

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE081115\  
 Data File : BE090433.D  
 Acq On : 11 Aug 2015 18:09  
 Operator : UM/IZ  
 Sample : G3129-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 080715-D506-E-D-M

Quant Time: Aug 12 04:14:25 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE080515.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 06 12:28:08 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.58  | 152  | 17798    | 5.00 | ng    | 0.00     |
| 6) Naphthalene-d8         | 10.34 | 136  | 82174    | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.20 | 164  | 48432    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 16.94 | 188  | 114971   | 5.00 | ng    | 0.00     |
| 25) Chrysene-d12          | 21.09 | 240  | 135909   | 5.00 | ng    | 0.00     |
| 32) Perylene-d12          | 23.40 | 264  | 119278   | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.22  | 112  | 12396    | 4.64 | ng    | 0.00     |
| 5) Phenol-d6                | 6.78  | 99   | 11265    | 2.13 | ng    | 0.00     |
| 7) Nitrobenzene-d5          | 8.73  | 82   | 21242    | 3.25 | ng    | 0.00     |
| 13) 2,4,6-Tribromophenol    | 15.71 | 330  | 13818    | 8.87 | ng    | 0.00     |
| 14) 2-Fluorobiphenyl        | 12.82 | 172  | 54945    | 4.12 | ng    | 0.00     |
| 27) Terphenyl-d14           | 19.55 | 244  | 110250   | 5.51 | ng    | -0.01    |

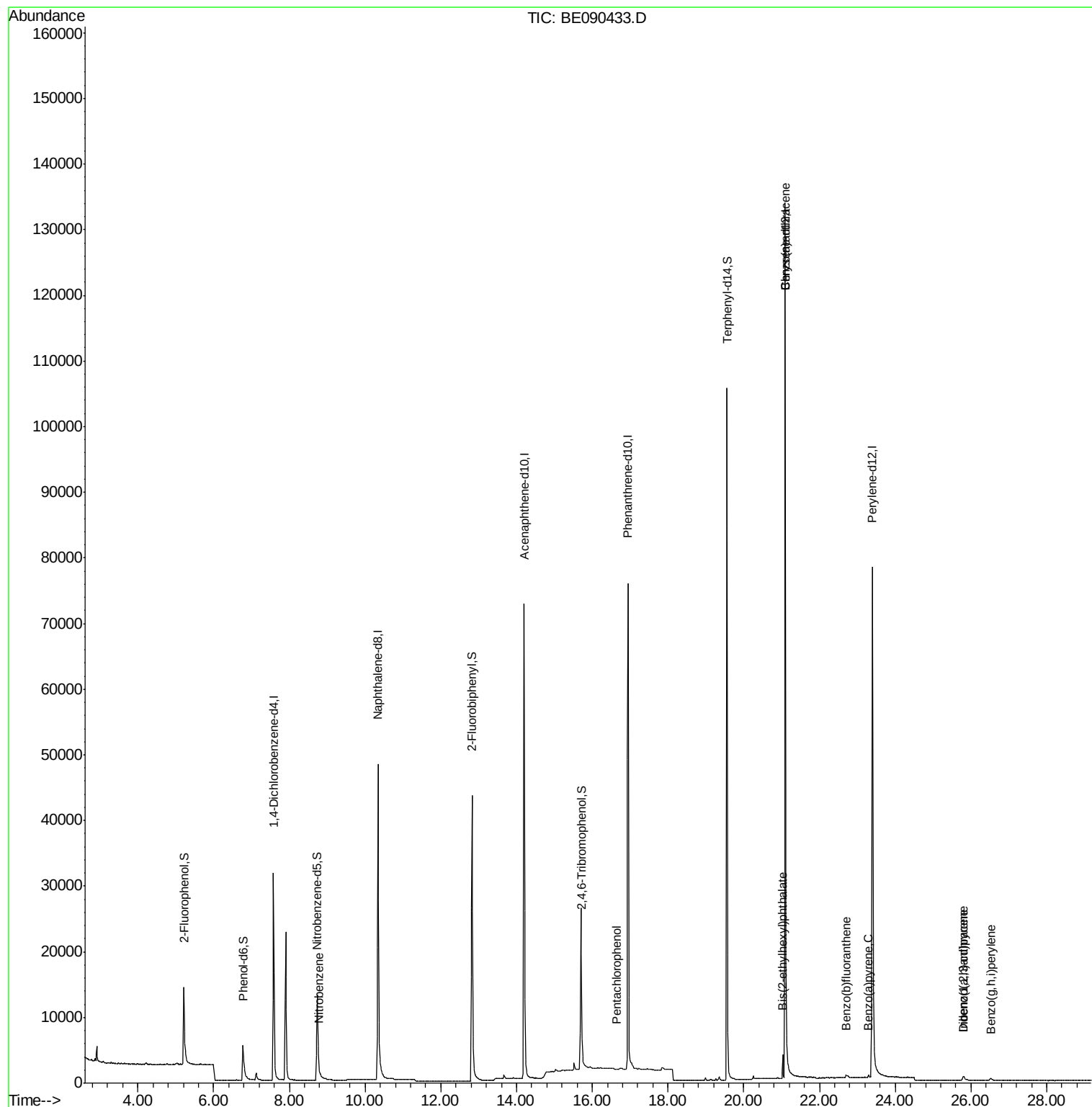
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) 1,4-Dioxane                 | 3.19  | 88   | 28       | Below Cal | #     | 31     |
| 8) Nitrobenzene                | 8.79  | 77   | 10       | 0.21 ng   | #     | 32     |
| 10) Hexachlorobutadiene        | 10.69 | 225  | 4        | Below Cal | #     | 52     |
| 21) Pentachlorophenol          | 16.63 | 266  | 30       | 0.13 ng   | #     | 69     |
| 28) Benzo(a)anthracene         | 21.09 | 228  | 935      | 0.03 ng   | #     | 84     |
| 30) Bis(2-ethylhexyl)phthalate | 21.03 | 149  | 3419     | 0.57 ng   |       | 98     |
| 31) Indeno(1,2,3-cd)pyrene     | 25.78 | 276  | 1111     | 0.28 ng   |       | 96     |
| 33) Benzo(b)fluoranthene       | 22.70 | 252  | 759      | 0.22 ng   | #     | 46     |
| 35) Benzo(a)pyrene             | 23.30 | 252  | 642      | 0.25 ng   | #     | 34     |
| 36) Dibenzo(a,h)anthracene     | 25.81 | 278  | 859      | 0.32 ng   | #     | 49     |
| 37) Benzo(g,h,i)perylene       | 26.51 | 276  | 888      | 0.04 ng   | #     | 70     |

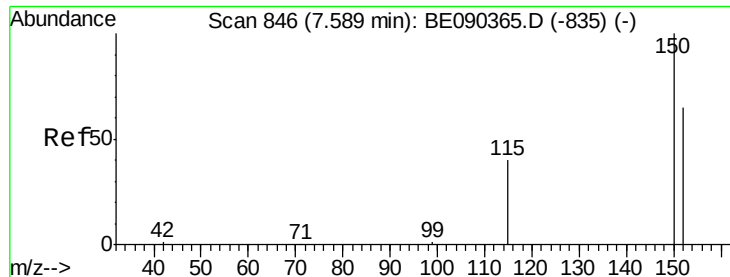
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE081115\  
Data File : BE090433.D  
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Operator : UM/IZ  
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Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
080715-D506-E-D-M

Quant Time: Aug 12 04:14:25 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE080515.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 06 12:28:08 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.58 min Scan# 845

Delta R.T. -0.01 min

Lab File: BE090433.D

Acq: 11 Aug 2015 18:09

Instrument :

BNA\_E

ClientSampleId :

080715-D506-E-D-M

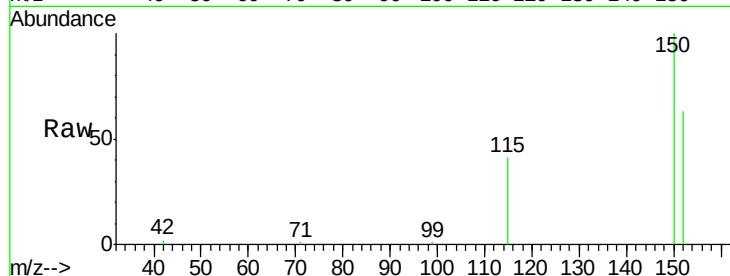
Tgt Ion:152 Resp: 17798

Ion Ratio Lower Upper

152 100

150 158.5 123.0 184.4

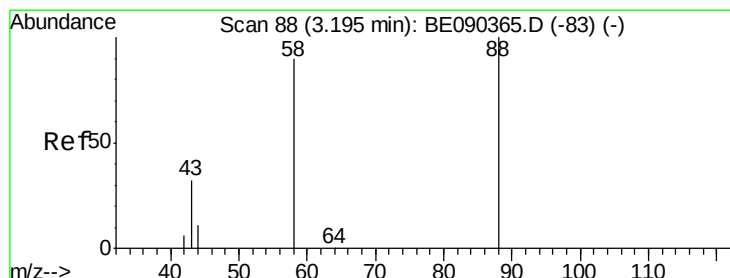
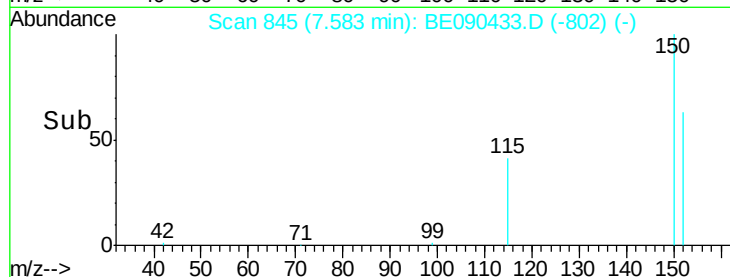
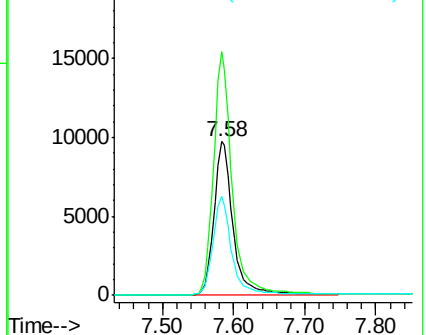
115 64.8 48.9 73.3



