

Data Path : Z:\HPCHEM1\BNA E\DATA\BE112215\  
 Data File : BE091293.D  
 Acq On : 22 Nov 2015 10:48  
 Operator : UM/NP  
 Sample : PB86663BL  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SBLK63

Quant Time: Nov 23 00:45:04 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 : Mon Nov 23 00:41:30 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.87  | 152  | 2937     | 0.40 | ng/ul | -0.02    |
| 4) Naphthalene-d8         | 9.54  | 136  | 14509    | 0.40 | ng/ul | -0.02    |
| 8) Acenaphthene-d10       | 13.36 | 164  | 7491     | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 16.16 | 188  | 119531   | 0.40 | ng/ul | 0.07     |
| 18) Chrysene-d12          | 20.23 | 240  | 15577    | 0.40 | ng/ul | 0.00     |
| 22) Perylene-d12          | 21.98 | 264  | 1361638  | 0.40 | ng/ul | -0.12    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 2) 1,4-Dioxane-d8           | 2.92  | 96   | 23947    | 11.33 | ng/uL | -0.03    |
| 6) 2-Methylnaphthalene-d10  | 11.07 | 152  | 5234     | 0.26  | ng/ul | 0.00     |
| 16) Fluoranthene-d10        | 18.07 | 212  | 12232    | 0.00  | ng/ul | 0.00     |

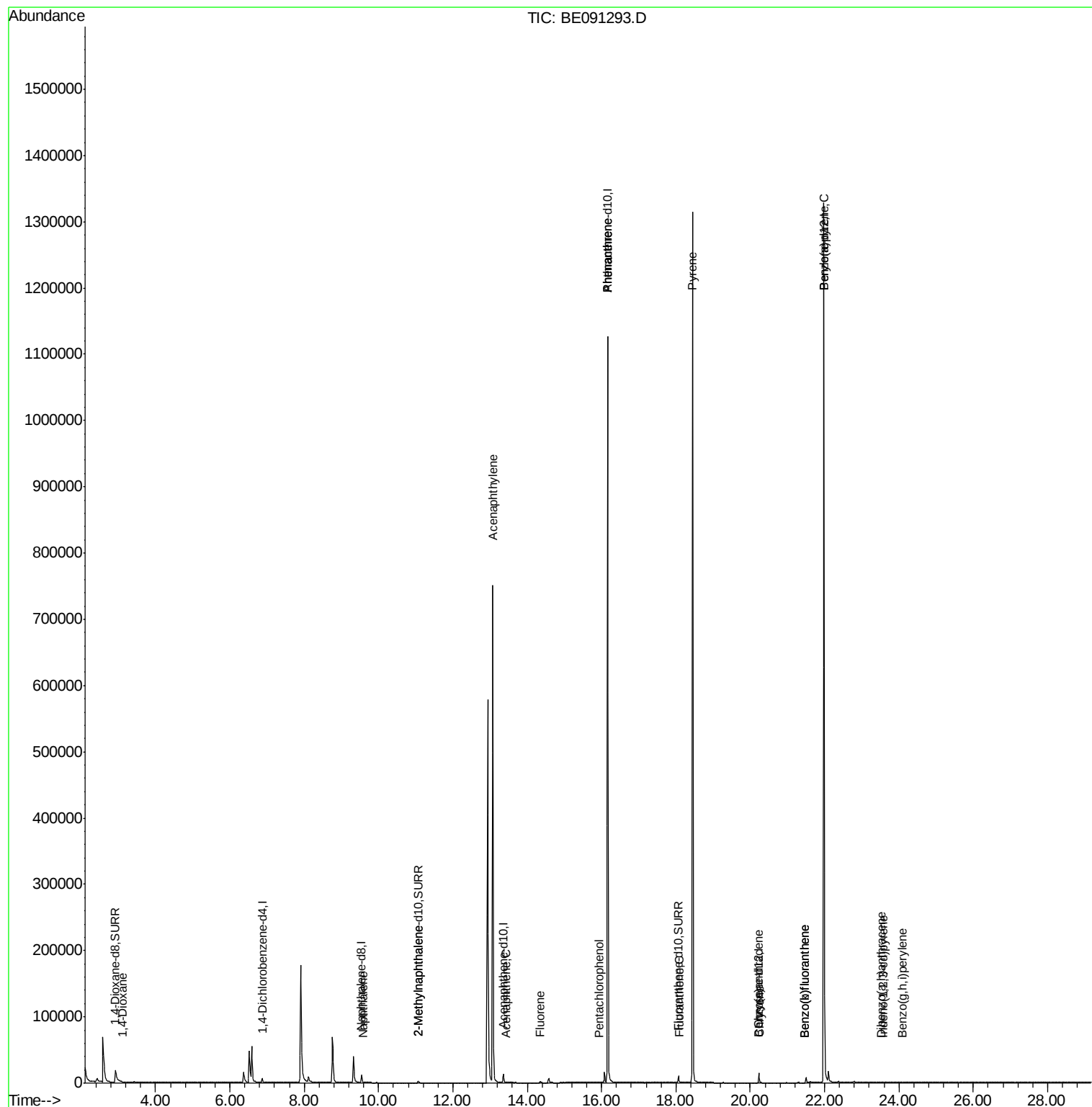
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Ovalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) 1,4-Dioxane             | 3.11  | 88   | 45       | 0.02 | ng/ul# | 32     |
| 5) Naphthalene             | 9.58  | 128  | 57       | 0.00 | ng/ul# | 1      |
| 7) 2-Methylnaphthalene     | 11.06 | 142  | 5        | 0.00 | ng/ul  | 87     |
| 9) Acenaphthylene          | 13.07 | 152  | 158      | 0.00 | ng/ul# | 1      |
| 10) Acenaphthene           | 13.42 | 153  | 26       | 0.00 | ng/ul# | 60     |
| 11) Fluorene               | 14.35 | 166  | 2161     | 0.07 | ng/ul# | 9      |
| 13) Pentachlorophenol      | 15.94 | 266  | 92       | 0.00 | ng/ul# | 88     |
| 14) Phenanthrene           | 16.16 | 178  | 3916     | 0.00 | ng/ul# | 1      |
| 15) Anthracene             | 16.16 | 178  | 3177     | 0.00 | ng/ul# | 1      |
| 17) Fluoranthene           | 18.10 | 202  | 1976     | 0.00 | ng/ul  | 71     |
| 19) Pyrene                 | 18.45 | 202  | 11067    | 0.06 | ng/ul# | 1      |
| 20) Benzo(a)anthracene     | 20.20 | 228  | 406      | 0.01 | ng/ul# | 72     |
| 21) Chrysene               | 20.26 | 228  | 569      | 0.01 | ng/ul# | 74     |
| 23) Benzo(b)fluoranthene   | 21.46 | 252  | 20       | 0.00 | ng/ul# | 1      |
| 24) Benzo(k)fluoranthene   | 21.46 | 252  | 20       | 0.00 | ng/ul# | 1      |
| 25) Benzo(a)pyrene         | 21.98 | 252  | 5247     | 0.00 | ng/ul# | 47     |
| 26) Indeno(1,2,3-cd)pyrene | 23.57 | 276  | 20       | 0.00 | ng/ul# | 52     |
| 27) Dibenzo(a,h)anthracene | 23.51 | 278  | 13       | 0.00 | ng/ul# | 1      |
| 28) Benzo(g,h,i)perylene   | 24.11 | 276  | 26       | 0.00 | ng/ul# | 1      |

