

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE110816\  
 Data File : BE092510.D  
 Acq On : 8 Nov 2016 15:52  
 Operator : UM/SJ  
 Sample : PB94535BL  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB94535BL

Quant Time: Nov 09 00:08:40 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE110816.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 08 16:27:22 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.16  | 152  | 9353     | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.93 | 136  | 40756    | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.80 | 164  | 24615    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 17.56 | 188  | 51639    | 5.00 | ng    | 0.00     |
| 24) Chrysene-d12          | 21.72 | 240  | 62514    | 5.00 | ng    | 0.00     |
| 31) Perylene-d12          | 24.09 | 264  | 62768    | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.66  | 112  | 18482    | 8.96 | ng    | 0.00     |
| 5) Phenol-d6                | 7.31  | 99   | 23186    | 8.43 | ng    | -0.02    |
| 8) Nitrobenzene-d5          | 9.32  | 82   | 10511    | 3.93 | ng    | -0.02    |
| 13) 2,4,6-Tribromophenol    | 16.29 | 330  | 4152     | 4.81 | ng    | -0.01    |
| 14) 2-Fluorobiphenyl        | 13.42 | 172  | 24869    | 4.09 | ng    | -0.01    |
| 26) Terphenyl-d14           | 20.16 | 244  | 34440    | 4.54 | ng    | -0.02    |

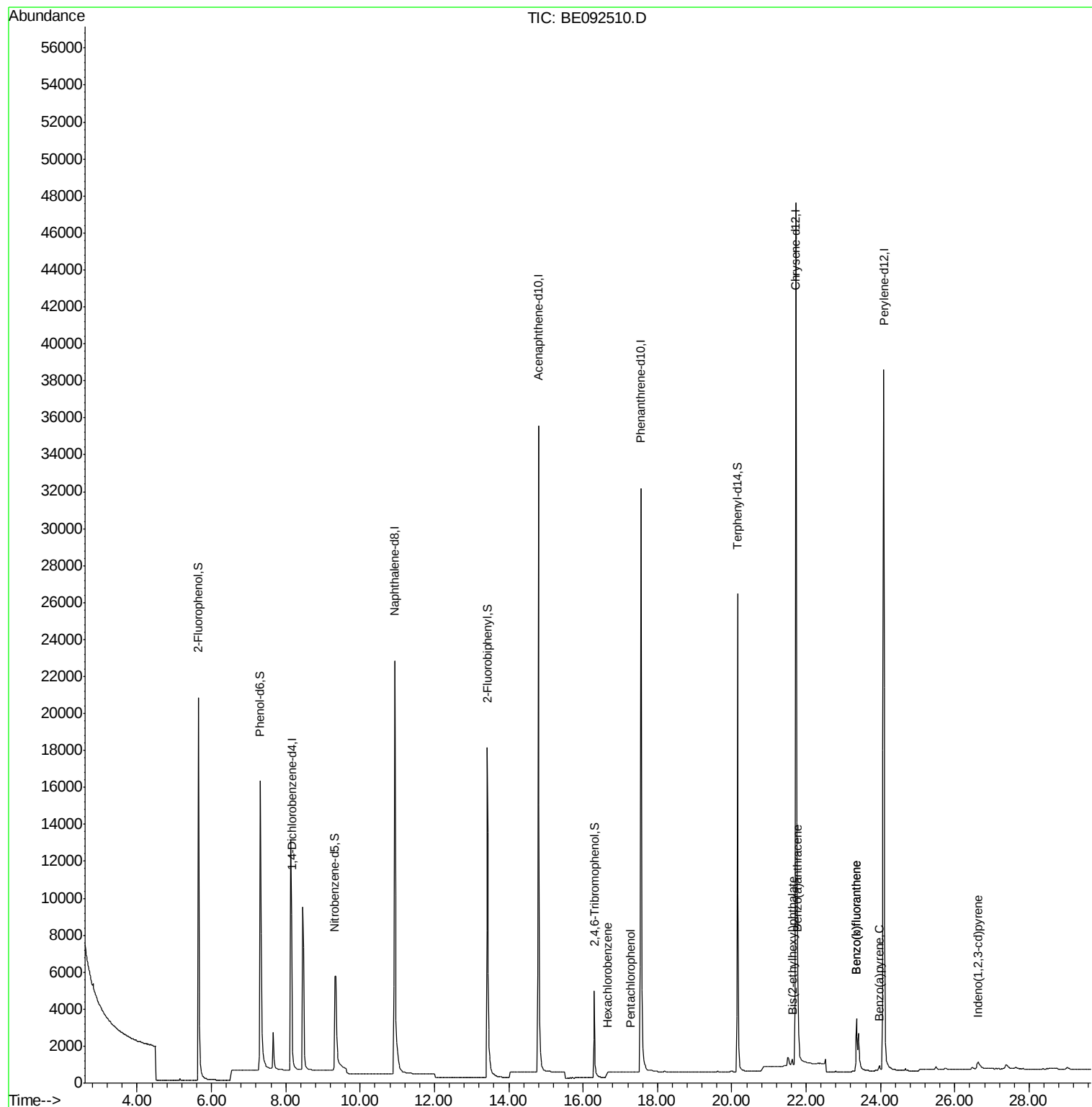
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) 1,4-Dioxane                 | 3.62  | 88   | 3        | Below Cal | #     | 19     |
| 19) Hexachlorobenzene          | 16.66 | 284  | 353      | 0.18 ng   | #     | 2      |
| 20) Pentachlorophenol          | 17.28 | 266  | 15       | 0.03 ng   | #     | 73     |
| 27) Benzo(a)anthracene         | 21.77 | 228  | 6820     | 0.11 ng   | #     | 87     |
| 28) Chrysene                   | 21.77 | 228  | 7004     | Below Cal | #     | 73     |
| 29) Bis(2-ethylhexyl)phthalate | 21.63 | 149  | 701      | 0.13 ng   | #     | 79     |
| 30) Indeno(1,2,3-cd)pyrene     | 26.63 | 276  | 1407     | 0.02 ng   |       | 96     |
| 32) Benzo(b)fluoranthene       | 23.36 | 252  | 4316     | 0.06 ng   |       | 96     |
| 33) Benzo(k)fluoranthene       | 23.36 | 252  | 4316     | 0.06 ng   |       | 98     |
| 34) Benzo(a)pyrene             | 23.97 | 252  | 515      | 0.03 ng   | #     | 22     |

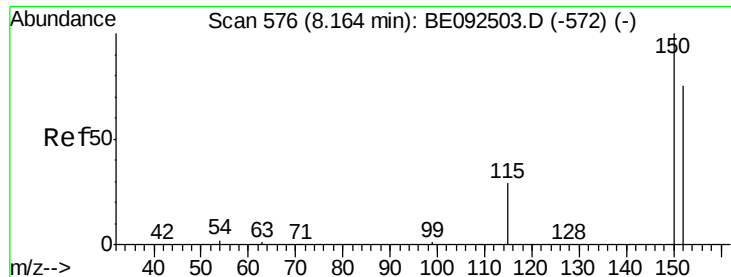
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 08 16:27:22 2016  
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.16 min Scan# 576

Delta R.T. 0.00 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

Instrument :

BNA\_E

ClientSampleId :