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: 3.19 min Scan# 87

Delta R.T. -0.01 min

Lab File: BE090433.D

Acq: 11 Aug 2015 18:09

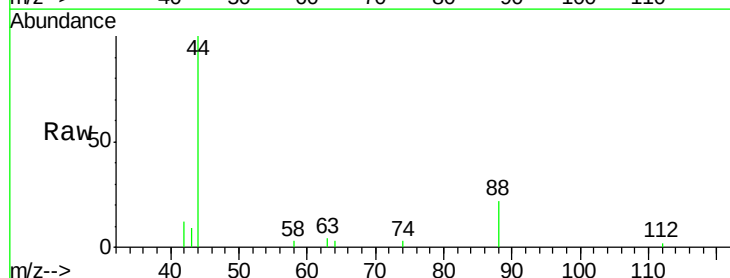
Tgt Ion: 88 Resp: 28

Ion Ratio Lower Upper

88 100

58 82.1 70.0 105.0

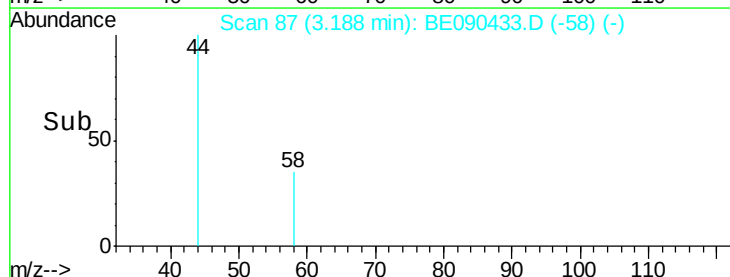
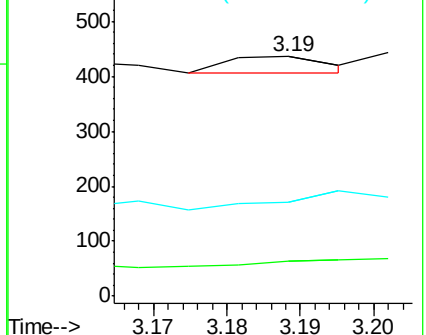
43 167.9 28.4 42.6#

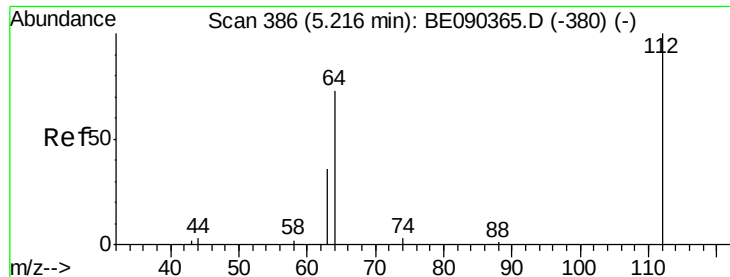


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

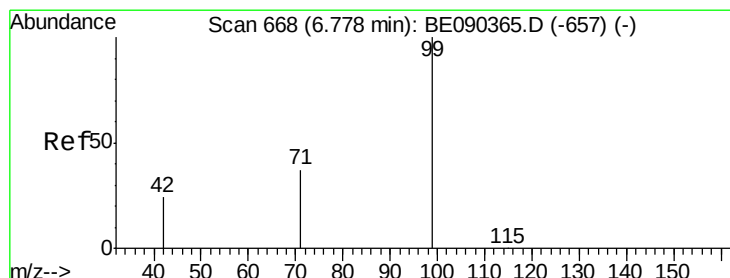
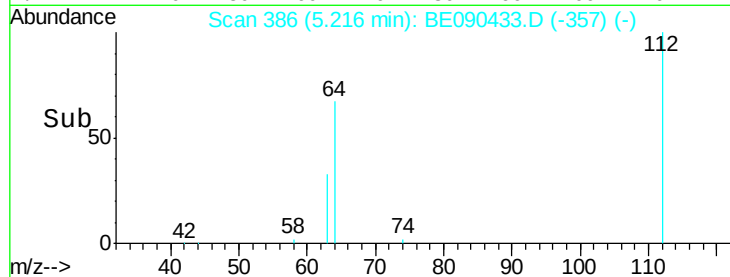
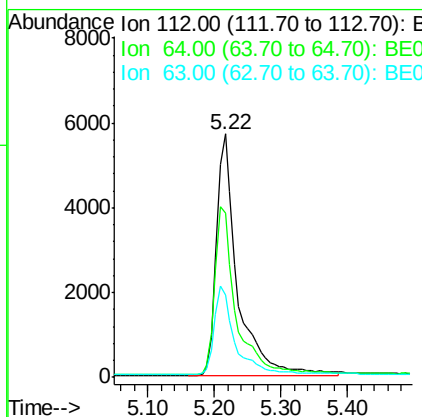
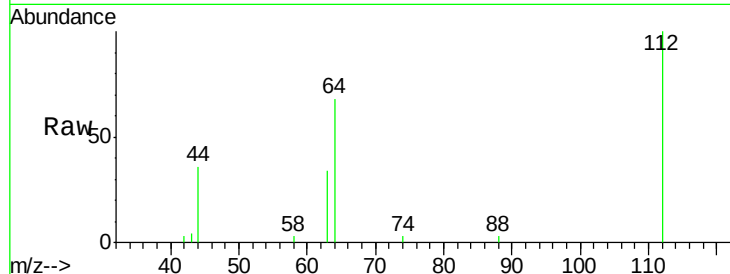




#4  
 2-Fluorophenol  
 Concen: 4.64 ng  
 RT: 5.22 min Scan# 386  
 Delta R.T. 0.00 min  
 Lab File: BE090433.D  
 Acq: 11 Aug 2015 18:09

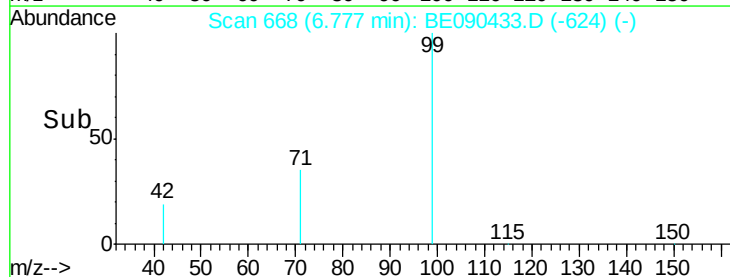
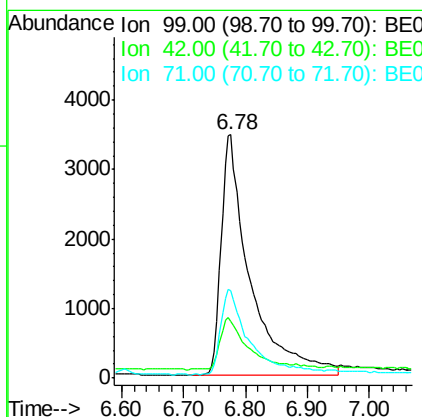
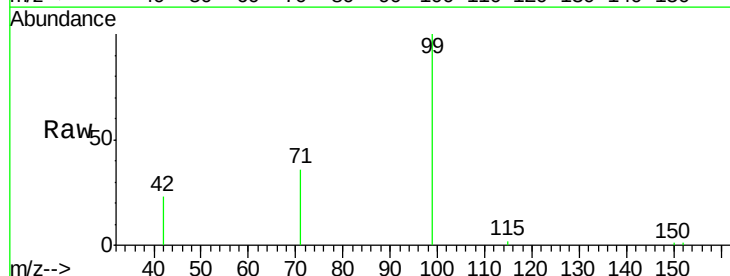
Instrument :  
 BNA\_E  
 ClientSampleId :  
 080715-D506-E-D-M

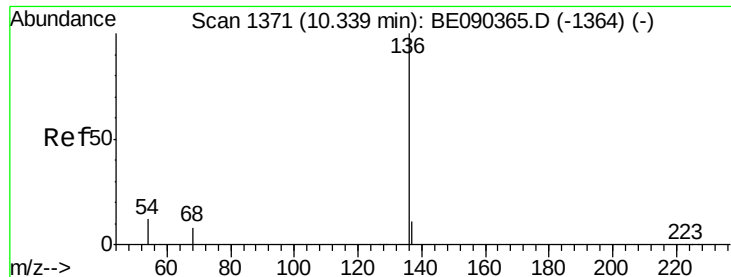
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 12396 |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 70.6  | 37.1  | 55.7# |
| 63       | 36.3  | 19.5  | 29.3# |