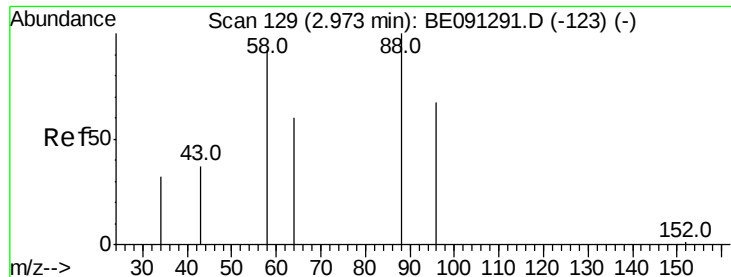
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA E\DATA\BE112215\  
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Instrument :  
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Quant Time: Nov 23 00:45:04 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 : Mon Nov 23 00:41:30 2015  
Response via : Initial Calibration





#3

1,4-Dioxane

Concen: 0.02 ng/ul

RT: 3.11 min Scan# 149

Delta R.T. 0.14 min

Lab File: BE091293.D

Acq: 22 Nov 2015 10:48

Instrument :

BNA\_E

ClientSampled :

SBLK63

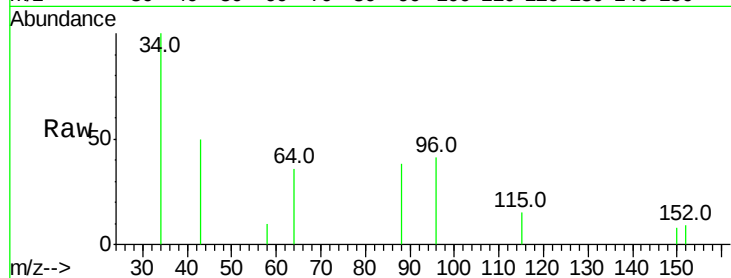
Tot Ion: 88 Resp: 45

Ion Ratio Lower Upper

88 100

58 8.9 55.4 83.2#

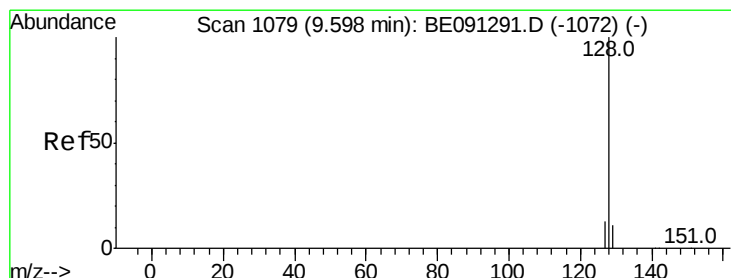
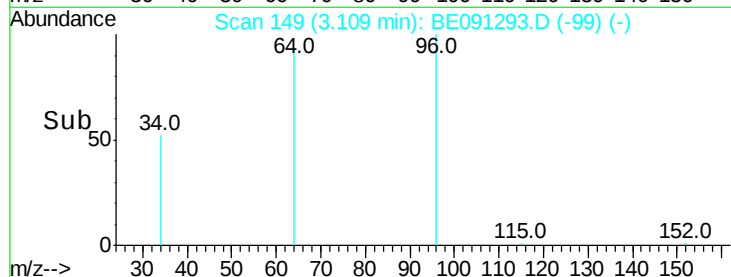
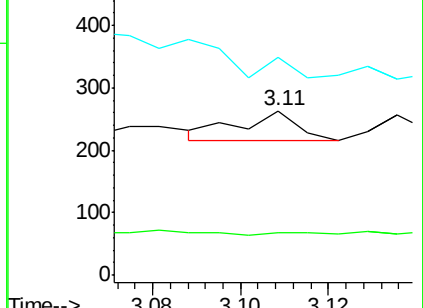
43 0.0 24.2 36.2#



Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



#5

Naphthalene

Concen: 0.00 ng/ul

RT: 9.58 min Scan# 1077

Delta R.T. -0.02 min

Lab File: BE091293.D

Acq: 22 Nov 2015 10:48

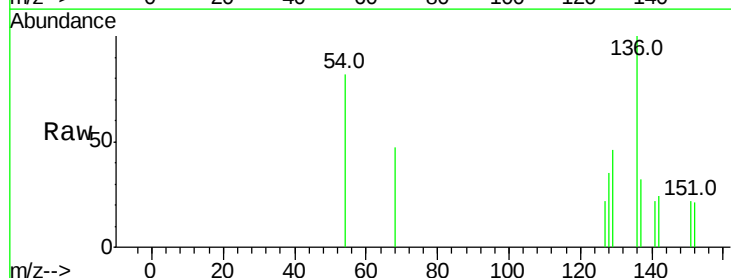
Tgt Ion: 128 Resp: 57

Ion Ratio Lower Upper

128 100

129 129.5 9.8 14.8#

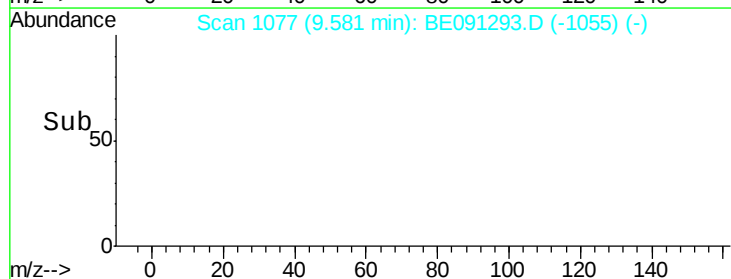
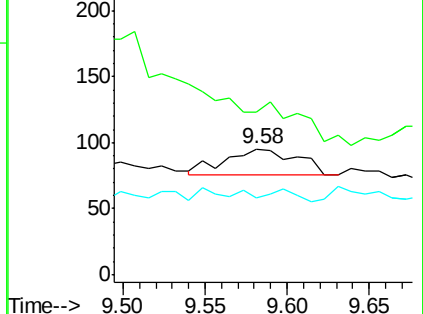
127 61.1 10.7 16.1#

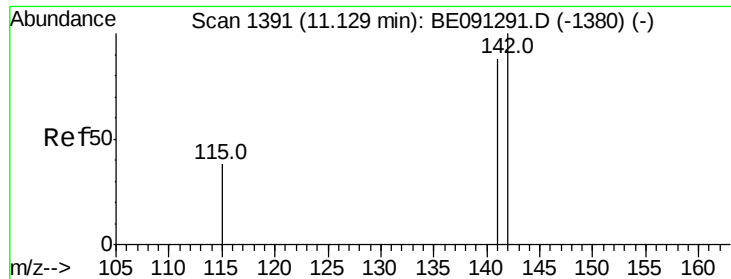


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.00 ng/ul

RT: 11.06 min Scan# 1375

Delta R.T. -0.07 min

Lab File: BE091293.D

Acq: 22 Nov 2015 10:48

Instrument :

BNA\_E

ClientSampleId :