PB94535BL

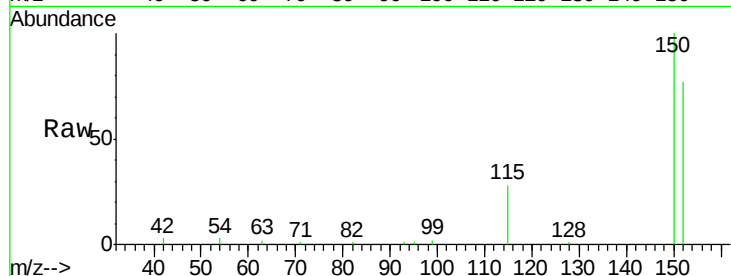
Tgt Ion: 152 Resp: 9353

Ion Ratio Lower Upper

152 100

150 130.5 106.0 159.0

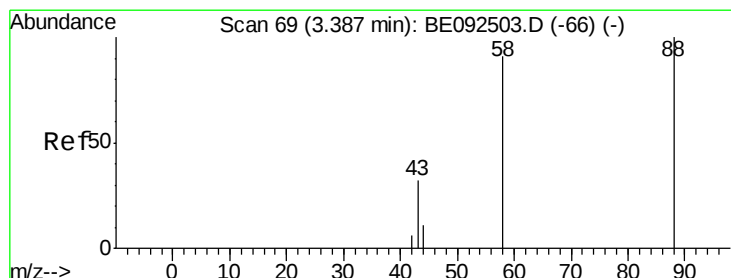
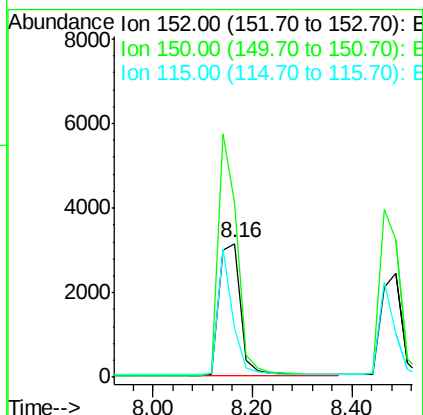
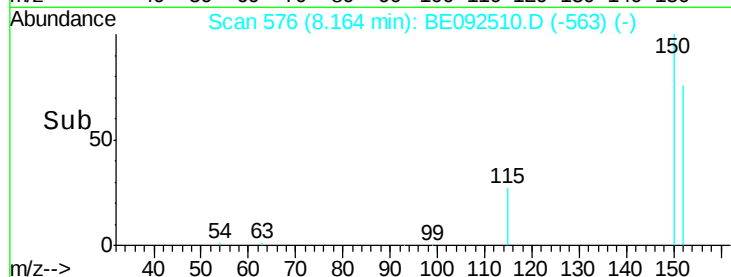
115 37.0 31.2 46.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: Below Cal

RT: 3.62 min Scan# 89

Delta R.T. 0.23 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

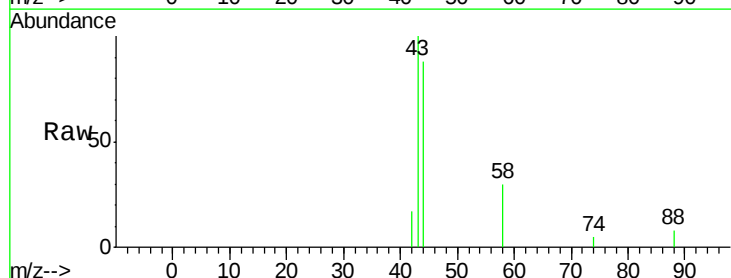
Tgt Ion: 88 Resp: 3

Ion Ratio Lower Upper

88 100

58 0.0 63.6 95.4#

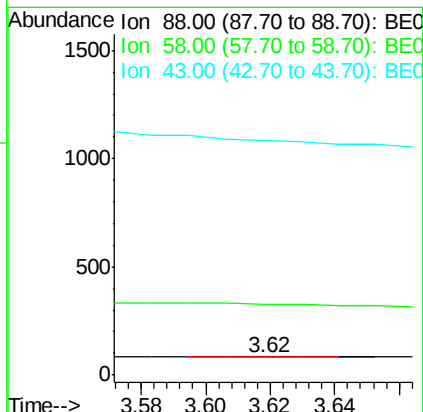
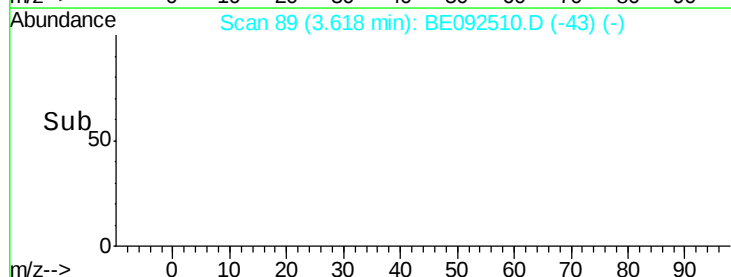
43 0.0 28.0 42.0#

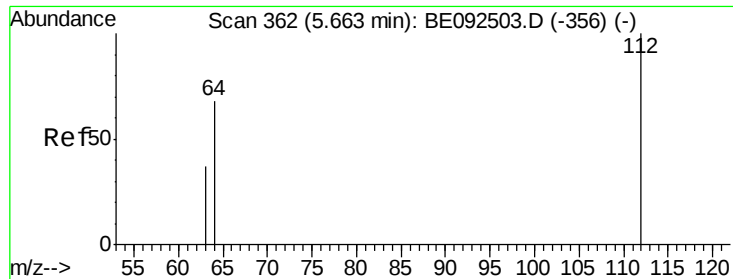


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 8.96 ng

RT: 5.66 min Scan# 361

Delta R.T. -0.01 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

Instrument :

BNA\_E

ClientSampleId :

PB94535BL

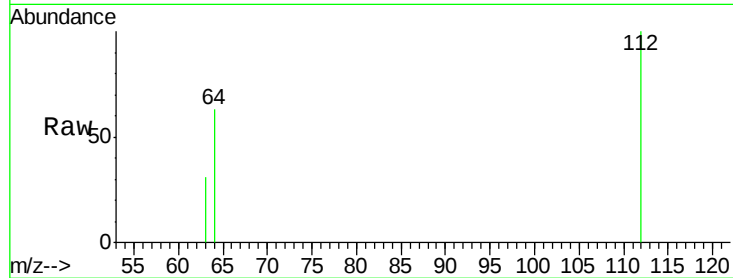
Tgt Ion: 112 Resp: 18482

Ion Ratio Lower Upper

112 100

64 67.3 53.5 80.3

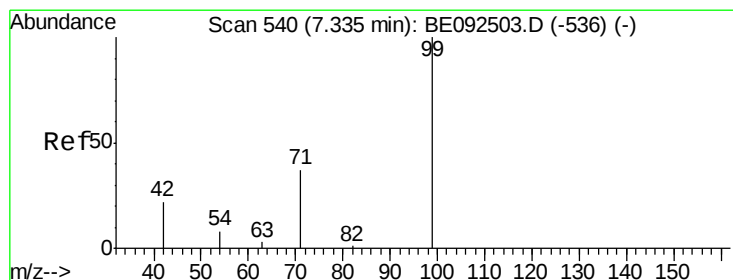
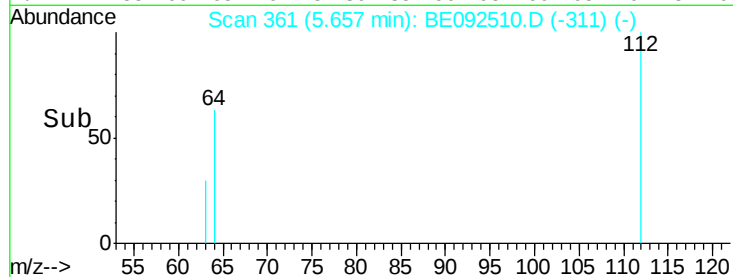
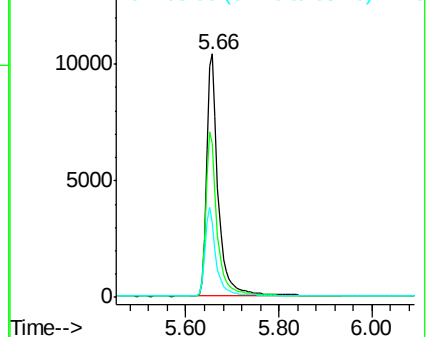
63 35.6 27.9 41.9



Abundance Ion 112.00 (111.70 to 112.70): BE092510.D (-527) (-)

Ion 64.00 (63.70 to 64.70): BE092510.D (-527) (-)

Ion 63.00 (62.70 to 63.70): BE092510.D (-527) (-)



#5

Phenol-d6

Concen: 8.43 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.02 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

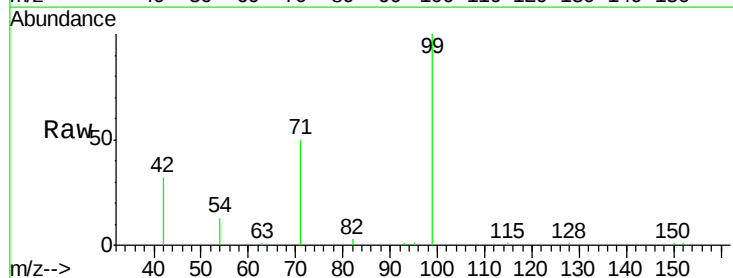
Tgt Ion: 99 Resp: 23186

Ion Ratio Lower Upper

99 100

42 23.6 16.0 24.0

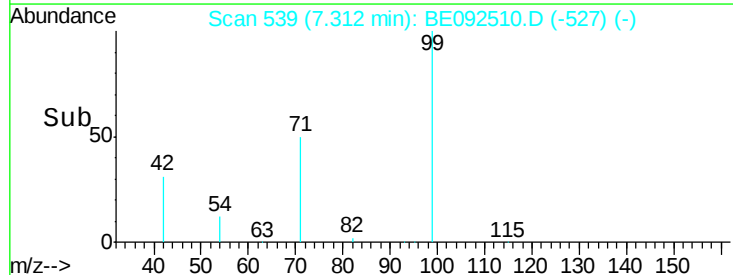
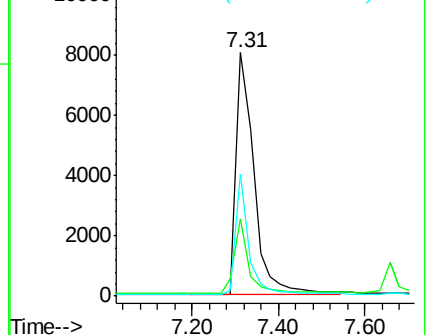
71 36.8 30.6 45.8

