

Data Path : Z:\HPCHEM1\BNA E\DATA\BE091015\  
 Data File : BE090777.D  
 Acq On : 11 Sep 2015 00:47  
 Operator : UM/IZ  
 Sample : G3599-07  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 090415-D534-F-D-S

Quant Time: Sep 11 03:37:43 2015  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE090115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 02 11:40:50 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.55  | 152  | 43565    | 5.00 | ng    | 0.00     |
| 6) Naphthalene-d8         | 10.31 | 136  | 198412   | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.17 | 164  | 106641   | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 16.91 | 188  | 248804   | 5.00 | ng    | 0.00     |
| 25) Chrysene-d12          | 21.07 | 240  | 291453   | 5.00 | ng    | 0.00     |
| 32) Perylene-d12          | 23.36 | 264  | 259543   | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.18  | 112  | 34198    | 4.04 | ng    | 0.00     |
| 5) Phenol-d6                | 6.75  | 99   | 29655    | 2.44 | ng    | 0.00     |
| 7) Nitrobenzene-d5          | 8.71  | 82   | 49701    | 3.79 | ng    | 0.00     |
| 13) 2,4,6-Tribromophenol    | 15.68 | 330  | 26719    | 8.52 | ng    | 0.00     |
| 14) 2-Fluorobiphenyl        | 12.79 | 172  | 114584   | 3.88 | ng    | 0.00     |
| 27) Terphenyl-d14           | 19.53 | 244  | 196920   | 6.11 | ng    | -0.01    |

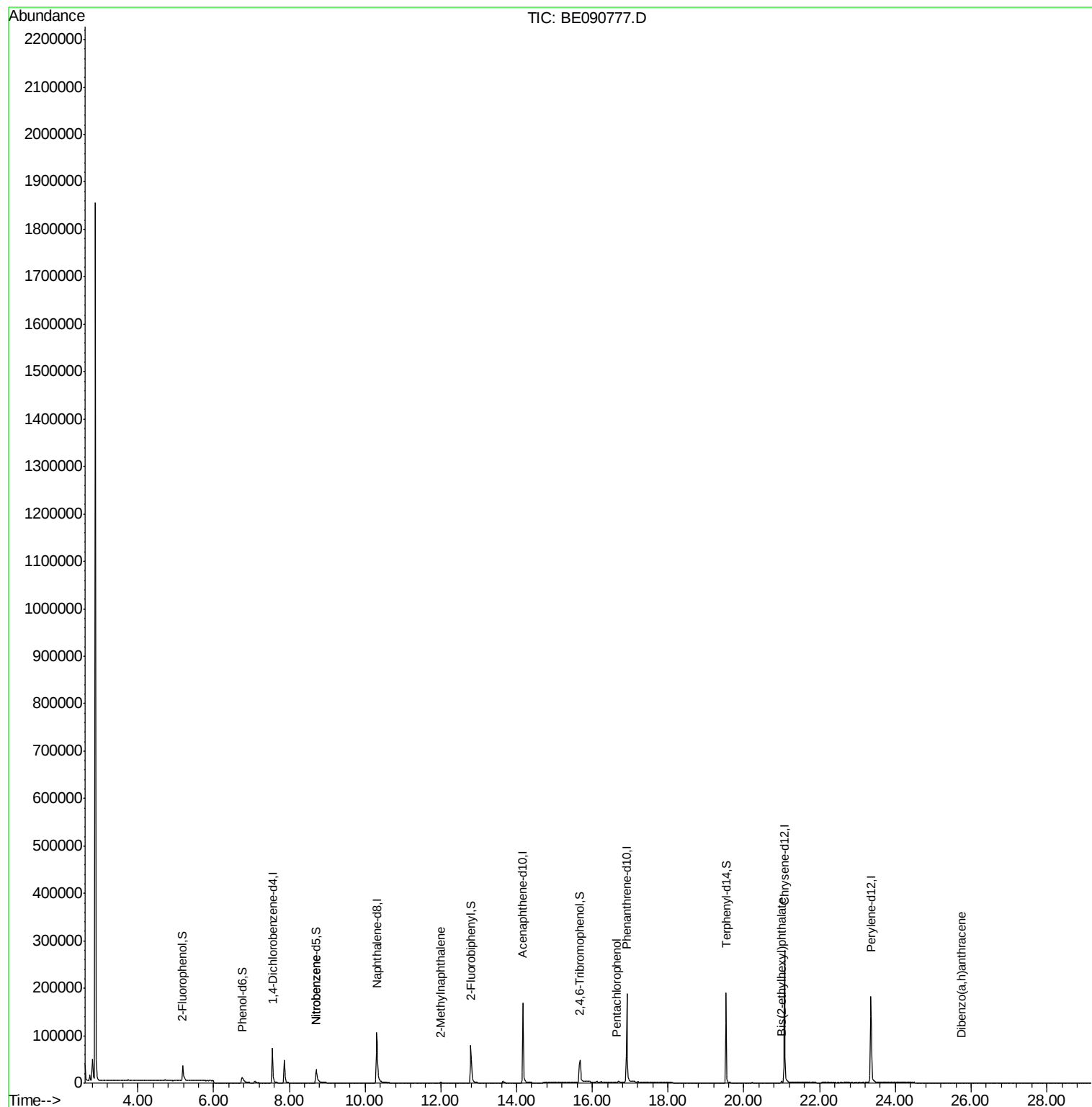
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) 1,4-Dioxane                 | 3.15  | 88   | 57       | Below Cal | #     | 1      |
| 3) n-Nitrosodimethylamine      | 3.44  | 42   | 70       | Below Cal | #     | 1      |
| 8) Nitrobenzene                | 8.70  | 77   | 140      | 0.12      | ng    | 36     |
| 11) 2-Methylnaphthalene        | 12.00 | 142  | 1708     | 0.07      | ng    | 89     |
| 20) Hexachlorobenzene          | 16.23 | 284  | 125      | Below Cal | #     | 1      |
| 21) Pentachlorophenol          | 16.63 | 266  | 17       | 0.46      | ng    | 60     |
| 29) Chrysene                   | 21.10 | 228  | 308      | Below Cal | #     | 59     |
| 30) Bis(2-ethylhexyl)phthalate | 21.00 | 149  | 3520     | 0.27      | ng    | 98     |
| 36) Dibenzo(a,h)anthracene     | 25.74 | 278  | 28       | 0.14      | ng    | 1      |

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.55 min Scan# 838

Delta R.T. -0.00 min

Lab File: BE090777.D

Acq: 11 Sep 2015 00:47

Instrument :

BNA\_E

ClientSampleId :

090415-D534-F-D-S

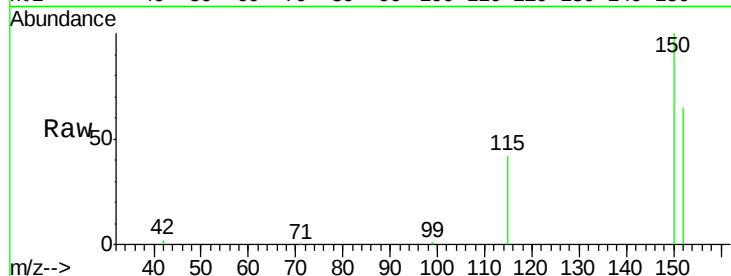
Tot Ion:152 Resp: 43565

Ion Ratio Lower Upper

152 100

150 155.0 122.2 183.4

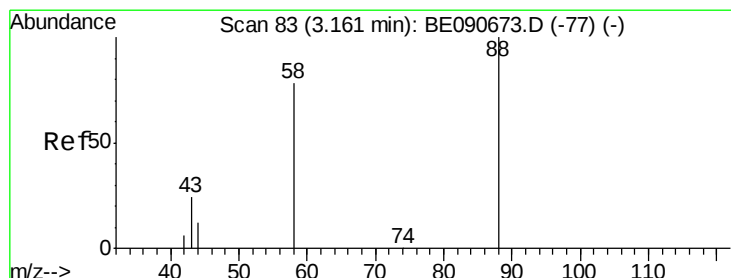
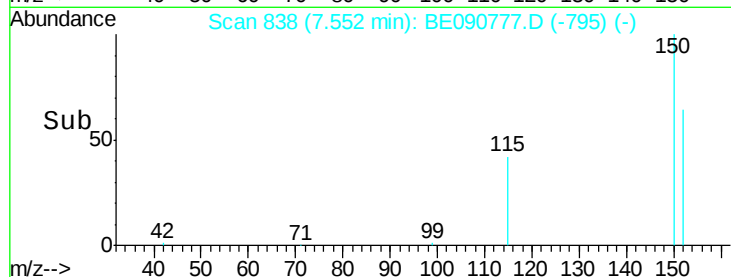
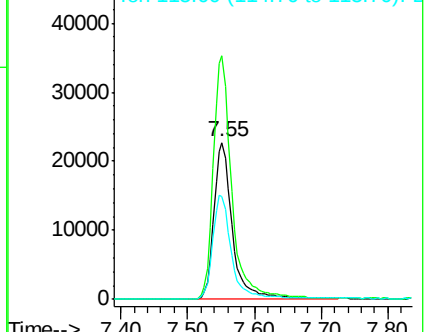
115 65.7 51.0 76.4



