

Data Path : Z:\HPCHEM1\BNA E\DATA\BE092115\  
 Data File : BE090922.D  
 Acq On : 21 Sep 2015 17:26  
 Operator : UM/IZ  
 Sample : G3745-02  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 091815-D534-E-D-S

Quant Time: Sep 21 18:23:25 2015  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE091815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 18 18:17:34 2015  
 Response via : Initial Calibration

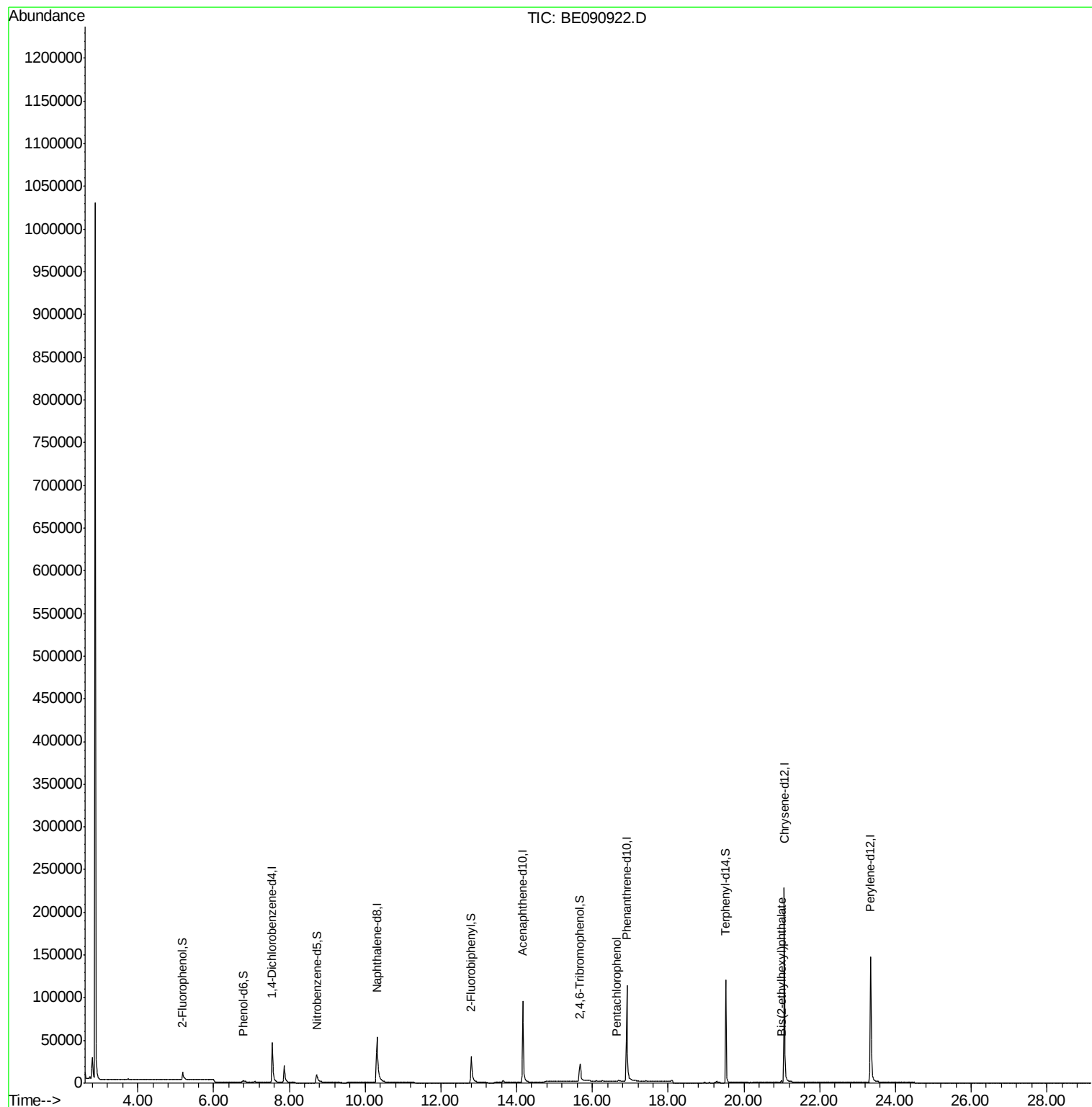
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.55  | 152  | 31735    | 5.00      | ng    | 0.00     |
| 7) Naphthalene-d8              | 10.31 | 136  | 132404   | 5.00      | ng    | 0.00     |
| 13) Acenaphthene-d10           | 14.17 | 164  | 70215    | 5.00      | ng    | 0.00     |
| 19) Phenanthrene-d10           | 16.91 | 188  | 173575   | 5.00      | ng    | 0.00     |
| 26) Chrysene-d12               | 21.07 | 240  | 239613   | 5.00      | ng    | 0.00     |
| 33) Perylene-d12               | 23.35 | 264  | 223942   | 5.00      | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 4) 2-Fluorophenol              | 5.18  | 112  | 11621    | 1.60      | ng    | 0.00     |
| 5) Phenol-d6                   | 6.79  | 99   | 8630     | 0.87      | ng    | 0.04     |
| 8) Nitrobenzene-d5             | 8.72  | 82   | 21139    | 2.32      | ng    | 0.01     |
| 14) 2,4,6-Tribromophenol       | 15.67 | 330  | 13363    | 5.39      | ng    | -0.02    |
| 15) 2-Fluorobiphenyl           | 12.80 | 172  | 56596    | 2.84      | ng    | 0.00     |
| 28) Terphenyl-d14              | 19.52 | 244  | 135461   | 5.00      | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 2) 1,4-Dioxane                 | 3.25  | 88   | 35       | Below Cal | #     | 1        |
| 3) n-Nitrosodimethylamine      | 3.43  | 42   | 74       | Below Cal | #     | 7        |
| 6) bis(2-Chloroethyl)ether     | 6.96  | 93   | 11       | Below Cal | #     | 72       |
| 10) Naphthalene                | 10.36 | 128  | 80       | Below Cal | #     | 1        |
| 11) Hexachlorobutadiene        | 10.67 | 225  | 7        | Below Cal | #     | 1        |
| 18) Fluorene                   | 15.24 | 166  | 94       | Below Cal | #     | 1        |
| 21) Hexachlorobenzene          | 16.25 | 284  | 50       | Below Cal | #     | 1        |
| 22) Pentachlorophenol          | 16.63 | 266  | 56       | 0.19 ng   | #     | 70       |
| 23) Phenanthrene               | 16.94 | 178  | 682      | Below Cal | #     | 80       |
| 30) Chrysene                   | 21.10 | 228  | 348      | Below Cal | #     | 68       |
| 31) Bis(2-ethylhexyl)phthalate | 20.99 | 149  | 2140     | 0.25 ng   | #     | 99       |

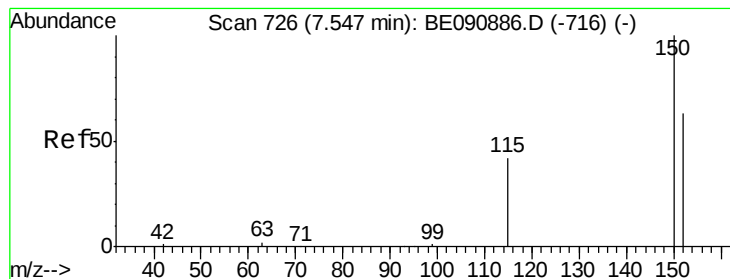
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA E\DATA\BE092115\  
Data File : BE090922.D  
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Sample : G3745-02  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_E  
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091815-D534-E-D-S

Quant Time: Sep 21 18:23:25 2015  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE091815.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 18 18:17:34 2015  
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.55 min Scan# 726

Delta R.T. -0.00 min

Lab File: BE090922.D

Acq: 21 Sep 2015 17:26

Instrument :

BNA\_E

ClientSampleId :