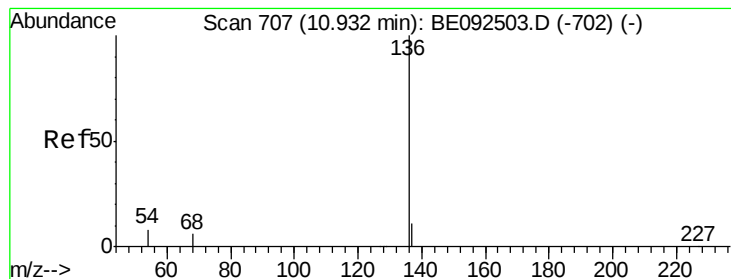


Abundance Ion 99.00 (98.70 to 99.70): BE092510.D (-527) (-)

Ion 42.00 (41.70 to 42.70): BE092510.D (-527) (-)

Ion 71.00 (70.70 to 71.70): BE092510.D (-527) (-)





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.93 min Scan# 707

Delta R.T. 0.00 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

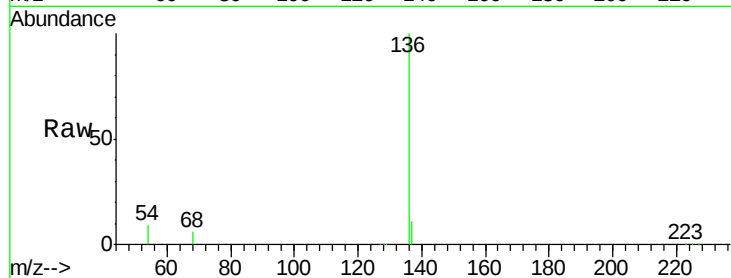
Instrument :

BNA\_E

ClientSampleId :

PB94535BL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 40756 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 10.7  | 8.2   | 12.4  |
| 54       | 8.6   | 9.6   | 14.4# |
| 68       | 6.3   | 6.7   | 10.1# |

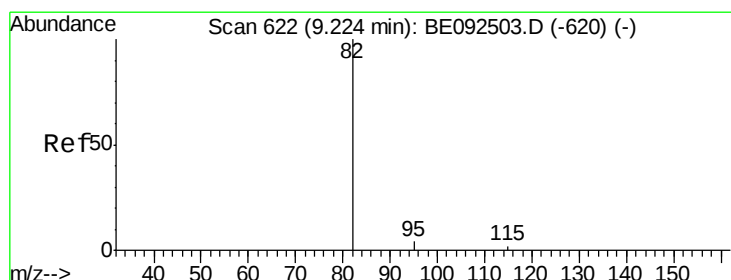
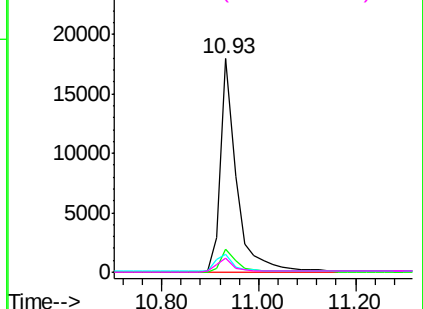
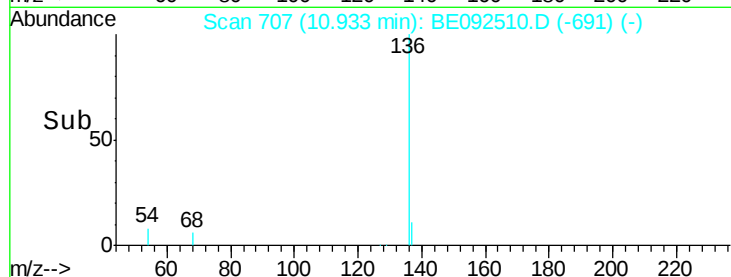


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 3.93 ng

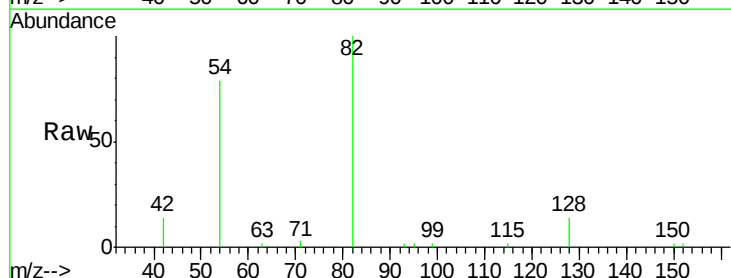
RT: 9.32 min Scan# 626

Delta R.T. -0.02 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

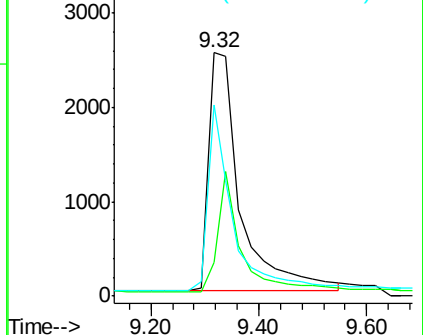
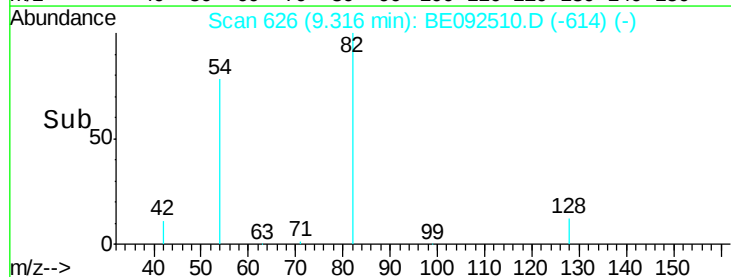
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 10511 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 13.7  | 39.0  | 58.4# |
| 54       | 78.7  | 44.8  | 67.2# |

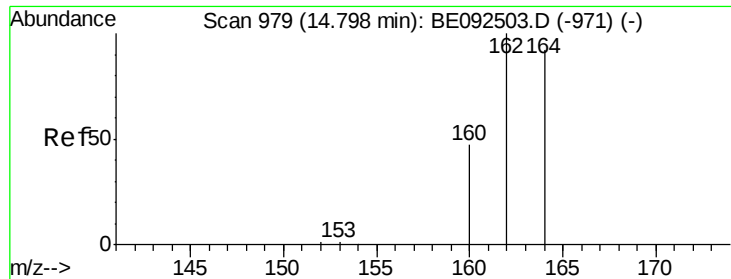


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.80 min Scan# 979

Delta R.T. 0.00 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

Instrument :

BNA\_E

ClientSampleId :