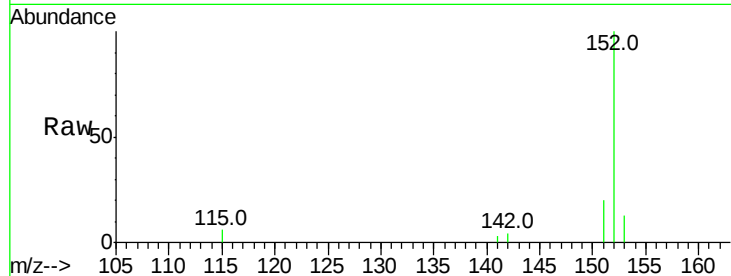
SBLK63

Tot Ion:142 Resp: 5

Ion Ratio Lower Upper

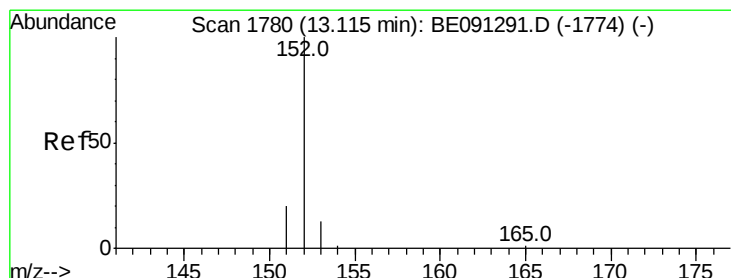
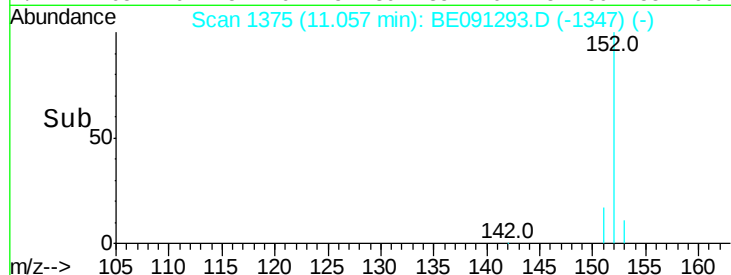
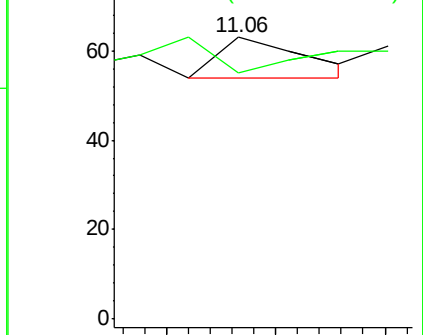
142 100

141 100.0 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: 0.00 ng/ul

RT: 13.07 min Scan# 1774

Delta R.T. -0.04 min

Lab File: BE091293.D

Acq: 22 Nov 2015 10:48

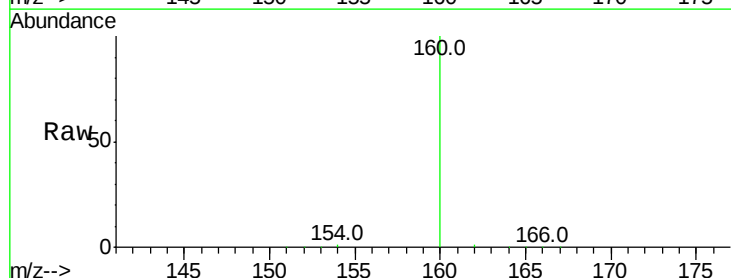
Tgt Ion:152 Resp: 158

Ion Ratio Lower Upper

152 100

151 60.5 16.8 25.2#

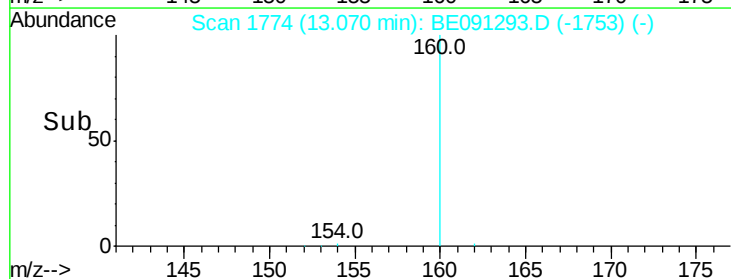
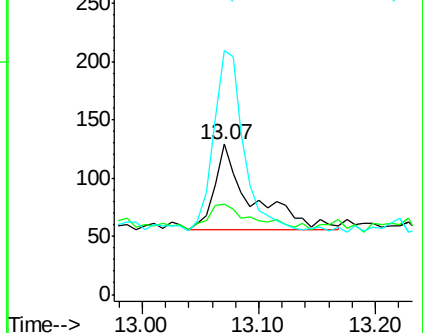
153 162.0 11.3 16.9#

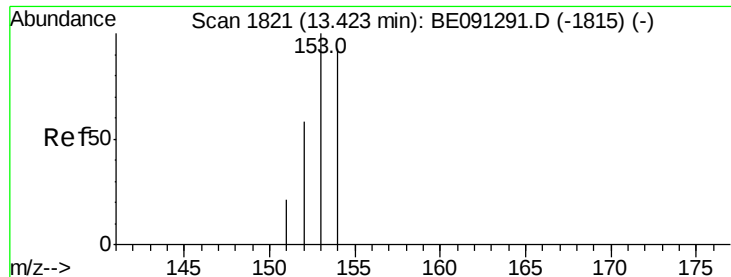


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#10

Acenaphthene

Concen: 0.00 ng/ul

RT: 13.42 min Scan# 1821

Delta R.T. 0.00 min

Lab File: BE091293.D

Acq: 22 Nov 2015 10:48

Instrument :

BNA\_E

ClientSampled :

SBLK63

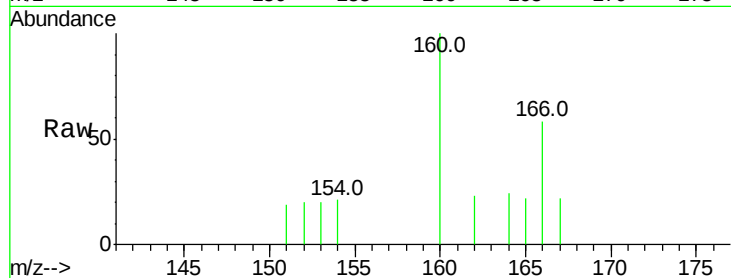
Tot Ion:153 Resp: 26

Ion Ratio Lower Upper

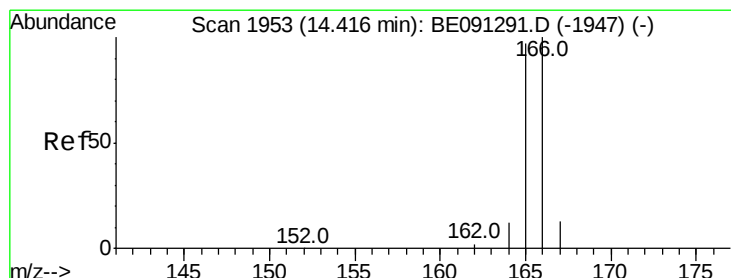
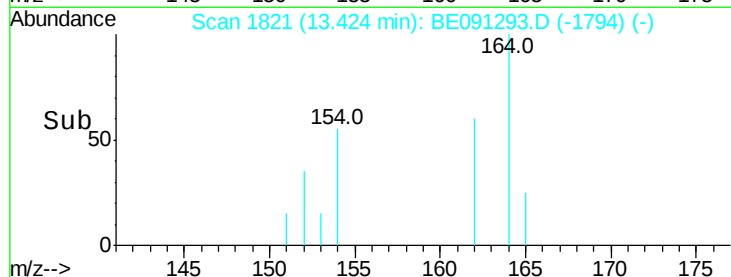
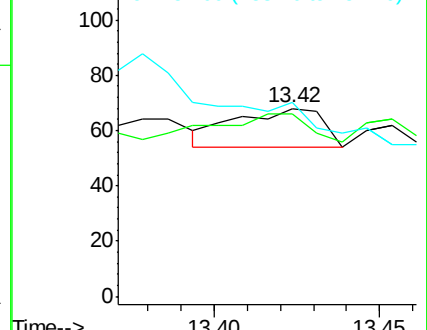
153 100