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: 3.15 min Scan# 82

Delta R.T. -0.01 min

Lab File: BE090777.D

Acq: 11 Sep 2015 00:47

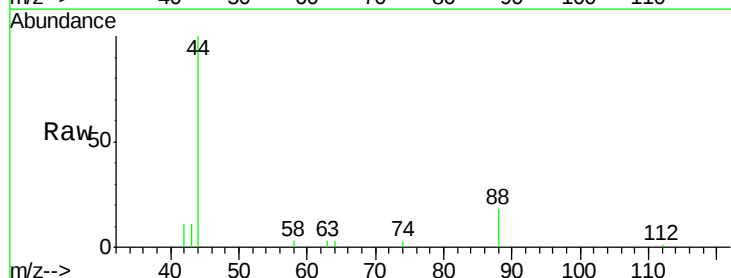
Tgt Ion: 88 Resp: 57

Ion Ratio Lower Upper

88 100

58 80.7 68.4 102.6

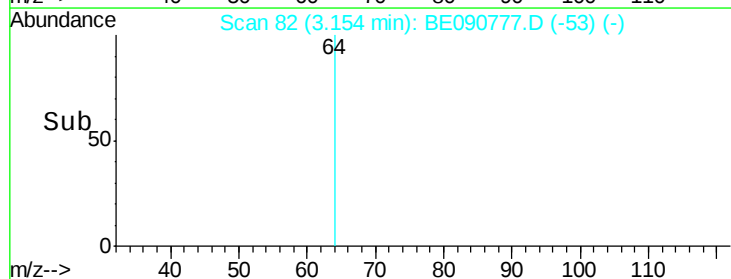
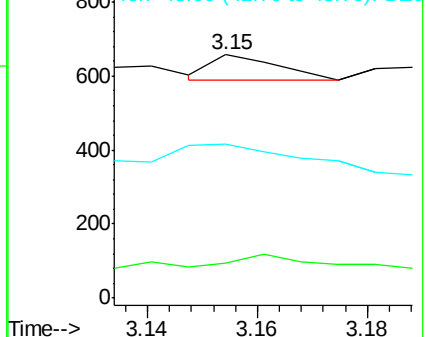
43 271.9 26.9 40.3#



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



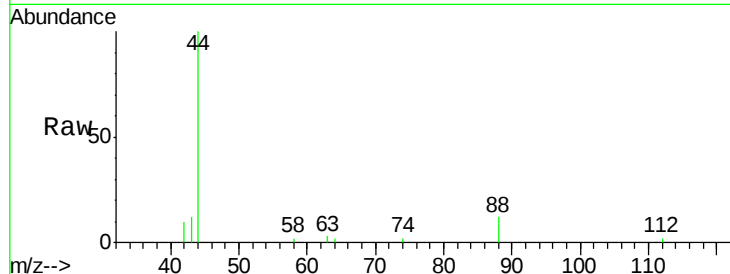


#3

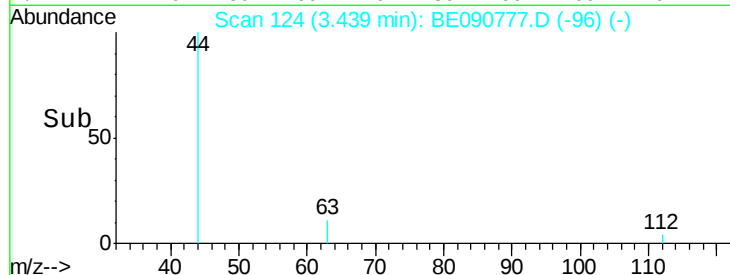
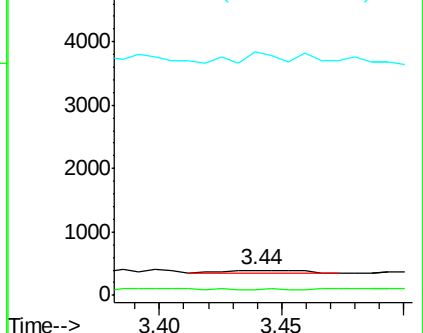
n-Nitrosodimethylamine  
 Concen: Below Cal  
 RT: 3.44 min Scan# 124  
 Delta R.T. -0.01 min  
 Lab File: BE090777.D  
 Acq: 11 Sep 2015 00:47

Instrument :  
 BNA\_E  
 ClientSampleId :  
 090415-D534-F-D-S

Tot Ion: 42 Resp: 70  
 Ion Ratio Lower Upper  
 42 100  
 74 0.0 83.7 125.5#  
 44 264.3 10.0 15.0#



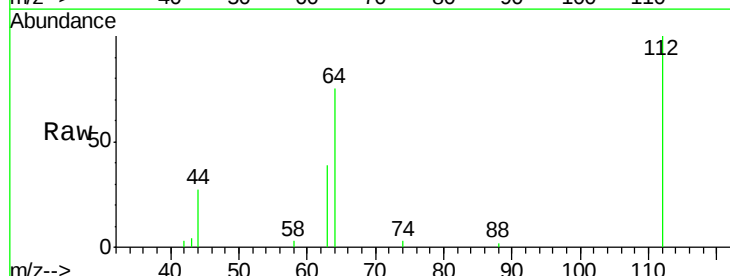
Abundance Ion 42.00 (41.70 to 42.70): BE0  
 Ion 74.00 (73.70 to 74.70): BE0  
 Ion 44.00 (43.70 to 44.70): BE0



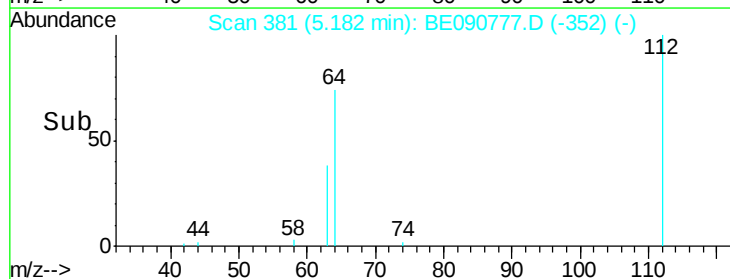
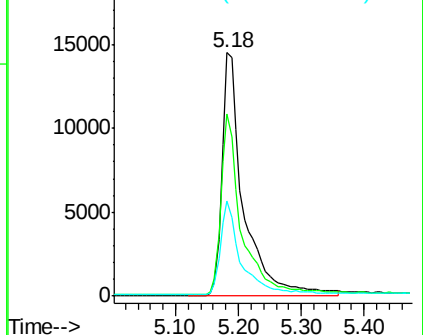
#4

2-Fluorophenol  
 Concen: 4.04 ng  
 RT: 5.18 min Scan# 381  
 Delta R.T. -0.01 min  
 Lab File: BE090777.D  
 Acq: 11 Sep 2015 00:47

Tgt Ion: 112 Resp: 34198  
 Ion Ratio Lower Upper  
 112 100  
 64 72.3 57.3 85.9  
 63 37.0 29.2 43.8



Abundance Ion 112.00 (111.70 to 112.70): BE0  
 Ion 64.00 (63.70 to 64.70): BE0  
 Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 2.44 ng