PB94535BL

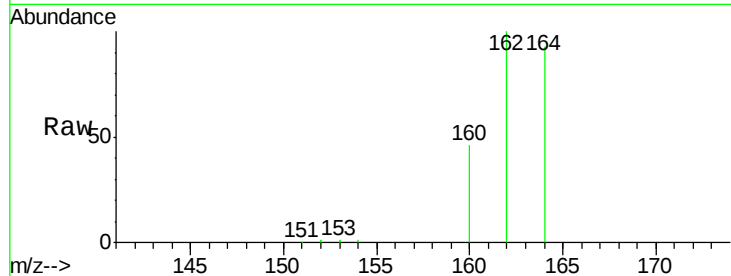
Tgt Ion:164 Resp: 24615

Ion Ratio Lower Upper

164 100

162 108.0 71.4 107.0#

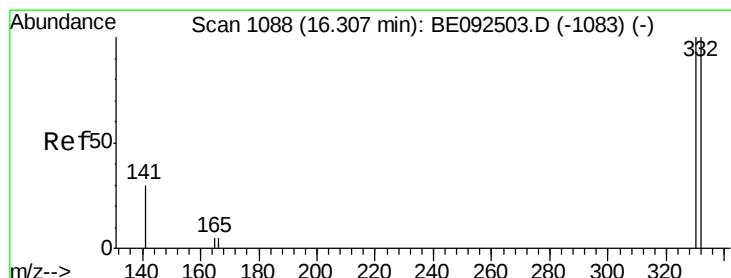
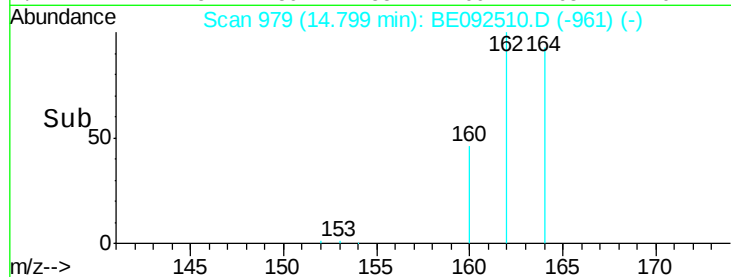
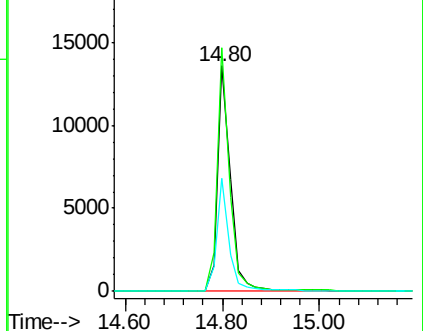
160 50.1 27.4 41.2#



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#13

2,4,6-Tribromophenol

Concen: 4.81 ng

RT: 16.29 min Scan# 1087

Delta R.T. -0.01 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

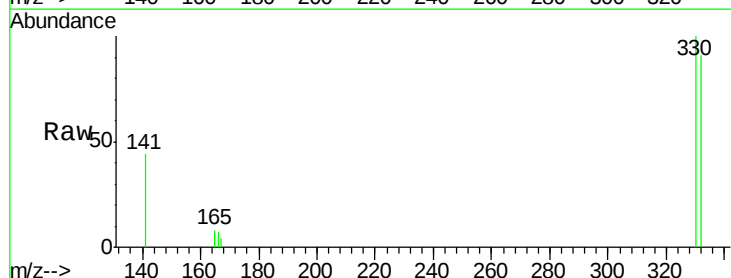
Tgt Ion:330 Resp: 4152

Ion Ratio Lower Upper

330 100

332 97.6 75.4 113.0

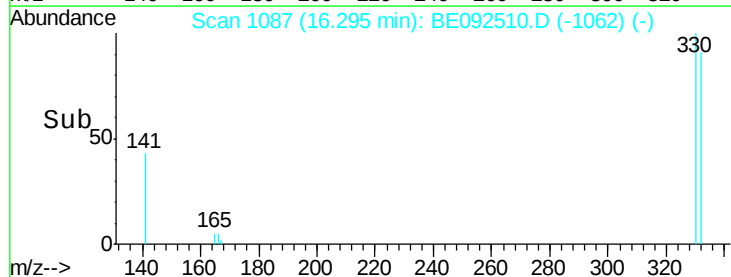
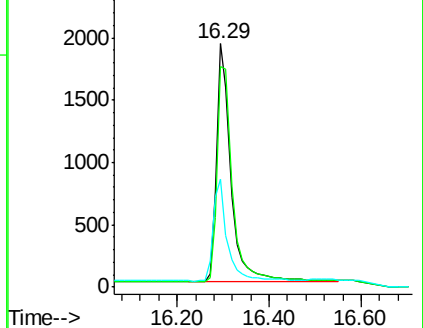
141 42.5 31.0 46.6

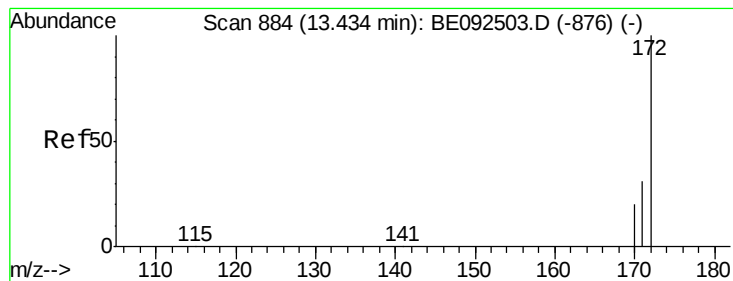


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#14

2-Fluorobiphenyl

Concen: 4.09 ng

RT: 13.42 min Scan# 883

Delta R.T. -0.01 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

Instrument :

BNA\_E

ClientSampleId :

PB94535BL

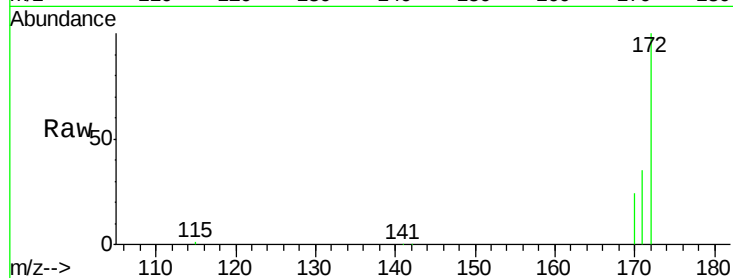
Tgt Ion:172 Resp: 24869

Ion Ratio Lower Upper

172 100

171 35.1 30.1 45.1

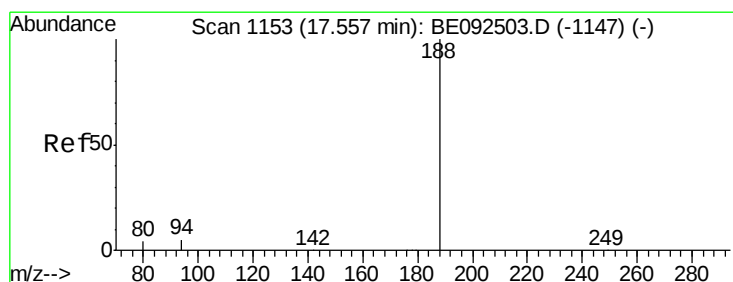
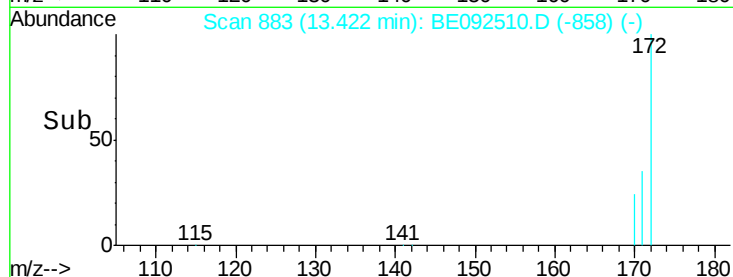
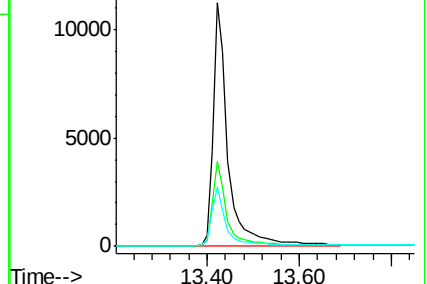
170 24.4 21.8 32.6



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.56 min Scan# 1153

Delta R.T. -0.00 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

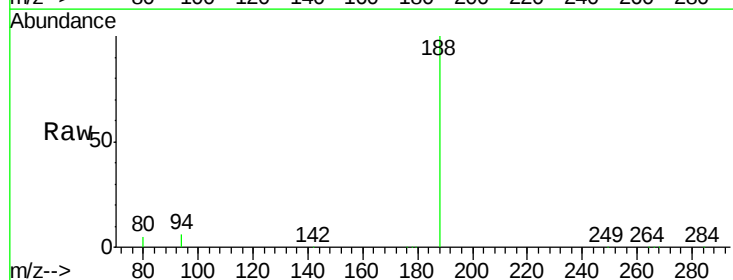
Tgt Ion:188 Resp: 51639

Ion Ratio Lower Upper

188 100

94 6.0 3.2 4.8#

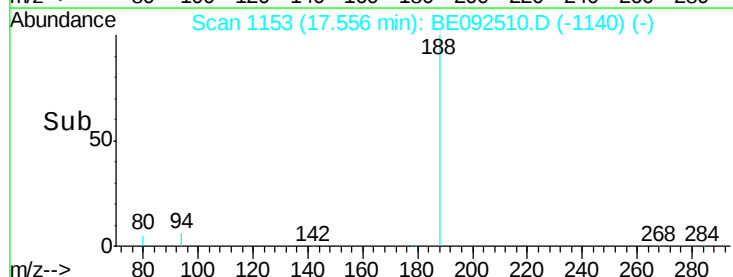
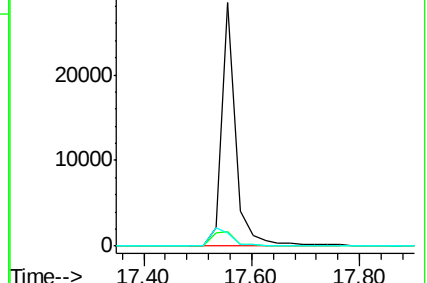
80 5.5 2.6 3.8#