152 97.1 42.3 63.5#

154 102.9 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: 0.07 ng/ul

RT: 14.35 min Scan# 1944

Delta R.T. -0.07 min

Lab File: BE091293.D

Acq: 22 Nov 2015 10:48

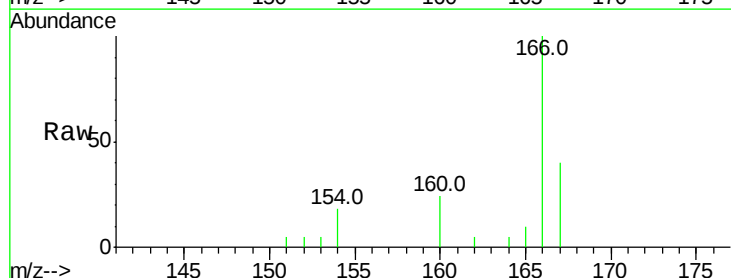
Tgt Ion:166 Resp: 2161

Ion Ratio Lower Upper

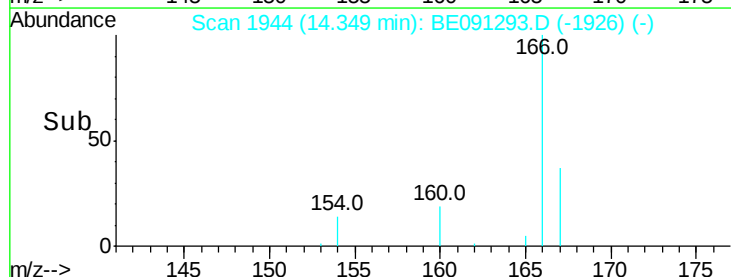
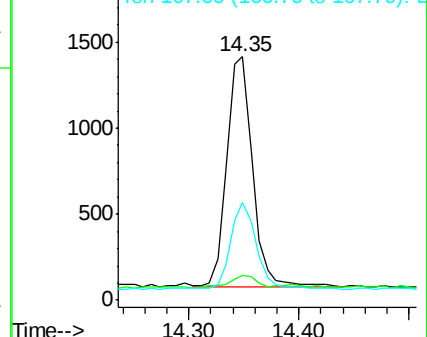
166 100

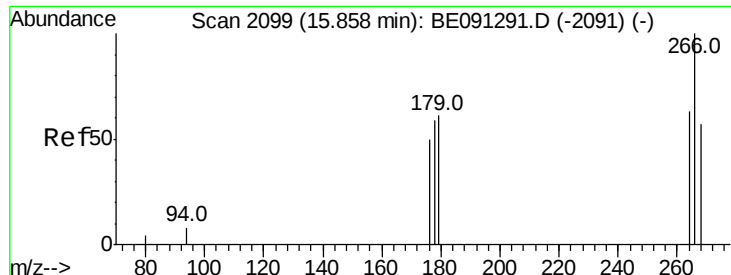
165 10.2 87.6 131.4#

167 39.9 11.1 16.7#



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

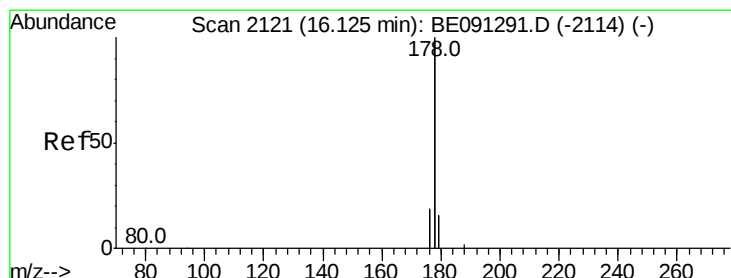
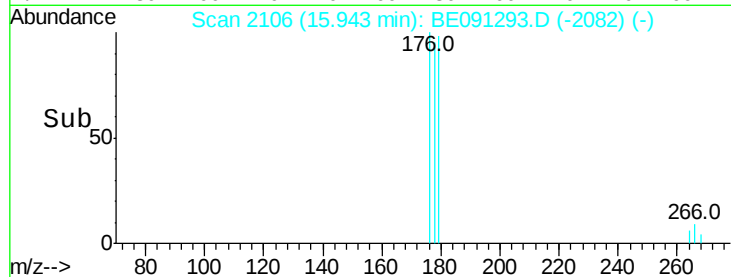
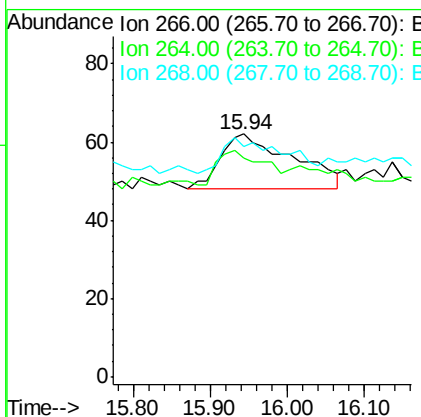
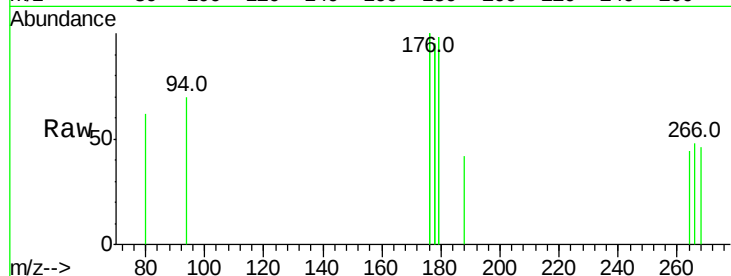




#13  
 Pentachlorophenol  
 Concen: 0.00 ng/ul  
 RT: 15.94 min Scan# 2106  
 Delta R.T. 0.09 min  
 Lab File: BE091293.D  
 Acq: 22 Nov 2015 10:48

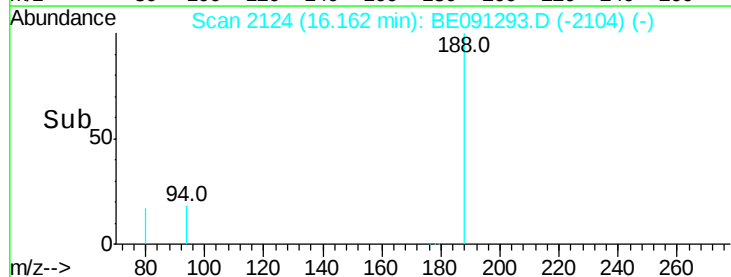
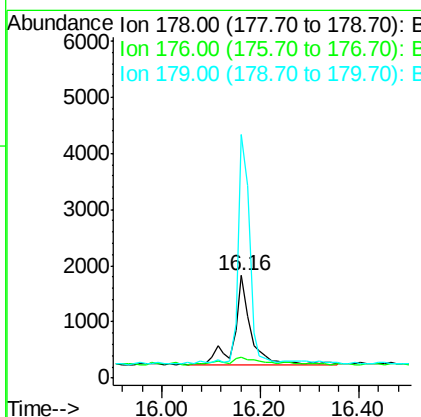
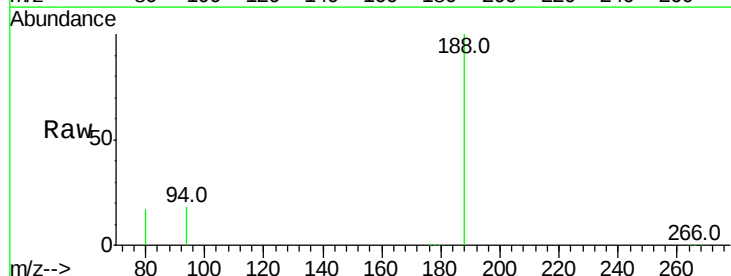
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SBLK63

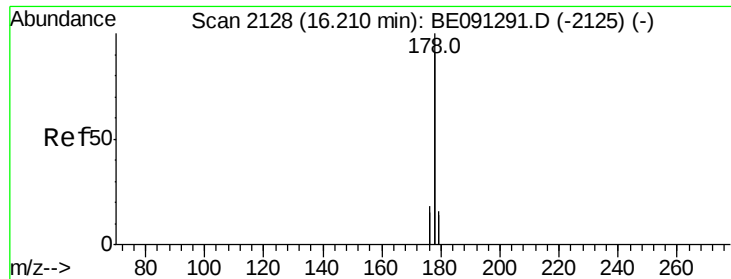
Tot Ion:266 Resp: 92  
 Ion Ratio Lower Upper  
 266 100  
 264 62.0 53.5 80.3  
 268 53.3 54.2 81.2#



