

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE090216\  
 Data File : BE092350.D  
 Acq On : 2 Sep 2016 19:14  
 Operator : UM/SJ  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 ICVBE090216

Quant Time: Sep 02 23:46:12 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE090216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 02 19:34:51 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.19  | 152  | 9467     | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.95 | 136  | 45960    | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.82 | 164  | 28285    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 17.58 | 188  | 68529    | 5.00 | ng    | 0.02     |
| 24) Chrysene-d12          | 21.75 | 240  | 101409   | 5.00 | ng    | 0.00     |
| 31) Perylene-d12          | 24.11 | 264  | 93726    | 5.00 | ng    | 0.02     |

## System Monitoring Compounds

|                          |       |     |      |      |    |      |
|--------------------------|-------|-----|------|------|----|------|
| 4) 2-Fluorophenol        | 5.68  | 112 | 873  | 0.39 | ng | 0.00 |
| 5) Phenol-d6             | 7.36  | 99  | 1128 | 0.38 | ng | 0.00 |
| 8) Nitrobenzene-d5       | 9.36  | 82  | 1237 | 0.37 | ng | 0.00 |
| 13) 2,4,6-Tribromophenol | 16.32 | 330 | 348  | 0.40 | ng | 0.00 |
| 14) 2-Fluorobiphenyl     | 13.44 | 172 | 3600 | 0.41 | ng | 0.00 |
| 26) Terphenyl-d14        | 20.17 | 244 | 5596 | 0.37 | ng | 0.00 |

## Target Compounds

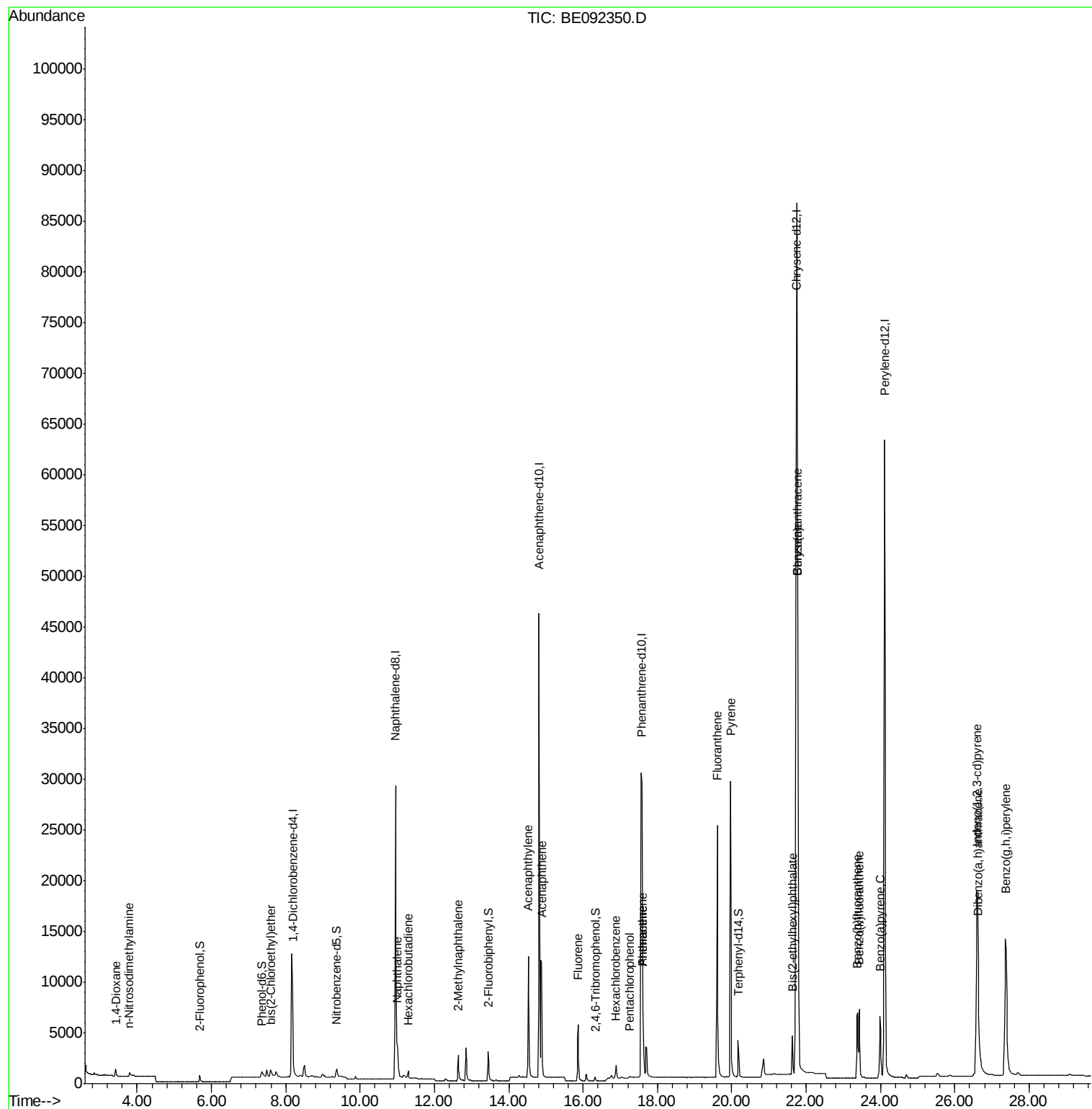
|                                |       |     |       |      |    | Qvalue |
|--------------------------------|-------|-----|-------|------|----|--------|
| 2) 1,4-Dioxane                 | 3.42  | 88  | 559   | 0.39 | ng | 99     |
| 3) n-Nitrosodimethylamine      | 3.79  | 42  | 536   | 0.43 | ng | # 2    |
| 6) bis(2-Chloroethyl)ether     | 7.59  | 93  | 1015  | 0.42 | ng | # 83   |
| 9) Naphthalene                 | 11.01 | 128 | 4296  | 0.42 | ng | 99     |
| 10) Hexachlorobutadiene        | 11.30 | 225 | 678   | 0.42 | ng | 100    |
| 11) 2-Methylnaphthalene        | 12.64 | 142 | 2761  | 0.41 | ng | 99     |
| 15) Acenaphthylene             | 14.53 | 152 | 20154 | 0.41 | ng | 100    |
| 16) Acenaphthene               | 14.88 | 154 | 3276  | 0.42 | ng | 98     |
| 17) Fluorene                   | 15.87 | 166 | 4105  | 0.42 | ng | 100    |
| 19) Hexachlorobenzene          | 16.89 | 284 | 1335  | 0.41 | ng | # 65   |
| 20) Pentachlorophenol          | 17.26 | 266 | 260   | 0.42 | ng | 98     |
| 21) Phenanthrene               | 17.60 | 178 | 7562  | 0.39 | ng | # 95   |
| 22) Anthracene                 | 17.60 | 178 | 7453  | 0.43 | ng | 98     |
| 23) Fluoranthene               | 19.61 | 202 | 34975 | 0.42 | ng | 100    |
| 25) Pyrene                     | 19.97 | 202 | 38204 | 0.39 | ng | 100    |
| 27) Benzo(a)anthracene         | 21.77 | 228 | 88163 | 0.81 | ng | 95     |
| 28) Chrysene                   | 21.77 | 228 | 88754 | 0.78 | ng | # 84   |
| 29) Bis(2-ethylhexyl)phthalate | 21.63 | 149 | 4665  | 0.32 | ng | # 74   |
| 30) Indeno(1,2,3-cd)pyrene     | 26.60 | 276 | 44303 | 0.38 | ng | 98     |
| 32) Benzo(b)fluoranthene       | 23.38 | 252 | 10853 | 0.45 | ng | 97     |
| 33) Benzo(k)fluoranthene       | 23.43 | 252 | 9767  | 0.38 | ng | 97     |
| 34) Benzo(a)pyrene             | 24.00 | 252 | 9855  | 0.42 | ng | 99     |
| 35) Dibenzo(a,h)anthracene     | 26.63 | 278 | 8989  | 0.41 | ng | 98     |
| 36) Benzo(g,h,i)perylene       | 27.37 | 276 | 37552 | 0.41 | ng | 99     |

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

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Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE090216.M  
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QLast Update : Fri Sep 02 19:34:51 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.19 min Scan# 577

Delta R.T. -0.00 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

Instrument :

BNA\_E

ClientSampleId :

ICVBE090216

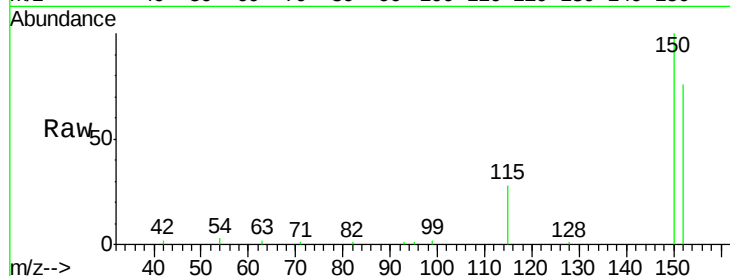
Tgt Ion: 152 Resp: 9467

Ion Ratio Lower Upper

152 100

150 131.9 106.0 159.0

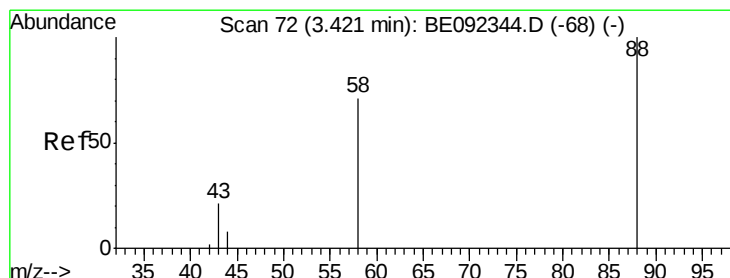
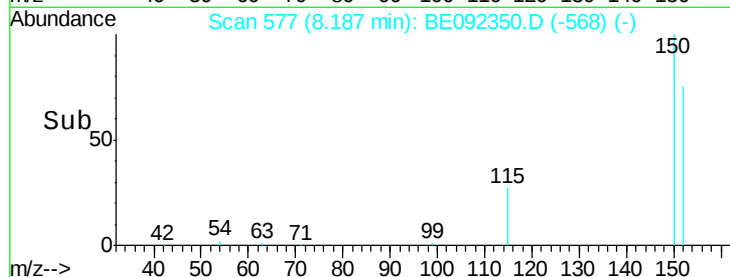
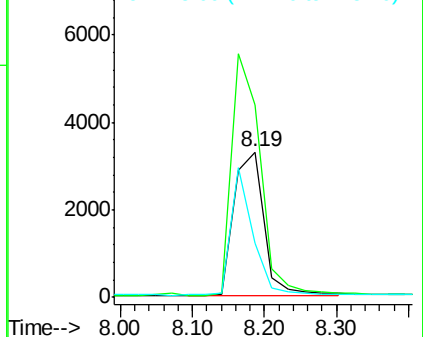
115 37.5 31.2 46.8



