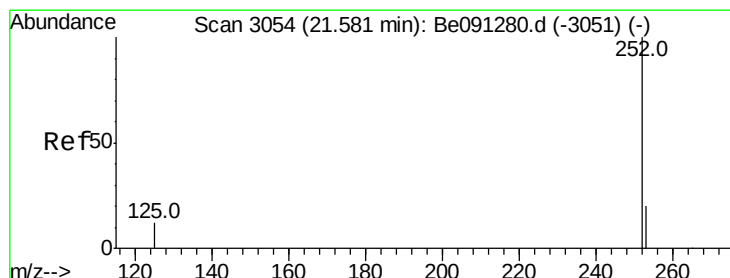
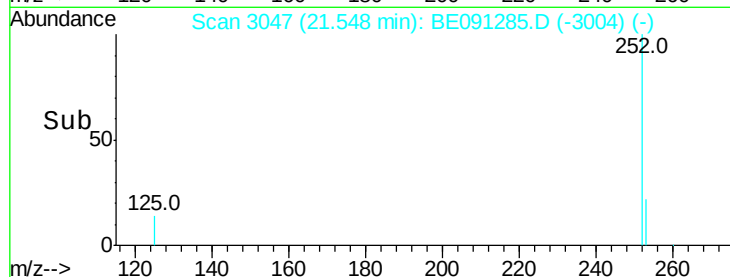
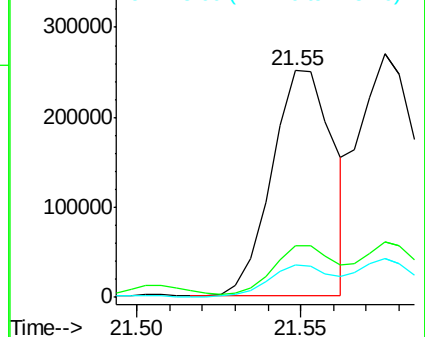
125 14.4 0.0 36.6



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: 4.38 ng/ul

RT: 21.58 min Scan# 3053

Delta R.T. -0.00 min

Lab File: BE091285.D

Acq: 21 Nov 2015 20:29

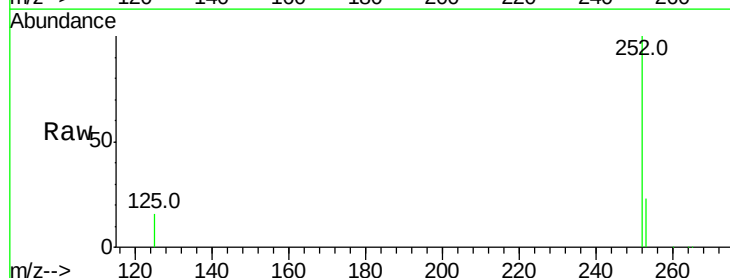
Tgt Ion:252 Resp: 342244

Ion Ratio Lower Upper

252 100

253 22.8 20.8 31.2

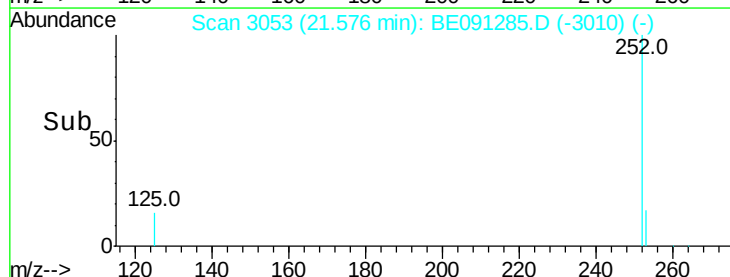
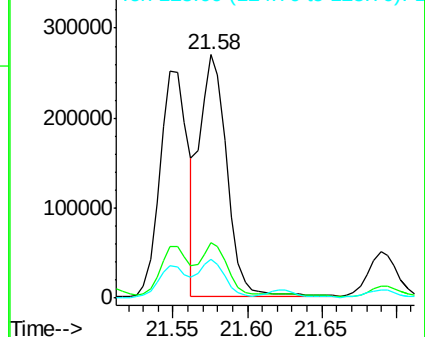
125 16.0 12.2 18.4