091815-D534-E-D-S

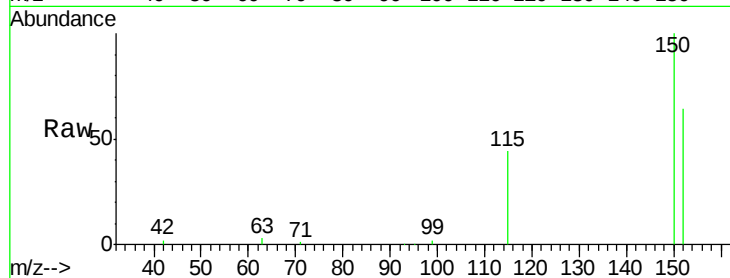
Tot Ion:152 Resp: 31735

Ion Ratio Lower Upper

152 100

150 156.5 122.2 183.4

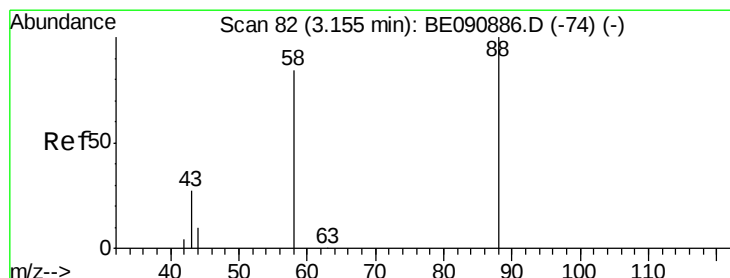
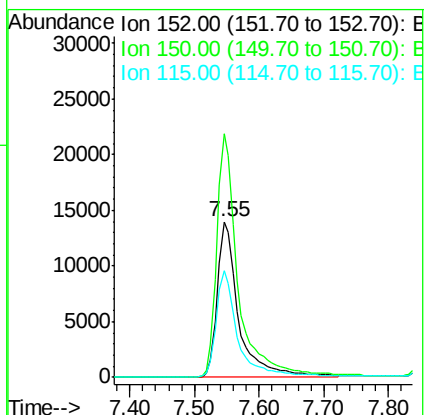
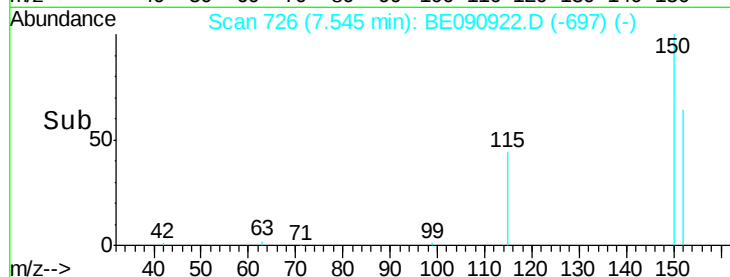
115 68.8 51.0 76.4



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: 3.25 min Scan# 96

Delta R.T. 0.10 min

Lab File: BE090922.D

Acq: 21 Sep 2015 17:26

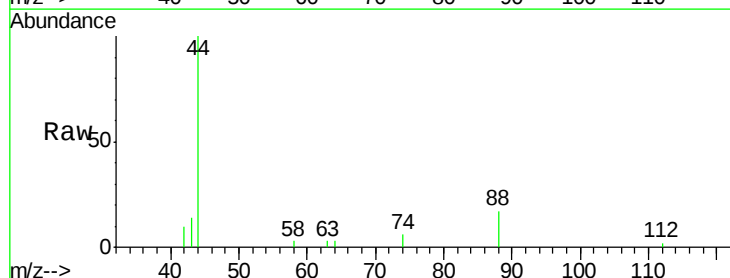
Tgt Ion: 88 Resp: 35

Ion Ratio Lower Upper

88 100

58 34.3 68.4 102.6#

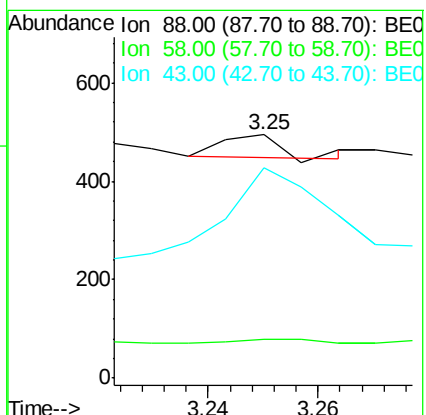
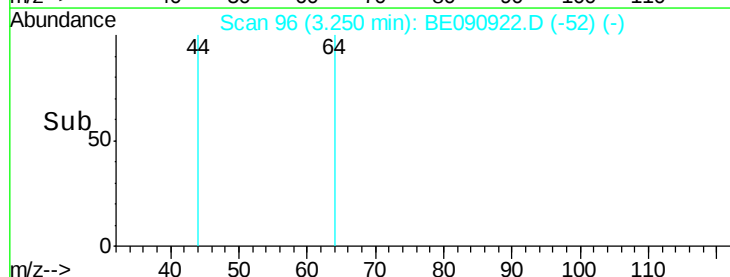
43 774.3 26.9 40.3#



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



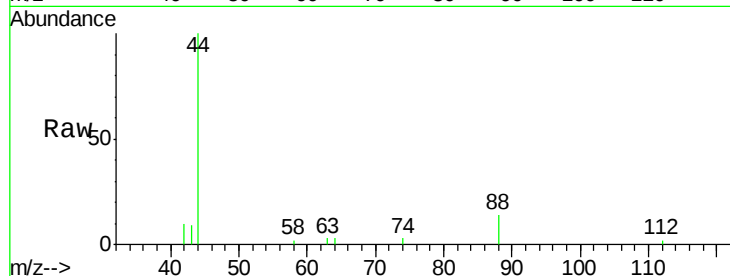


#3

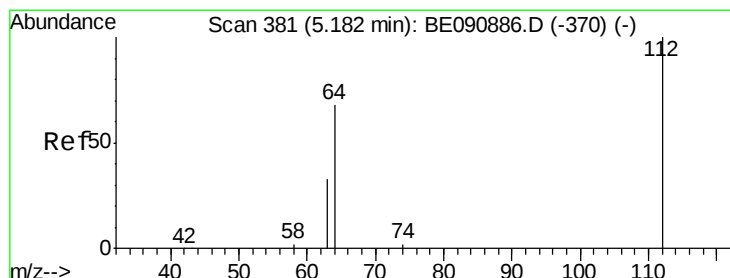
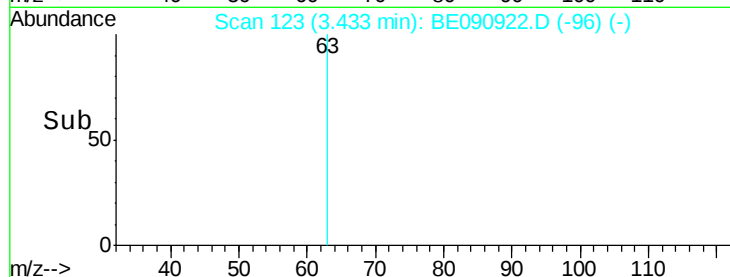
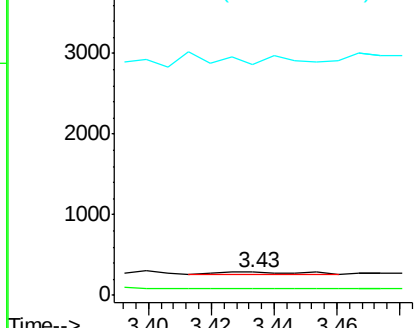
n-Nitrosodimethylamine  
 Concen: Below Cal  
 RT: 3.43 min Scan# 123  
 Delta R.T. -0.02 min  
 Lab File: BE090922.D  
 Acq: 21 Sep 2015 17:26

Instrument :  
 BNA\_E  
 ClientSampleId :  
 091815-D534-E-D-S

Tot Ion: 42 Resp: 74  
 Ion Ratio Lower Upper  
 42 100  
 74 25.7 83.7 125.5#  
 44 102.7 10.0 15.0#



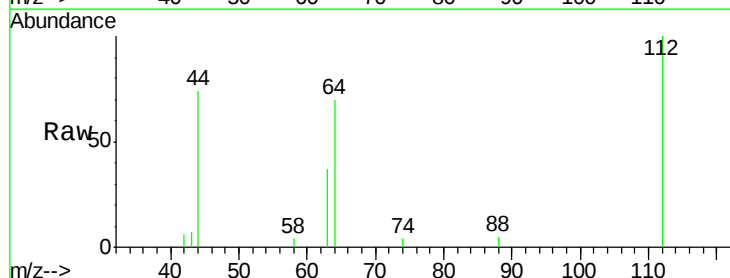
Abundance Ion 42.00 (41.70 to 42.70): BE0  
 Ion 74.00 (73.70 to 74.70): BE0  
 Ion 44.00 (43.70 to 44.70): BE0



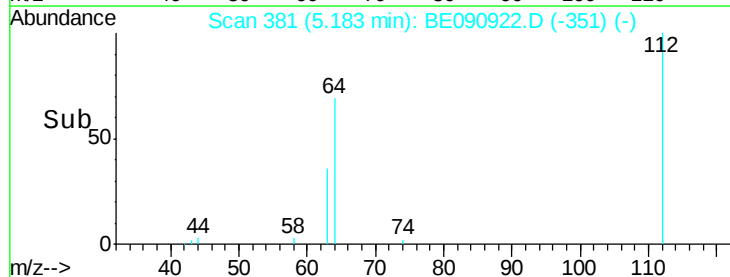
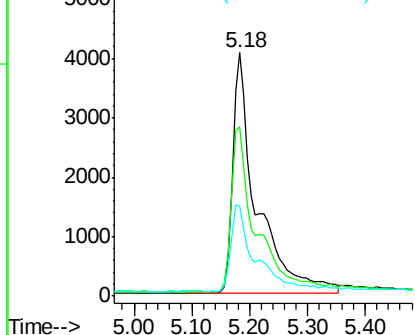
#4