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: 0.39 ng

RT: 3.42 min Scan# 72

Delta R.T. -0.00 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

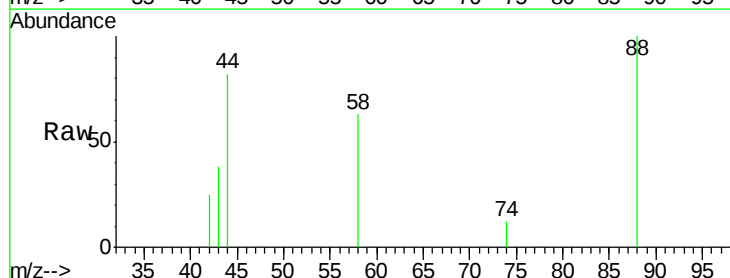
Tgt Ion: 88 Resp: 559

Ion Ratio Lower Upper

88 100

58 80.5 63.6 95.4

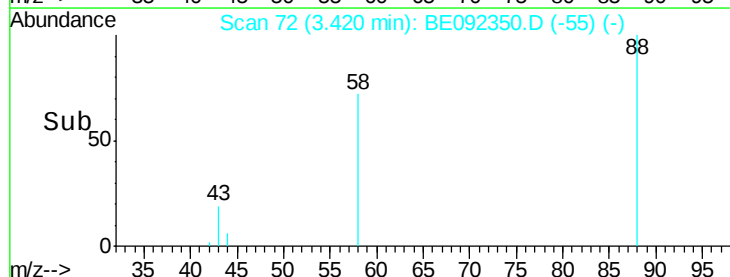
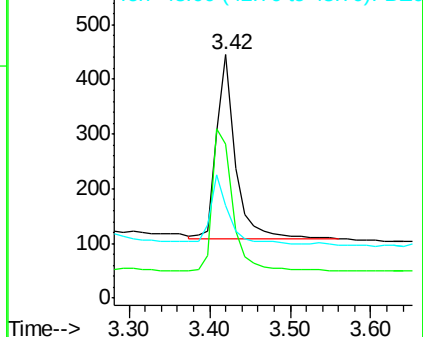
43 34.0 28.0 42.0

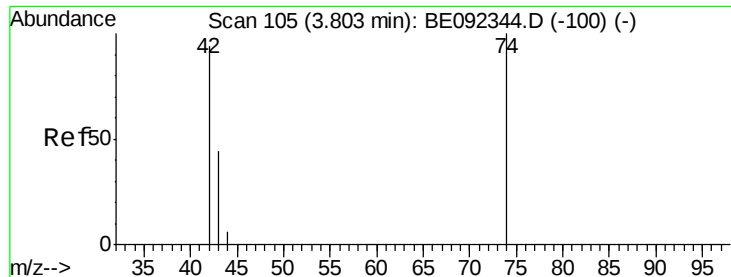


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.43 ng

RT: 3.79 min Scan# 104

Delta R.T. -0.01 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

Instrument :

BNA\_E

ClientSampleId :

ICVBE090216

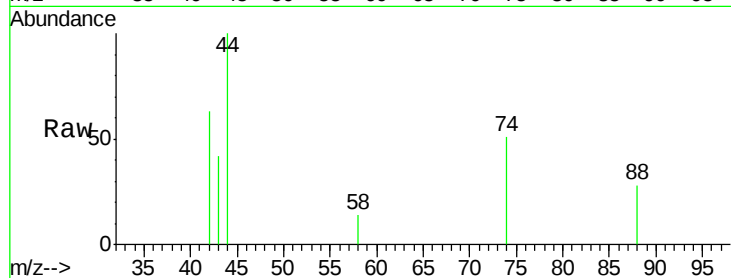
Tgt Ion: 42 Resp: 536

Ion Ratio Lower Upper

42 100

74 0.0 86.0 129.0#

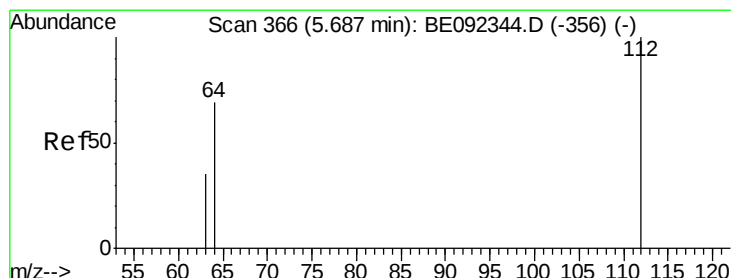
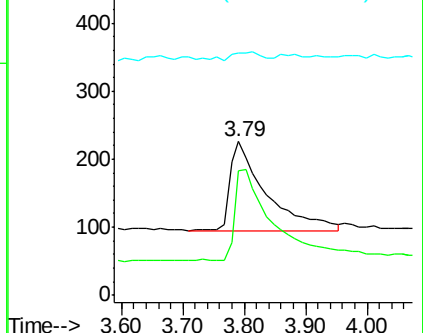
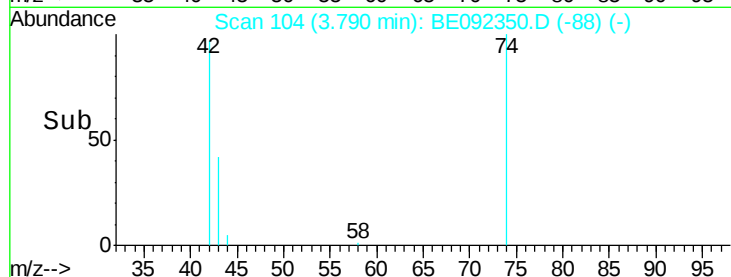
44 0.0 5.1 7.7#



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: 0.39 ng

RT: 5.68 min Scan# 365

Delta R.T. -0.01 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

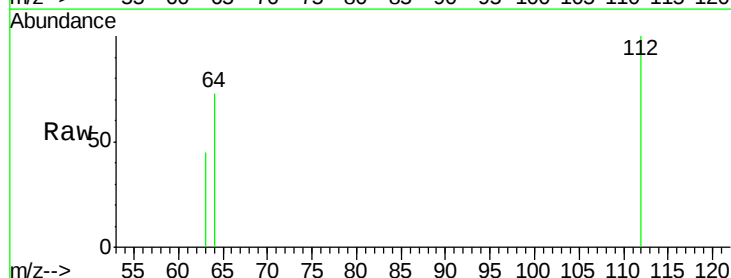
Tgt Ion: 112 Resp: 873

Ion Ratio Lower Upper

112 100

64 67.7 53.5 80.3

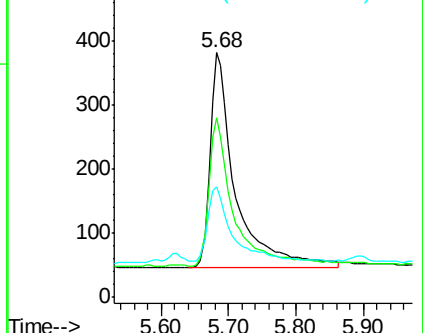
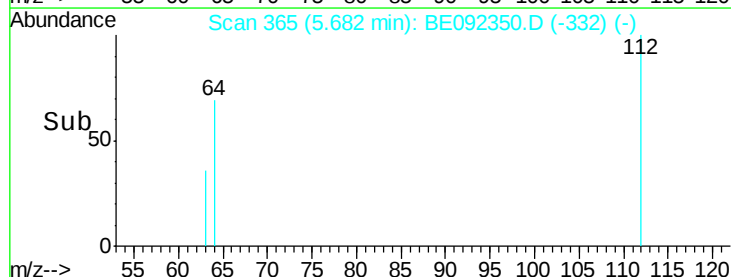
63 34.5 27.9 41.9

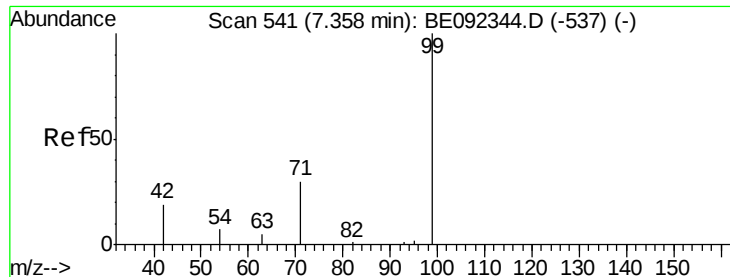


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.38 ng

RT: 7.36 min Scan# 541

Delta R.T. -0.00 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

Instrument :

BNA\_E

ClientSampleId :

ICVBE090216

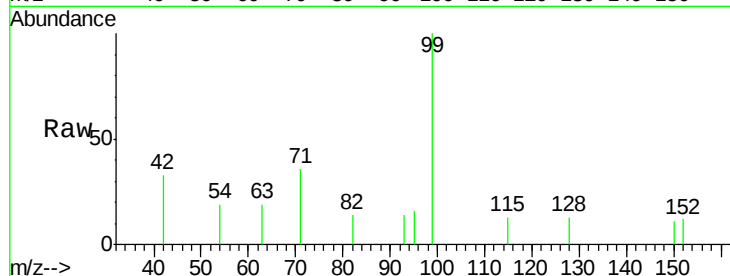
Tgt Ion: 99 Resp: 1128

Ion Ratio Lower Upper

99 100

42 0.0 16.0 24.0#

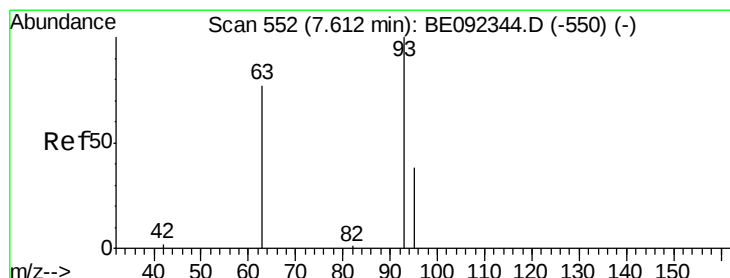
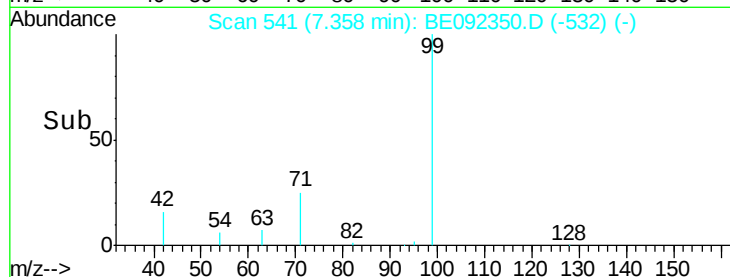
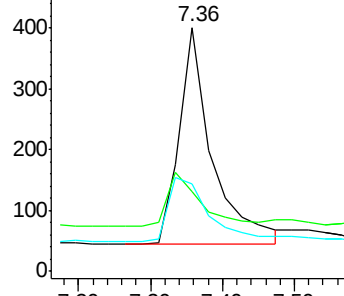
71 0.0 30.6 45.8#



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

bis(2-Chloroethyl)ether

Concen: 0.42 ng

RT: 7.59 min Scan# 551

Delta R.T. -0.02 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

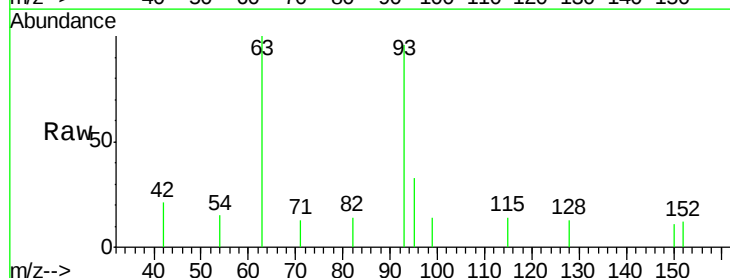
Tgt Ion: 93 Resp: 1015

Ion Ratio Lower Upper

93 100

63 85.9 71.6 107.4

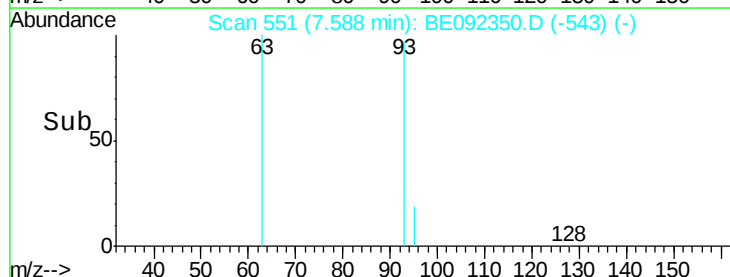
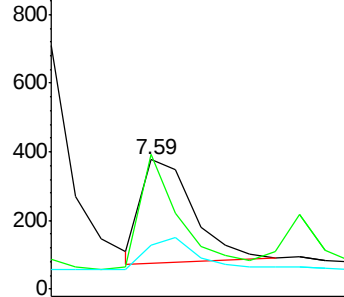
95 0.0 24.0 36.0#