#5  
 Phenol-d6  
 Concen: 2.13 ng  
 RT: 6.78 min Scan# 668  
 Delta R.T. -0.00 min  
 Lab File: BE090433.D  
 Acq: 11 Aug 2015 18:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 11265 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 21.1  | 18.2  | 27.4  |
| 71       | 35.3  | 27.4  | 41.0  |





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.34 min Scan# 1371

Delta R.T. 0.00 min

Lab File: BE090433.D

Acq: 11 Aug 2015 18:09

Instrument :

BNA\_E

ClientSampleId :

080715-D506-E-D-M

Tgt Ion:136 Resp: 82174

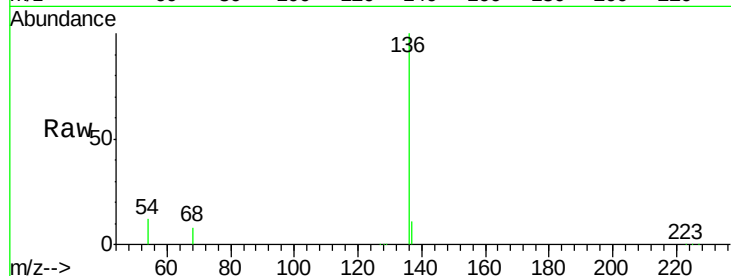
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 11.5 9.4 14.0

68 8.3 6.5 9.7

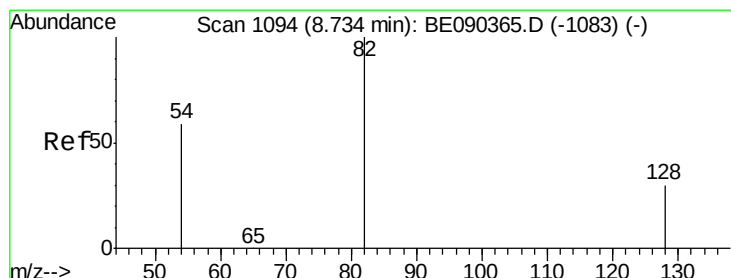
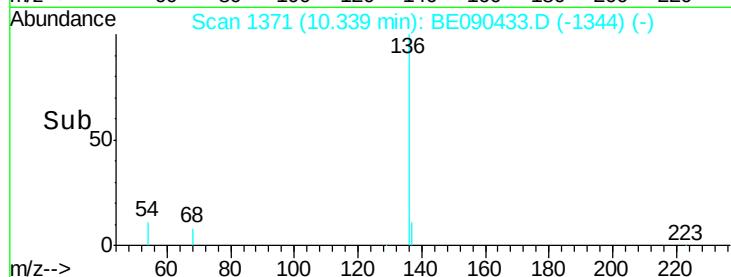
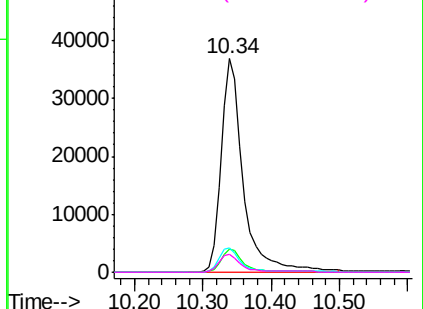


Abundance Ion 136.00 (135.70 to 136.70): E

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



#7

Nitrobenzene-d5

Concen: 3.25 ng

RT: 8.73 min Scan# 1094

Delta R.T. 0.00 min

Lab File: BE090433.D

Acq: 11 Aug 2015 18:09

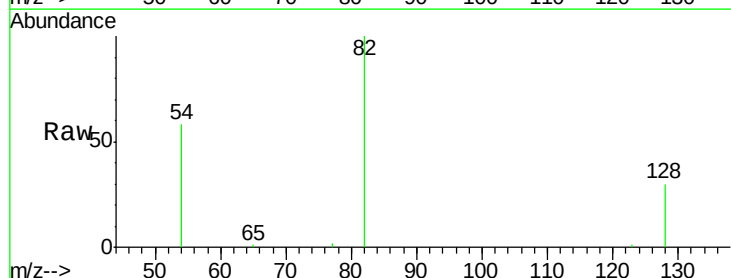
Tgt Ion: 82 Resp: 21242

Ion Ratio Lower Upper

82 100

128 30.1 25.0 37.6

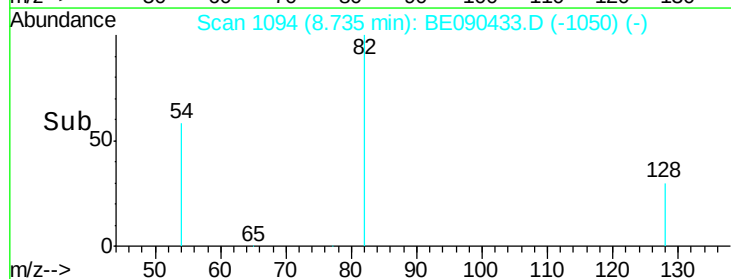
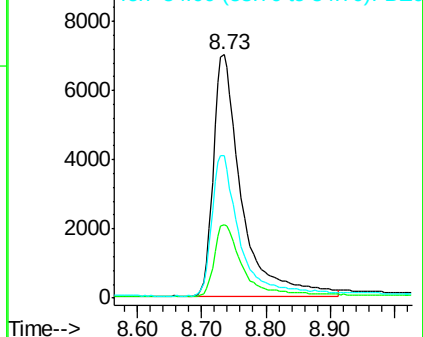
54 58.3 48.8 73.2

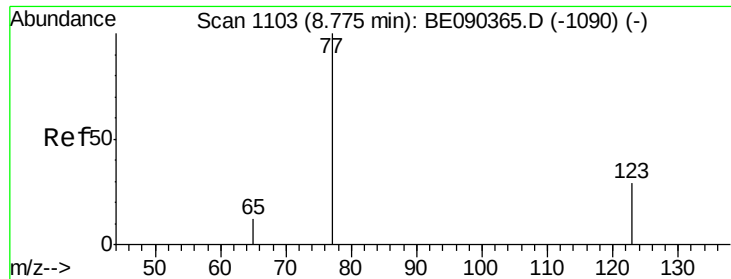


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#8

Nitrobenzene

Concen: 0.21 ng

RT: 8.79 min Scan# 1107

Delta R.T. 0.02 min

Lab File: BE090433.D

Acq: 11 Aug 2015 18:09

Instrument :

BNA\_E

ClientSampleId :

080715-D506-E-D-M

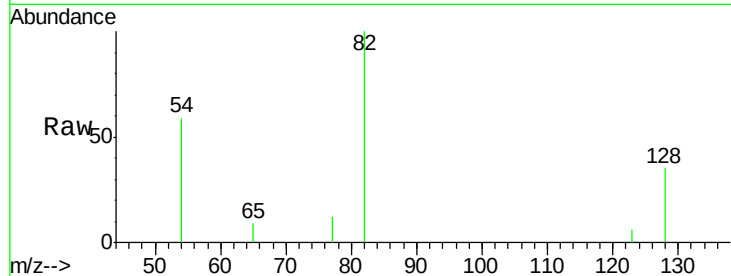
Tgt Ion: 77 Resp: 10

Ion Ratio Lower Upper

77 100

123 0.0 25.1 37.7#

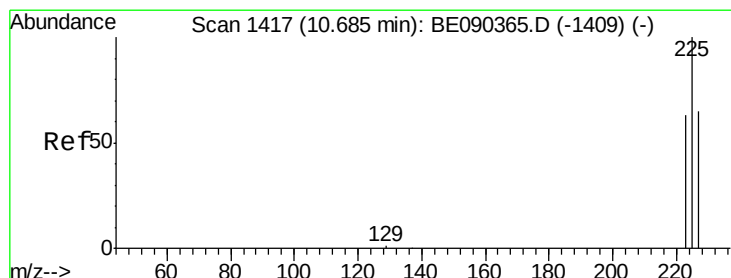
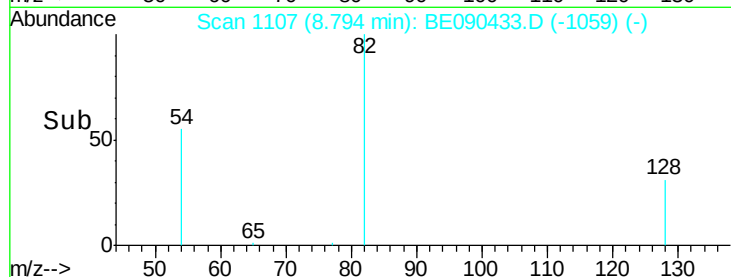
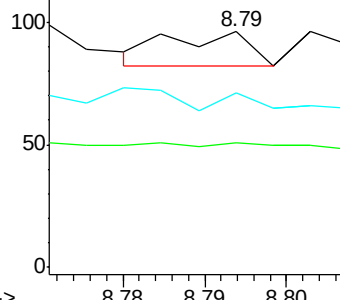
65 50.0 9.3 13.9#



Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0



#10

Hexachlorobutadiene

Concen: Below Cal

RT: 10.69 min Scan# 1418

Delta R.T. 0.01 min

Lab File: BE090433.D

Acq: 11 Aug 2015 18:09

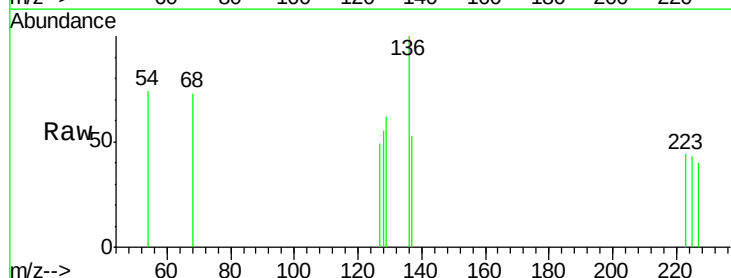
Tgt Ion: 225 Resp: 4

Ion Ratio Lower Upper

225 100

223 125.0 50.6 75.8#

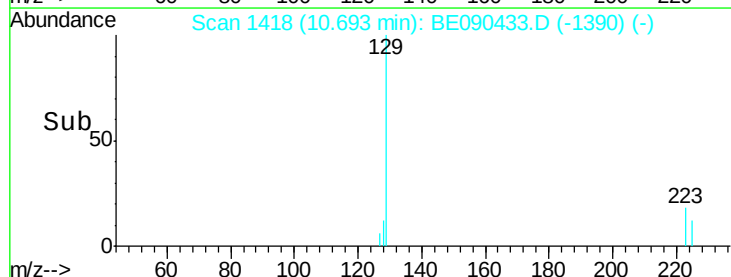
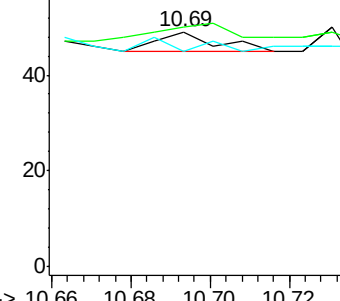
227 50.0 50.7 76.1#

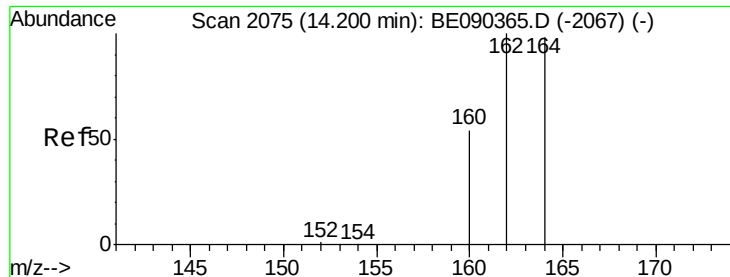


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.20 min Scan# 2075

Delta R.T. 0.00 min

Lab File: BE090433.D

Acq: 11 Aug 2015 18:09

Instrument :

BNA\_E

ClientSampleId :

080715-D506-E-D-M

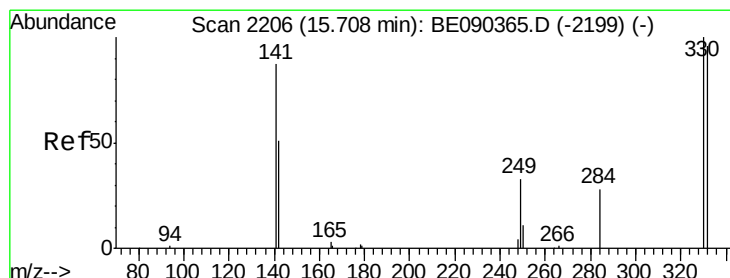
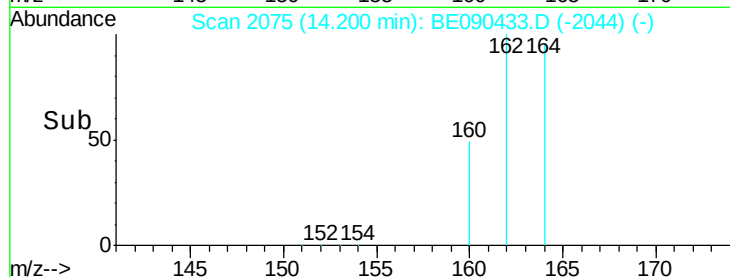
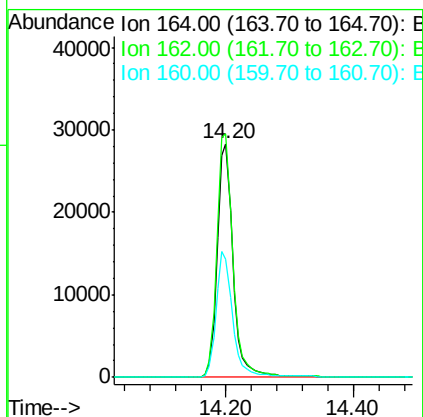
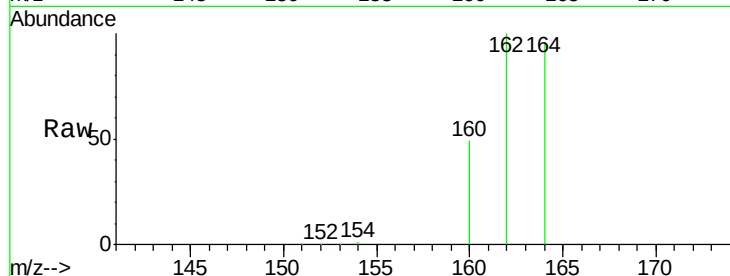
Tgt Ion:164 Resp: 48432

Ion Ratio Lower Upper

164 100

162 104.1 81.8 122.8

160 50.6 44.2 66.4



#13

2,4,6-Tribromophenol

Concen: 8.87 ng

RT: 15.71 min Scan# 2206

Delta R.T. 0.00 min

Lab File: BE090433.D

Acq: 11 Aug 2015 18:09

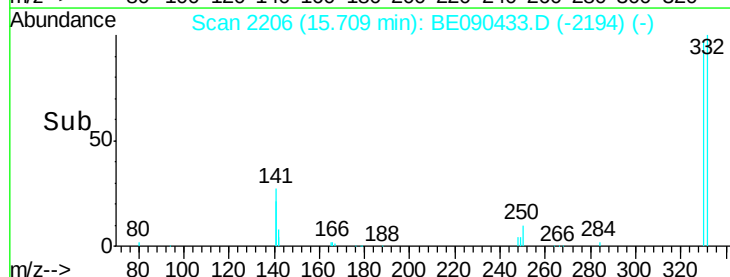
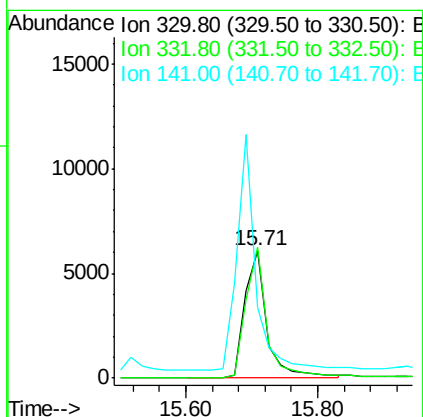
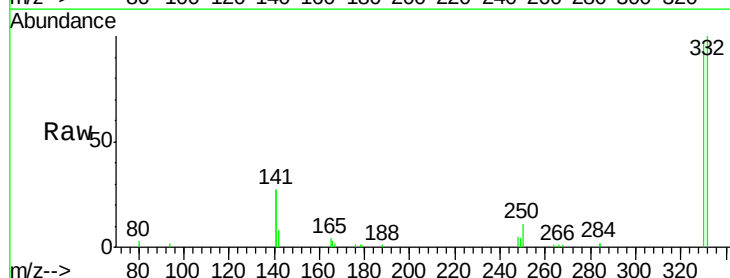
Tgt Ion:330 Resp: 13818