#14  
 Phenanthrene  
 Concen: 0.00 ng/ul  
 RT: 16.16 min Scan# 2124  
 Delta R.T. 0.04 min  
 Lab File: BE091293.D  
 Acq: 22 Nov 2015 10:48

Tgt Ion:178 Resp: 3916  
 Ion Ratio Lower Upper  
 178 100  
 176 20.9 16.2 24.4  
 179 237.3 12.8 19.2#





#15

Anthracene

Concen: 0.00 ng/ul

RT: 16.16 min Scan# 2124

Delta R.T. -0.05 min

Lab File: BE091293.D

Acq: 22 Nov 2015 10:48

Instrument :

BNA\_E

ClientSampleId :

SBLK63

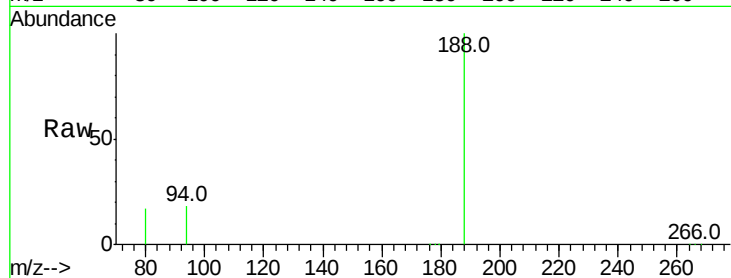
Tot Ion:178 Resp: 3177

Ion Ratio Lower Upper

178 100

176 20.9 15.8 23.8

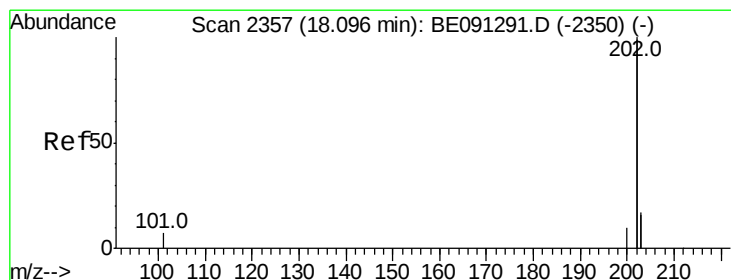
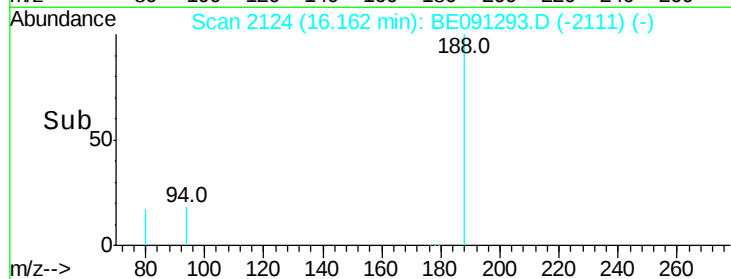
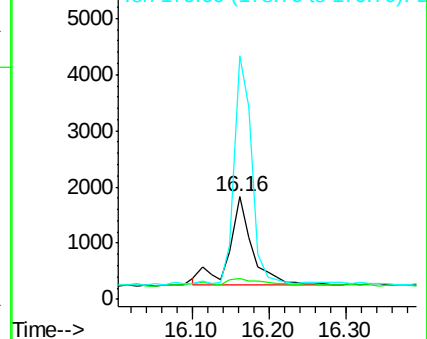
179 237.3 13.3 19.9#



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: 0.00 ng/ul

RT: 18.10 min Scan# 2357

Delta R.T. -0.00 min

Lab File: BE091293.D

Acq: 22 Nov 2015 10:48

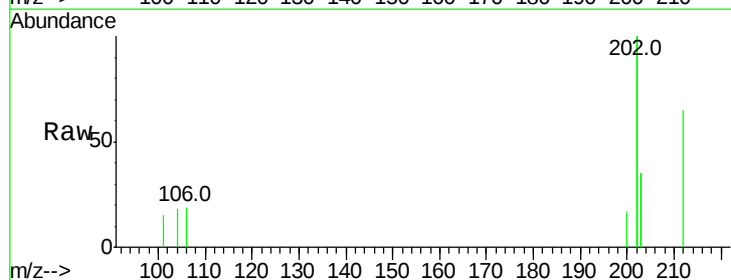
Tgt Ion:202 Resp: 1976

Ion Ratio Lower Upper

202 100

101 7.4 0.0 33.1

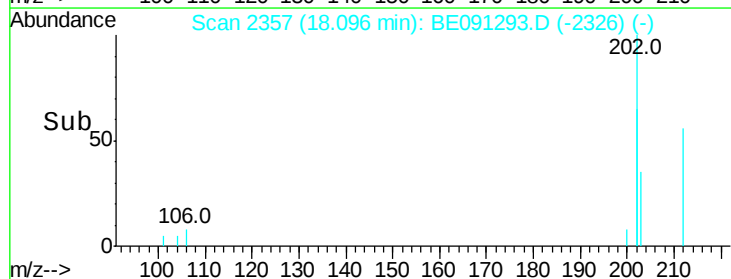
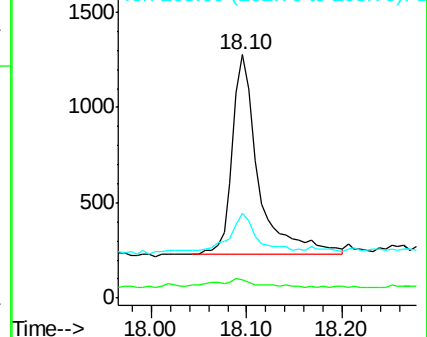
203 34.9 0.0 37.2

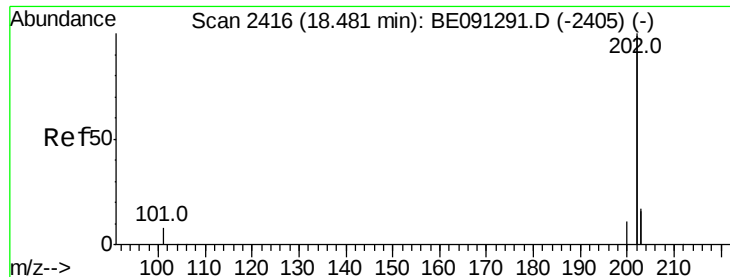


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Pvrene

Concen: 0.06 ng/ul

RT: 18.45 min Scan# 2411

Delta R.T. -0.03 min

Lab File: BE091293.D

Acq: 22 Nov 2015 10:48

Instrument :

BNA\_E

ClientSampleId :