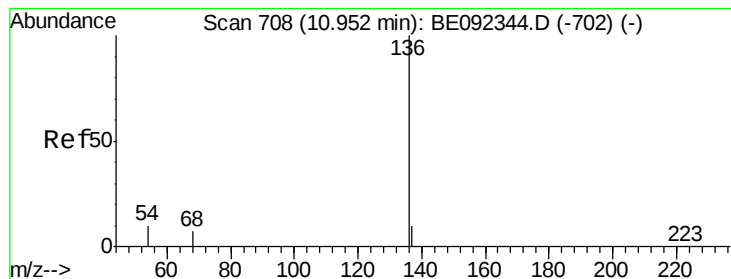


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.95 min Scan# 708

Delta R.T. -0.00 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

Instrument :

BNA\_E

ClientSampleId :

ICVBE090216

Tgt Ion: 136 Resp: 45960

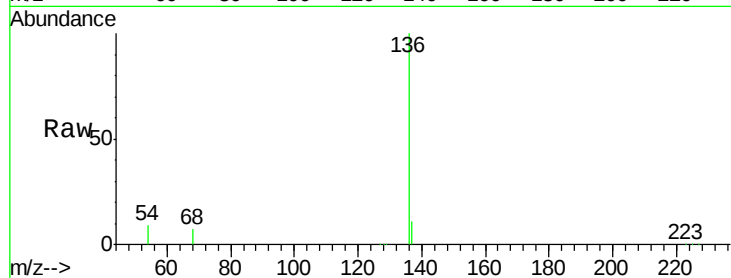
Ion Ratio Lower Upper

136 100

137 10.8 8.2 12.4

54 9.2 9.6 14.4#

68 6.7 6.7 10.1#

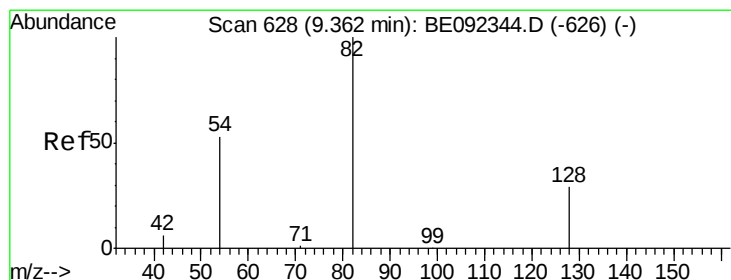
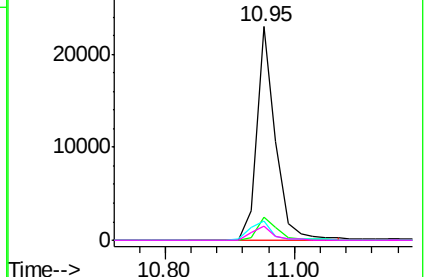
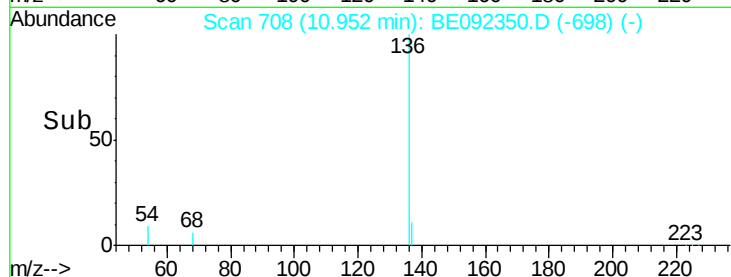


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.37 ng

RT: 9.36 min Scan# 628

Delta R.T. -0.00 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

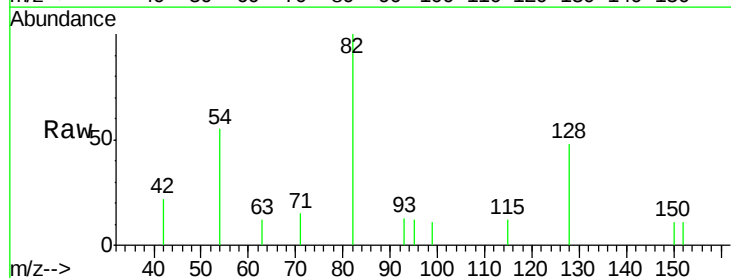
Tgt Ion: 82 Resp: 1237

Ion Ratio Lower Upper

82 100

128 48.0 39.0 58.4

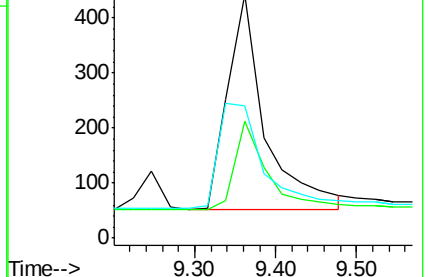
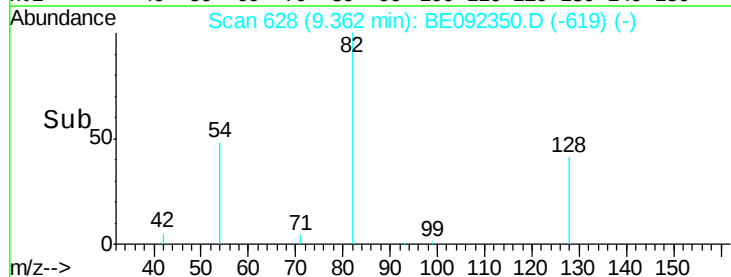
54 54.5 44.8 67.2

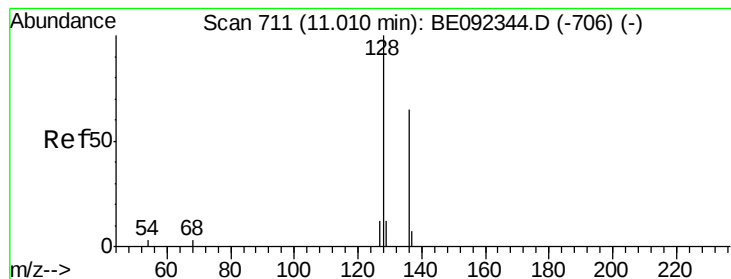


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.42 ng

RT: 11.01 min Scan# 711

Delta R.T. -0.00 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

Instrument :

BNA\_E

ClientSampleId :

ICVBE090216

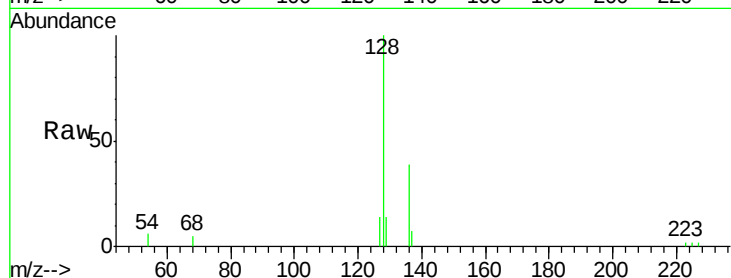
Tgt Ion:128 Resp: 4296

Ion Ratio Lower Upper

128 100

129 14.0 11.2 16.8

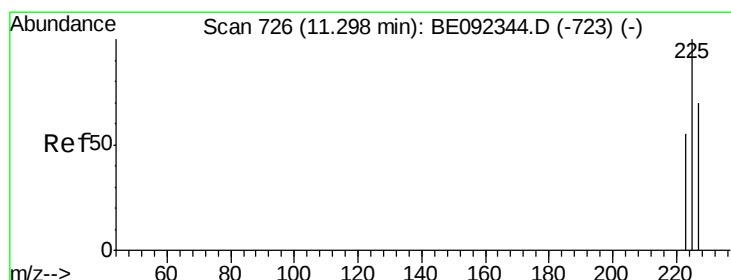
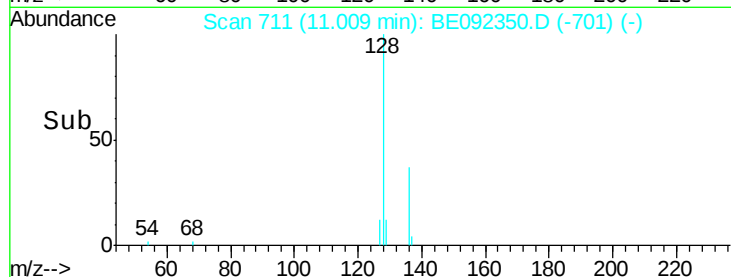
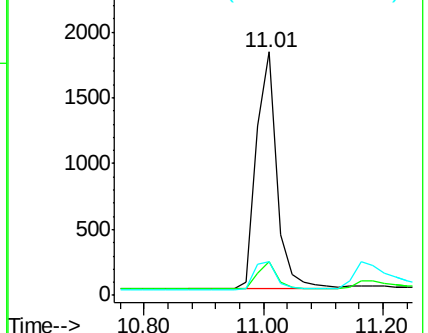
127 13.7 11.6 17.4



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



#10

Hexachlorobutadiene

Concen: 0.42 ng

RT: 11.30 min Scan# 726

Delta R.T. -0.00 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

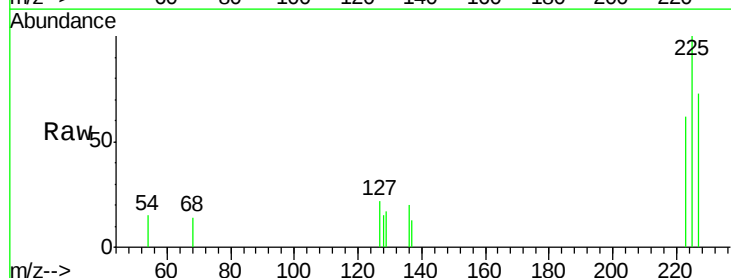
Tgt Ion:225 Resp: 678

Ion Ratio Lower Upper

225 100

223 63.6 50.6 76.0

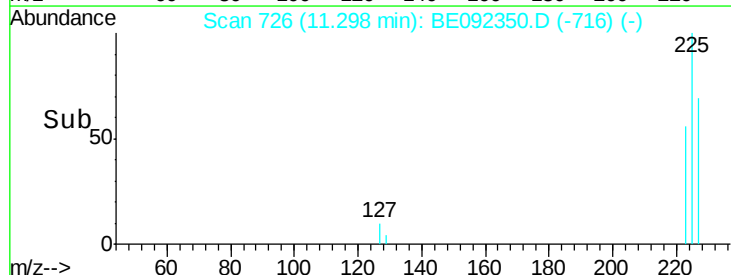
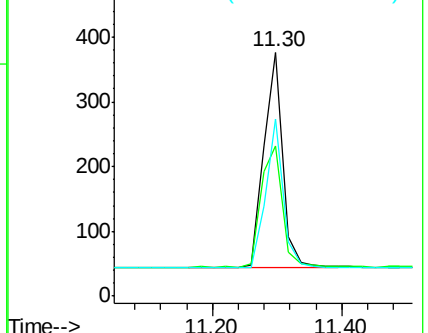
227 64.2 51.4 77.0



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





#11

2-Methylnaphthalene

Concen: 0.41 ng

RT: 12.64 min Scan# 815

Delta R.T. -0.01 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

Instrument :