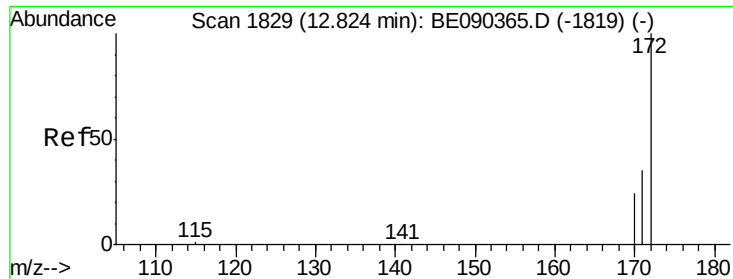
Ion Ratio Lower Upper

330 100

332 97.9 75.8 113.6

141 160.0 114.4 171.6

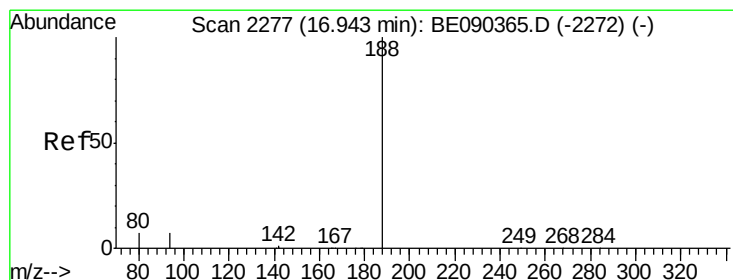
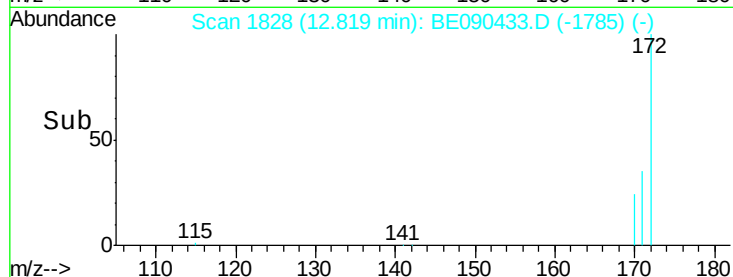
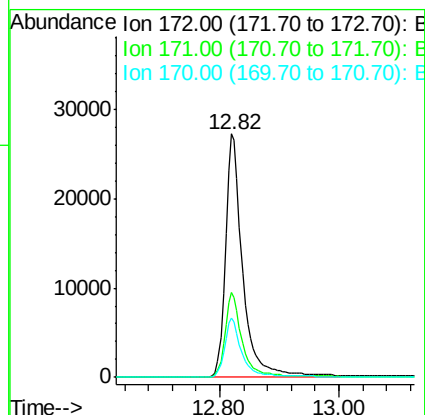
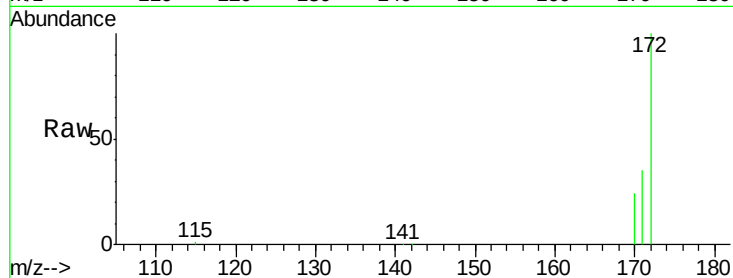




#14  
2-Fluorobiphenyl  
Concen: 4.12 ng  
RT: 12.82 min Scan# 1828  
Delta R.T. -0.00 min  
Lab File: BE090433.D  
Acq: 11 Aug 2015 18:09

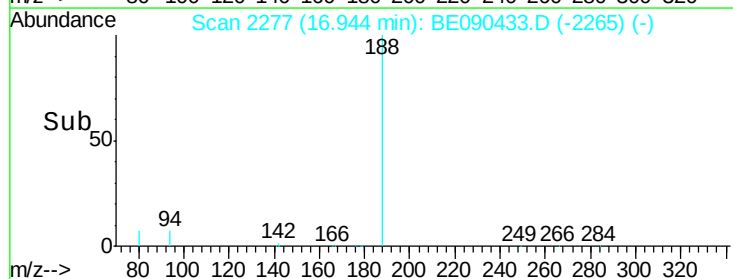
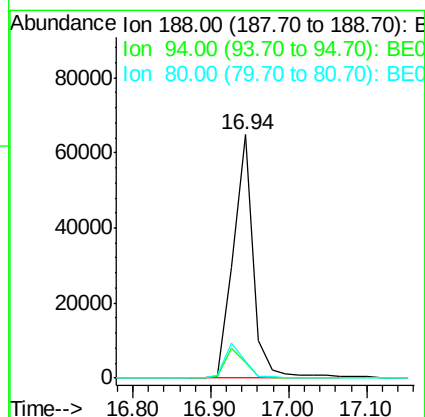
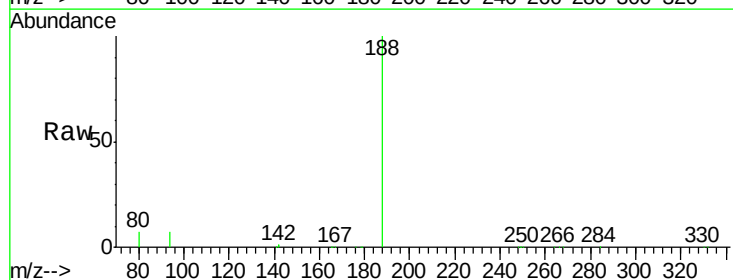
Instrument :  
BNA\_E  
ClientSampleId :  
080715-D506-E-D-M

Tgt Ion:172 Resp: 54945  
Ion Ratio Lower Upper  
172 100  
171 34.9 28.5 42.7  
170 24.2 19.8 29.8

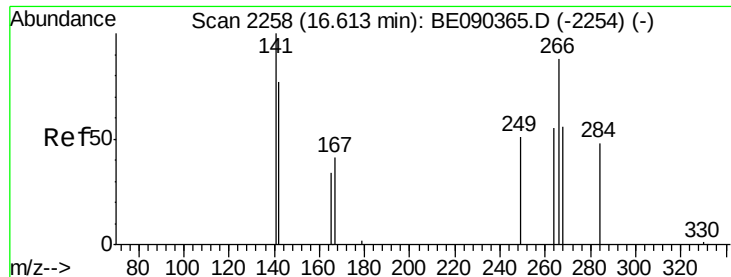


#18  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 16.94 min Scan# 2277  
Delta R.T. 0.00 min  
Lab File: BE090433.D  
Acq: 11 Aug 2015 18:09

Tgt Ion:188 Resp: 114971  
Ion Ratio Lower Upper  
188 100  
94 6.7 5.7 8.5  
80 6.9 5.8 8.8







#21

Pentachlorophenol

Concen: 0.13 ng

RT: 16.63 min Scan# 2259

Delta R.T. 0.02 min

Lab File: BE090433.D

Acq: 11 Aug 2015 18:09

Instrument :

BNA\_E

ClientSampleId :

080715-D506-E-D-M

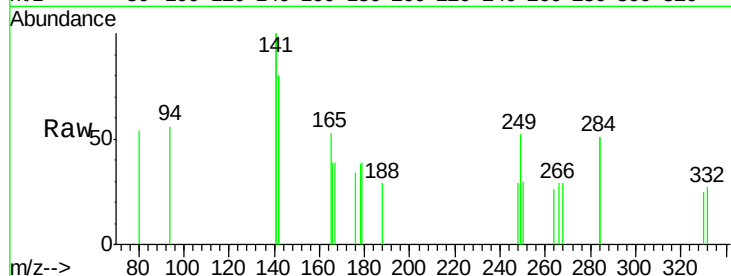
Tgt Ion:266 Resp: 30

Ion Ratio Lower Upper

266 100

268 101.9 58.5 87.7#

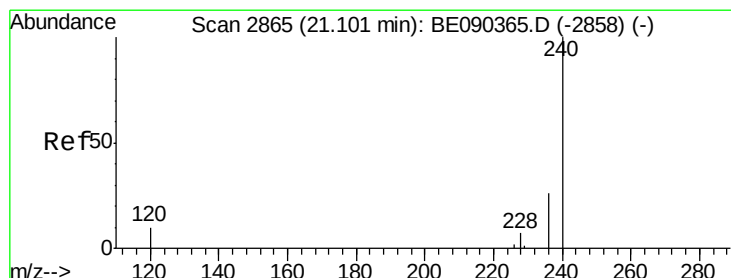
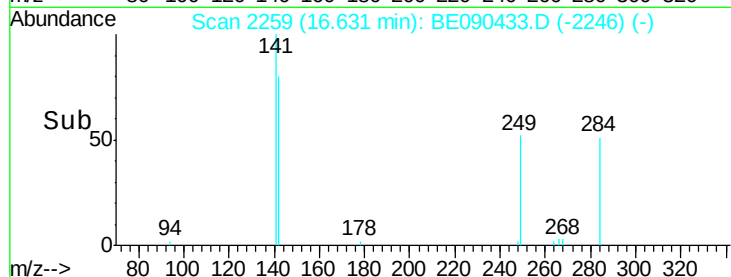
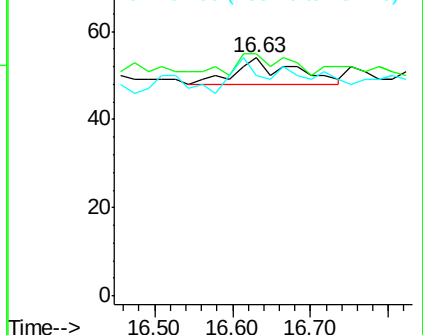
264 92.6 56.0 84.0#