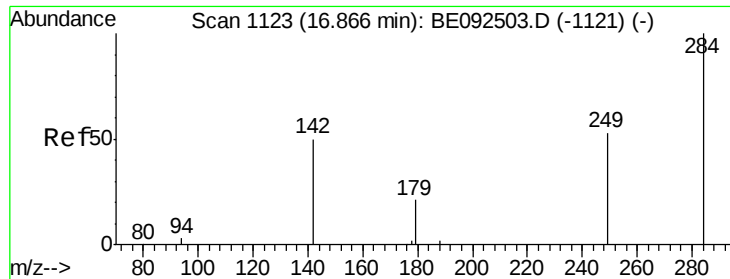


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#19

Hexachlorobenzene

Concen: 0.18 ng

RT: 16.66 min Scan# 1114

Delta R.T. -0.21 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

Instrument :

BNA\_E

ClientSampleId :

PB94535BL

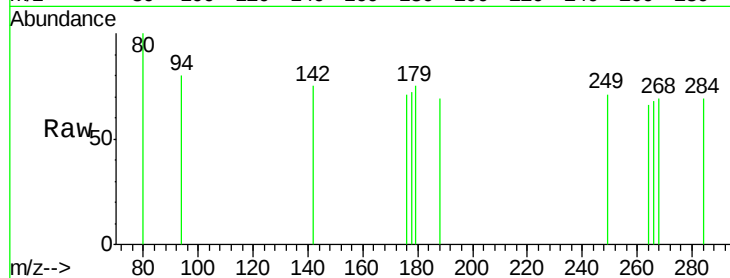
Tgt Ion: 284 Resp: 353

Ion Ratio Lower Upper

284 100

142 0.0 29.1 43.7#

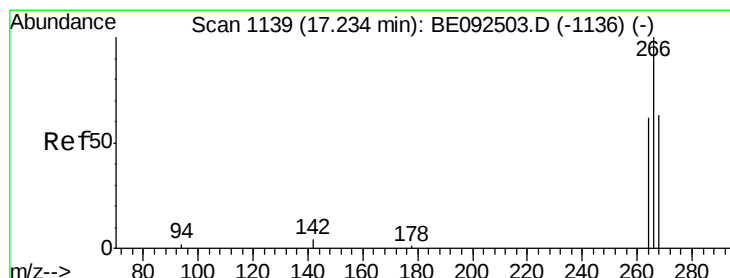
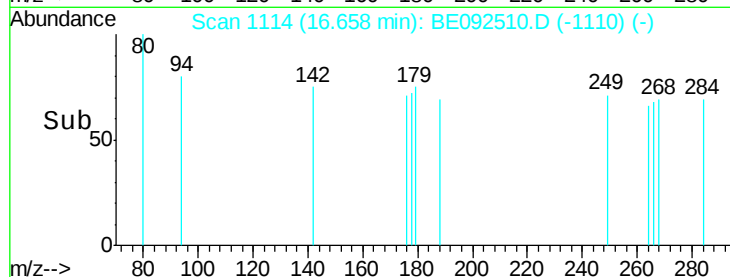
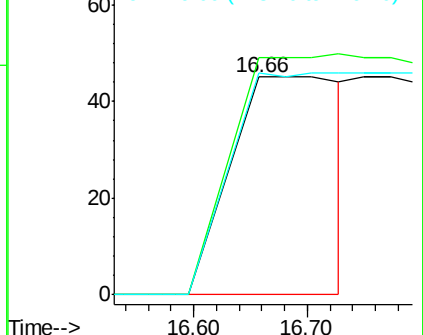
249 113.9 27.9 41.9#



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#20

Pentachlorophenol

Concen: 0.03 ng

RT: 17.28 min Scan# 1141

Delta R.T. 0.05 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

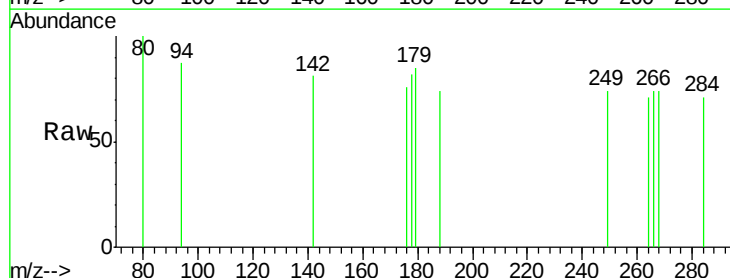
Tgt Ion: 266 Resp: 15

Ion Ratio Lower Upper

266 100

268 100.0 62.5 93.7#

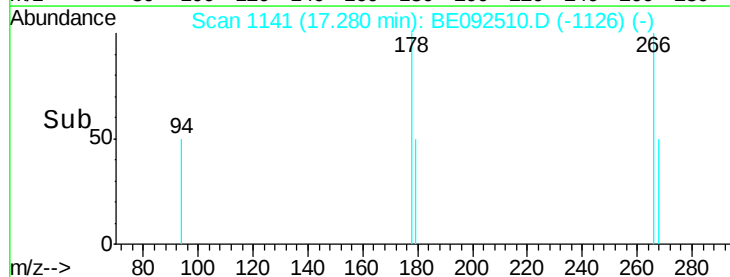
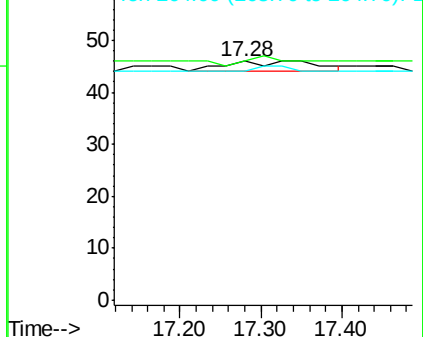
264 95.7 57.2 85.8#

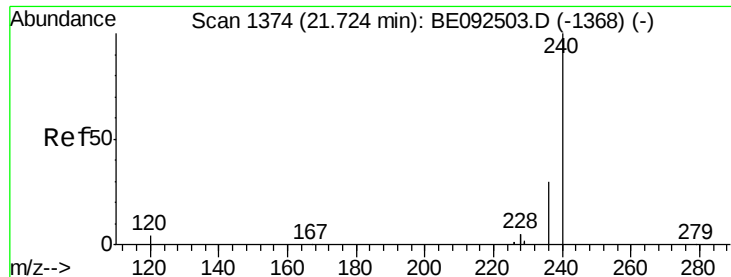


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

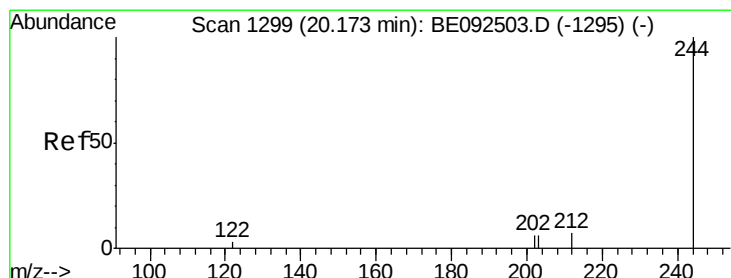
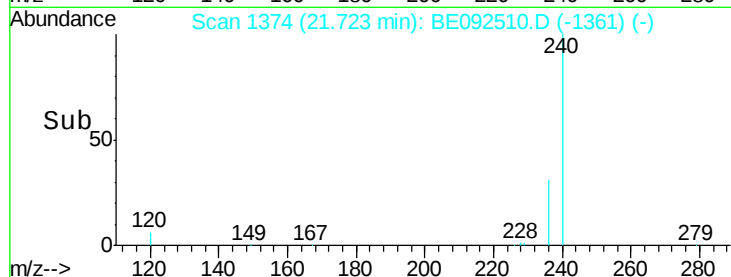
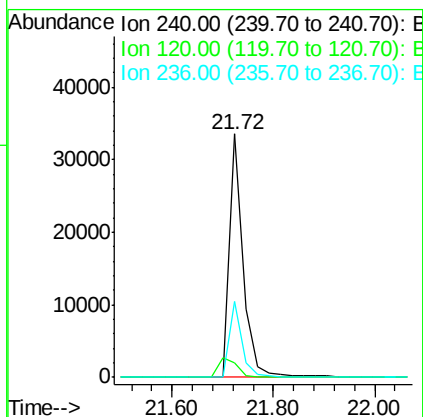
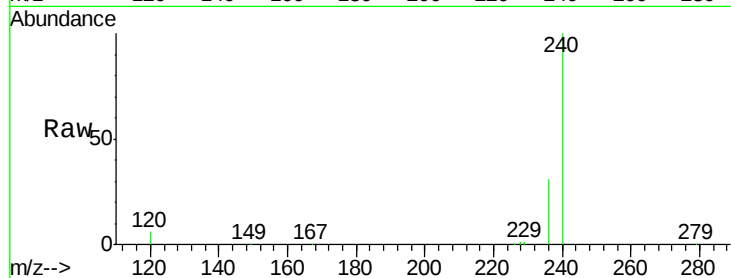