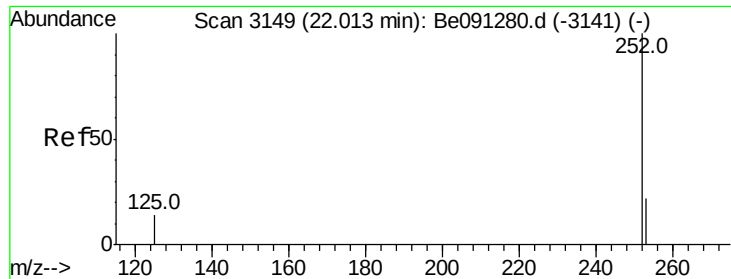


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 5.02 ng/ul

RT: 22.01 min Scan# 3148

Delta R.T. -0.00 min

Lab File: BE091285.D

Acq: 21 Nov 2015 20:29

Instrument :

BNA\_E

ClientSampleId :

A4J66

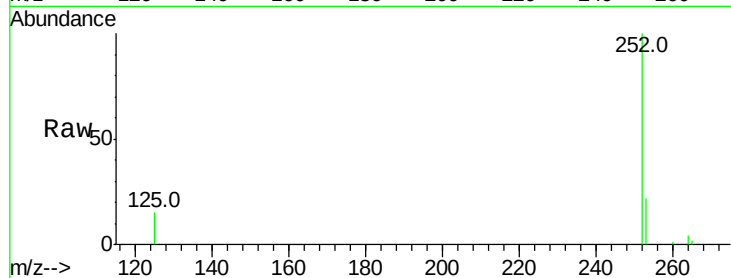
Tot Ion:252 Resp: 351976

Ion Ratio Lower Upper

252 100

253 22.3 21.8 32.8

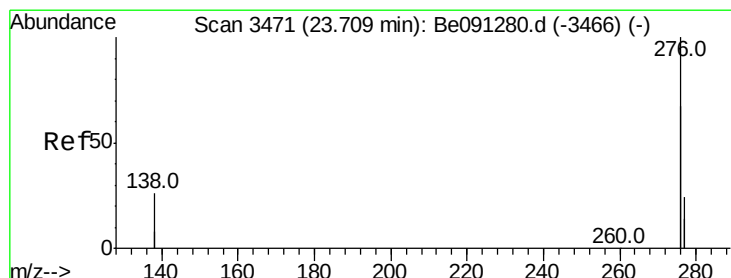
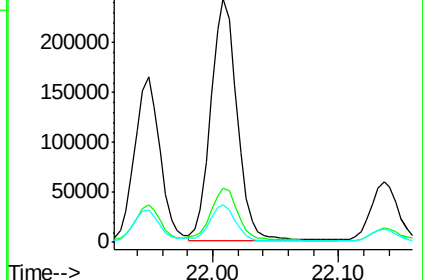
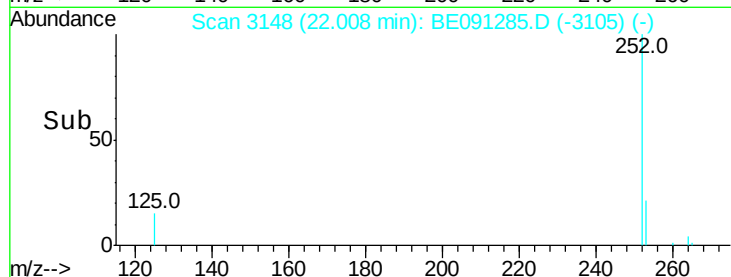
125 15.5 14.5 21.7