RT: 6.75 min Scan# 662

Delta R.T. 0.00 min

Lab File: BE090777.D

Acq: 11 Sep 2015 00:47

Instrument :

BNA\_E

ClientSampleId :

090415-D534-F-D-S

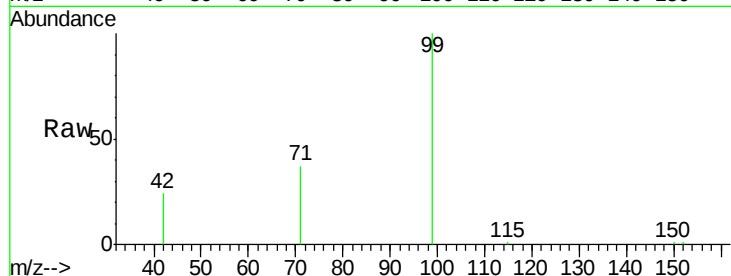
Tot Ion: 99 Resp: 29655

Ion Ratio Lower Upper

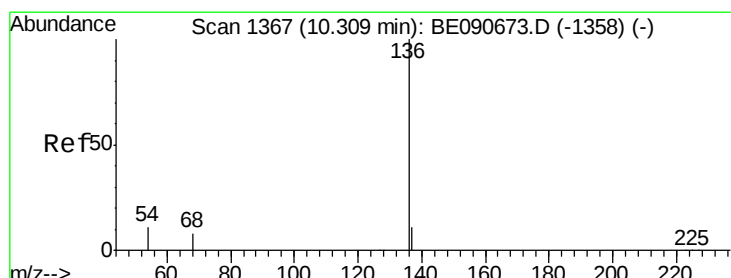
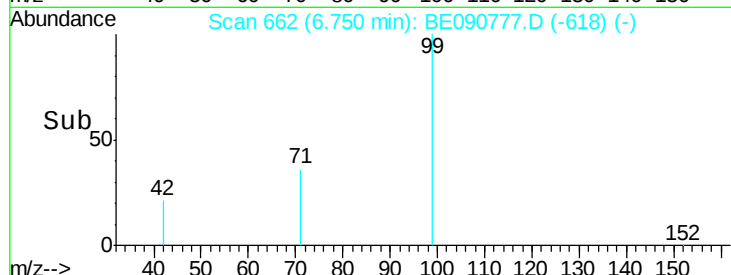
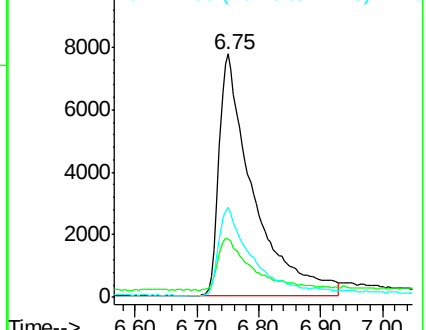
99 100

42 20.8 16.8 25.2

71 34.8 28.3 42.5



Abundance Ion 99.00 (98.70 to 99.70): BE0  
Ion 42.00 (41.70 to 42.70): BE0  
Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.31 min Scan# 1367

Delta R.T. 0.00 min

Lab File: BE090777.D

Acq: 11 Sep 2015 00:47

Tgt Ion: 136 Resp: 198412

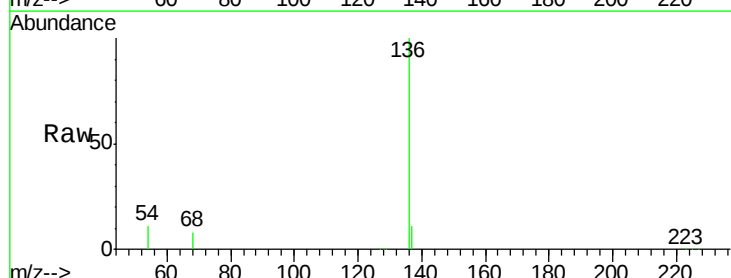
Ion Ratio Lower Upper

136 100

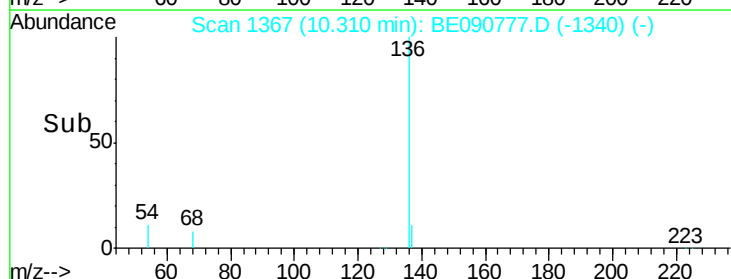
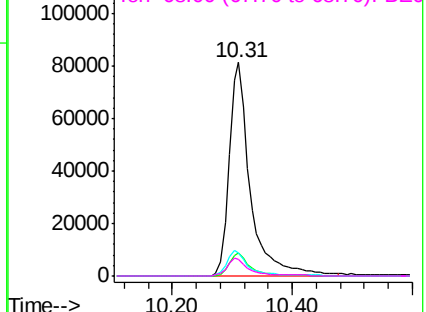
137 11.0 8.7 13.1

54 11.1 9.0 13.6

68 7.8 6.3 9.5



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: 3.79 ng

RT: 8.71 min Scan# 1089

Delta R.T. 0.00 min

Lab File: BE090777.D

Acq: 11 Sep 2015 00:47

Instrument :

BNA\_E

ClientSampleId :

090415-D534-F-D-S

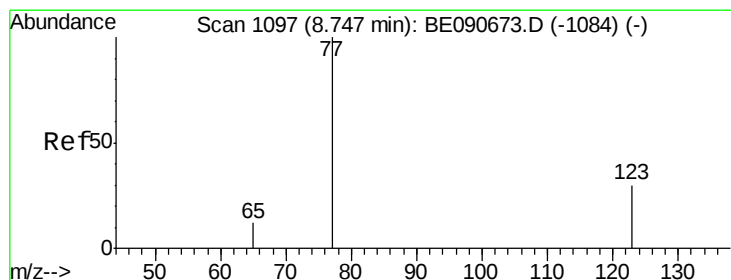
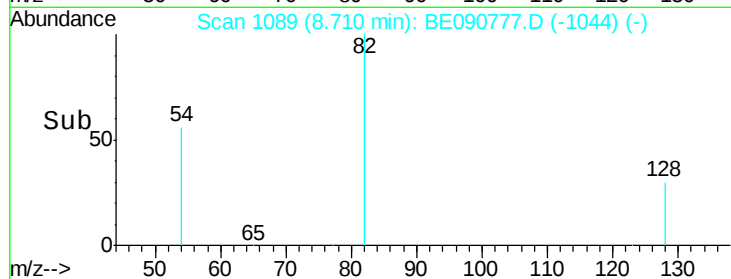
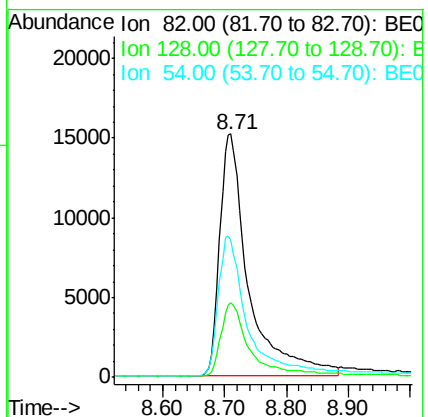
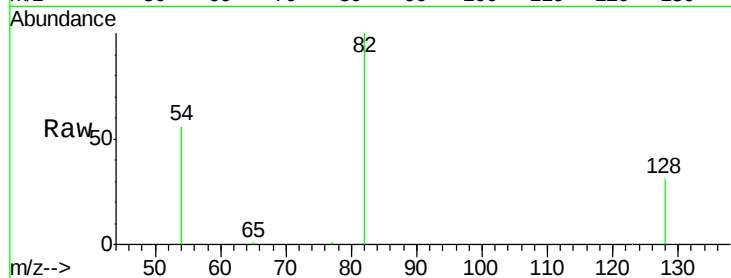
Tot Ion: 82 Resp: 49701