#24  
Chrysene-d12  
Concen: 5.00 ng  
RT: 21.72 min Scan# 1374  
Delta R.T. -0.00 min  
Lab File: BE092510.D  
Acq: 8 Nov 2016 15:52

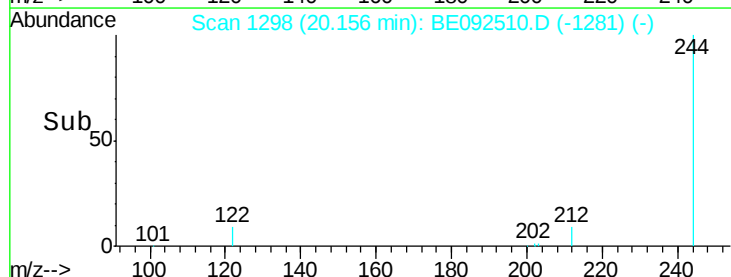
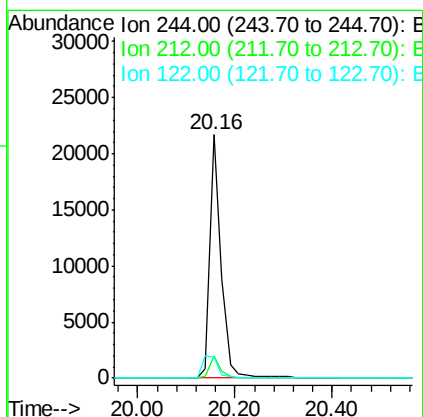
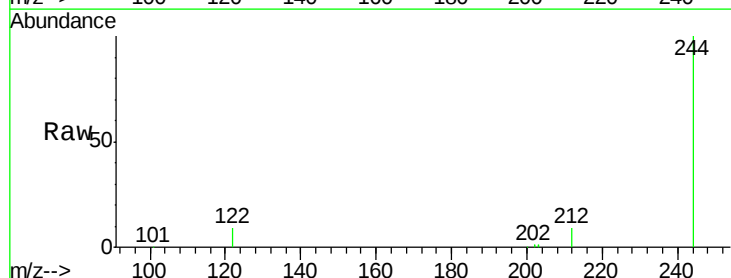
Instrument :  
BNA\_E  
ClientSampleId :  
PB94535BL

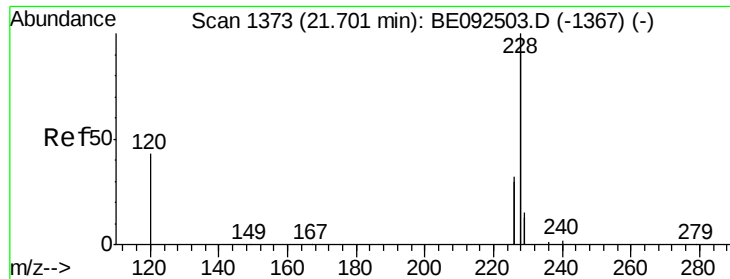
Tgt Ion:240 Resp: 62514  
Ion Ratio Lower Upper  
240 100  
120 5.9 2.6 4.0#  
236 31.1 24.6 37.0



#26  
Terphenyl-d14  
Concen: 4.54 ng  
RT: 20.16 min Scan# 1298  
Delta R.T. -0.02 min  
Lab File: BE092510.D  
Acq: 8 Nov 2016 15:52

Tgt Ion:244 Resp: 34440  
Ion Ratio Lower Upper  
244 100  
212 9.1 6.7 10.1  
122 8.8 3.6 5.4#





#27

Benzo(a)anthracene

Concen: 0.11 ng

RT: 21.77 min Scan# 1376

Delta R.T. 0.07 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

Instrument :

BNA\_E

ClientSampleId :

PB94535BL

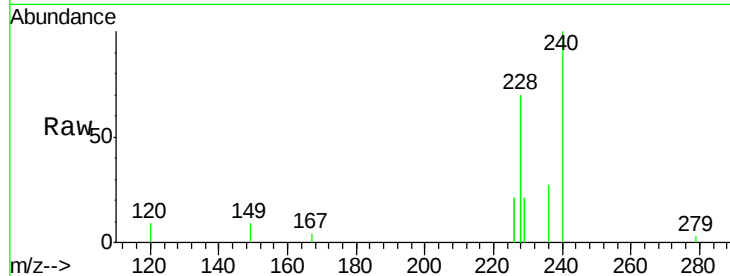
Tgt Ion:228 Resp: 6820

Ion Ratio Lower Upper

228 100

226 30.7 23.6 35.4

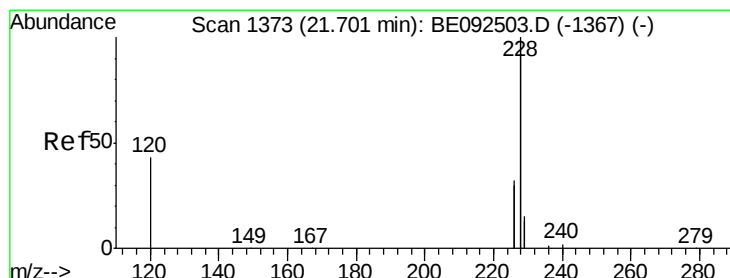
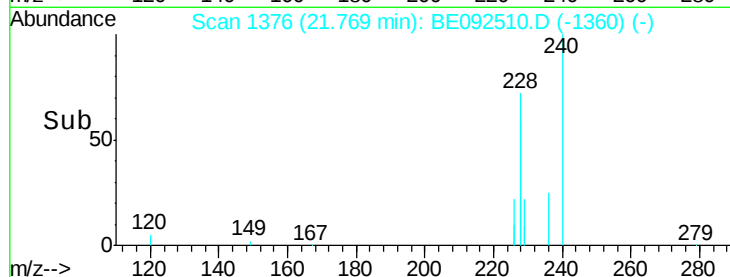
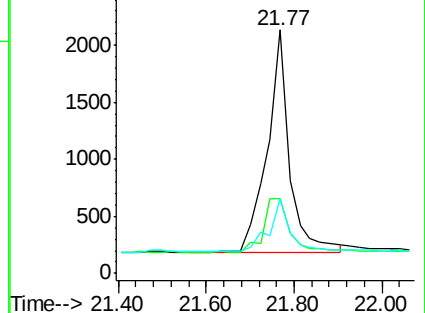
229 30.7 13.3 19.9#



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



#28

Chrysene

Concen: Below Cal

RT: 21.77 min Scan# 1376

Delta R.T. 0.00 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

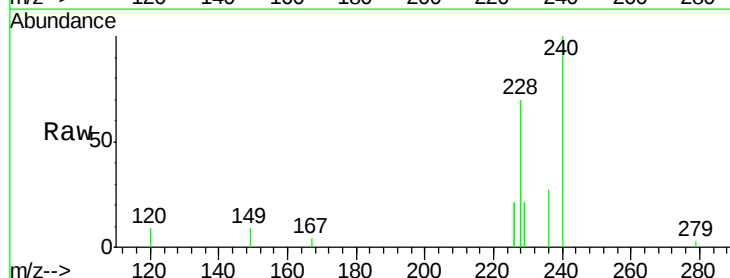
Tgt Ion:228 Resp: 7004

Ion Ratio Lower Upper

228 100

226 30.7 36.3 54.5#

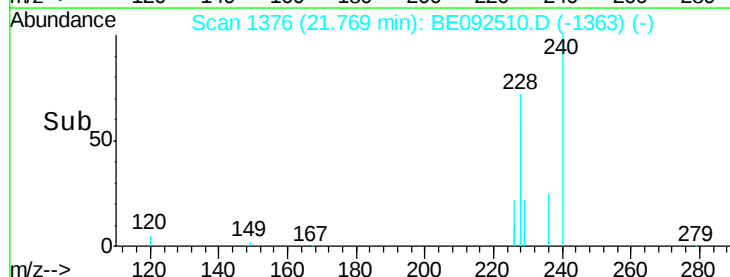
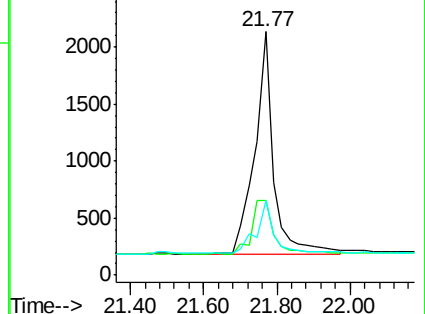
229 30.7 10.6 16.0#