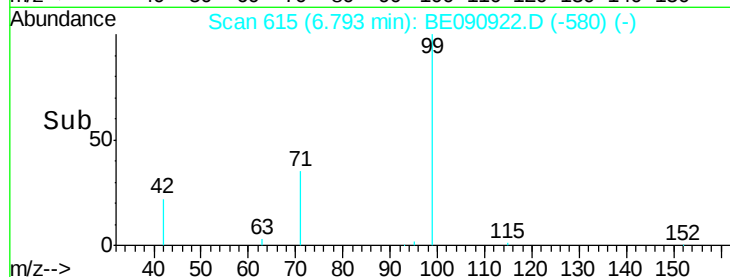
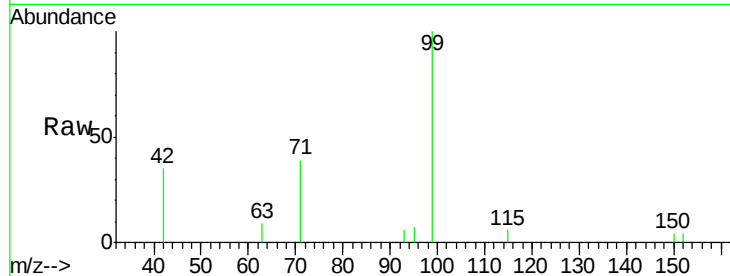
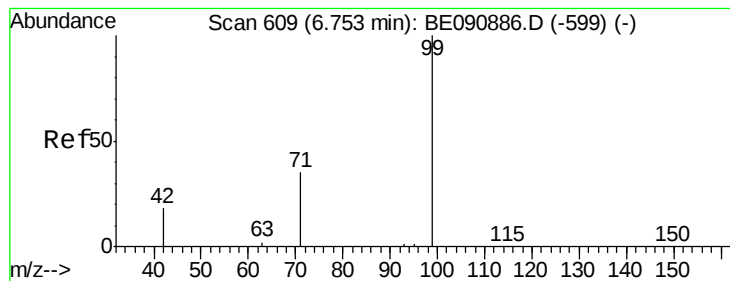
2-Fluorophenol  
 Concen: 1.60 ng  
 RT: 5.18 min Scan# 381  
 Delta R.T. 0.00 min  
 Lab File: BE090922.D  
 Acq: 21 Sep 2015 17:26

Tgt Ion: 112 Resp: 11621  
 Ion Ratio Lower Upper  
 112 100  
 64 72.3 57.3 85.9  
 63 38.0 29.2 43.8



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





#5

Phenol-d6

Concen: 0.87 ng

RT: 6.79 min Scan# 615

Delta R.T. 0.04 min

Lab File: BE090922.D

Acq: 21 Sep 2015 17:26

Instrument :

BNA\_E

ClientSampleId :

091815-D534-E-D-S

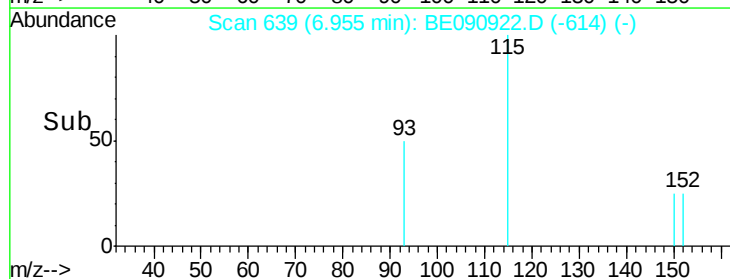
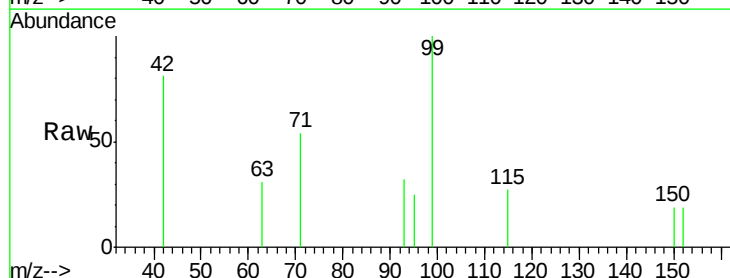
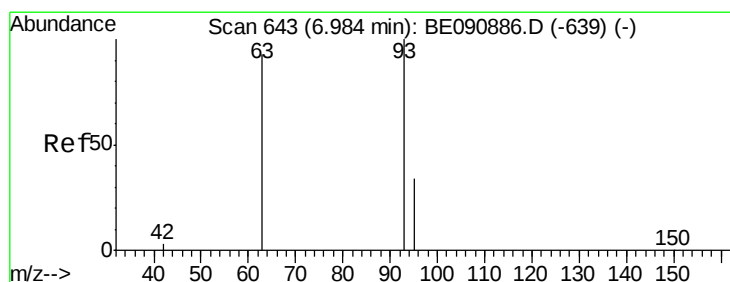
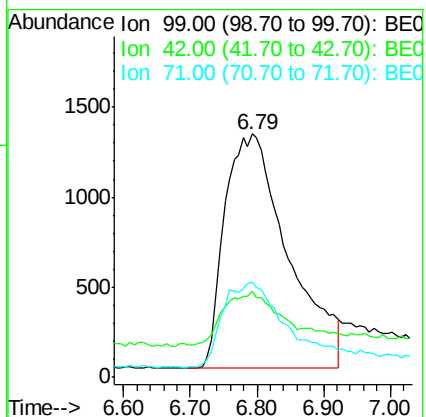
Tot Ion: 99 Resp: 8630

Ion Ratio Lower Upper

99 100

42 22.0 16.8 25.2

71 36.7 28.3 42.5



#6

bis(2-Chloroethyl)ether

Concen: Below Cal

RT: 6.96 min Scan# 639

Delta R.T. -0.03 min

Lab File: BE090922.D

Acq: 21 Sep 2015 17:26

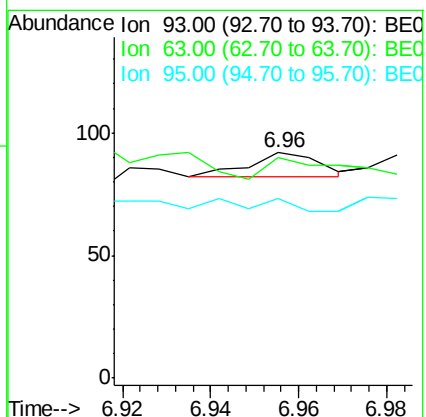
Tgt Ion: 93 Resp: 11

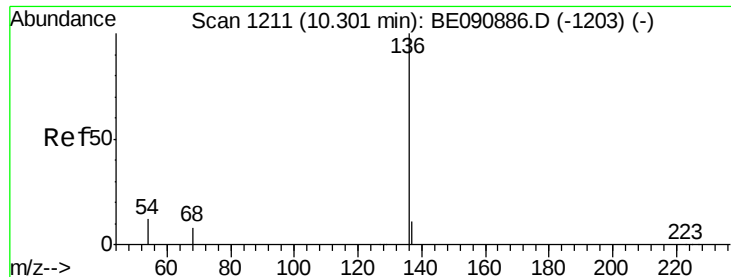
Ion Ratio Lower Upper

93 100

63 100.0 68.5 102.7

95 0.0 26.9 40.3#





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.31 min Scan# 1213

Delta R.T. 0.01 min

Lab File: BE090922.D

Acq: 21 Sep 2015 17:26

Instrument :

BNA\_E

ClientSampleId :

091815-D534-E-D-S

Tot Ion:136 Resp: 132404

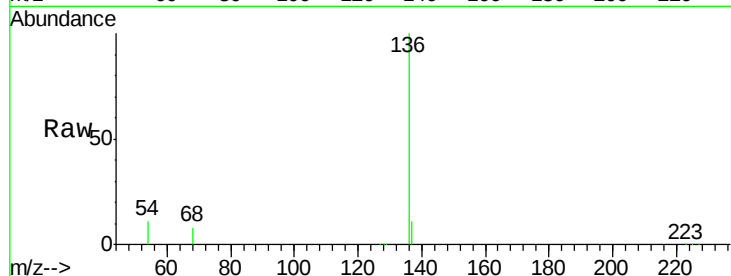
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 11.2 9.0 13.6