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



#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.09 min Scan# 2864

Delta R.T. -0.01 min

Lab File: BE090433.D

Acq: 11 Aug 2015 18:09

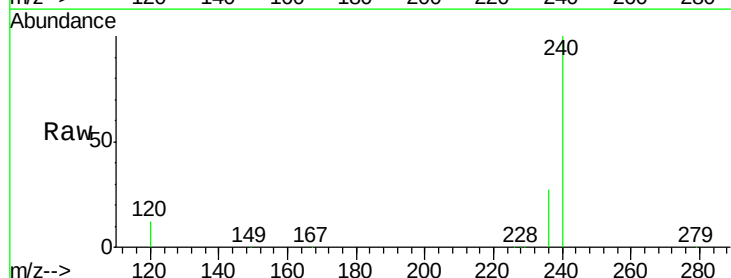
Tgt Ion:240 Resp: 135909

Ion Ratio Lower Upper

240 100

120 11.6 8.3 12.5

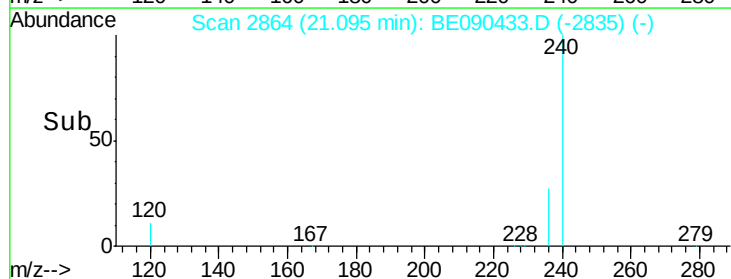
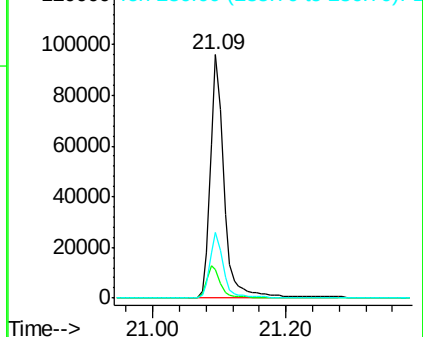
236 26.9 21.0 31.4

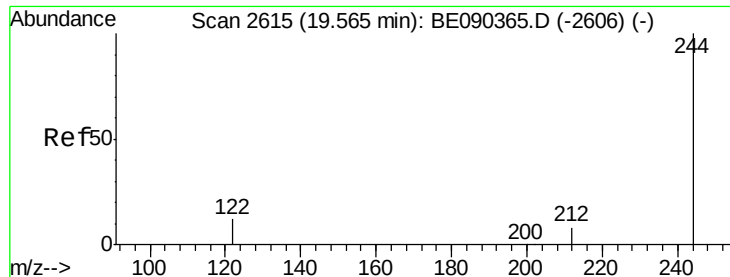


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

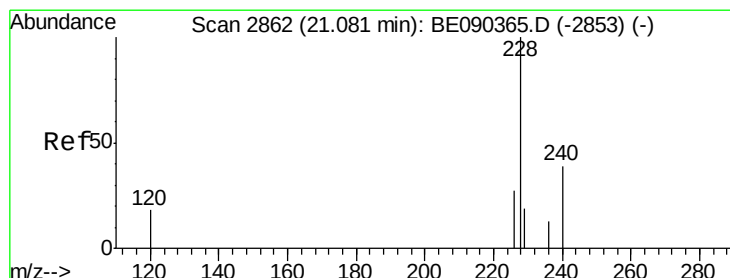
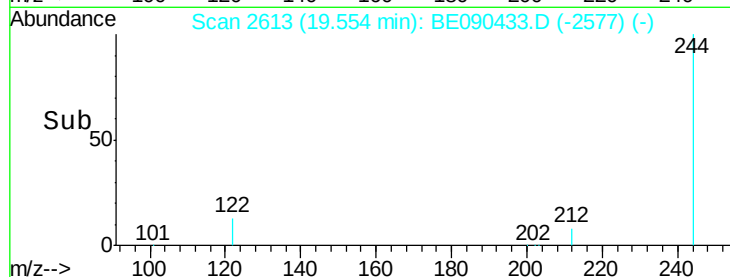
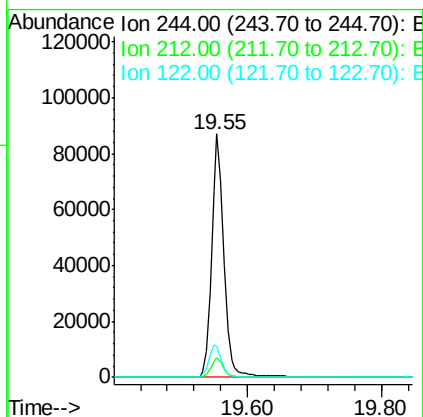
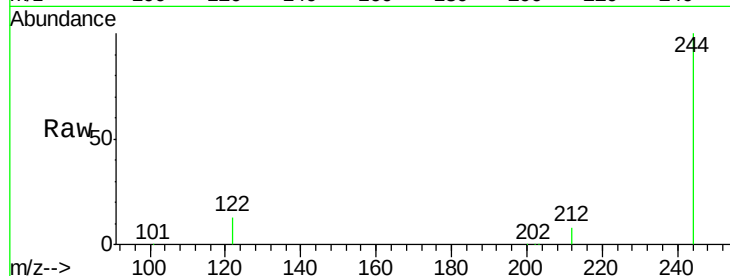




#27  
 Terphenyl-d14  
 Concen: 5.51 ng  
 RT: 19.55 min Scan# 2613  
 Delta R.T. -0.01 min  
 Lab File: BE090433.D  
 Acq: 11 Aug 2015 18:09

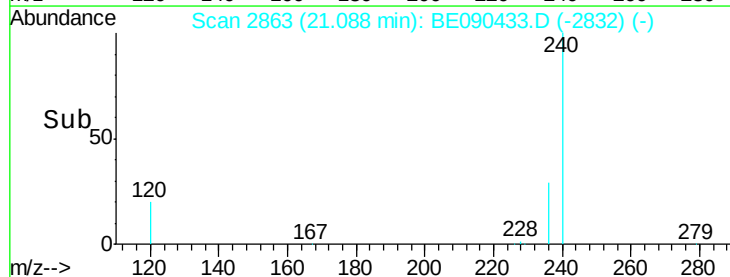
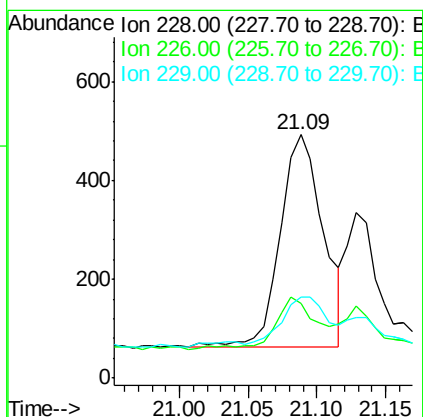
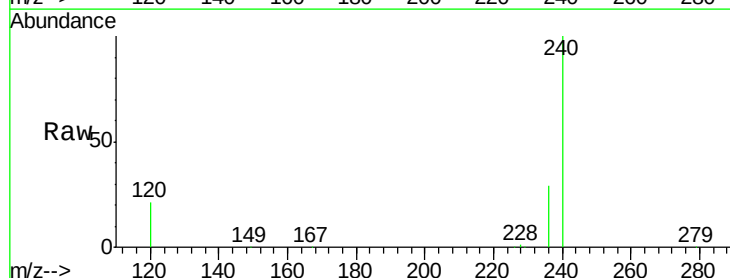
Instrument :  
 BNA\_E  
 ClientSampleId :  
 080715-D506-E-D-M

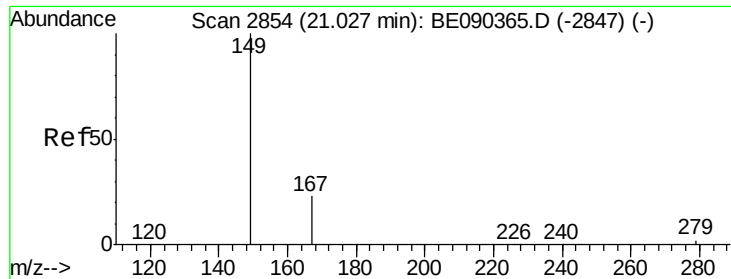
Tgt Ion:244 Resp: 110250  
 Ion Ratio Lower Upper  
 244 100  
 212 8.0 6.6 9.8  
 122 12.6 10.2 15.4



#28  
 Benzo(a)anthracene  
 Concen: 0.03 ng  
 RT: 21.09 min Scan# 2863  
 Delta R.T. 0.01 min  
 Lab File: BE090433.D  
 Acq: 11 Aug 2015 18:09

Tgt Ion:228 Resp: 935  
 Ion Ratio Lower Upper  
 228 100  
 226 30.6 21.9 32.9  
 229 33.1 15.4 23.0#





#30

Bis(2-ethylhexyl)phthalate

Concen: 0.57 ng

RT: 21.03 min Scan# 2854

Delta R.T. 0.00 min

Lab File: BE090433.D

Acq: 11 Aug 2015 18:09

Instrument :

BNA\_E

ClientSampleId :