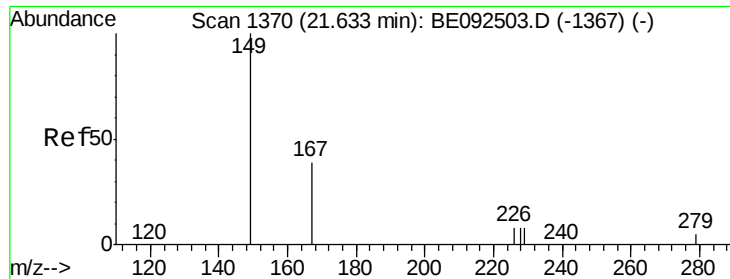


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

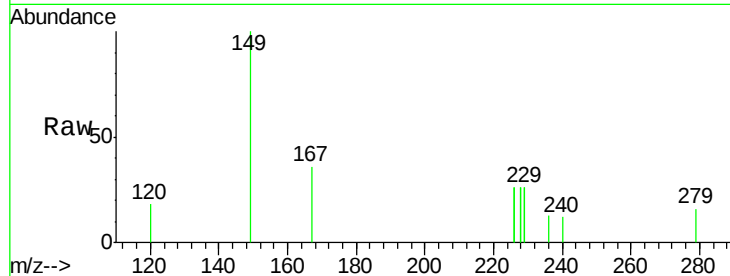




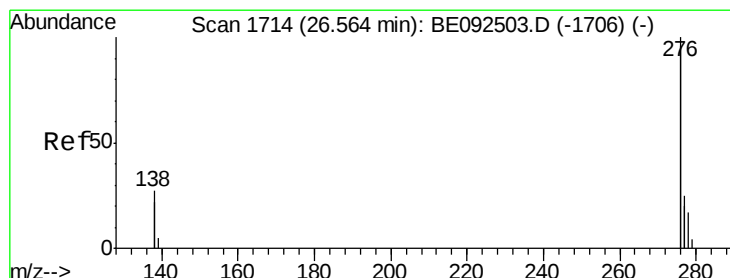
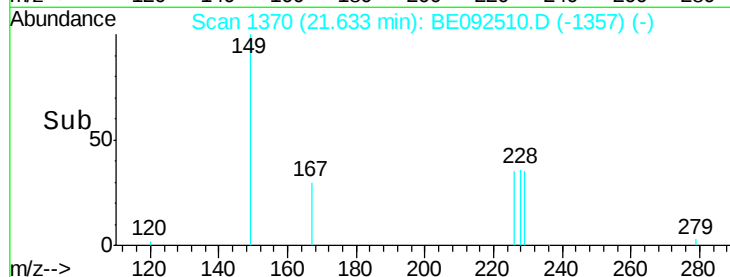
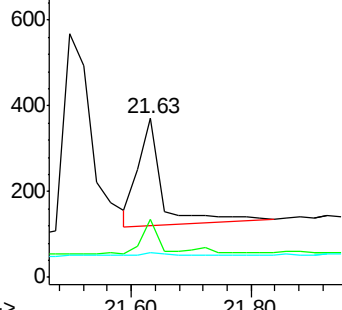
#29  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.13 ng  
 RT: 21.63 min Scan# 1370  
 Delta R.T. 0.00 min  
 Lab File: BE092510.D  
 Acq: 8 Nov 2016 15:52

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB94535BL

Tgt Ion:149 Resp: 701  
 Ion Ratio Lower Upper  
 149 100  
 167 22.3 16.0 24.0  
 279 2.7 16.0 24.0#

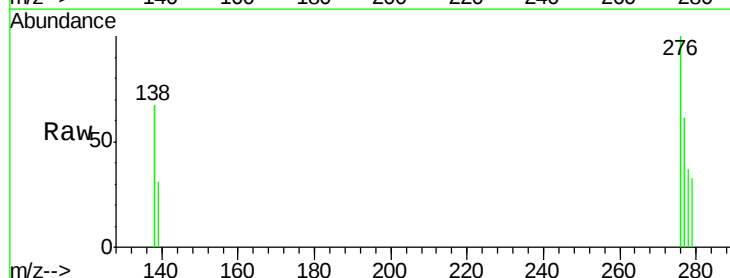


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

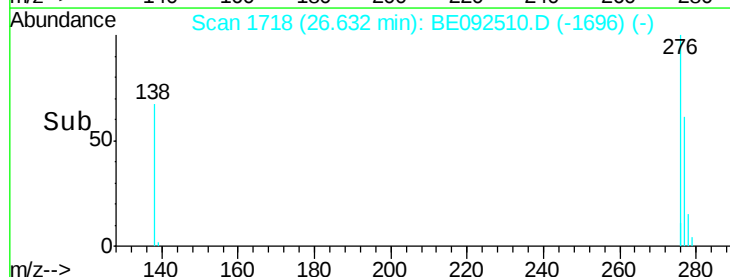
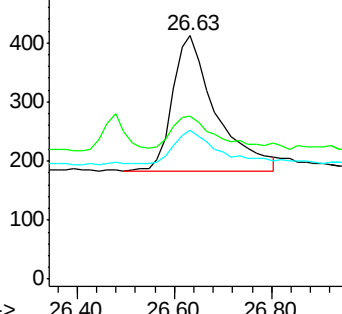


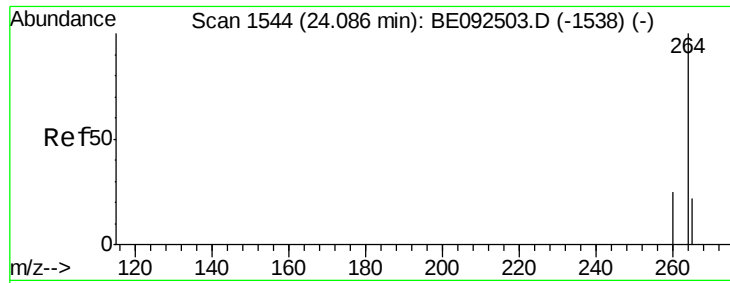
#30  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.02 ng  
 RT: 26.63 min Scan# 1718  
 Delta R.T. 0.07 min  
 Lab File: BE092510.D  
 Acq: 8 Nov 2016 15:52

Tgt Ion:276 Resp: 1407  
 Ion Ratio Lower Upper  
 276 100  
 138 22.5 20.3 30.5  
 277 23.5 19.7 29.5