SBLK63

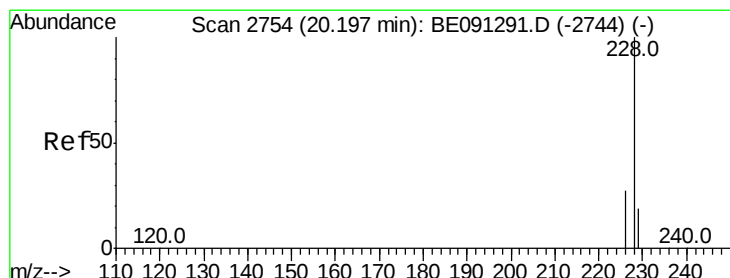
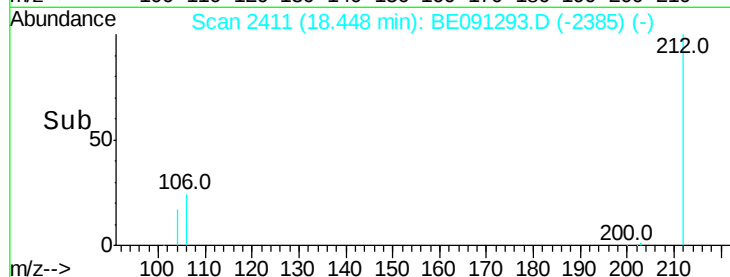
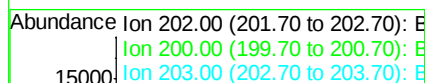
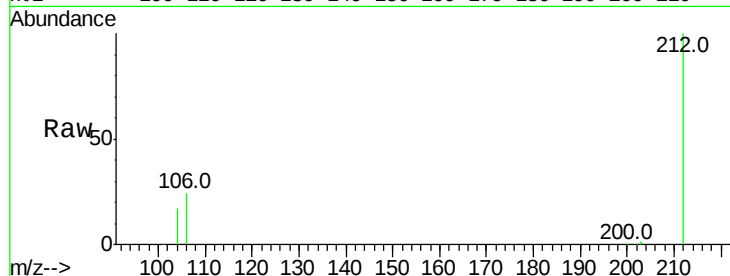
Tot Ion:202 Resp: 11067

Ion Ratio Lower Upper

202 100

200 1.7 18.0 27.0#

203 164.1 13.8 20.6#



#20

Benzo(a)anthracene

Concen: 0.01 ng/ul

RT: 20.20 min Scan# 2756

Delta R.T. 0.01 min

Lab File: BE091293.D

Acq: 22 Nov 2015 10:48

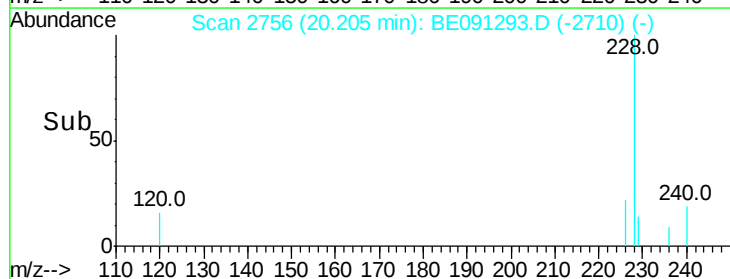
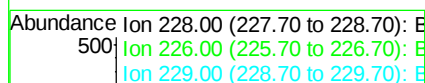
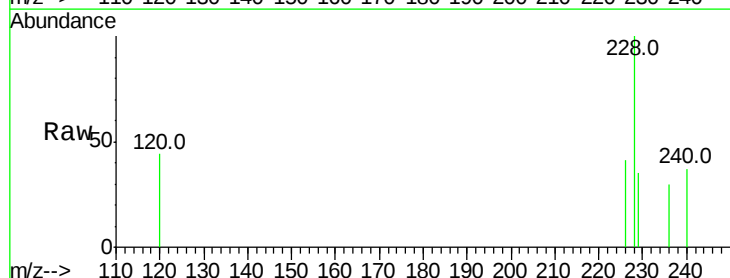
Tgt Ion:228 Resp: 406

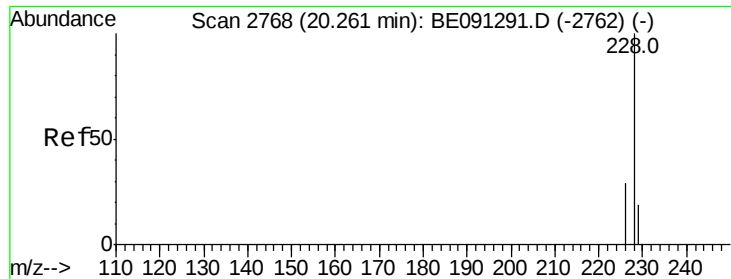
Ion Ratio Lower Upper

228 100

226 40.9 23.0 34.4#

229 35.0 15.2 22.8#





#21

Chrysene

Concen: 0.01 ng/ul

RT: 20.26 min Scan# 2769

Delta R.T. 0.00 min

Lab File: BE091293.D

Acq: 22 Nov 2015 10:48

Instrument :

BNA\_E

ClientSampleId :

SBLK63

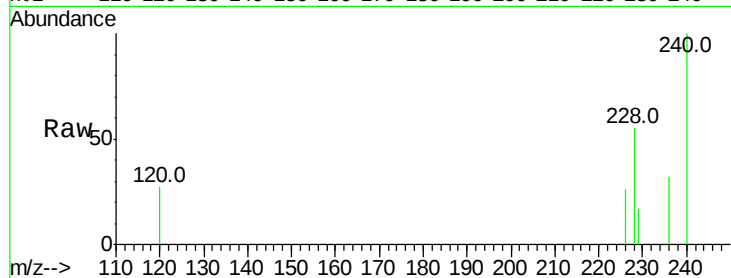
Tot Ion:228 Resp: 569

Ion Ratio Lower Upper

228 100

226 46.3 25.7 38.5#

229 31.5 15.2 22.8#



Abundance Ion 228.00 (227.70 to 228.70): E

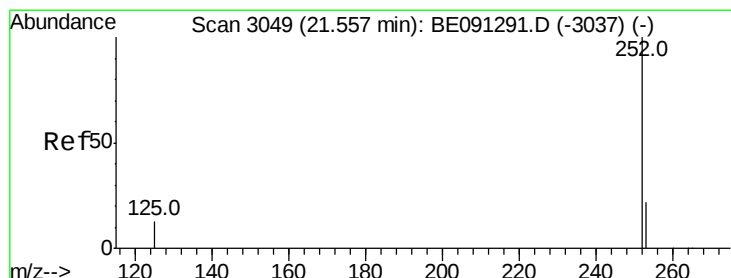
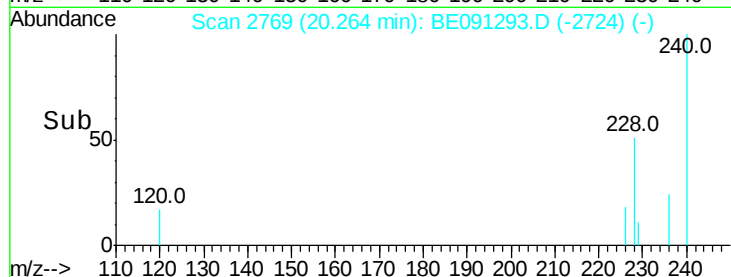
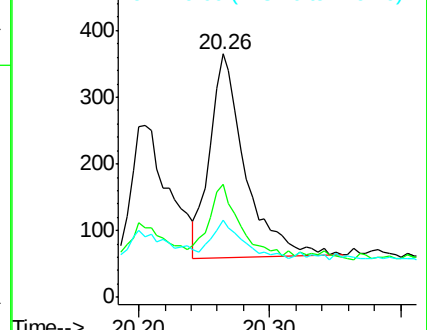
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