68 8.2 6.3 9.5

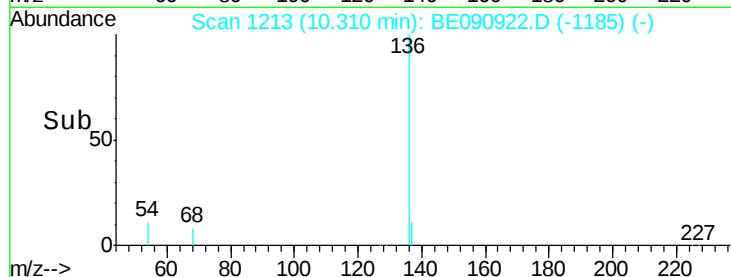


Abundance Ion 136.00 (135.70 to 136.70): E

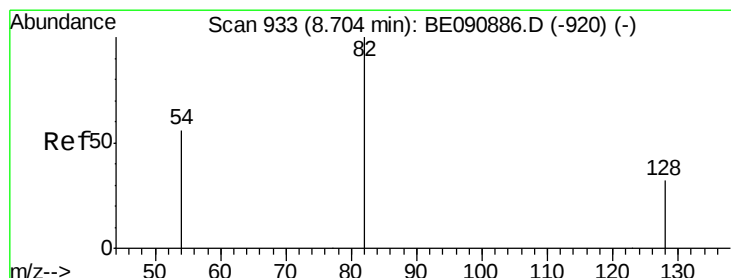
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time-->



#8

Nitrobenzene-d5

Concen: 2.32 ng

RT: 8.72 min Scan# 936

Delta R.T. 0.01 min

Lab File: BE090922.D

Acq: 21 Sep 2015 17:26

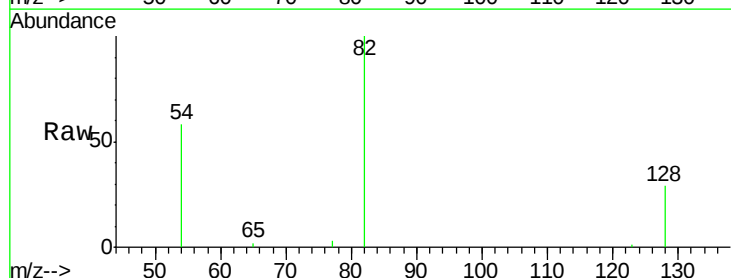
Tgt Ion: 82 Resp: 21139

Ion Ratio Lower Upper

82 100

128 28.9 25.0 37.4

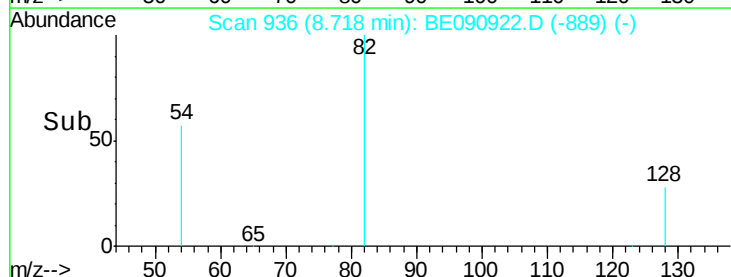
54 57.8 46.3 69.5



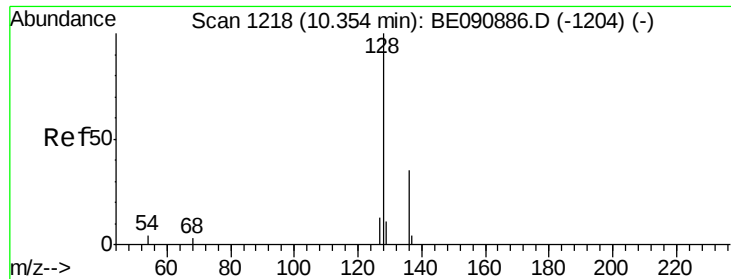
Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0



Time-->



#10

Naphthalene

Concen: Below Cal

RT: 10.36 min Scan# 1220

Delta R.T. 0.01 min

Lab File: BE090922.D

Acq: 21 Sep 2015 17:26

Instrument :

BNA\_E

ClientSampleId :

091815-D534-E-D-S

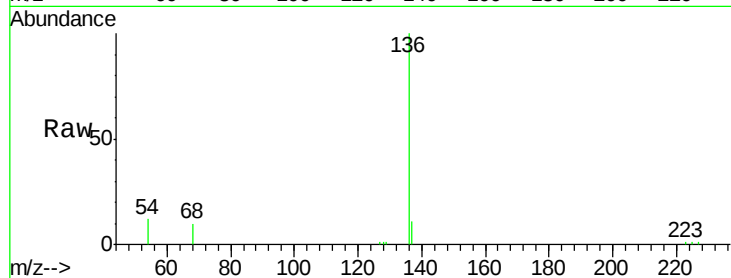
Tot Ion:128 Resp: 80

Ion Ratio Lower Upper

128 100

129 68.1 8.4 12.6#

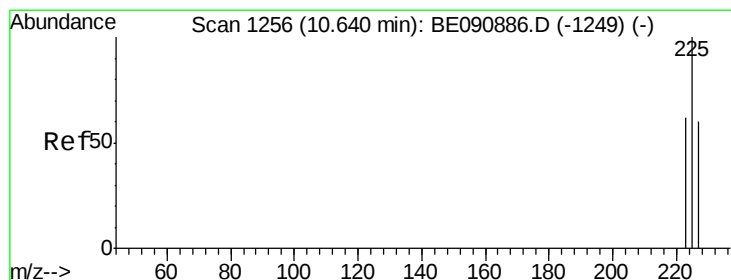
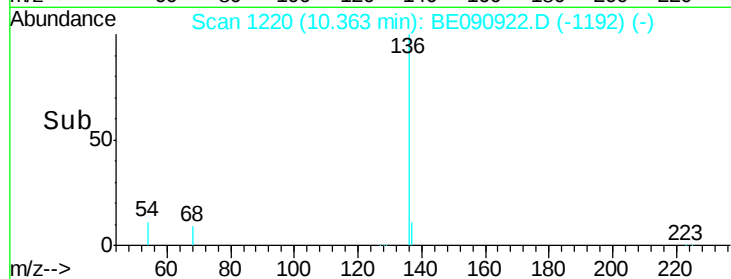
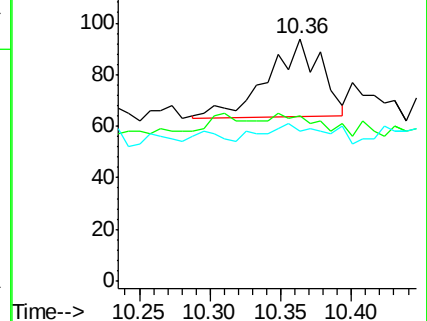
127 61.7 9.9 14.9#



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



#11

Hexachlorobutadiene

Concen: Below Cal

RT: 10.67 min Scan# 1261

Delta R.T. 0.03 min

Lab File: BE090922.D

Acq: 21 Sep 2015 17:26

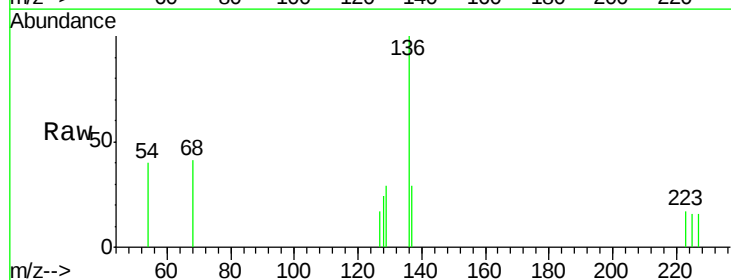
Tgt Ion:225 Resp: 7

Ion Ratio Lower Upper

225 100

223 200.0 50.6 76.0#

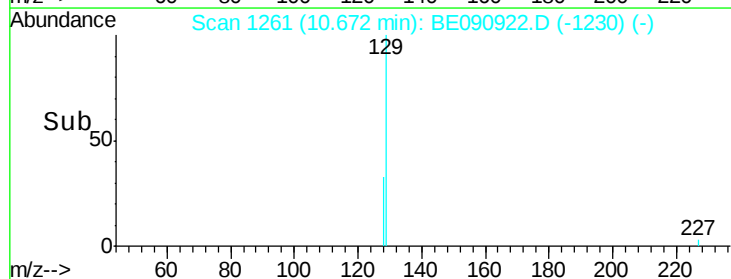
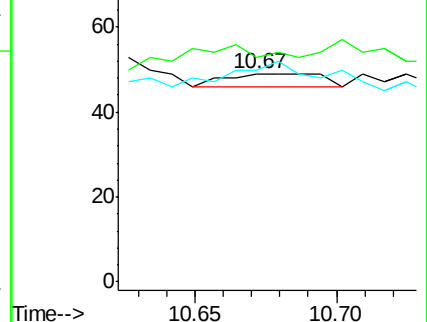
227 228.6 51.0 76.6#

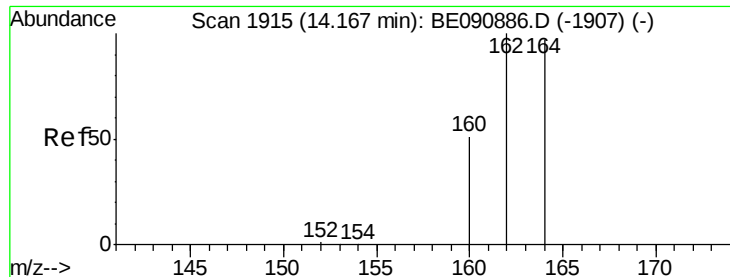


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.17 min Scan# 1916

Delta R.T. 0.00 min

Lab File: BE090922.D

Acq: 21 Sep 2015 17:26

Instrument :