Ion Ratio Lower Upper

82 100

128 30.7 25.0 37.4

54 56.2 46.3 69.5



#8

Nitrobenzene

Concen: 0.12 ng

RT: 8.70 min Scan# 1086

Delta R.T. -0.05 min

Lab File: BE090777.D

Acq: 11 Sep 2015 00:47

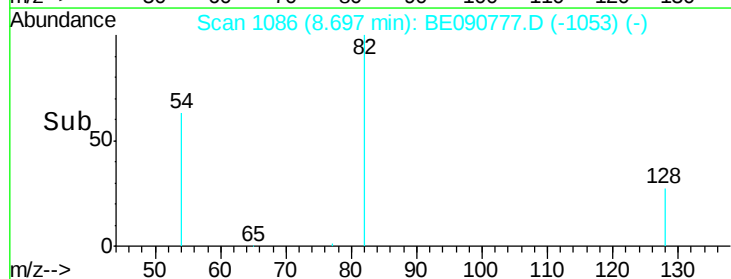
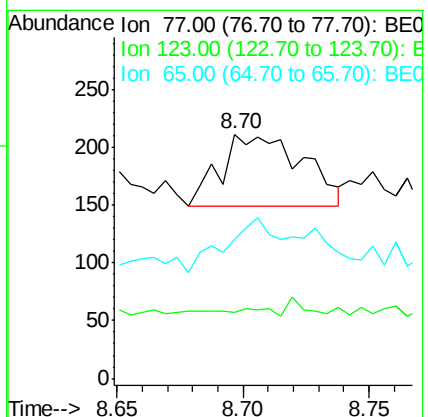
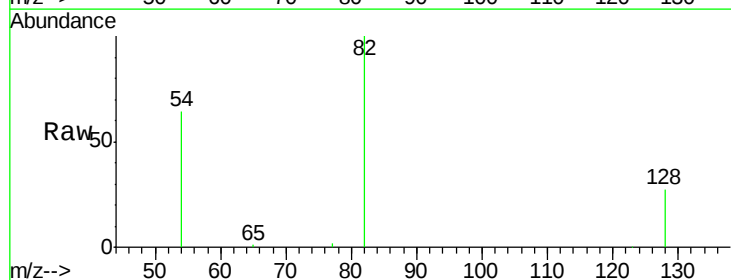
Tgt Ion: 77 Resp: 140

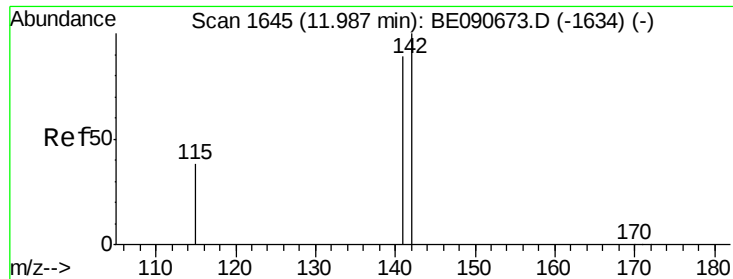
Ion Ratio Lower Upper

77 100

123 0.7 25.1 37.7#

65 46.4 9.9 14.9#

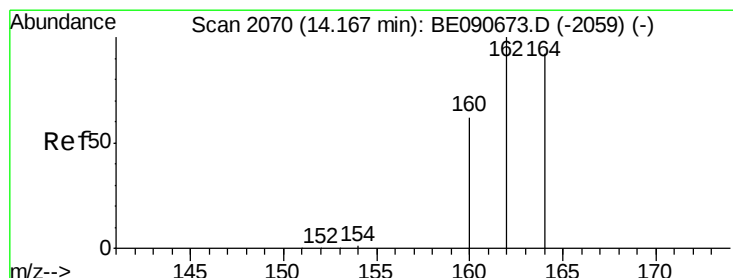
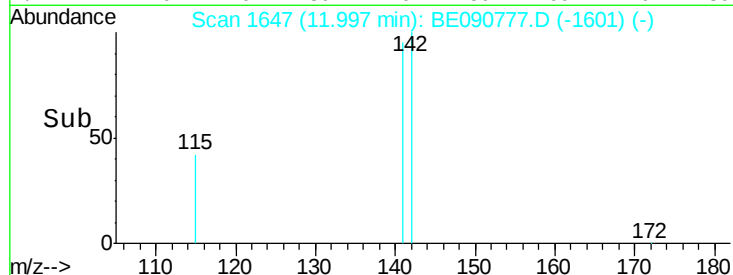
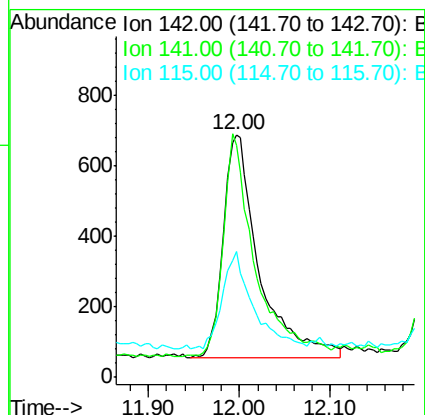
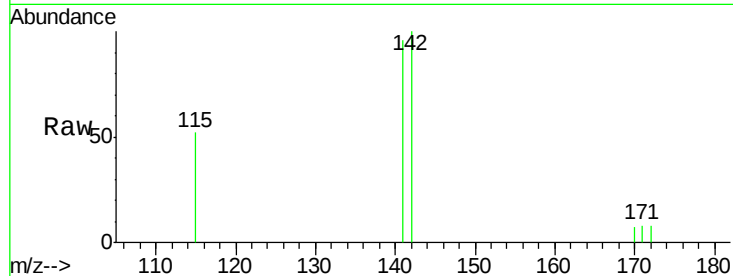




#11  
2-Methylnaphthalene  
Concen: 0.07 ng  
RT: 12.00 min Scan# 1647  
Delta R.T. 0.01 min  
Lab File: BE090777.D  
Acq: 11 Sep 2015 00:47

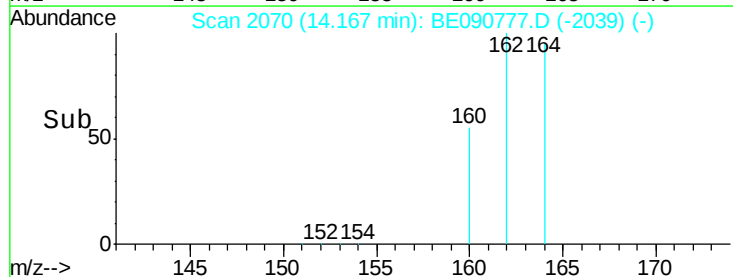
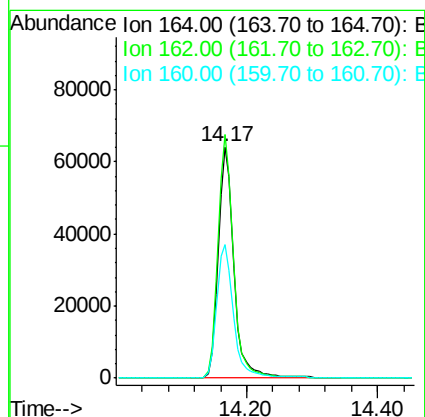
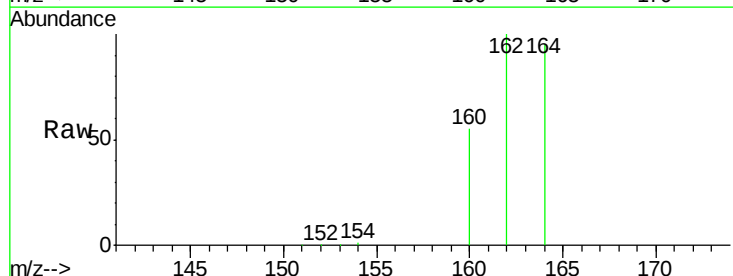
Instrument :  
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090415-D534-F-D-S