20.26

20.20

20.30



#23

Benzo(b)fluoranthene

Concen: 0.00 ng/ul

RT: 21.46 min Scan# 3028

Delta R.T. -0.10 min

Lab File: BE091293.D

Acq: 22 Nov 2015 10:48

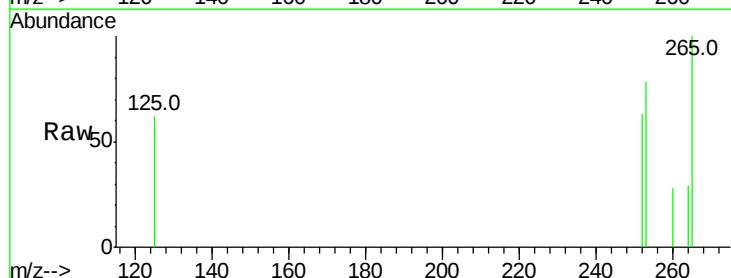
Tgt Ion:252 Resp: 20

Ion Ratio Lower Upper

252 100

253 124.0 0.0 48.0#

125 97.6 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

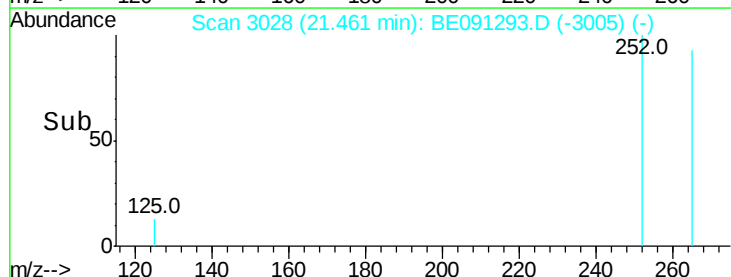
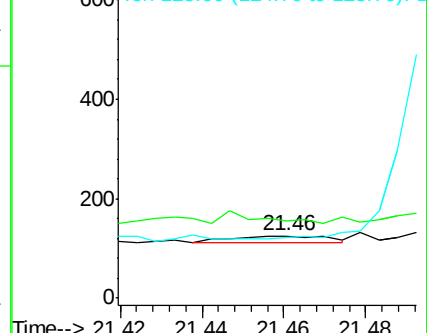
21.46

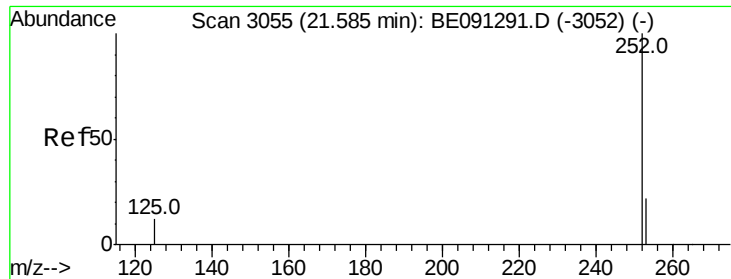
21.42

21.44

21.46

21.48

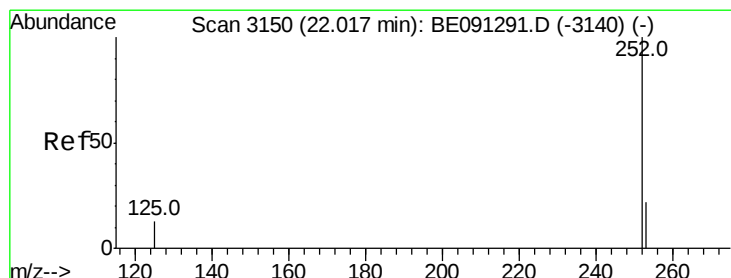
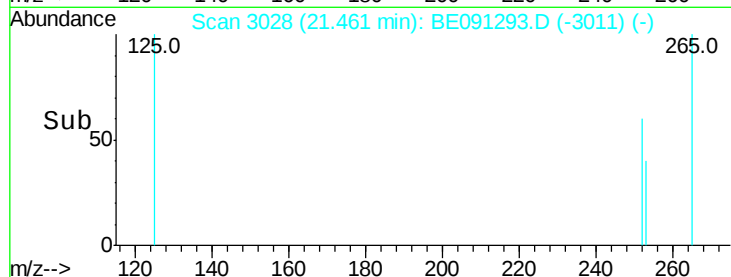
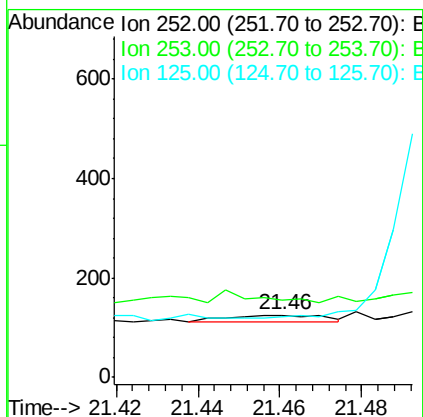
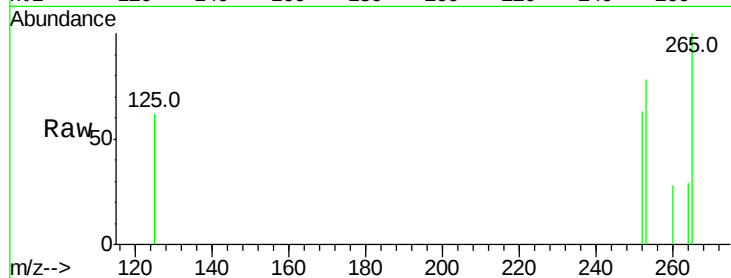




#24  
Benzo(k)fluoranthene  
Concen: 0.00 ng/ul  
RT: 21.46 min Scan# 3028  
Delta R.T. -0.12 min  
Lab File: BE091293.D  
Acq: 22 Nov 2015 10:48

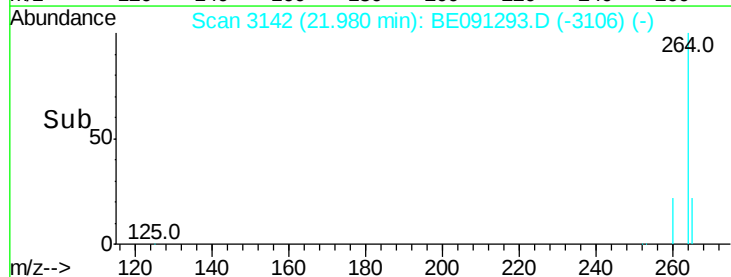
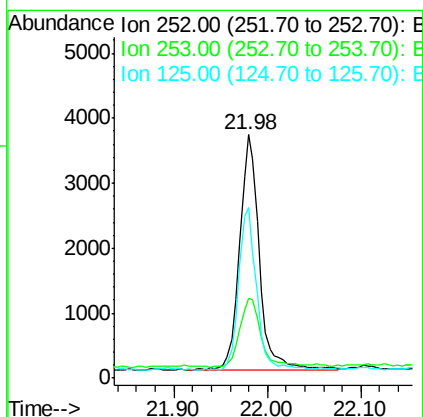
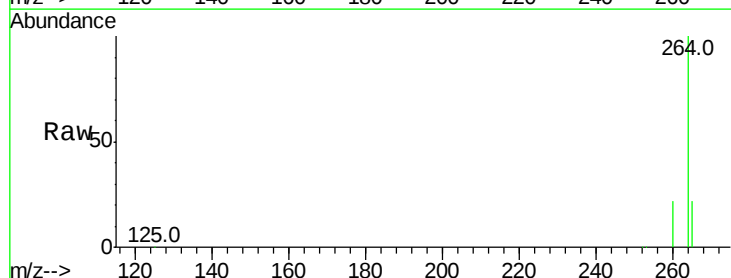
Instrument :  
BNA\_E  
ClientSampleId :  
SBLK63

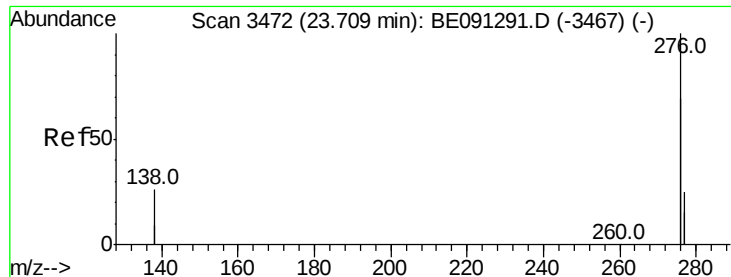
Tot Ion:252 Resp: 20  
Ion Ratio Lower Upper  
252 100  
253 124.0 20.8 31.2#  
125 97.6 12.2 18.4#