BNA\_E

ClientSampleId :

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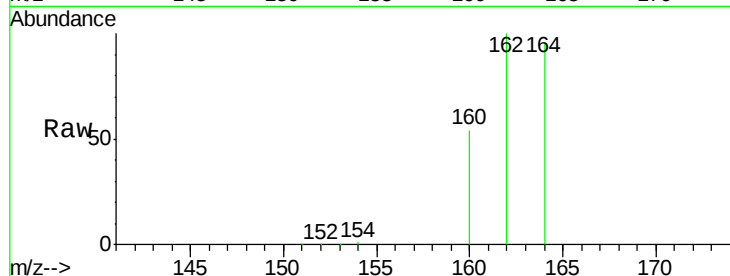
Tot Ion:164 Resp: 70215

Ion Ratio Lower Upper

164 100

162 104.3 86.8 130.2

160 56.8 53.9 80.9



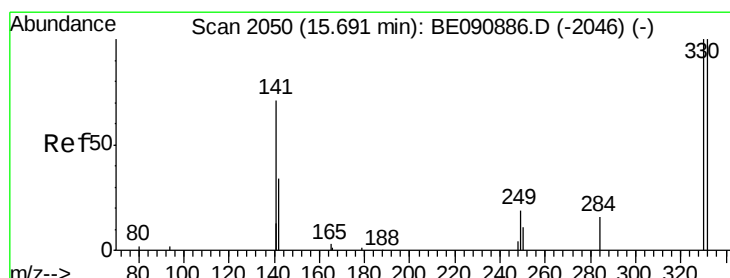
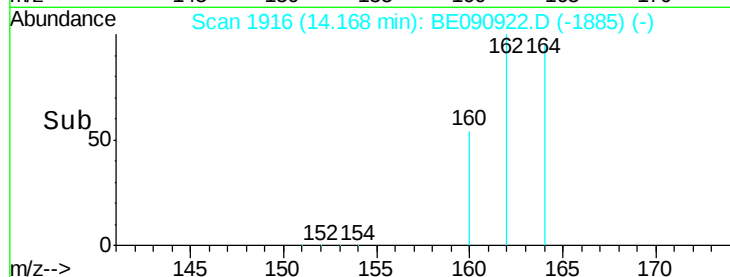
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

14.17

Time--> 14.00 14.20 14.40



#14

2,4,6-Tribromophenol

Concen: 5.39 ng

RT: 15.67 min Scan# 2050

Delta R.T. -0.02 min

Lab File: BE090922.D

Acq: 21 Sep 2015 17:26

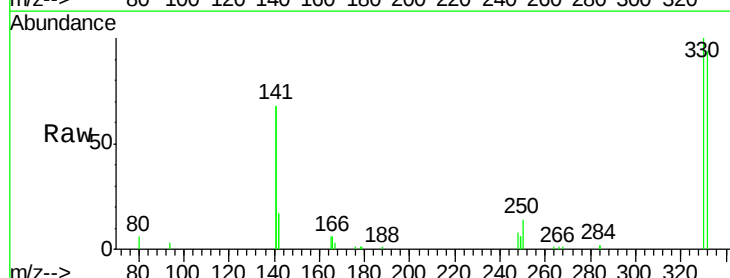
Tgt Ion:330 Resp: 13363

Ion Ratio Lower Upper

330 100

332 96.4 74.9 112.3

141 182.6 145.2 217.8



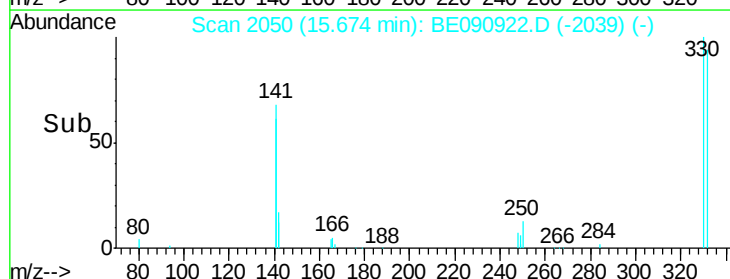
Abundance Ion 329.80 (329.50 to 330.50): E

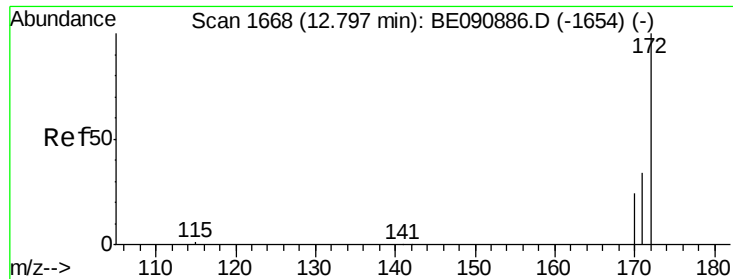
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

15.67

Time--> 15.60 15.80

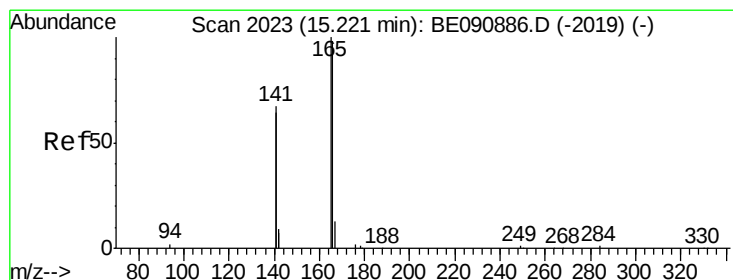
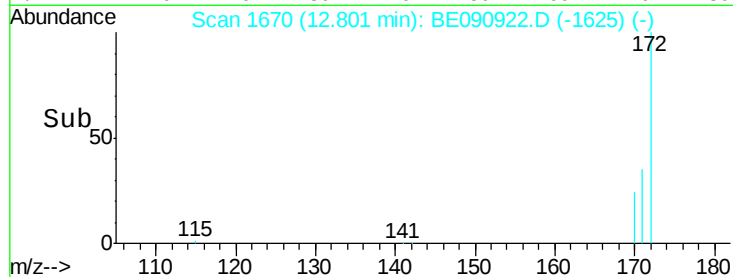
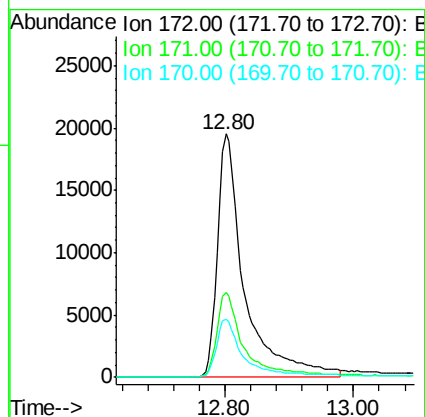
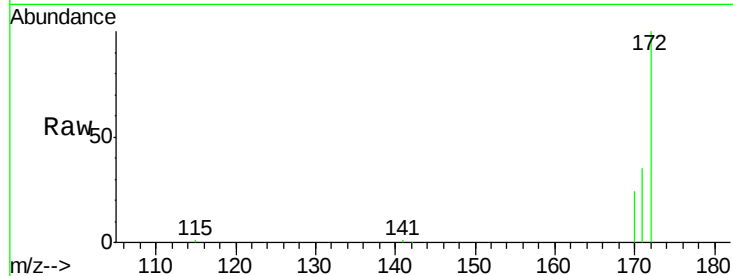




#15  
2-Fluorobiphenyl  
Concen: 2.84 ng  
RT: 12.80 min Scan# 1670  
Delta R.T. 0.00 min  
Lab File: BE090922.D  
Acq: 21 Sep 2015 17:26

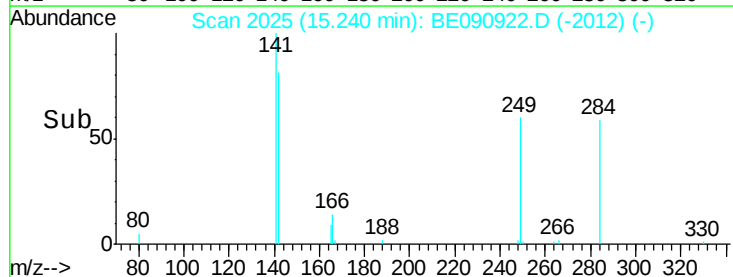
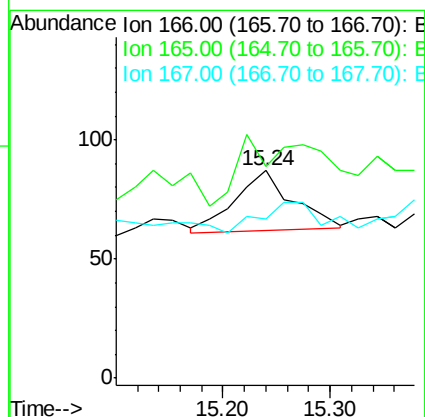
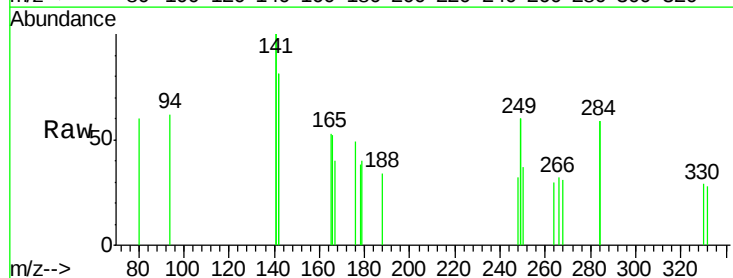
Instrument :  
BNA\_E  
ClientSampleId :  
091815-D534-E-D-S