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

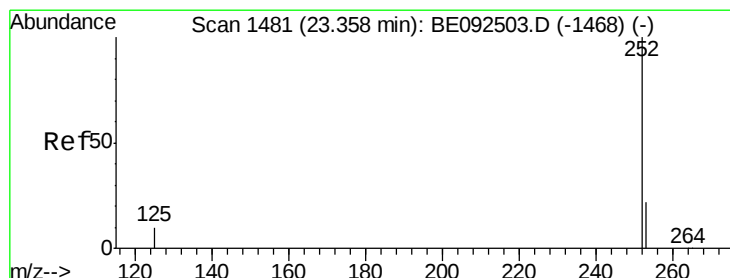
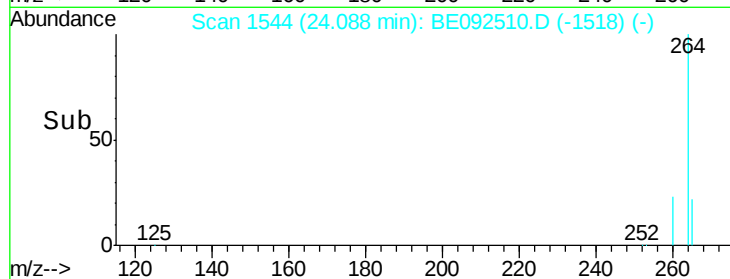
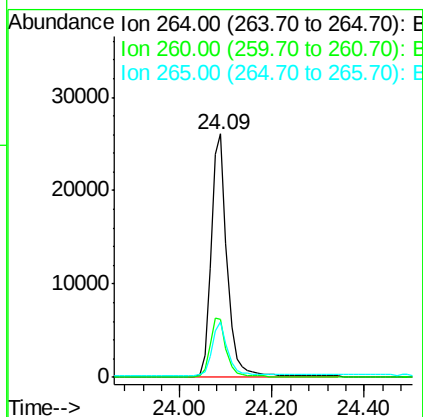
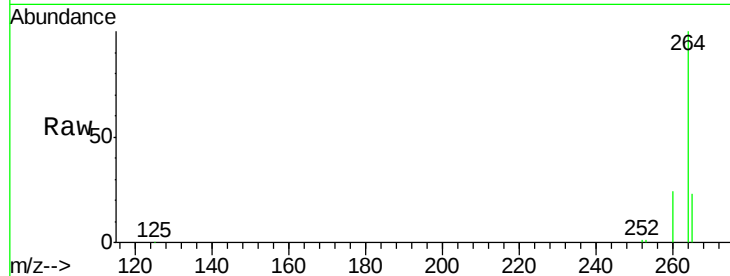




#31  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 24.09 min Scan# 1544  
 Delta R.T. 0.00 min  
 Lab File: BE092510.D  
 Acq: 8 Nov 2016 15:52

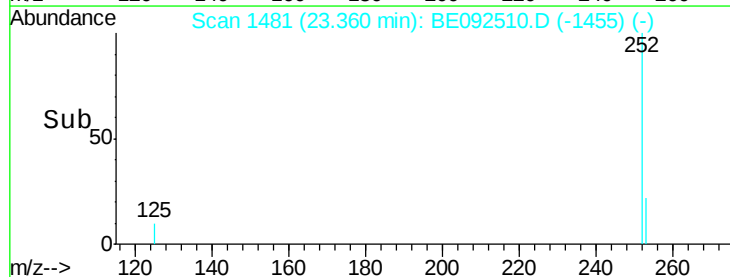
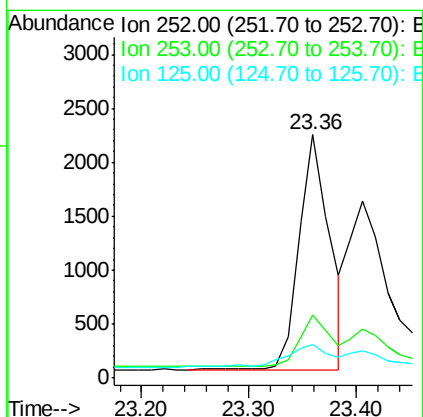
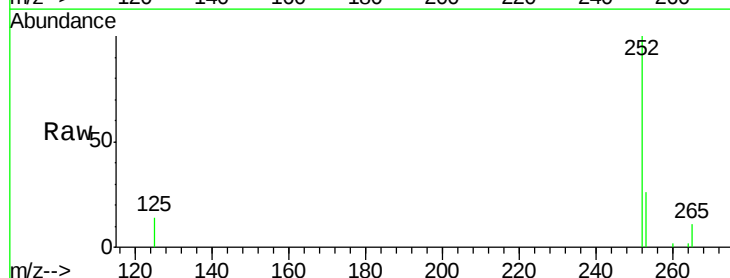
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB94535BL

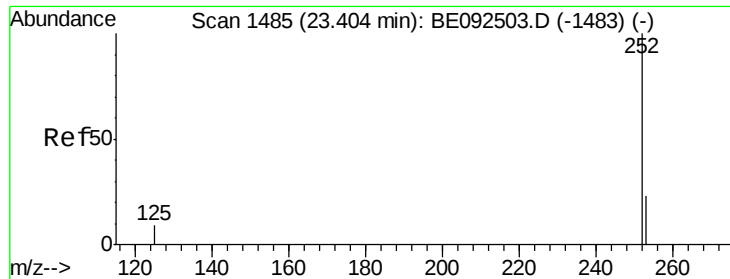
Tgt Ion:264 Resp: 62768  
 Ion Ratio Lower Upper  
 264 100  
 260 23.6 20.1 30.1  
 265 22.7 17.9 26.9



#32  
 Benzo(b)fluoranthene  
 Concen: 0.06 ng  
 RT: 23.36 min Scan# 1481  
 Delta R.T. 0.00 min  
 Lab File: BE092510.D  
 Acq: 8 Nov 2016 15:52

Tgt Ion:252 Resp: 4316  
 Ion Ratio Lower Upper  
 252 100  
 253 25.9 18.7 28.1  
 125 14.0 10.5 15.7





#33

Benzo(k)fluoranthene

Concen: 0.06 ng

RT: 23.36 min Scan# 1481

Delta R.T. -0.04 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

Instrument :

BNA\_E

ClientSampleId :

PB94535BL

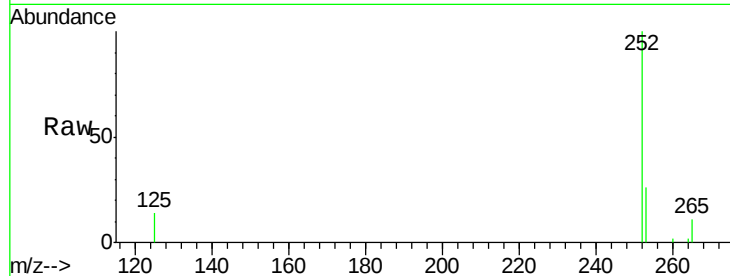
Tgt Ion:252 Resp: 4316

Ion Ratio Lower Upper

252 100

253 25.9 20.3 30.5

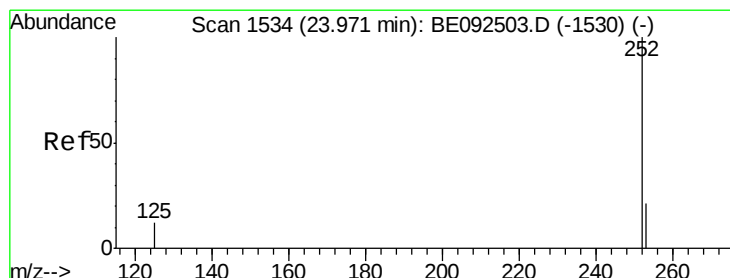
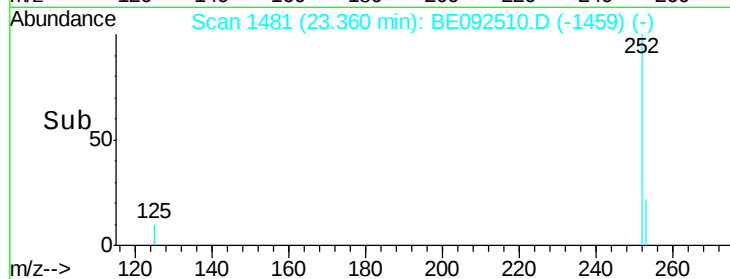
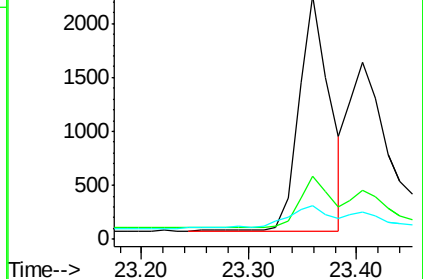
125 14.0 9.6 14.4



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



#34

Benzo(a)pyrene

Concen: 0.03 ng

RT: 23.97 min Scan# 1534

Delta R.T. 0.00 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

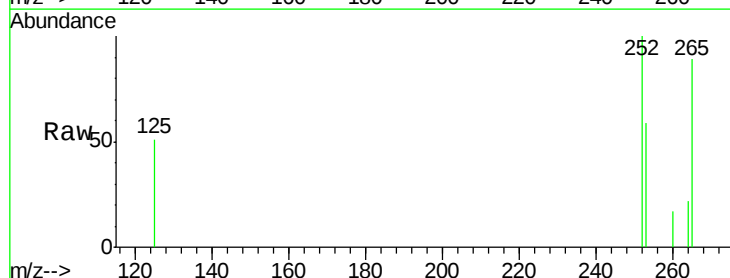
Tgt Ion:252 Resp: 515

Ion Ratio Lower Upper

252 100

253 59.4 19.0 28.6#

125 51.1 11.8 17.8#



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