#25  
Benzo(a)pyrene  
Concen: 0.00 ng/ul  
RT: 21.98 min Scan# 3142  
Delta R.T. -0.04 min  
Lab File: BE091293.D  
Acq: 22 Nov 2015 10:48

Tgt Ion:252 Resp: 5247  
Ion Ratio Lower Upper  
252 100  
253 33.0 21.8 32.8#  
125 69.8 14.5 21.7#





#26

Indeno(1,2,3-cd)pyrene

Concen: 0.00 ng/ul

RT: 23.57 min Scan# 3451

Delta R.T. -0.14 min

Lab File: BE091293.D

Acq: 22 Nov 2015 10:48

Instrument :

BNA\_E

ClientSampleId :

SBLK63

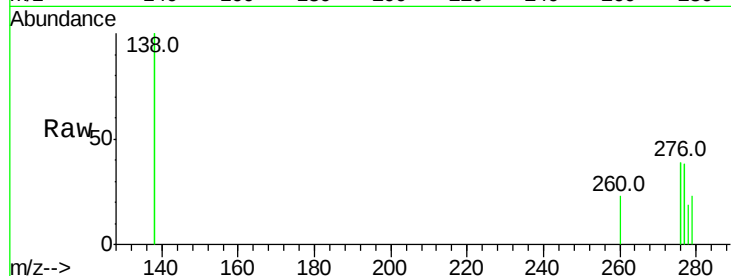
Tot Ion:276 Resp: 20

Ion Ratio Lower Upper

276 100

138 0.0 27.5 41.3#

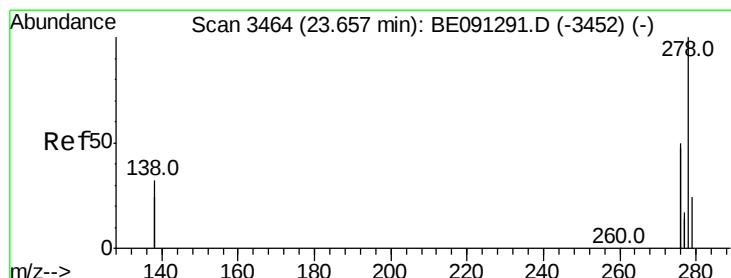
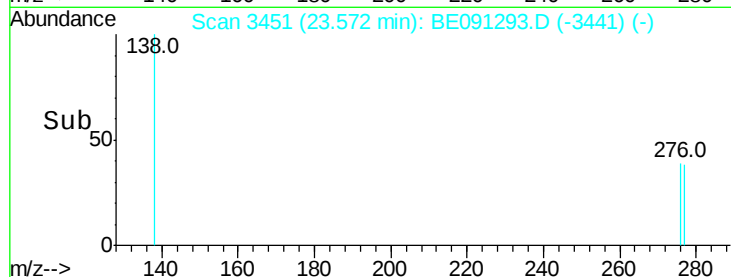
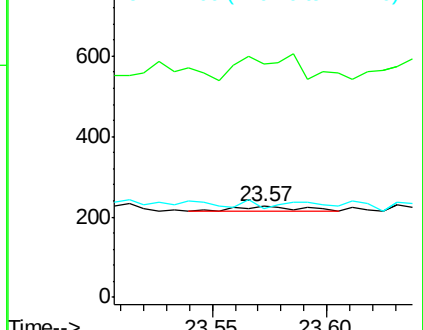
277 40.0 19.3 28.9#



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: 0.00 ng/ul

RT: 23.51 min Scan# 3442

Delta R.T. -0.14 min

Lab File: BE091293.D

Acq: 22 Nov 2015 10:48

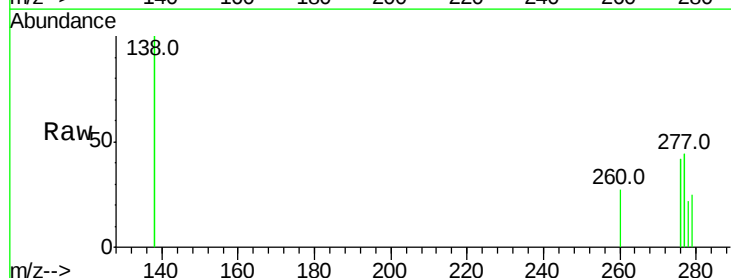
Tgt Ion:278 Resp: 13

Ion Ratio Lower Upper

278 100

139 0.0 21.7 32.5#

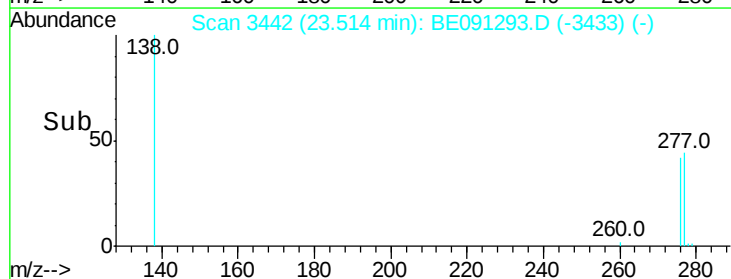
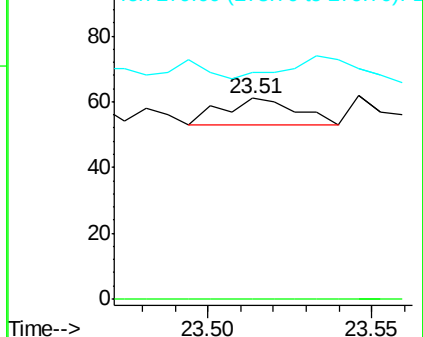
279 113.1 21.9 32.9#

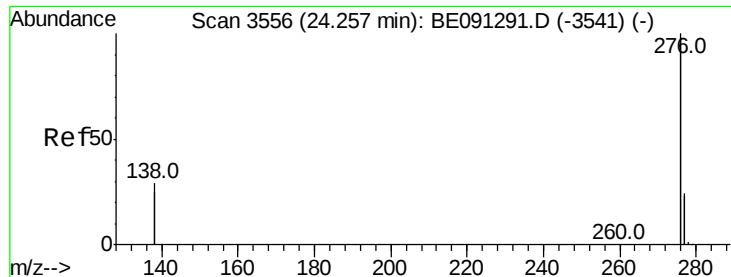


Abundance Ion 278.00 (277.70 to 278.70): E

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: 24.11 min Scan# 3533

Delta R.T. -0.15 min

Lab File: BE091293.D

Acq: 22 Nov 2015 10:48

Instrument :

BNA\_E

ClientSampleId :

SBLK63

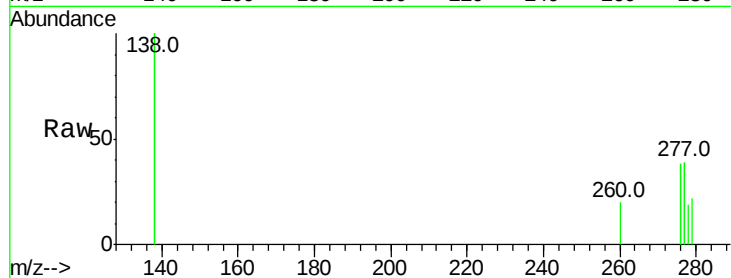
Tot Ion:276 Resp: 26

Ion Ratio Lower Upper

276 100

277 102.7 21.3 31.9#

138 263.4 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