BNA\_E

ClientSampleId :

ICVBE090216

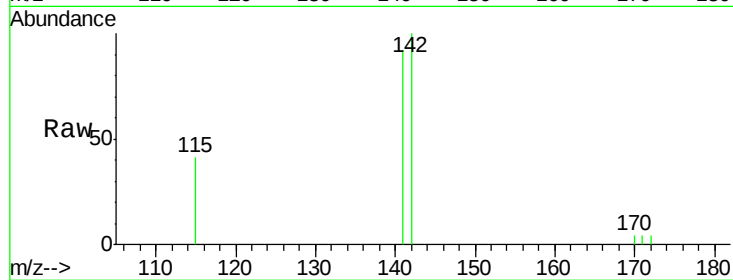
Tgt Ion:142 Resp: 2761

Ion Ratio Lower Upper

142 100

141 92.2 73.7 110.5

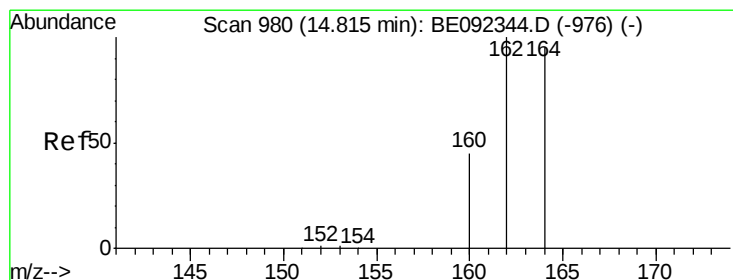
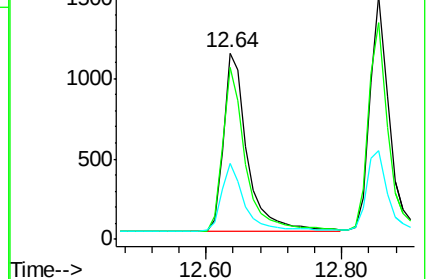
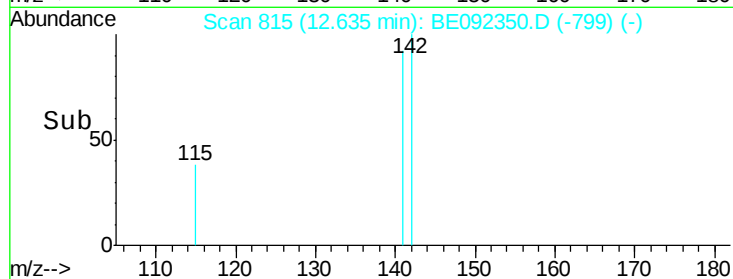
115 40.6 34.0 51.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.82 min Scan# 980

Delta R.T. 0.00 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

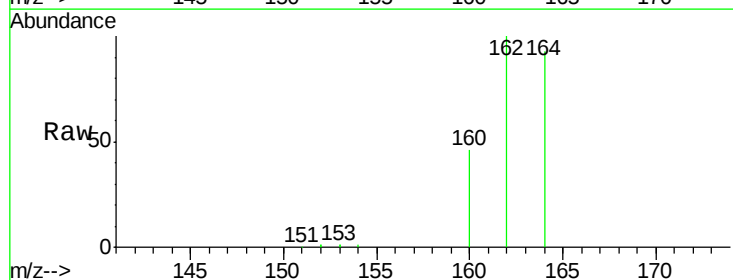
Tgt Ion:164 Resp: 28285

Ion Ratio Lower Upper

164 100

162 108.1 71.4 107.0#

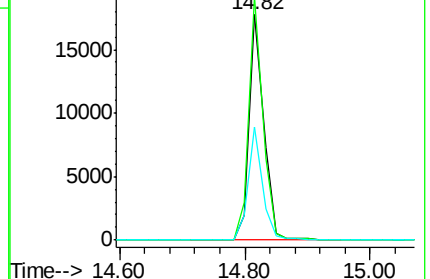
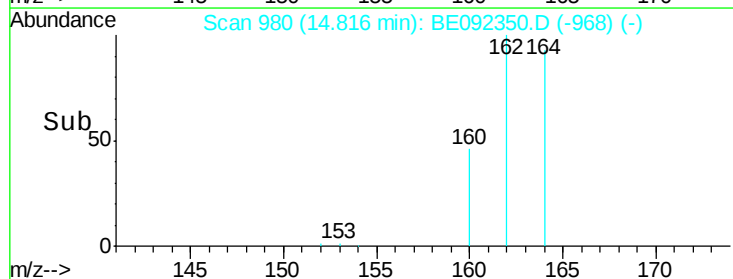
160 50.1 27.4 41.2#

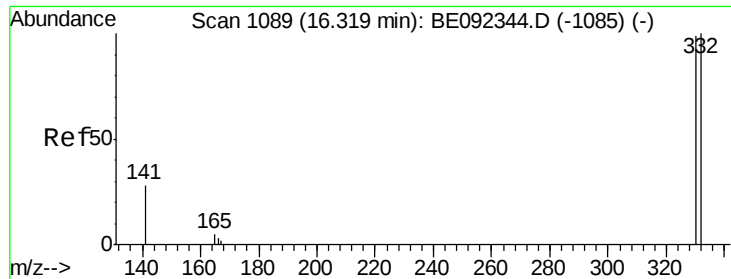


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

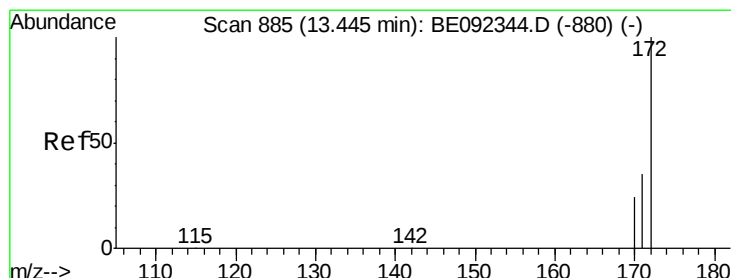
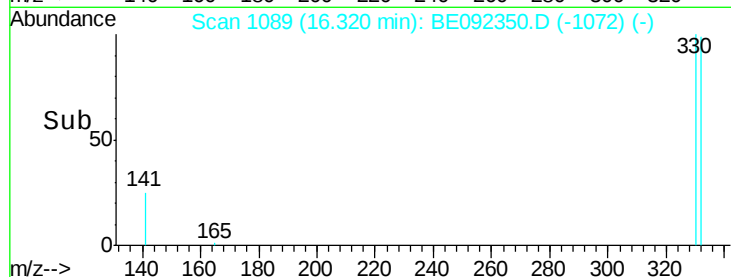
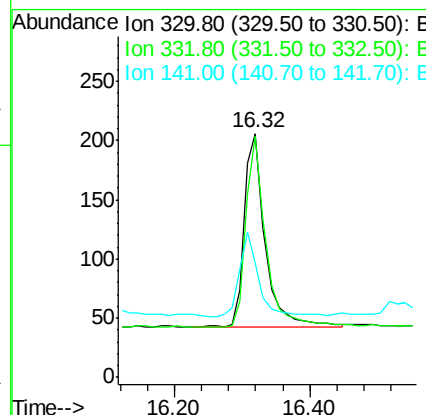
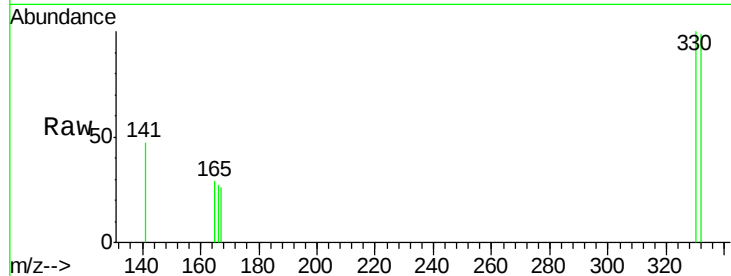




#13  
 2,4,6-Tribromophenol  
 Concen: 0.40 ng  
 RT: 16.32 min Scan# 1089  
 Delta R.T. 0.00 min  
 Lab File: BE092350.D  
 Acq: 2 Sep 2016 19:14

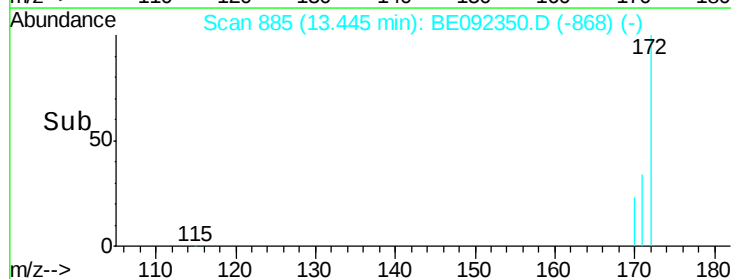
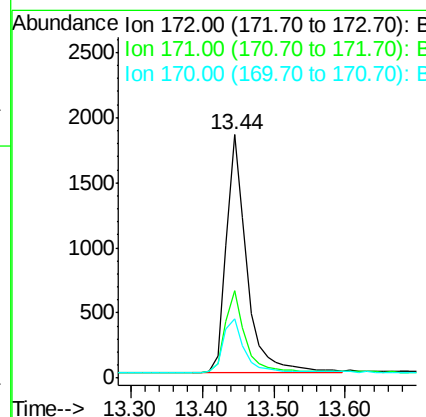
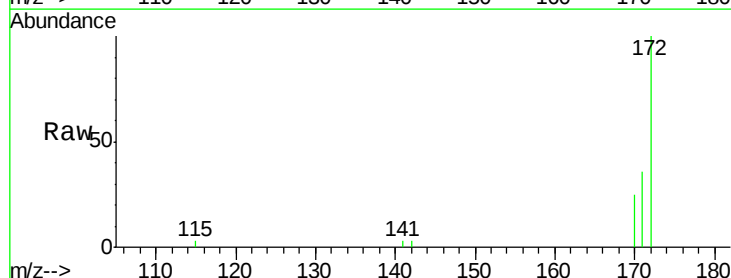
Instrument :  
 BNA\_E  
 ClientSampleId :  
 ICVBE090216

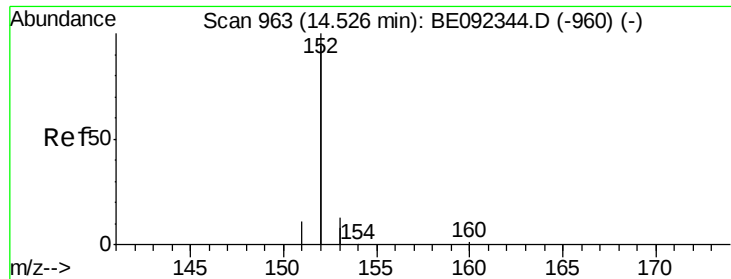
Tgt Ion:330 Resp: 348  
 Ion Ratio Lower Upper  
 330 100  
 332 94.3 75.4 113.0  
 141 41.4 31.0 46.6



#14  
 2-Fluorobiphenyl  
 Concen: 0.41 ng  
 RT: 13.44 min Scan# 885  
 Delta R.T. -0.00 min  
 Lab File: BE092350.D  
 Acq: 2 Sep 2016 19:14

Tgt Ion:172 Resp: 3600  
 Ion Ratio Lower Upper  
 172 100  
 171 36.0 30.1 45.1  
 170 24.6 21.8 32.6





#15

Acenaphthylene

Concen: 0.41 ng

RT: 14.53 min Scan# 963

Delta R.T. 0.00 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

Instrument :

BNA\_E

ClientSampleId :