080715-D506-E-D-M

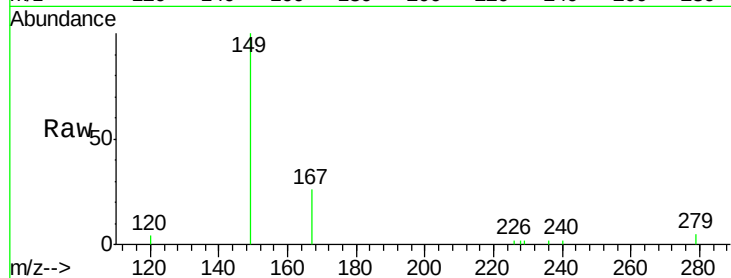
Tgt Ion:149 Resp: 3419

Ion Ratio Lower Upper

149 100

167 23.7 19.8 29.8

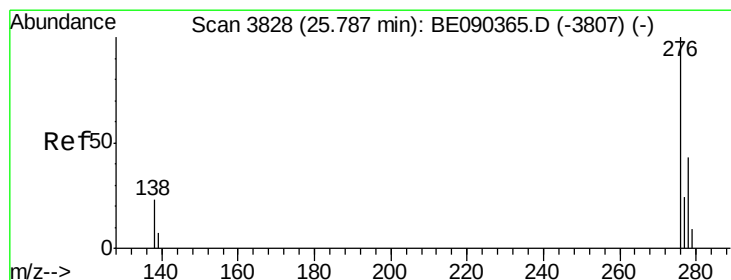
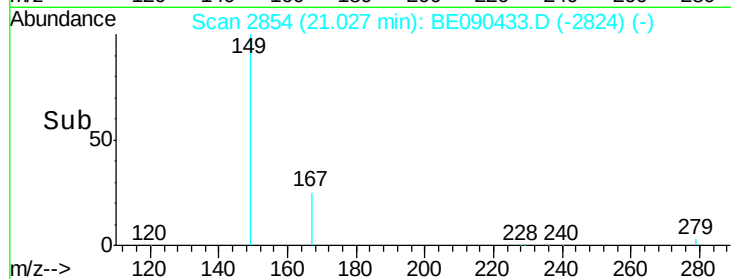
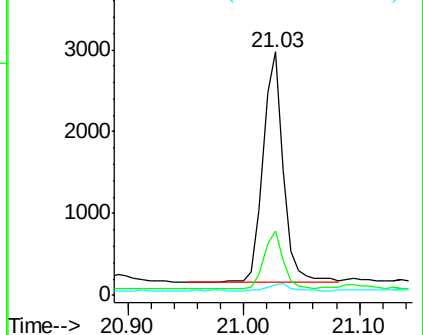
279 3.4 2.4 3.6



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



#31

Indeno(1,2,3-cd)pyrene

Concen: 0.28 ng

RT: 25.78 min Scan# 3827

Delta R.T. -0.00 min

Lab File: BE090433.D

Acq: 11 Aug 2015 18:09

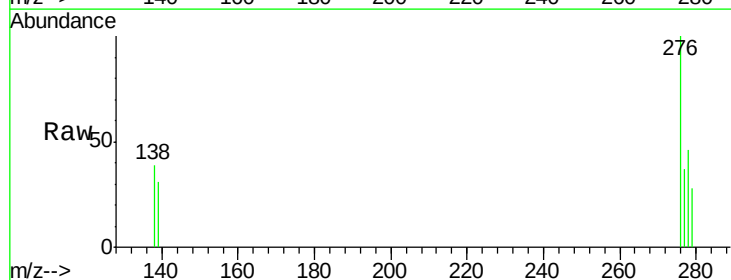
Tgt Ion:276 Resp: 1111

Ion Ratio Lower Upper

276 100

138 27.4 18.8 28.2

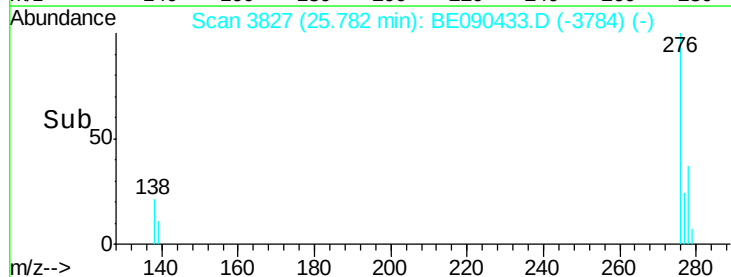
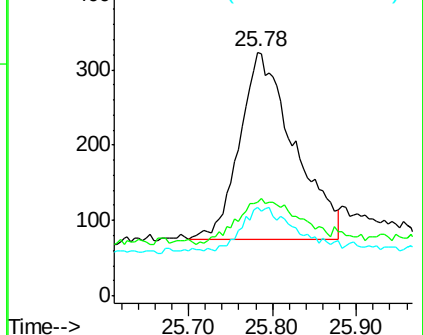
277 22.4 18.2 27.4

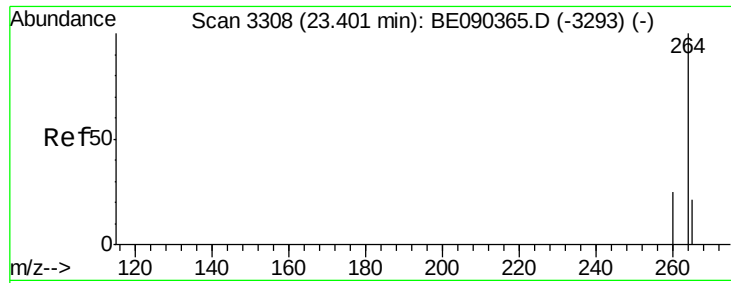


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

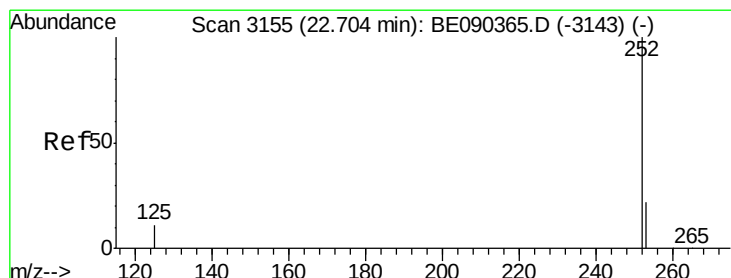
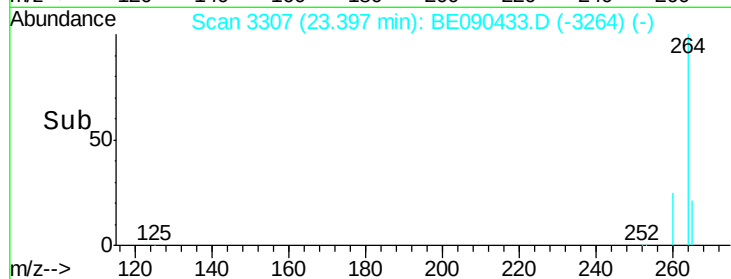
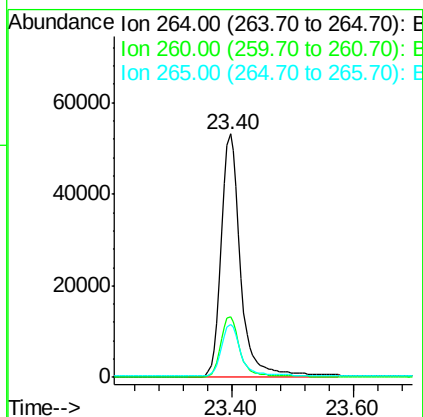
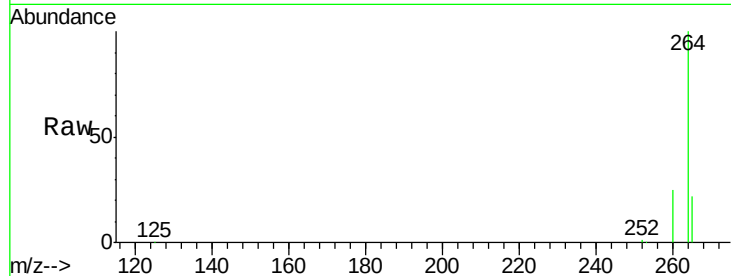




#32  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 23.40 min Scan# 3307  
 Delta R.T. -0.00 min  
 Lab File: BE090433.D  
 Acq: 11 Aug 2015 18:09

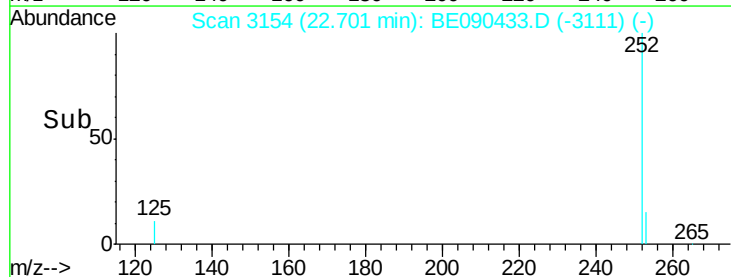
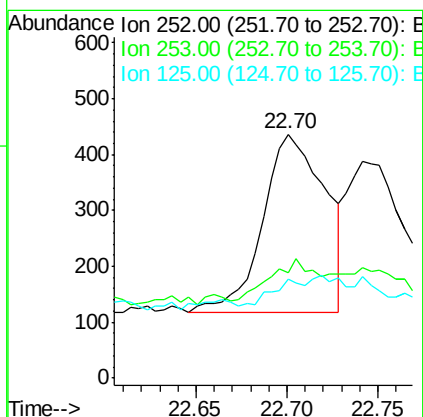
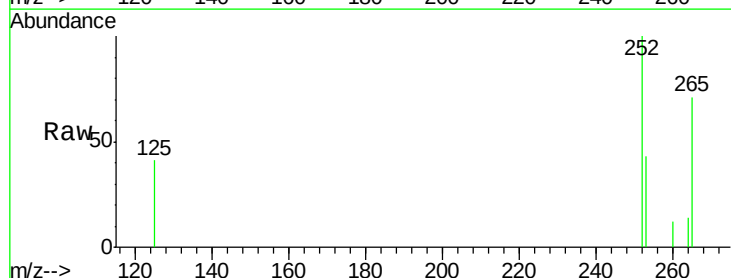
Instrument :  
 BNA\_E  
 ClientSampleId :  
 080715-D506-E-D-M