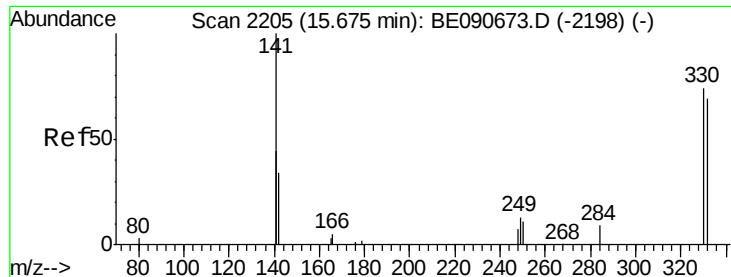
Tot Ion:142 Resp: 1708  
Ion Ratio Lower Upper  
142 100  
141 95.6 71.4 107.2  
115 52.0 31.0 46.4#



#12  
Acenaphthene-d10  
Concen: 5.00 ng  
RT: 14.17 min Scan# 2070  
Delta R.T. -0.00 min  
Lab File: BE090777.D  
Acq: 11 Sep 2015 00:47

Tgt Ion:164 Resp: 106641  
Ion Ratio Lower Upper  
164 100  
162 105.3 86.8 130.2  
160 57.7 53.9 80.9

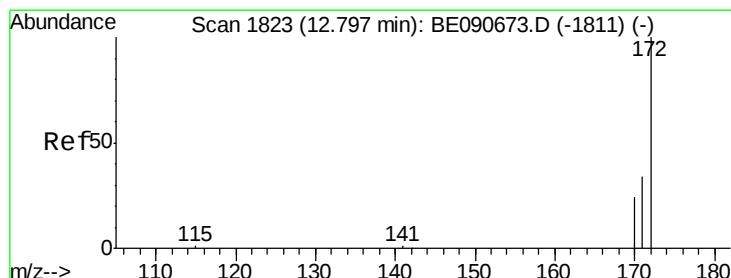
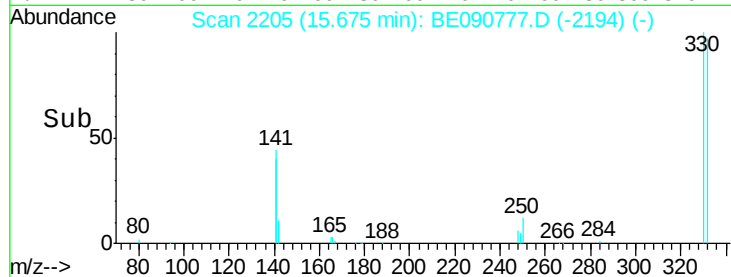
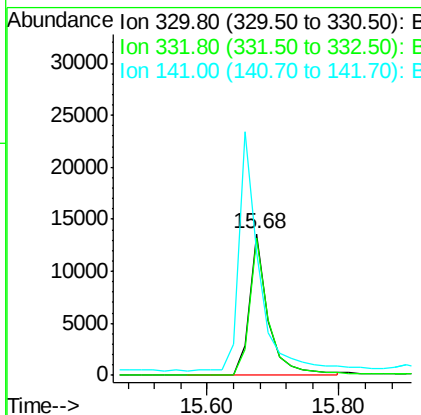
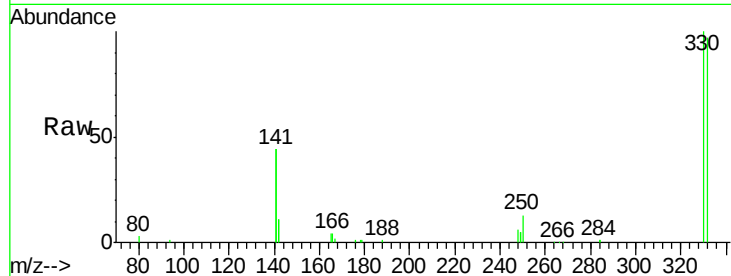




#13  
 2,4,6-Tribromophenol  
 Concen: 8.52 ng  
 RT: 15.68 min Scan# 2205  
 Delta R.T. 0.00 min  
 Lab File: BE090777.D  
 Acq: 11 Sep 2015 00:47

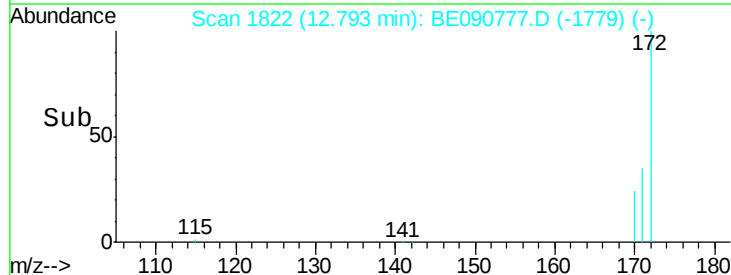
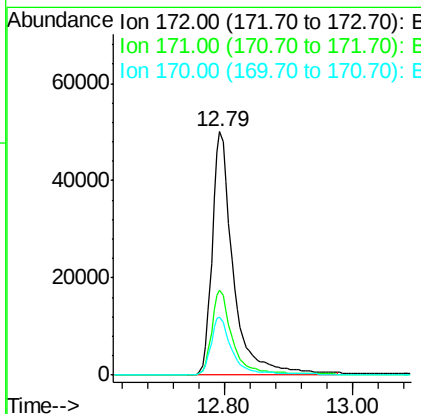
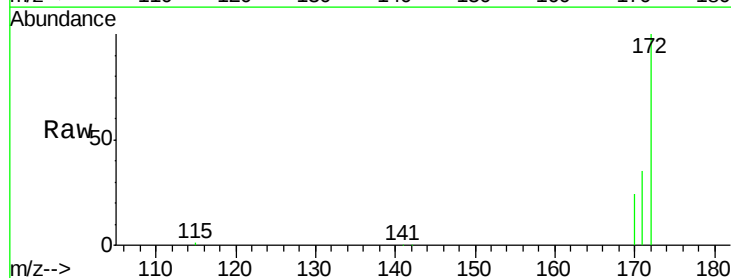
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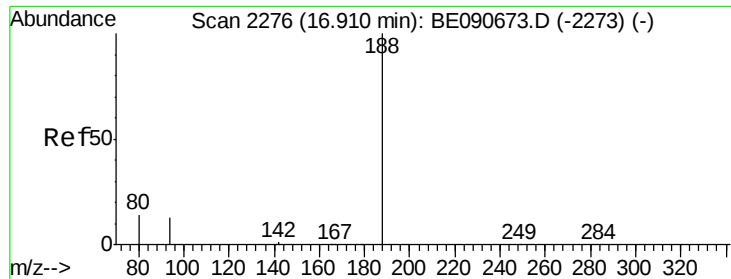
Tot Ion:330 Resp: 26719  
 Ion Ratio Lower Upper  
 330 100  
 332 97.4 74.9 112.3  
 141 178.9 145.2 217.8



#14  
 2-Fluorobiphenyl  
 Concen: 3.88 ng  
 RT: 12.79 min Scan# 1822  
 Delta R.T. -0.00 min  
 Lab File: BE090777.D  
 Acq: 11 Sep 2015 00:47

Tgt Ion:172 Resp: 114584  
 Ion Ratio Lower Upper  
 172 100  
 171 34.7 27.8 41.8  
 170 24.0 19.8 29.6





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.91 min Scan# 2276

Delta R.T. -0.00 min

Lab File: BE090777.D

Acq: 11 Sep 2015 00:47

Instrument :

BNA\_E

ClientSampleId :