ICVBE090216

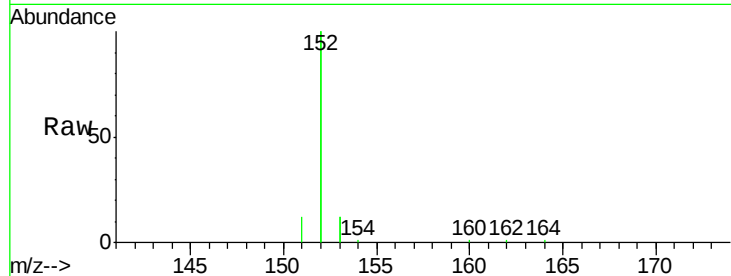
Tgt Ion:152 Resp: 20154

Ion Ratio Lower Upper

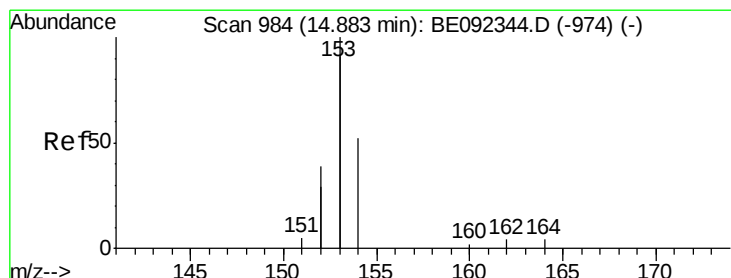
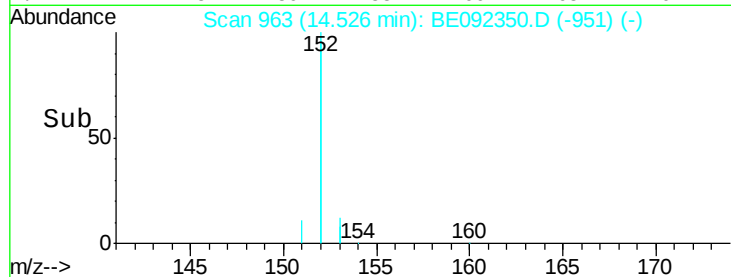
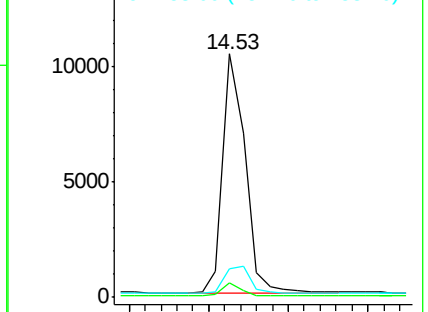
152 100

151 4.9 3.9 5.9

153 12.9 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



#16

Acenaphthene

Concen: 0.42 ng

RT: 14.88 min Scan# 984

Delta R.T. 0.00 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

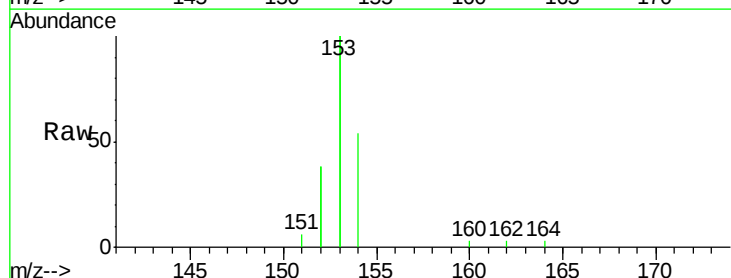
Tgt Ion:154 Resp: 3276

Ion Ratio Lower Upper

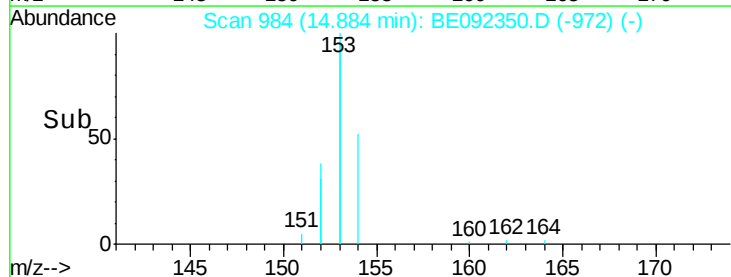
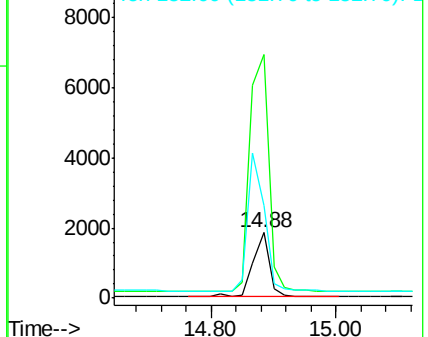
154 100

153 433.4 350.8 526.2

152 218.9 171.1 256.7



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E





#17

Fluorene

Concen: 0.42 ng

RT: 15.87 min Scan# 1050

Delta R.T. 0.00 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

Instrument :

BNA\_E

ClientSampleId :

ICVBE090216

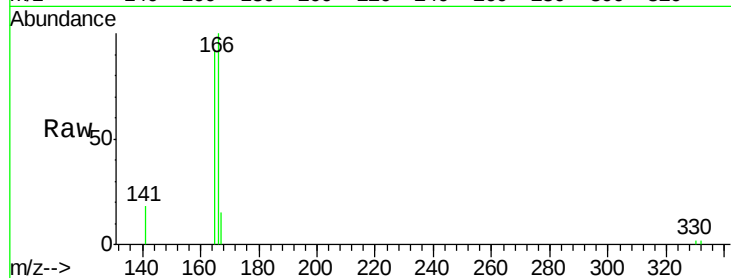
Tgt Ion:166 Resp: 4105

Ion Ratio Lower Upper

166 100

165 97.7 78.2 117.4

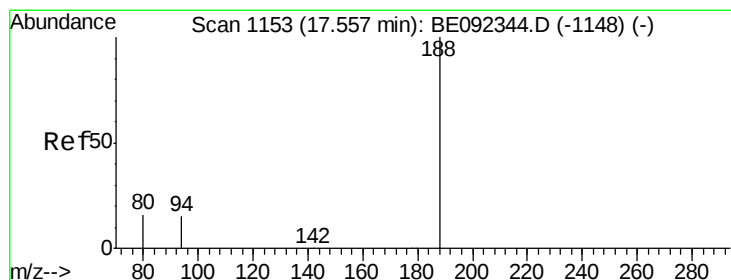
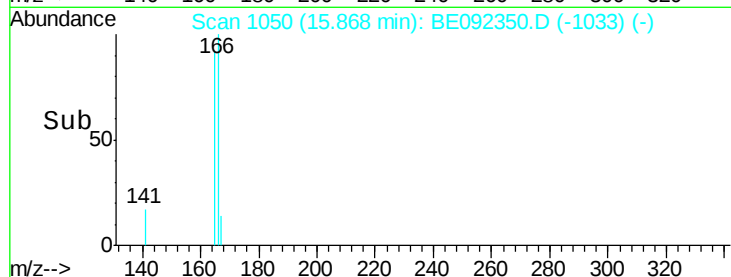
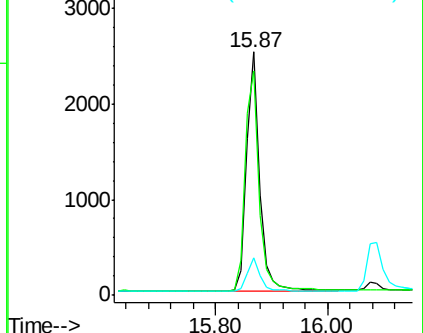
167 13.4 11.0 16.4



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.58 min Scan# 1154

Delta R.T. 0.02 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

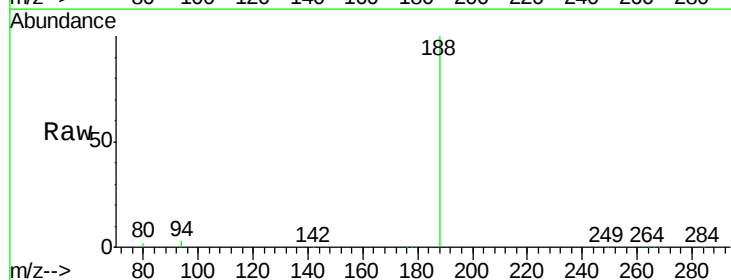
Tgt Ion:188 Resp: 68529

Ion Ratio Lower Upper

188 100

94 2.9 3.2 4.8#

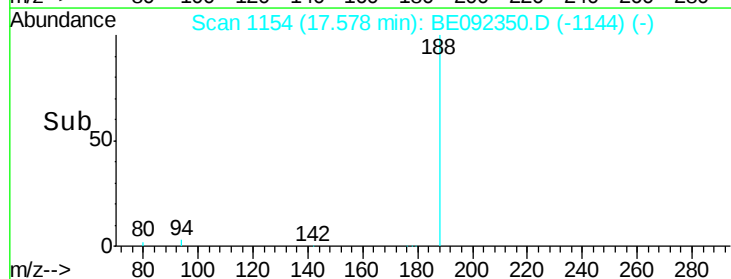
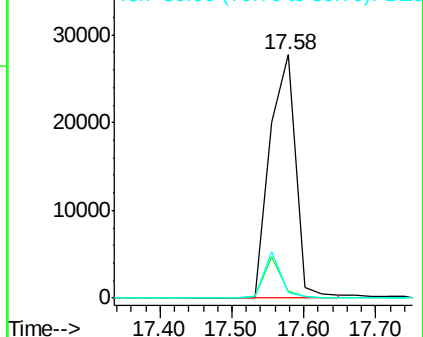
80 2.3 2.6 3.8#



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

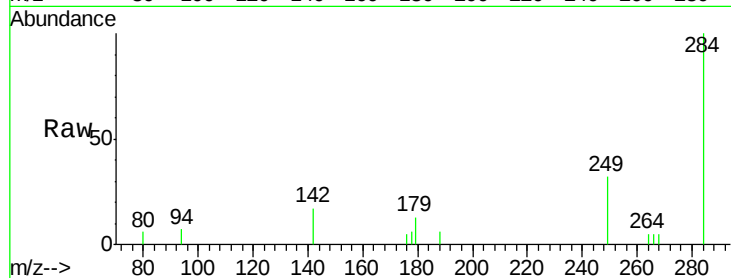




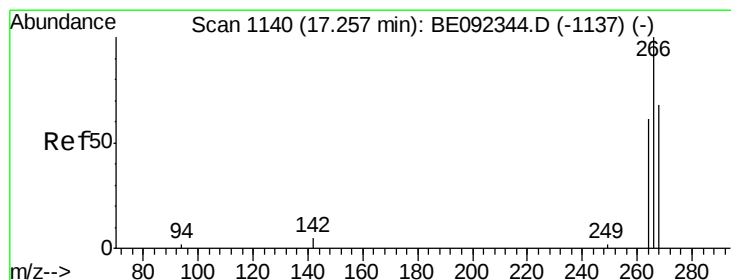
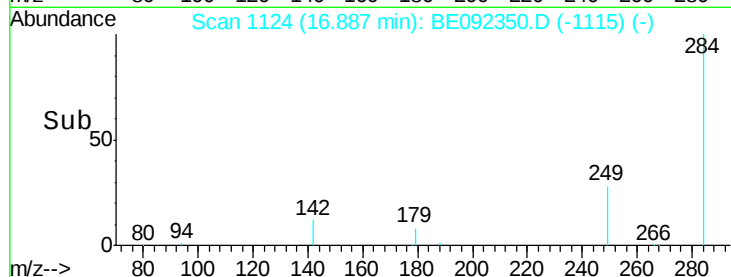
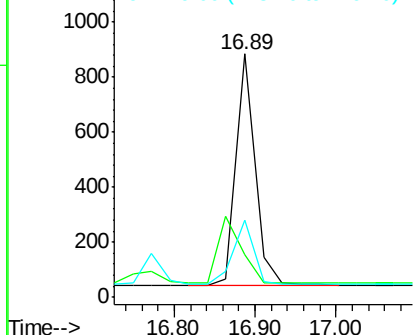
#19  
Hexachlorobenzene  
Concen: 0.41 ng  
RT: 16.89 min Scan# 1124  
Delta R.T. -0.00 min  
Lab File: BE092350.D  
Acq: 2 Sep 2016 19:14