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: 3.05 ng/ul

RT: 23.70 min Scan# 3471

Delta R.T. -0.01 min

Lab File: BE091285.D

Acq: 21 Nov 2015 20:29

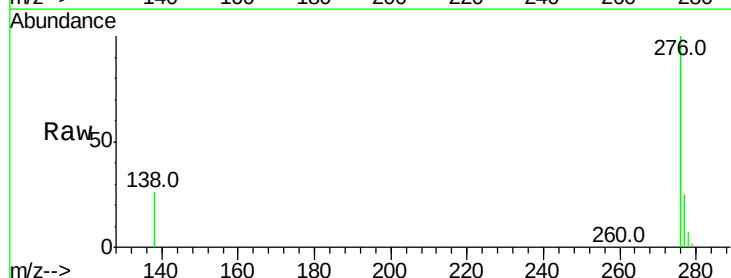
Tgt Ion:276 Resp: 902850

Ion Ratio Lower Upper

276 100

138 26.0 27.5 41.3#

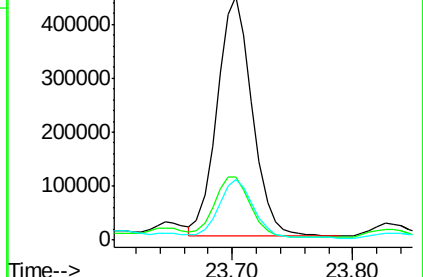
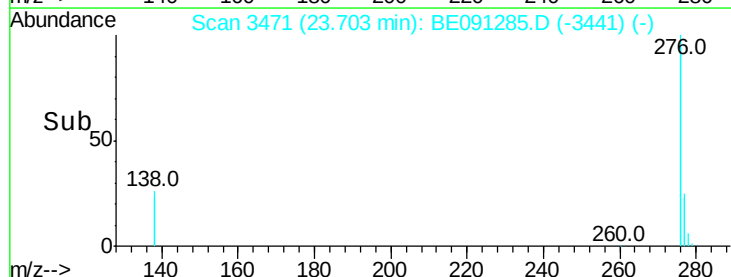
277 23.9 19.3 28.9

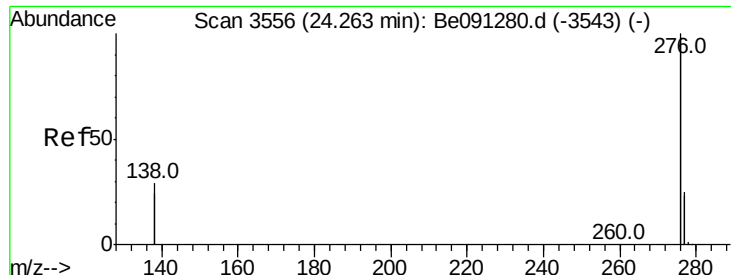


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#28

Benzo(a,h,i)perylene

Concen: 2.73 ng/ul

RT: 24.25 min Scan# 3555

Delta R.T. -0.01 min

Lab File: BE091285.D

Acq: 21 Nov 2015 20:29

Instrument :

BNA\_E

ClientSampleId :

A4J66

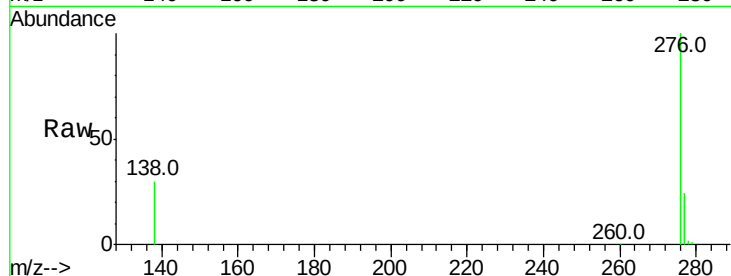
Tot Ion:276 Resp: 845078

Ion Ratio Lower Upper

276 100

277 24.4 21.3 31.9

138 29.9 25.5 38.3



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