090415-D534-F-D-S

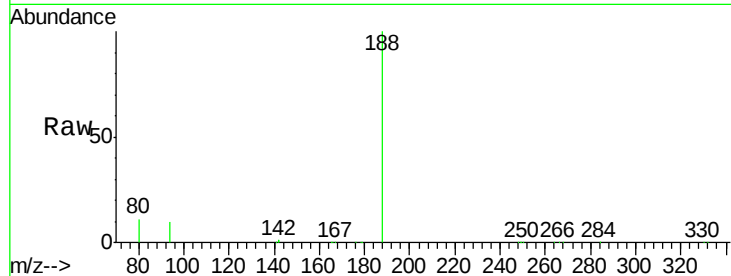
Tot Ion:188 Resp: 248804

Ion Ratio Lower Upper

188 100

94 10.3 10.3 15.5#

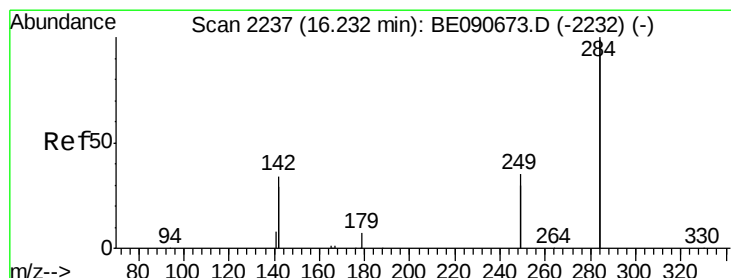
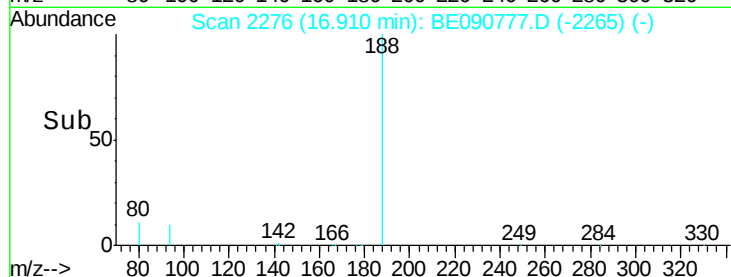
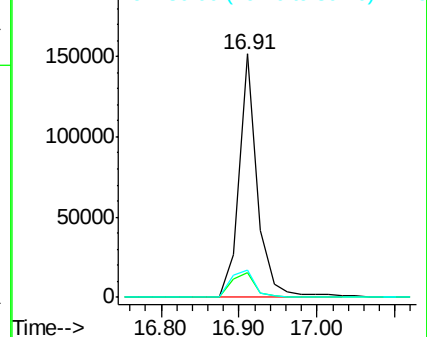
80 11.0 11.0 16.6#



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



#20

Hexachlorobenzene

Concen: Below Cal

RT: 16.23 min Scan# 2237

Delta R.T. 0.00 min

Lab File: BE090777.D

Acq: 11 Sep 2015 00:47

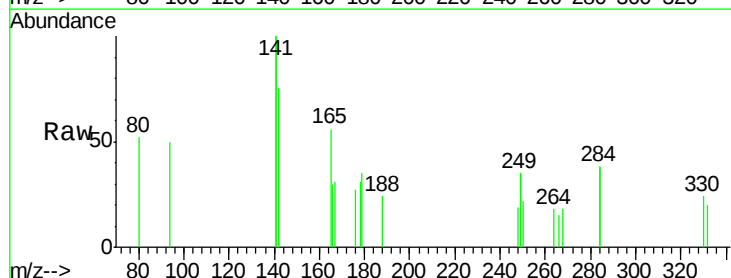
Tgt Ion:284 Resp: 125

Ion Ratio Lower Upper

284 100

142 305.6 35.0 52.4#

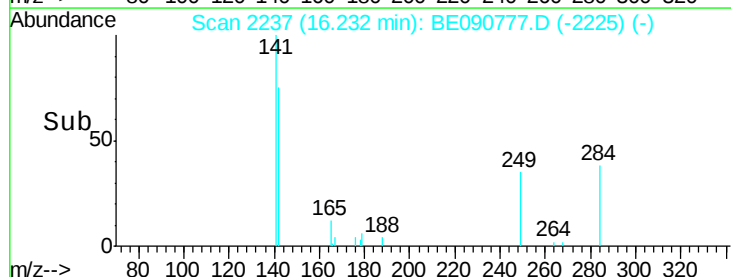
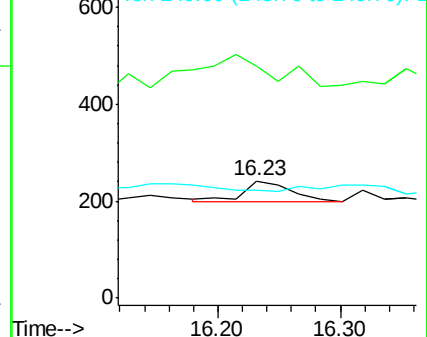
249 0.0 25.5 38.3#

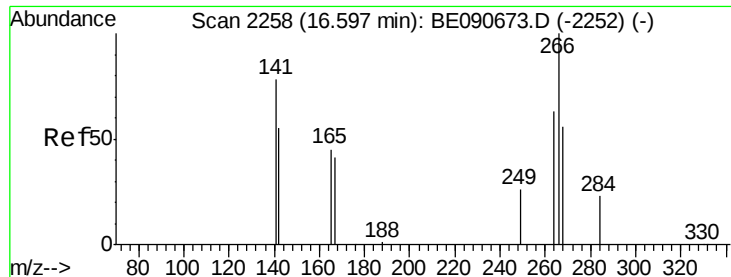


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

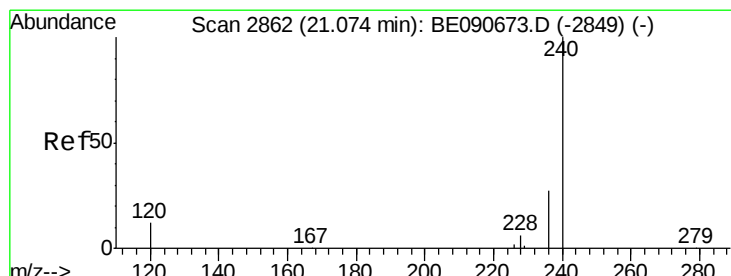
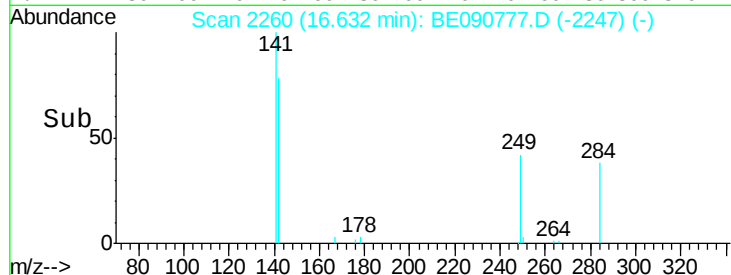
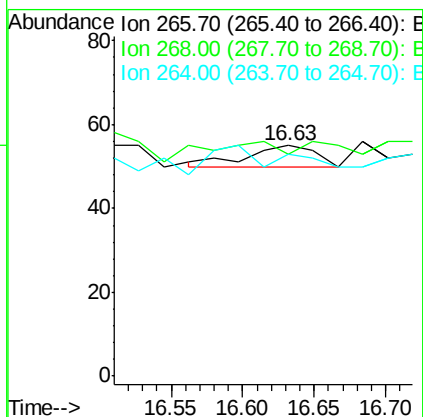
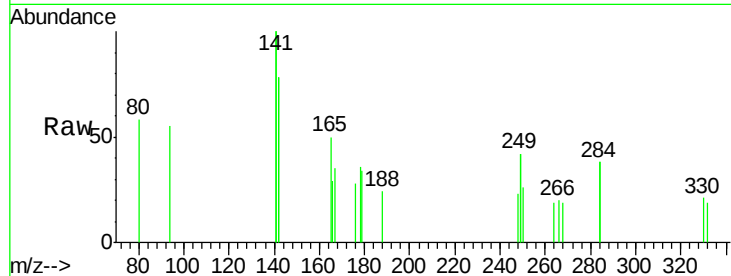




#21  
 Pentachlorophenol  
 Concen: 0.46 ng  
 RT: 16.63 min Scan# 2260  
 Delta R.T. 0.03 min  
 Lab File: BE090777.D  
 Acq: 11 Sep 2015 00:47