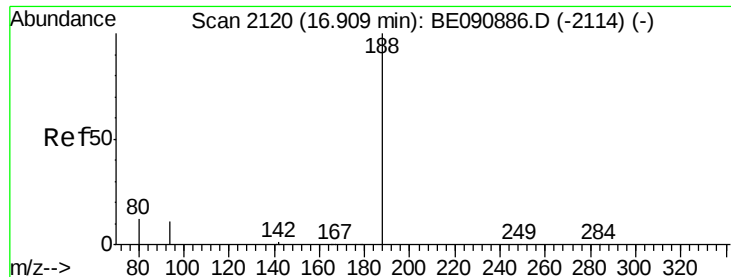
Tot Ion:172 Resp: 56596  
Ion Ratio Lower Upper  
172 100  
171 34.8 27.8 41.8  
170 24.0 19.8 29.6



#18  
Fluorene  
Concen: Below Cal  
RT: 15.24 min Scan# 2025  
Delta R.T. 0.02 min  
Lab File: BE090922.D  
Acq: 21 Sep 2015 17:26

Tgt Ion:166 Resp: 94  
Ion Ratio Lower Upper  
166 100  
165 0.0 82.7 124.1#  
167 56.4 10.7 16.1#





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.91 min Scan# 2121

Delta R.T. 0.00 min

Lab File: BE090922.D

Acq: 21 Sep 2015 17:26

Instrument :

BNA\_E

ClientSampleId :

091815-D534-E-D-S

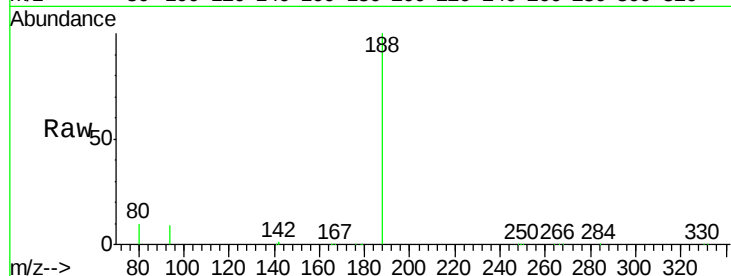
Tot Ion:188 Resp: 173575

Ion Ratio Lower Upper

188 100

94 9.1 10.3 15.5#

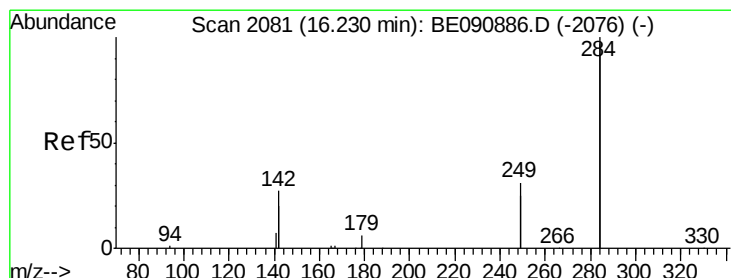
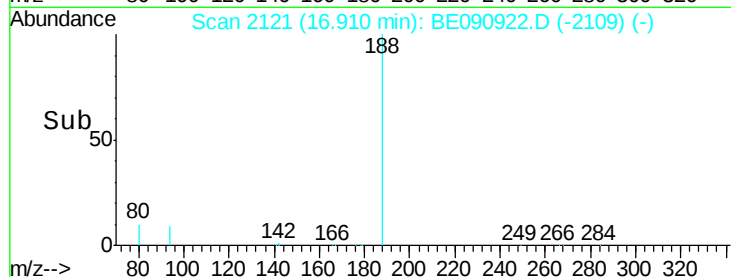
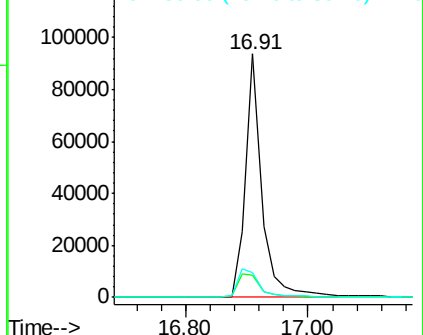
80 9.9 11.0 16.6#



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



#21

Hexachlorobenzene

Concen: Below Cal

RT: 16.25 min Scan# 2083

Delta R.T. 0.02 min

Lab File: BE090922.D

Acq: 21 Sep 2015 17:26

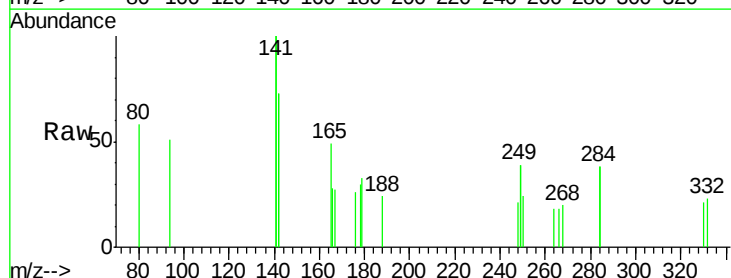
Tgt Ion:284 Resp: 50

Ion Ratio Lower Upper

284 100

142 672.0 35.0 52.4#

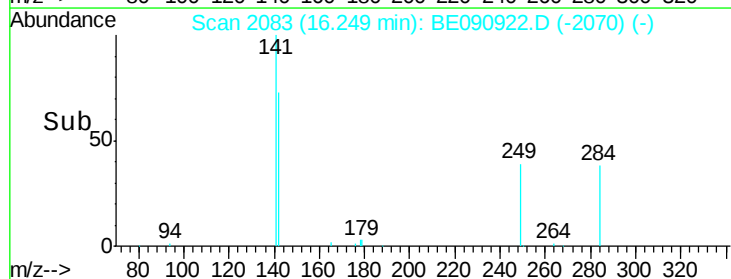
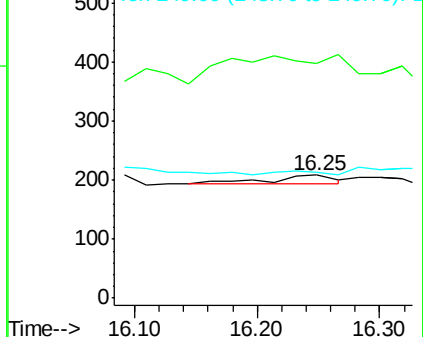
249 0.0 25.5 38.3#