Instrument :  
BNA\_E  
ClientSampleId :  
ICVBE090216

Tgt Ion: 284 Resp: 1335  
Ion Ratio Lower Upper  
284 100  
142 0.0 29.1 43.7#  
249 30.9 27.9 41.9

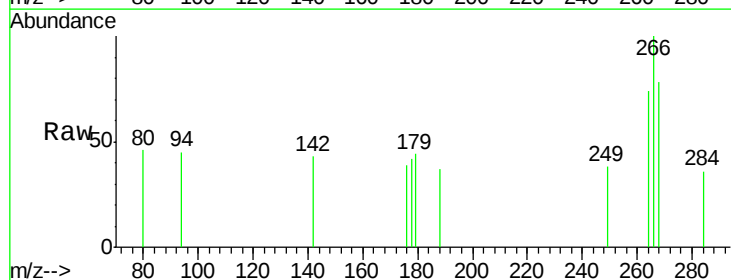


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

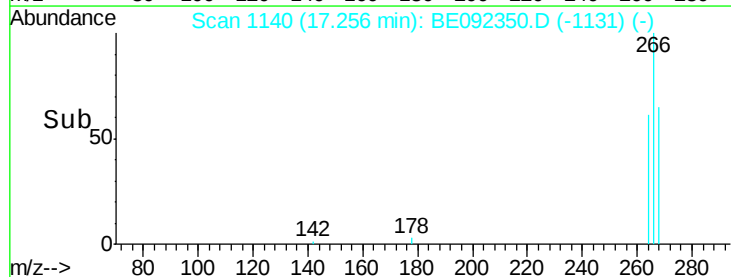
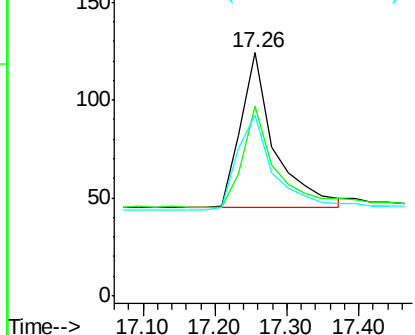


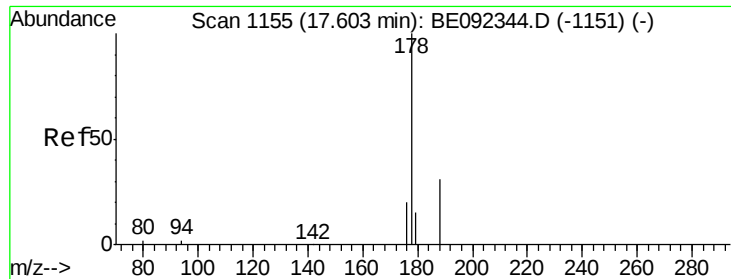
#20  
Pentachlorophenol  
Concen: 0.42 ng  
RT: 17.26 min Scan# 1140  
Delta R.T. -0.00 min  
Lab File: BE092350.D  
Acq: 2 Sep 2016 19:14

Tgt Ion: 266 Resp: 260  
Ion Ratio Lower Upper  
266 100  
268 78.2 62.5 93.7  
264 74.2 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





#21

Phenanthrene

Concen: 0.39 ng

RT: 17.60 min Scan# 1155

Delta R.T. -0.00 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

Instrument :

BNA\_E

ClientSampleId :

ICVBE090216

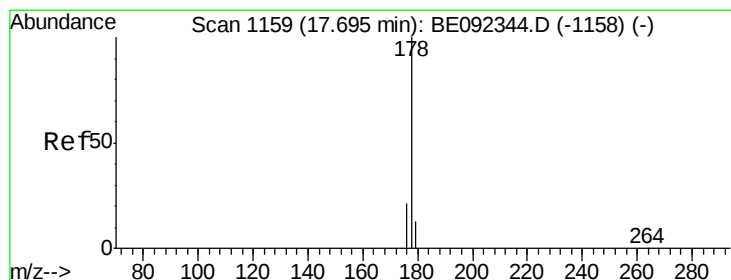
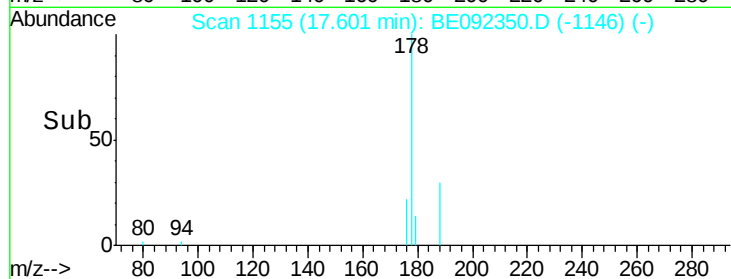
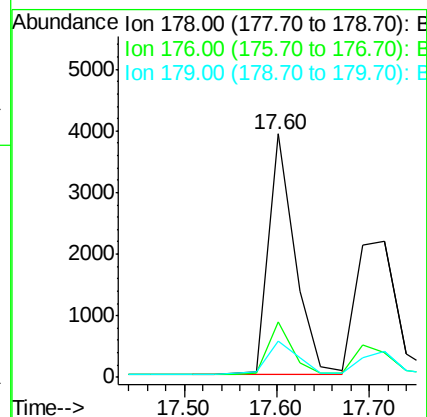
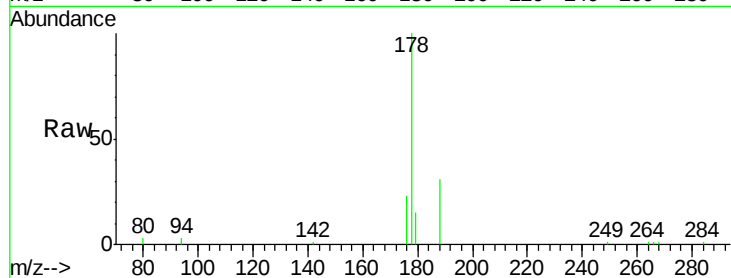
Tgt Ion:178 Resp: 7562

Ion Ratio Lower Upper

178 100

176 19.9 15.8 23.8

179 15.5 16.0 24.0#



#22

Anthracene

Concen: 0.43 ng

RT: 17.60 min Scan# 1155

Delta R.T. -0.09 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

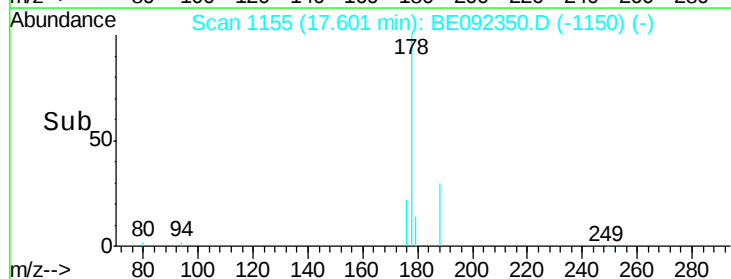
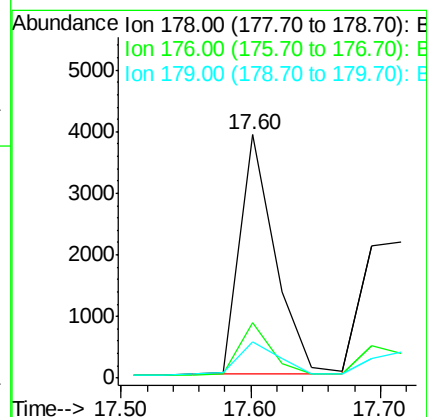
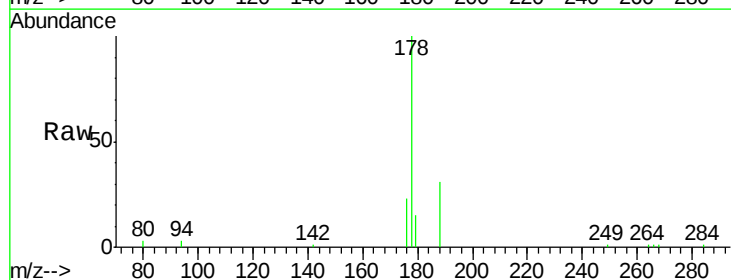
Tgt Ion:178 Resp: 7453

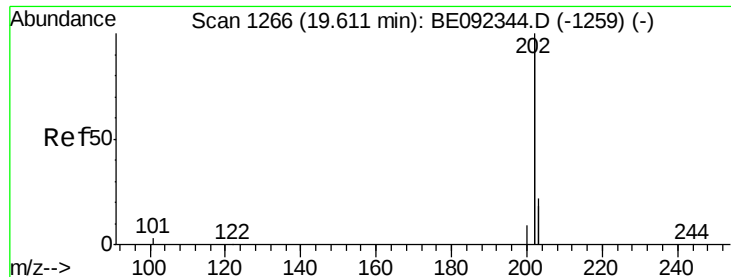
Ion Ratio Lower Upper

178 100

176 20.1 15.0 22.4

179 14.7 12.2 18.2

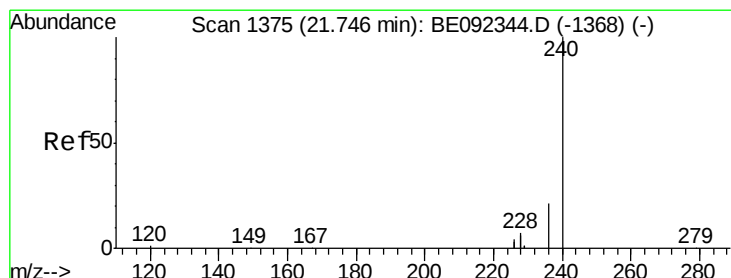
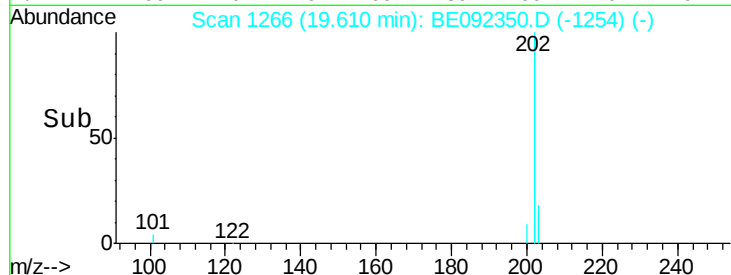
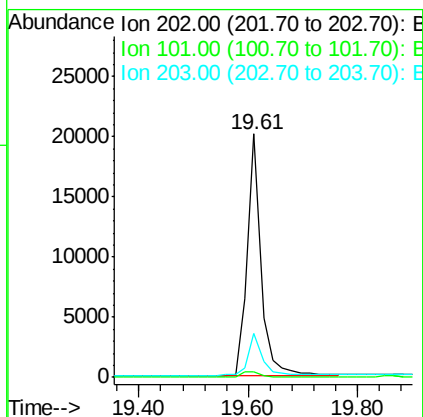
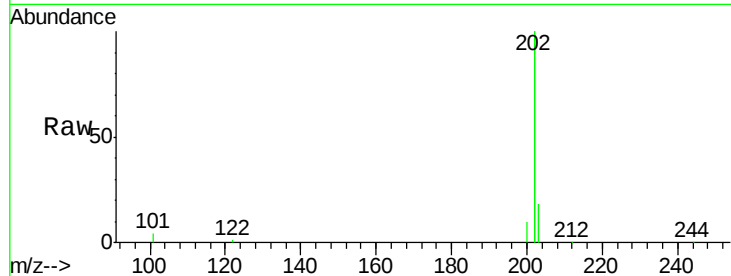