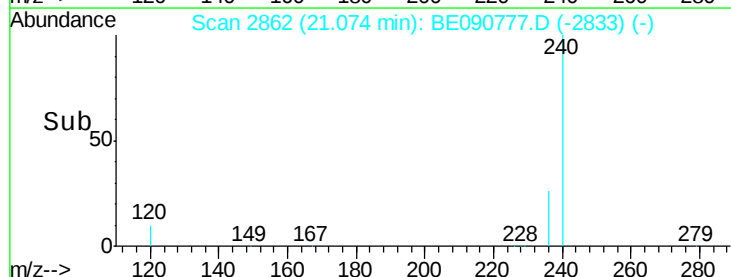
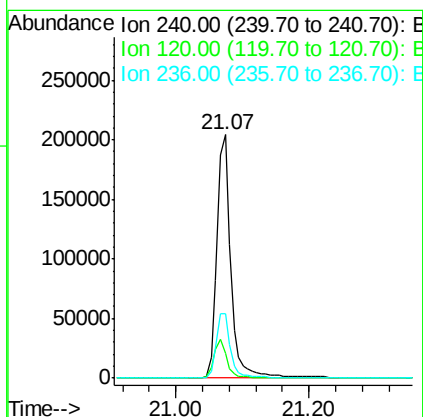
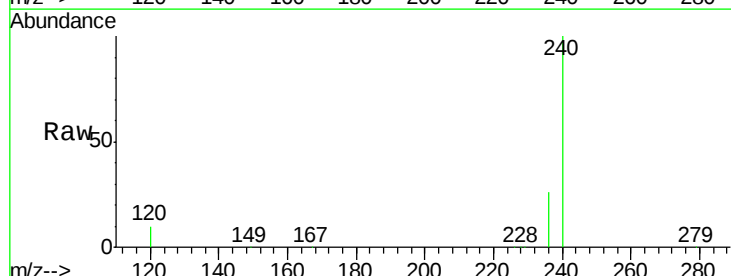
Instrument :  
 BNA\_E  
 ClientSampleId :  
 090415-D534-F-D-S

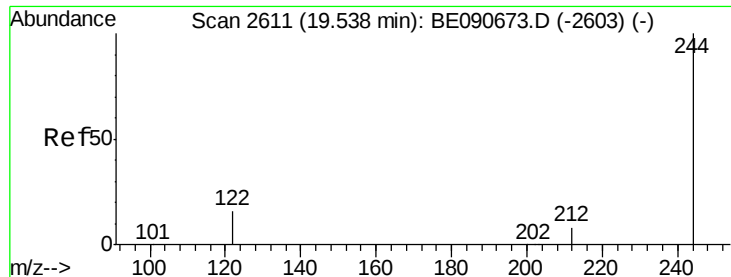
Tot Ion:266 Resp: 17  
 Ion Ratio Lower Upper  
 266 100  
 268 96.4 49.6 74.4#  
 264 96.4 53.9 80.9#



#25  
 Chrysene-d12  
 Concen: 5.00 ng  
 RT: 21.07 min Scan# 2862  
 Delta R.T. -0.00 min  
 Lab File: BE090777.D  
 Acq: 11 Sep 2015 00:47

Tgt Ion:240 Resp: 291453  
 Ion Ratio Lower Upper  
 240 100  
 120 10.3 10.1 15.1  
 236 26.3 21.9 32.9





#27

Terphenyl-d14

Concen: 6.11 ng

RT: 19.53 min Scan# 2609

Delta R.T. -0.01 min

Lab File: BE090777.D

Acq: 11 Sep 2015 00:47

Instrument :

BNA\_E

ClientSampleId :

090415-D534-F-D-S

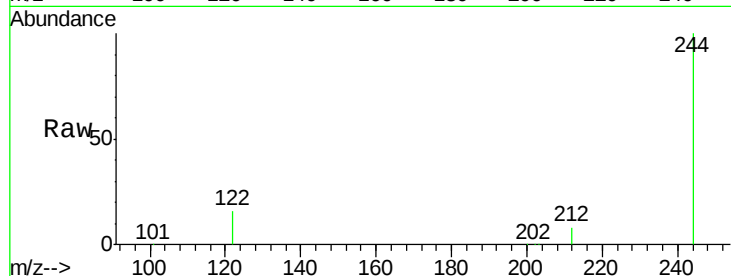
Tot Ion:244 Resp: 196920

Ion Ratio Lower Upper

244 100

212 8.3 6.9 10.3

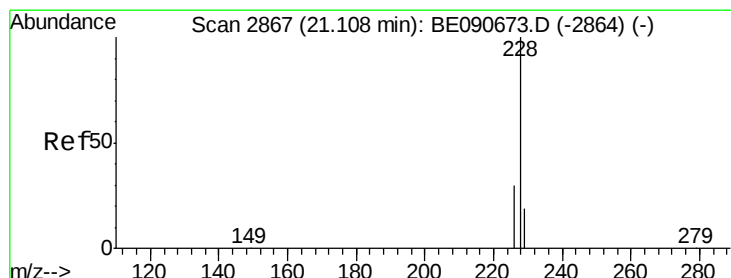
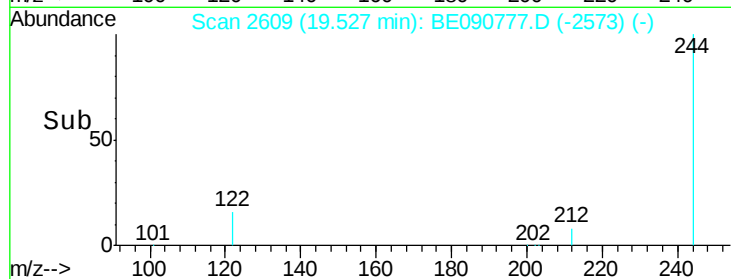
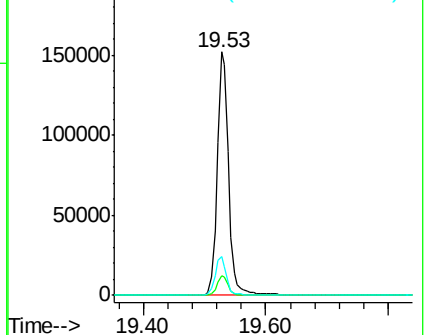
122 16.1 12.9 19.3



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#29

Chrysene

Concen: Below Cal

RT: 21.10 min Scan# 2866

Delta R.T. -0.01 min

Lab File: BE090777.D

Acq: 11 Sep 2015 00:47

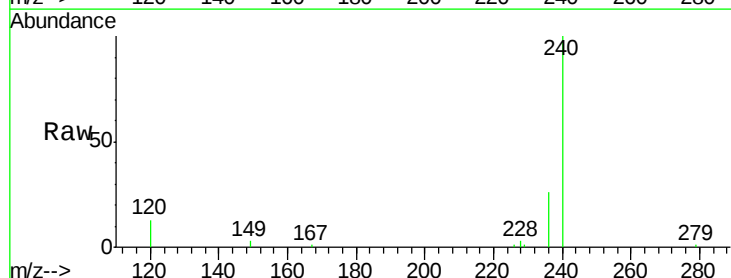
Tgt Ion:228 Resp: 308

Ion Ratio Lower Upper

228 100

226 48.2 24.2 36.4#

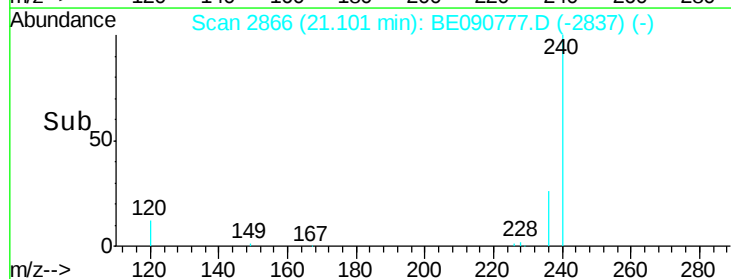
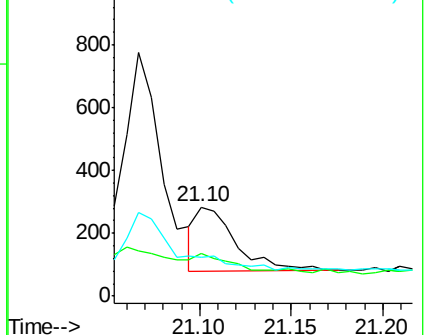
229 43.0 15.3 22.9#