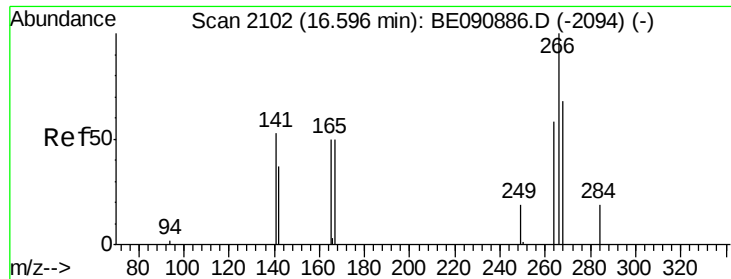


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

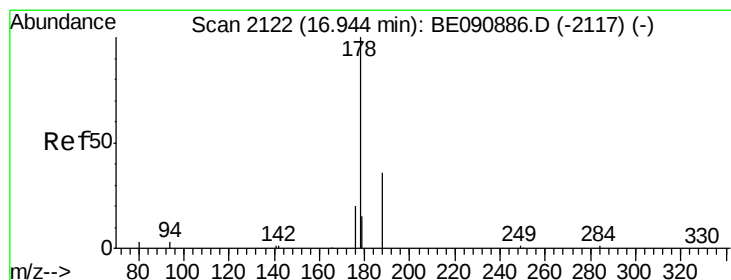
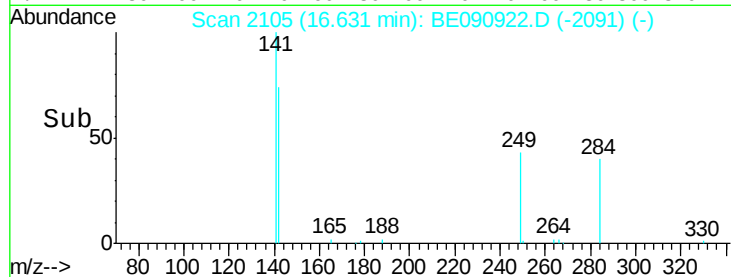
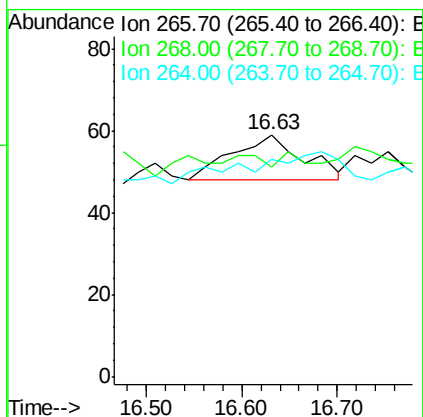
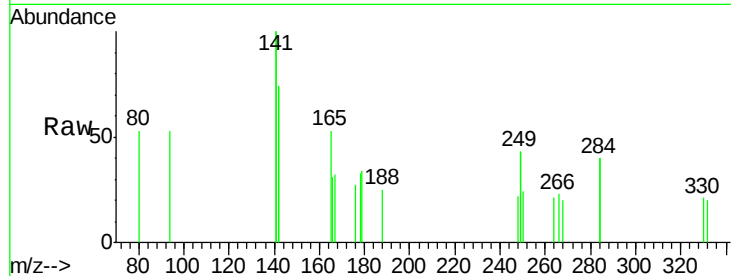




#22  
 Pentachlorophenol  
 Concen: 0.19 na  
 RT: 16.63 min Scan# 2105  
 Delta R.T. 0.04 min  
 Lab File: BE090922.D  
 Acq: 21 Sep 2015 17:26

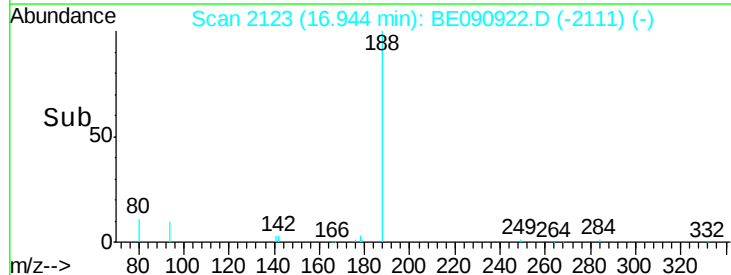
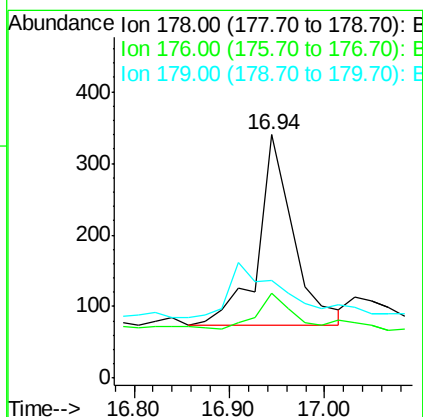
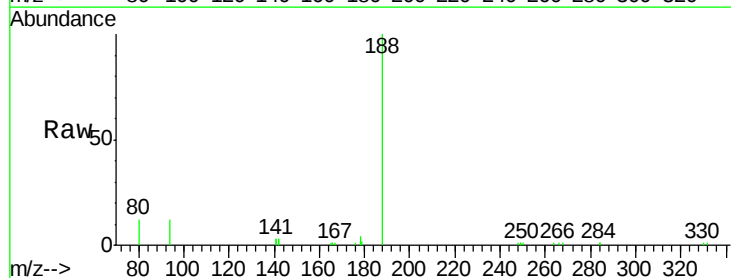
Instrument :  
 BNA\_E  
 ClientSampleId :  
 091815-D534-E-D-S

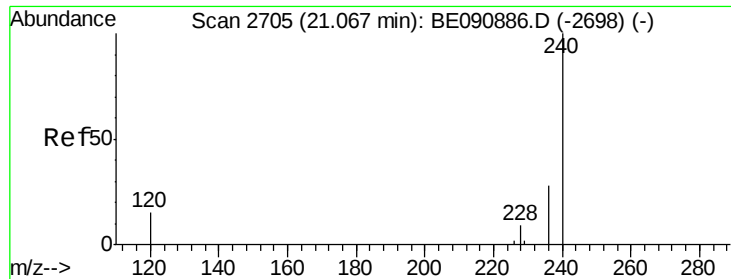
Tot Ion:266 Resp: 56  
 Ion Ratio Lower Upper  
 266 100  
 268 86.4 49.6 74.4#  
 264 89.8 53.9 80.9#



#23  
 Phenanthrene  
 Concen: Below Cal  
 RT: 16.94 min Scan# 2123  
 Delta R.T. 0.00 min  
 Lab File: BE090922.D  
 Acq: 21 Sep 2015 17:26

Tgt Ion:178 Resp: 682  
 Ion Ratio Lower Upper  
 178 100  
 176 17.3 15.6 23.4  
 179 0.0 12.8 19.2#

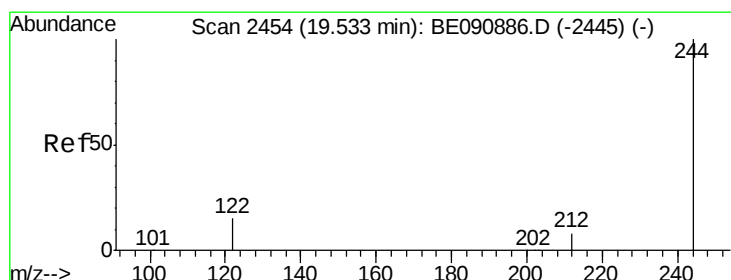
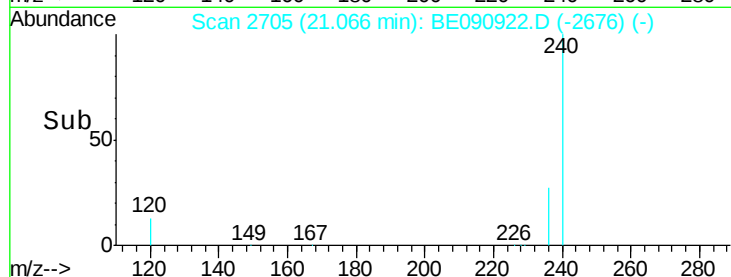
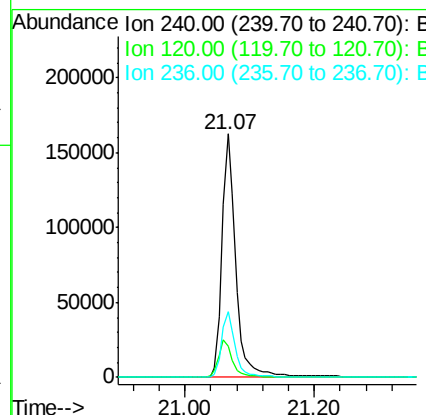
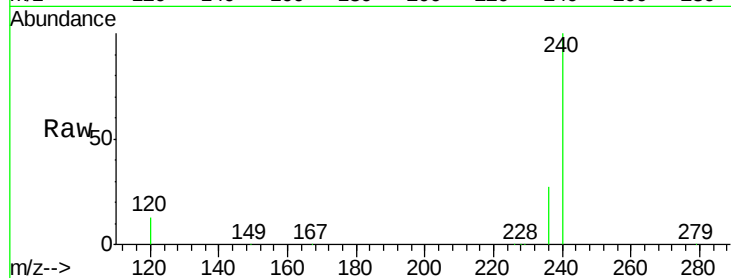




#26  
Chrysene-d12  
Concen: 5.00 ng  
RT: 21.07 min Scan# 2705  
Delta R.T. -0.00 min  
Lab File: BE090922.D  
Acq: 21 Sep 2015 17:26