#23  
Fluoranthene  
Concen: 0.42 ng  
RT: 19.61 min Scan# 1266  
Delta R.T. -0.00 min  
Lab File: BE092350.D  
Acq: 2 Sep 2016 19:14

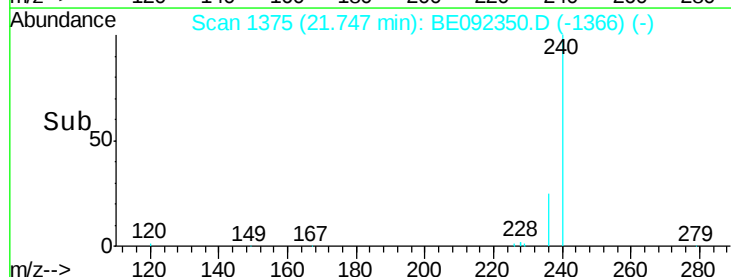
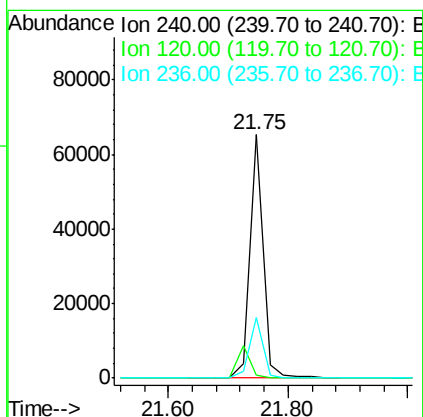
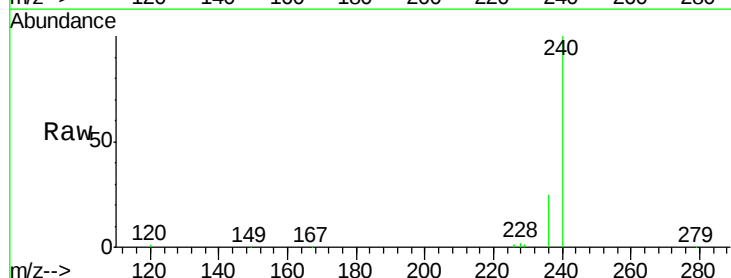
Instrument :  
BNA\_E  
ClientSampleId :  
ICVBE090216

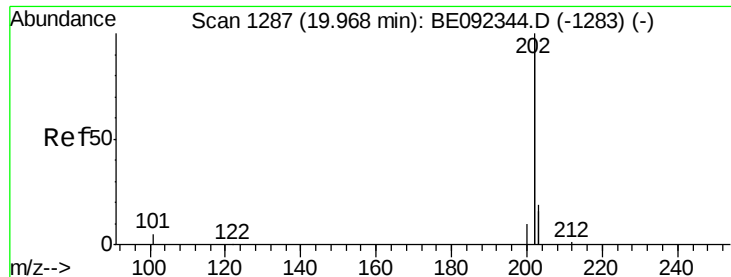
Tgt Ion: 202 Resp: 34975  
Ion Ratio Lower Upper  
202 100  
101 2.8 2.2 3.4  
203 17.1 13.7 20.5



#24  
Chrysene-d12  
Concen: 5.00 ng  
RT: 21.75 min Scan# 1375  
Delta R.T. 0.00 min  
Lab File: BE092350.D  
Acq: 2 Sep 2016 19:14

Tgt Ion: 240 Resp: 101409  
Ion Ratio Lower Upper  
240 100  
120 1.1 2.6 4.0#  
236 24.9 24.6 37.0

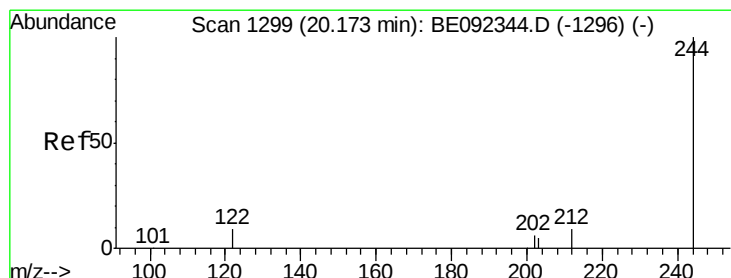
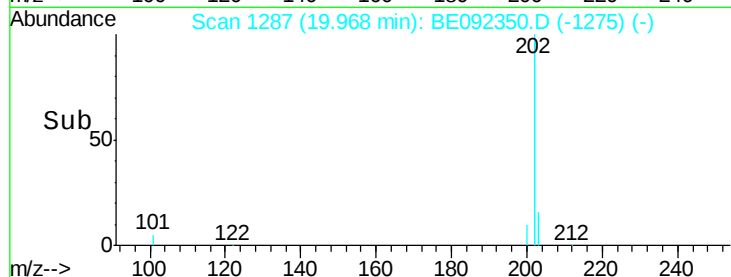
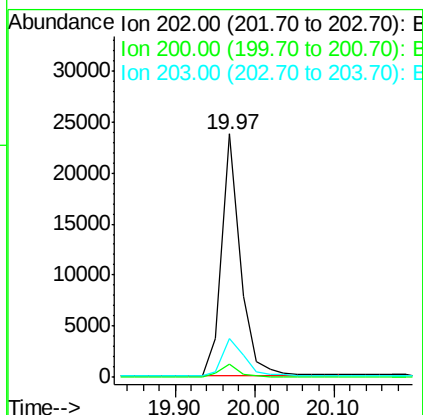
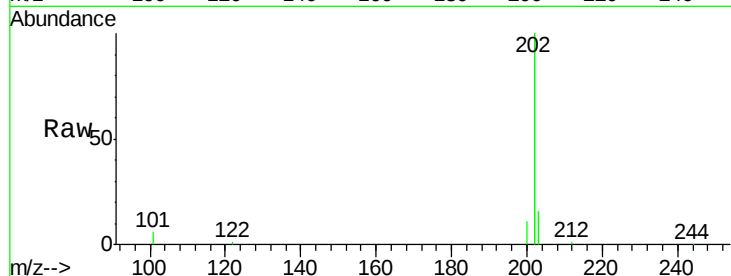




#25  
 Pyrene  
 Concen: 0.39 ng  
 RT: 19.97 min Scan# 1287  
 Delta R.T. -0.00 min  
 Lab File: BE092350.D  
 Acq: 2 Sep 2016 19:14

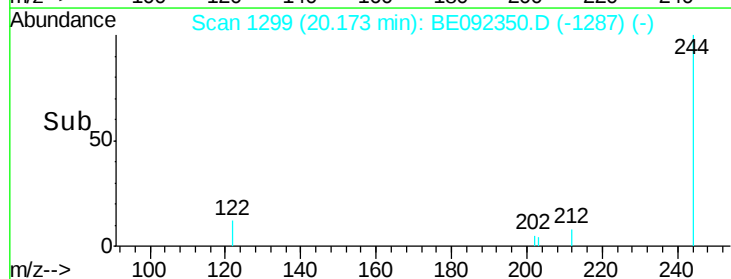
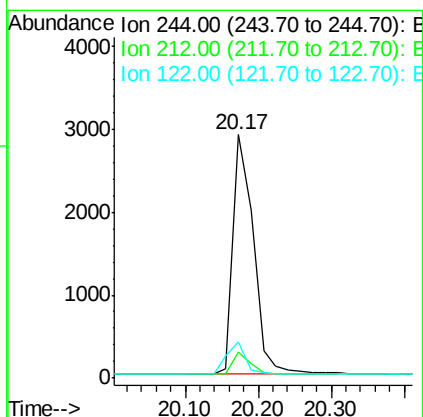
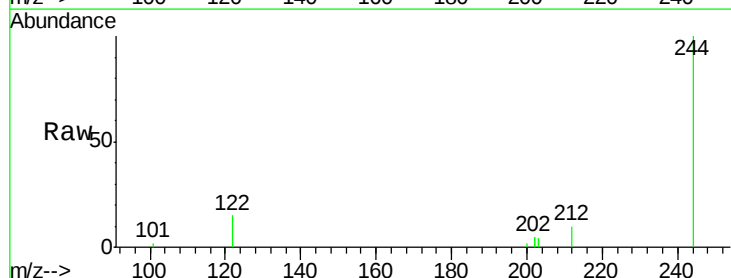
Instrument :  
 BNA\_E  
 ClientSampleId :  
 ICVBE090216

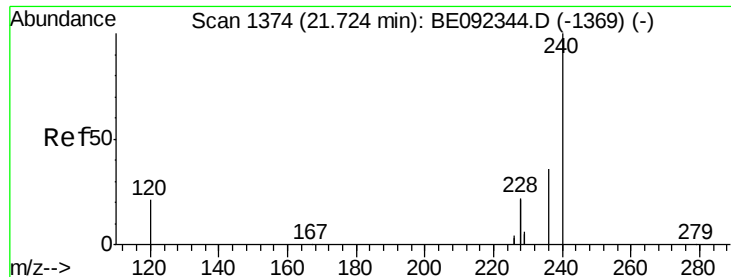
Tgt Ion: 202 Resp: 38204  
 Ion Ratio Lower Upper  
 202 100  
 200 5.3 4.2 6.4  
 203 17.2 13.9 20.9



#26  
 Terphenyl-d14  
 Concen: 0.37 ng  
 RT: 20.17 min Scan# 1299  
 Delta R.T. -0.00 min  
 Lab File: BE092350.D  
 Acq: 2 Sep 2016 19:14

Tgt Ion: 244 Resp: 5596  
 Ion Ratio Lower Upper  
 244 100  
 212 10.5 6.7 10.1#  
 122 14.7 3.6 5.4#

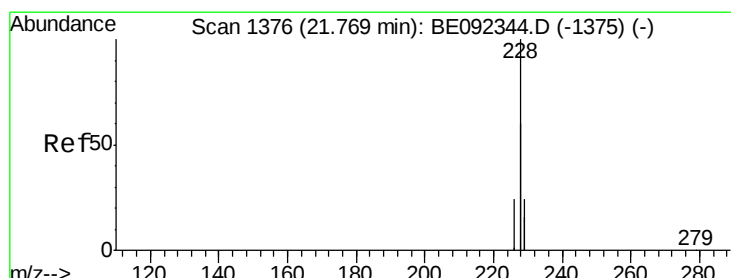
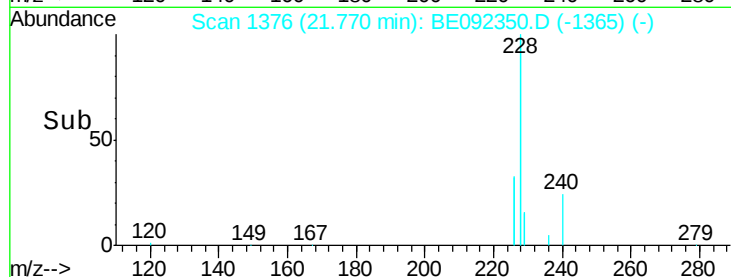
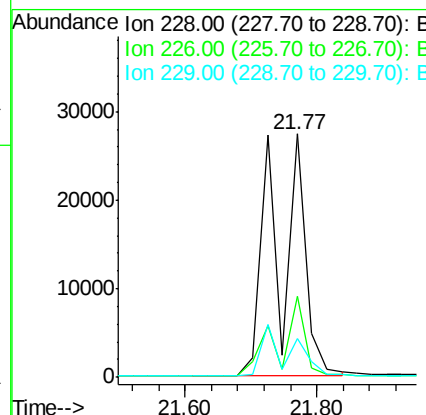
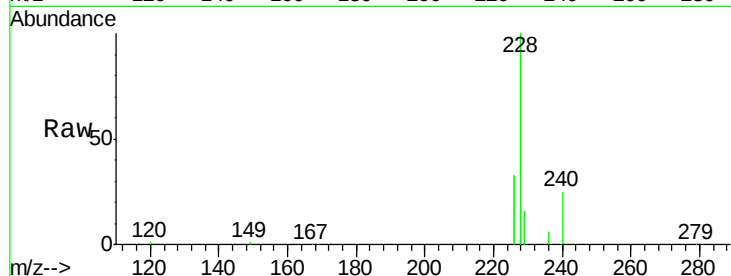