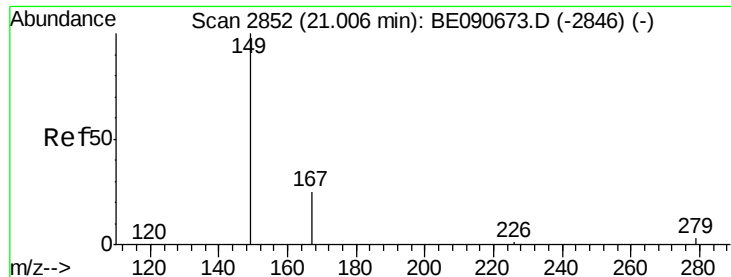


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

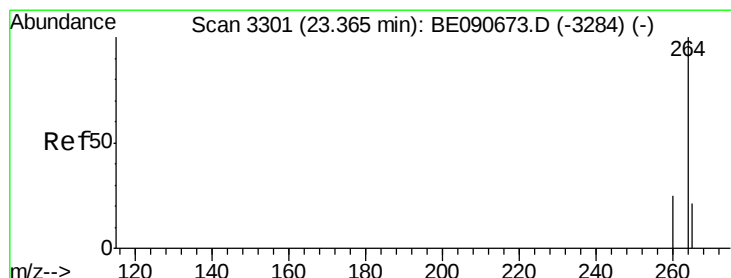
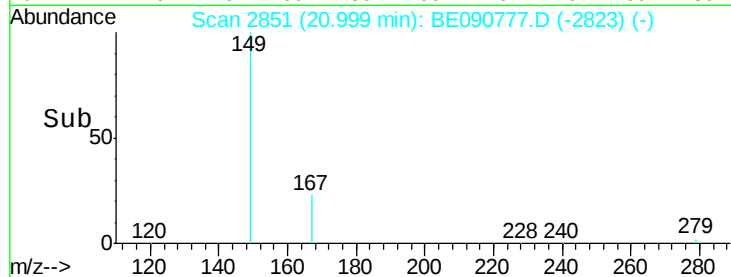
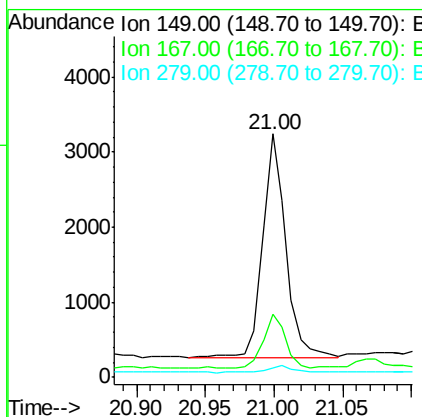
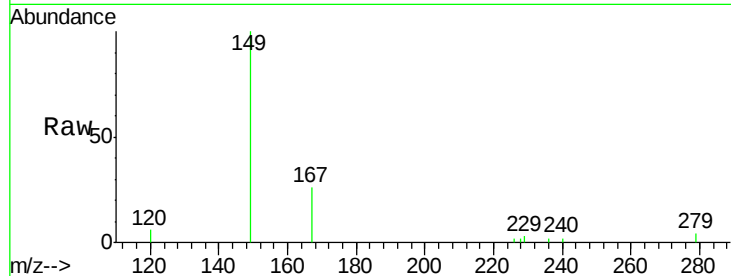




#30  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.27 ng  
 RT: 21.00 min Scan# 2851  
 Delta R.T. -0.01 min  
 Lab File: BE090777.D  
 Acq: 11 Sep 2015 00:47

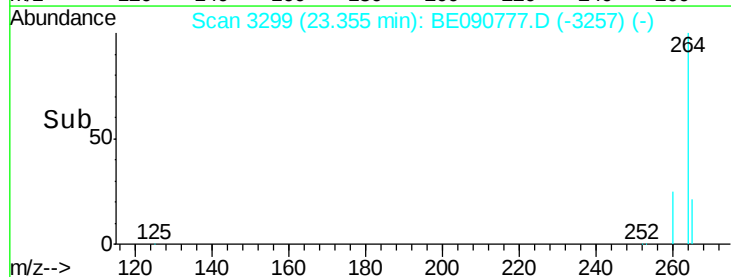
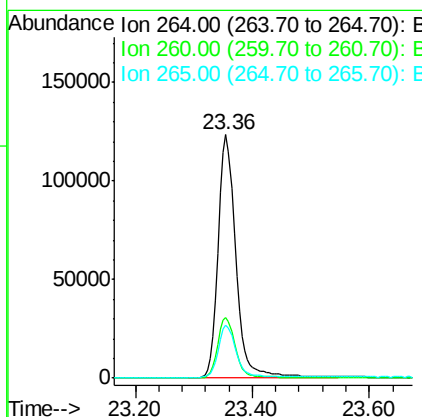
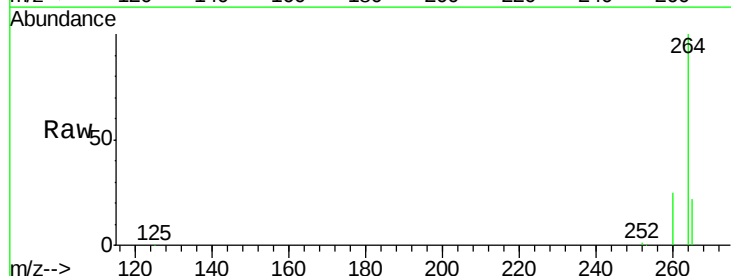
Instrument :  
 BNA\_E  
 ClientSampleId :  
 090415-D534-F-D-S

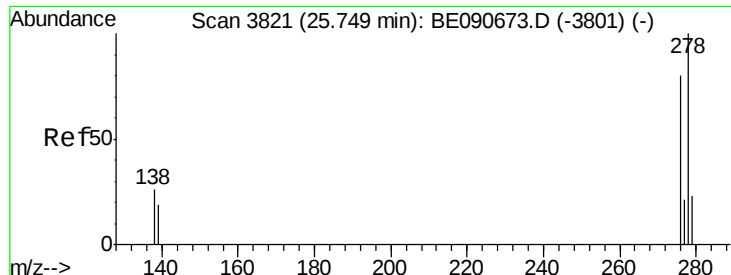
Tot Ion:149 Resp: 3520  
 Ion Ratio Lower Upper  
 149 100  
 167 24.2 20.1 30.1  
 279 3.5 2.3 3.5#



#32  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 23.36 min Scan# 3299  
 Delta R.T. -0.01 min  
 Lab File: BE090777.D  
 Acq: 11 Sep 2015 00:47

Tgt Ion:264 Resp: 259543  
 Ion Ratio Lower Upper  
 264 100  
 260 25.1 19.7 29.5  
 265 21.6 17.5 26.3





#36

Dibenzo(a,h)anthracene

Concen: 0.14 ng

RT: 25.74 min Scan# 3820

Delta R.T. -0.00 min

Lab File: BE090777.D

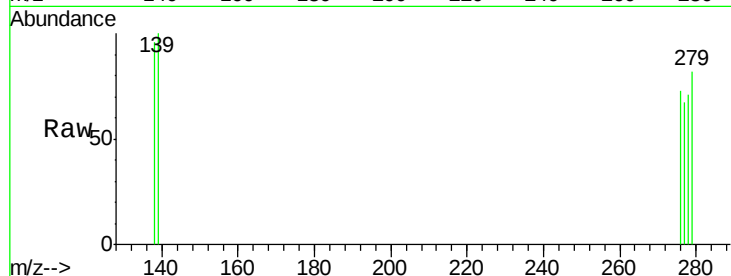
Acq: 11 Sep 2015 00:47

Instrument :

BNA\_E

ClientSampleId :

090415-D534-F-D-S



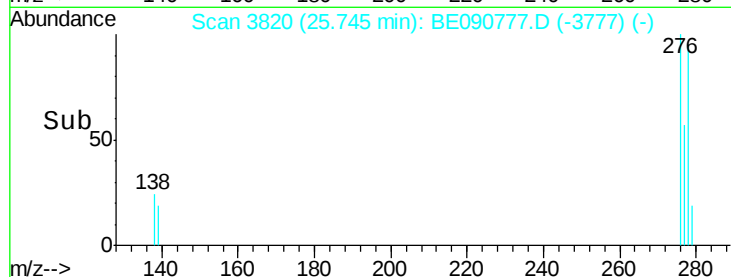
Tot Ion: 278 Resp: 28

Ion Ratio Lower Upper

278 100

139 140.3 15.4 23.0#

279 115.6 18.8 28.2#



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