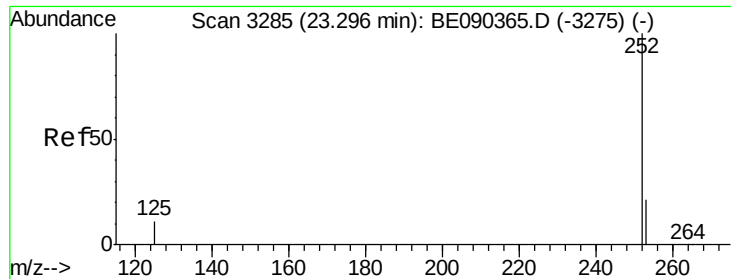
Tgt Ion: 264 Resp: 119278  
 Ion Ratio Lower Upper  
 264 100  
 260 24.9 20.1 30.1  
 265 21.6 17.2 25.8



#33  
 Benzo(b)fluoranthene  
 Concen: 0.22 ng  
 RT: 22.70 min Scan# 3154  
 Delta R.T. -0.00 min  
 Lab File: BE090433.D  
 Acq: 11 Aug 2015 18:09

Tgt Ion: 252 Resp: 759  
 Ion Ratio Lower Upper  
 252 100  
 253 43.3 18.1 27.1#  
 125 40.6 9.4 14.2#





#35

Benzo(a)pyrene

Concen: 0.25 ng

RT: 23.30 min Scan# 3285

Delta R.T. 0.00 min

Lab File: BE090433.D

Acq: 11 Aug 2015 18:09

Instrument :

BNA\_E

ClientSampleId :

080715-D506-E-D-M

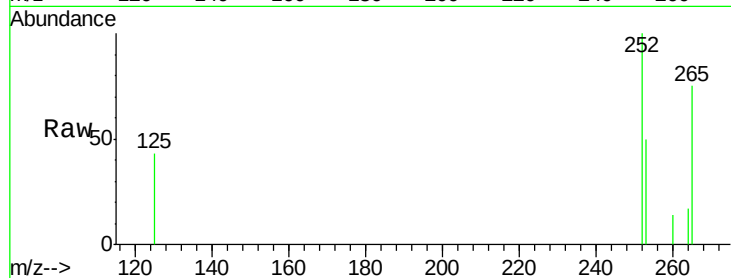
Tgt Ion: 252 Resp: 642

Ion Ratio Lower Upper

252 100

253 49.9 17.6 26.4#

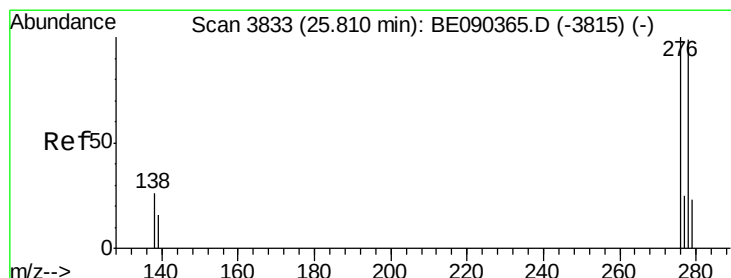
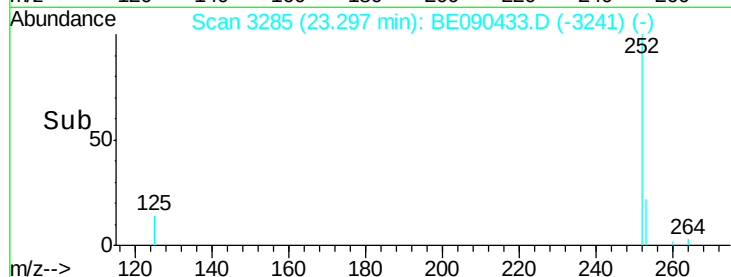
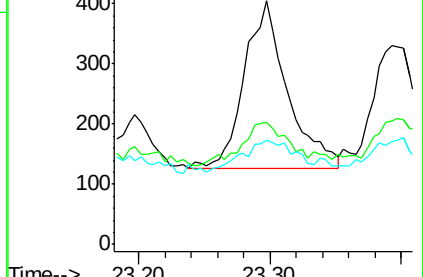
125 43.0 9.8 14.6#



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



#36

Dibenzo(a,h)anthracene

Concen: 0.32 ng

RT: 25.81 min Scan# 3833

Delta R.T. 0.00 min

Lab File: BE090433.D

Acq: 11 Aug 2015 18:09

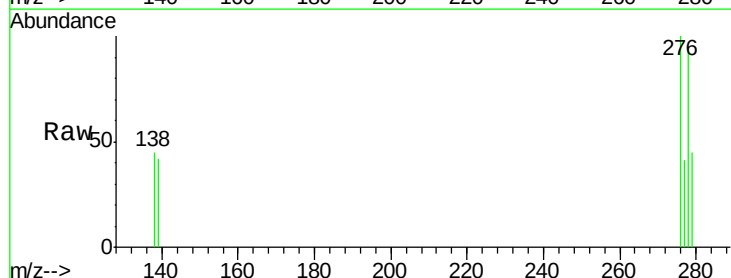
Tgt Ion: 278 Resp: 859

Ion Ratio Lower Upper

278 100

139 44.7 14.2 21.4#

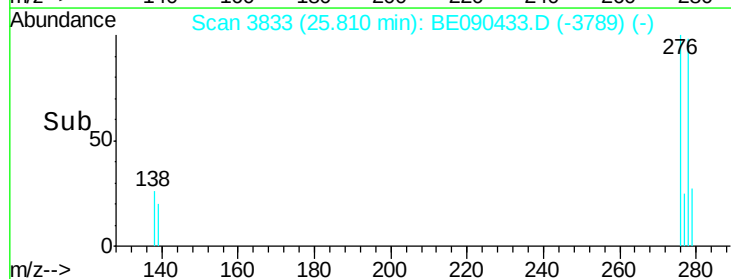
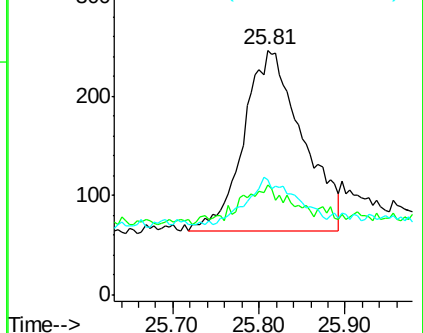
279 47.2 20.1 30.1#

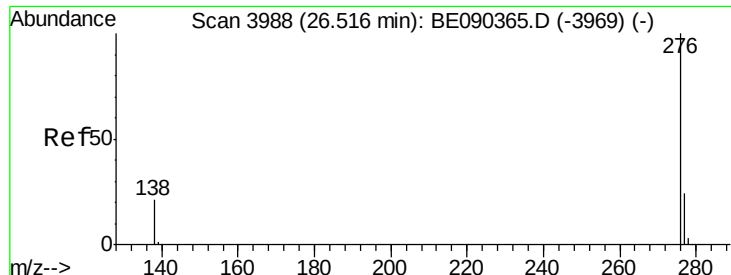


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#37

Benzo(g,h,i)perylene

Concen: 0.04 ng

RT: 26.51 min Scan# 3987

Delta R.T. -0.00 min

Lab File: BE090433.D

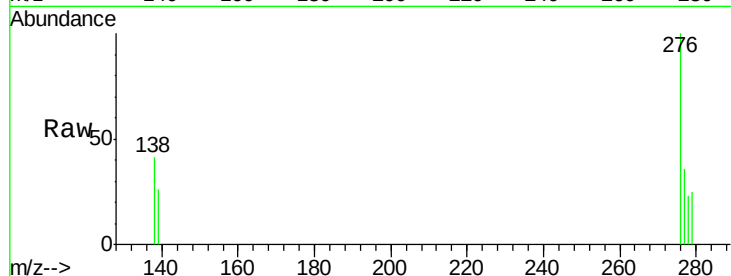
Acq: 11 Aug 2015 18:09

Instrument :

BNA\_E

ClientSampleId :

080715-D506-E-D-M



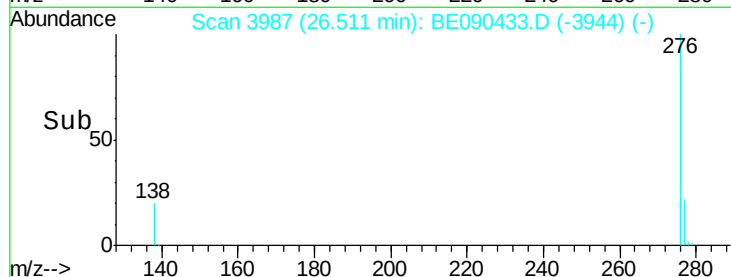
Tgt Ion: 276 Resp: 888

Ion Ratio Lower Upper

276 100

277 36.2 20.1 30.1#

138 41.1 18.1 27.1#



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