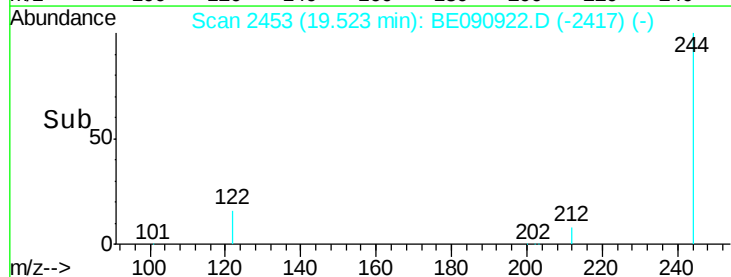
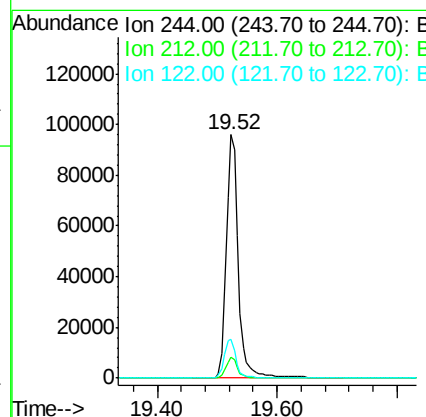
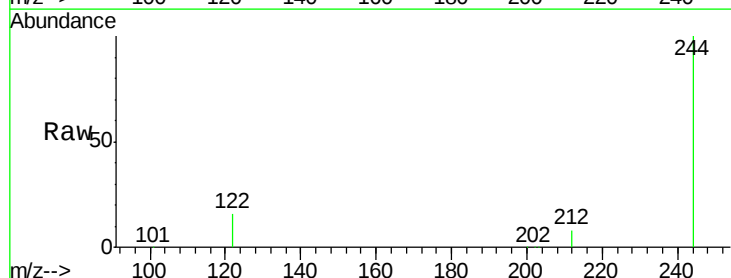
Instrument :  
BNA\_E  
ClientSampleId :  
091815-D534-E-D-S

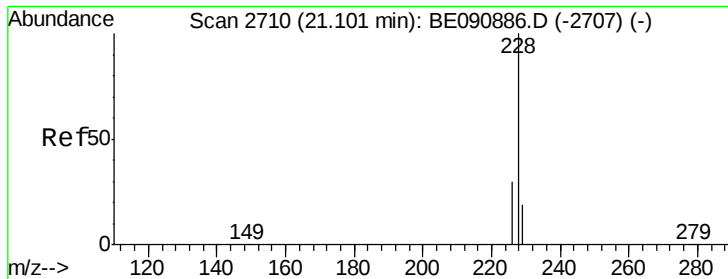
Tot Ion:240 Resp: 239613  
Ion Ratio Lower Upper  
240 100  
120 12.9 10.1 15.1  
236 27.0 21.9 32.9



#28  
Terphenyl-d14  
Concen: 5.00 ng  
RT: 19.52 min Scan# 2453  
Delta R.T. -0.01 min  
Lab File: BE090922.D  
Acq: 21 Sep 2015 17:26

Tgt Ion:244 Resp: 135461  
Ion Ratio Lower Upper  
244 100  
212 8.4 6.9 10.3  
122 16.0 12.9 19.3





#30

Chrysene

Concen: Below Cal

RT: 21.10 min Scan# 2710

Delta R.T. 0.00 min

Lab File: BE090922.D

Acq: 21 Sep 2015 17:26

Instrument :

BNA\_E

ClientSampleId :

091815-D534-E-D-S

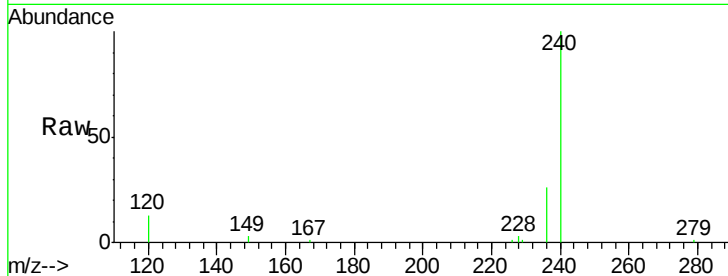
Tot Ion:228 Resp: 348

Ion Ratio Lower Upper

228 100

226 43.1 24.2 36.4#

229 40.2 15.3 22.9#

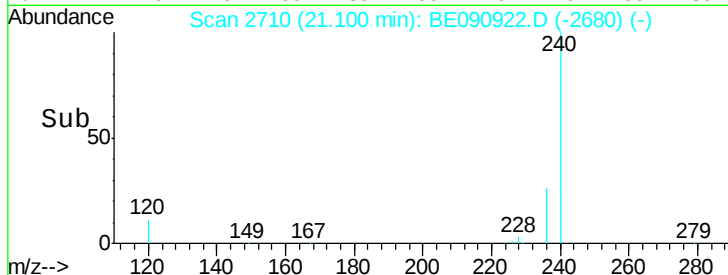


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

Time-->



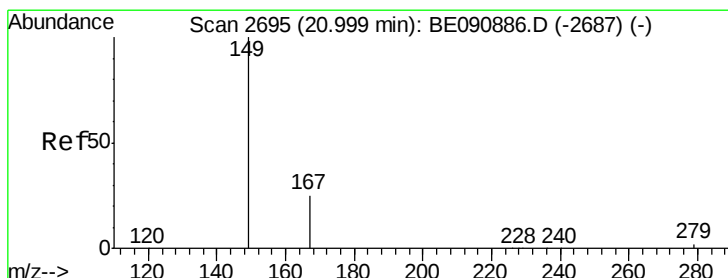
Abundance

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

Time-->



#31

Bis(2-ethylhexyl)phthalate

Concen: 0.25 ng

RT: 20.99 min Scan# 2694

Delta R.T. -0.01 min

Lab File: BE090922.D

Acq: 21 Sep 2015 17:26

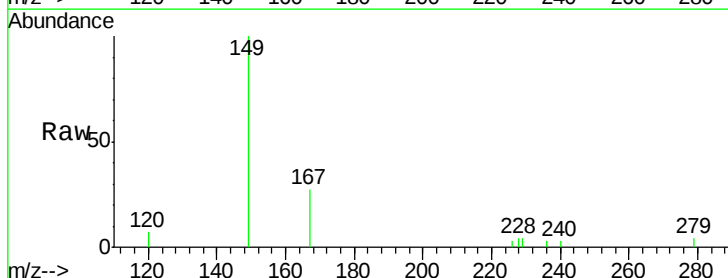
Tgt Ion:149 Resp: 2140

Ion Ratio Lower Upper

149 100

167 25.7 20.1 30.1

279 2.8 2.3 3.5

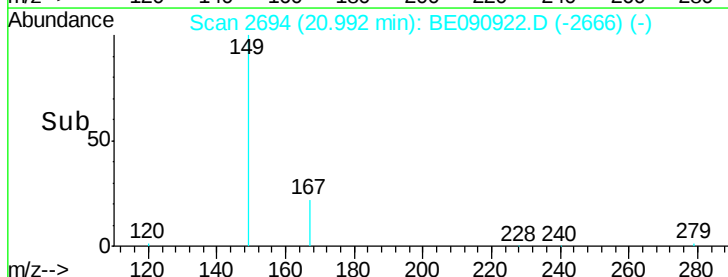


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

Time-->



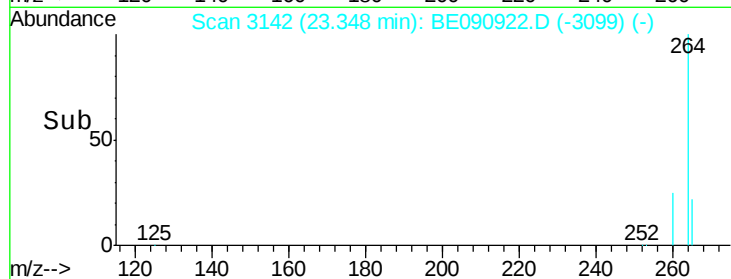
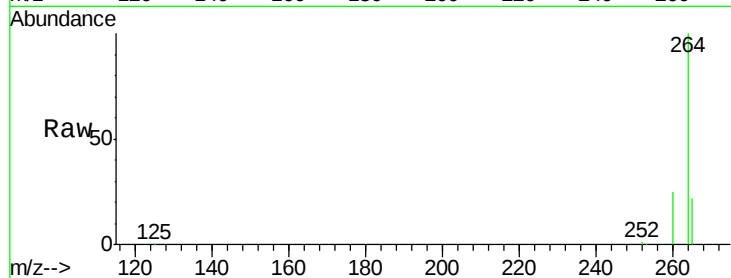
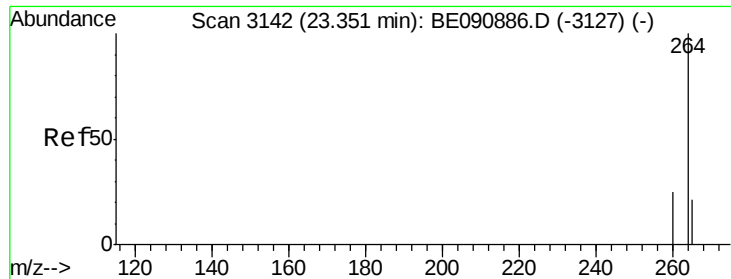
Abundance

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

Time-->



#33

Pervlene-d12

Concen: 5.00 ng

RT: 23.35 min Scan# 3142

Delta R.T. -0.00 min

Lab File: BE090922.D

Acq: 21 Sep 2015 17:26

Instrument :

BNA\_E

ClientSampleId :

091815-D534-E-D-S

Tot Ion: 264 Resp: 223942

Ion Ratio Lower Upper

264 100

260 24.9 19.7 29.5

265 22.0 17.5 26.3