#27  
Benzo(a)anthracene  
Concen: 0.81 ng  
RT: 21.77 min Scan# 1376  
Delta R.T. 0.05 min  
Lab File: BE092350.D  
Acq: 2 Sep 2016 19:14

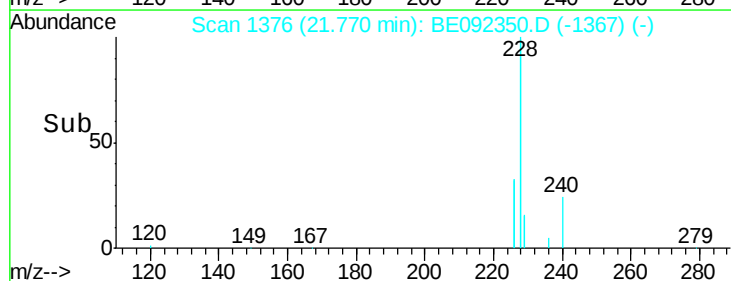
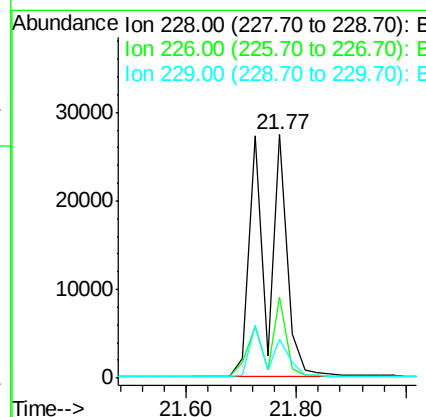
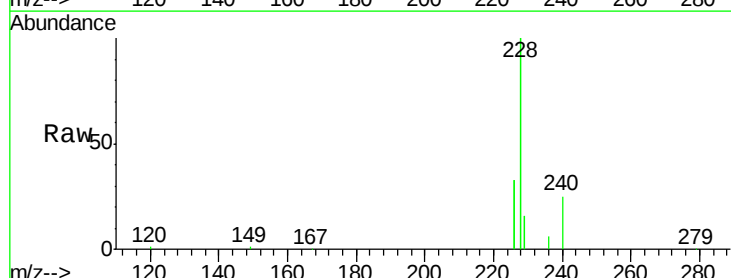
Instrument :  
BNA\_E  
ClientSampleId :  
ICVBE090216

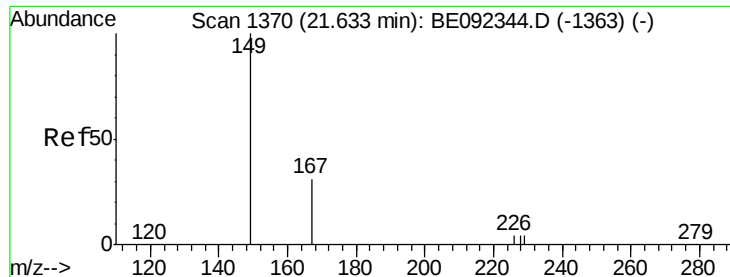
Tgt Ion:228 Resp: 88163  
Ion Ratio Lower Upper  
228 100  
226 33.5 23.6 35.4  
229 16.0 13.3 19.9



#28  
Chrysene  
Concen: 0.78 ng  
RT: 21.77 min Scan# 1376  
Delta R.T. 0.00 min  
Lab File: BE092350.D  
Acq: 2 Sep 2016 19:14

Tgt Ion:228 Resp: 88754  
Ion Ratio Lower Upper  
228 100  
226 33.5 36.3 54.5#  
229 16.0 10.6 16.0#





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.32 ng

RT: 21.63 min Scan# 1370

Delta R.T. 0.00 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

Instrument :

BNA\_E

ClientSampleId :

ICVBE090216

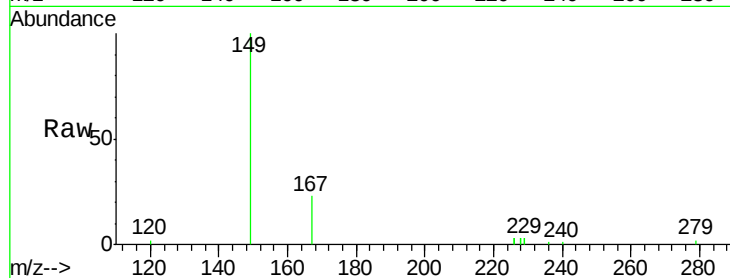
Tgt Ion:149 Resp: 4665

Ion Ratio Lower Upper

149 100

167 23.8 16.0 24.0

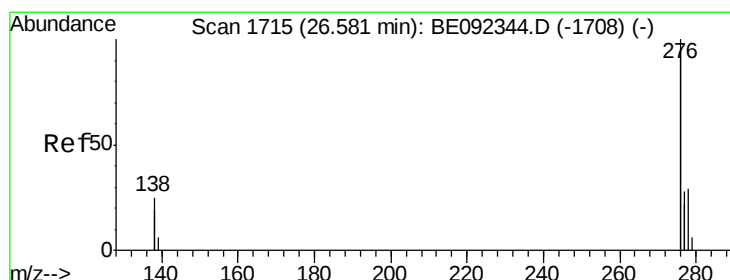
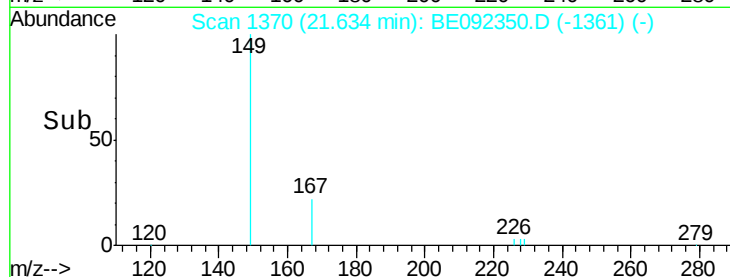
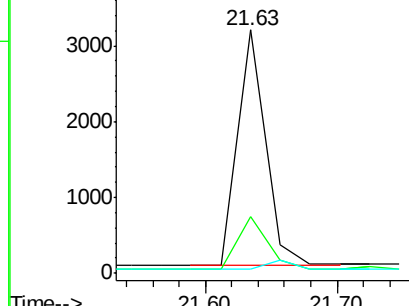
279 0.0 16.0 24.0#



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: 0.38 ng

RT: 26.60 min Scan# 1716

Delta R.T. 0.02 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

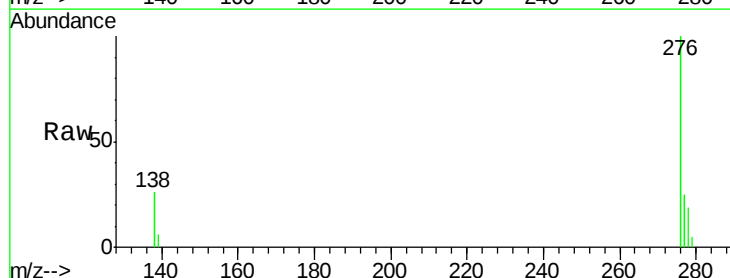
Tgt Ion:276 Resp: 44303

Ion Ratio Lower Upper

276 100

138 27.4 20.3 30.5

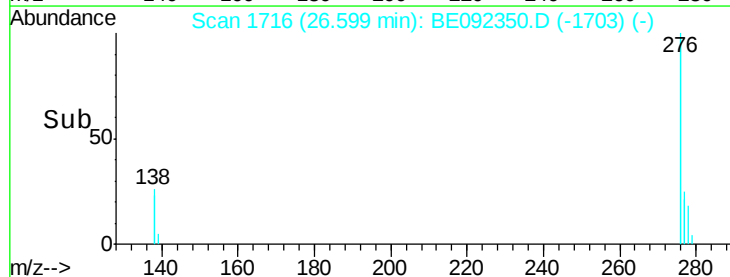
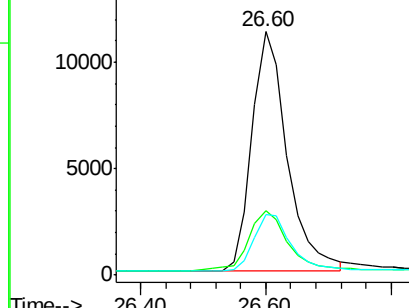
277 24.6 19.7 29.5

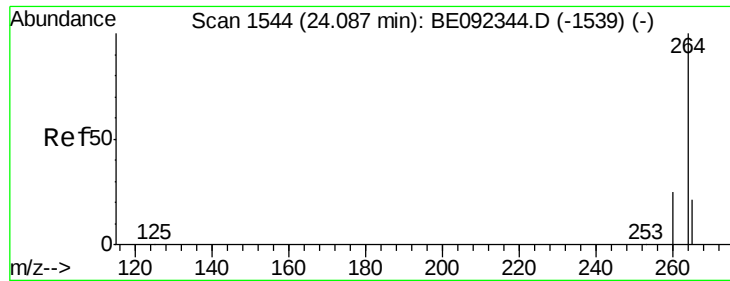


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

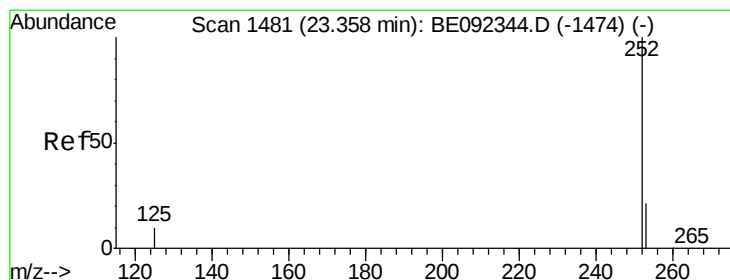
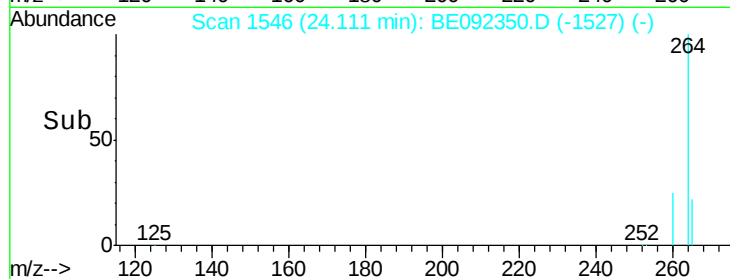
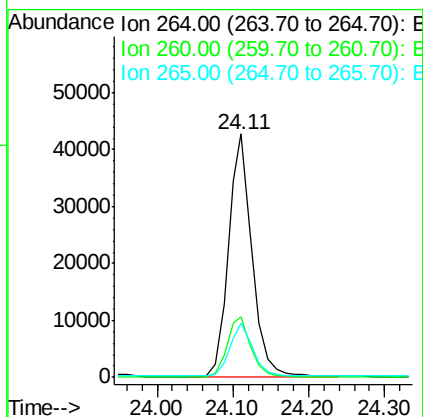
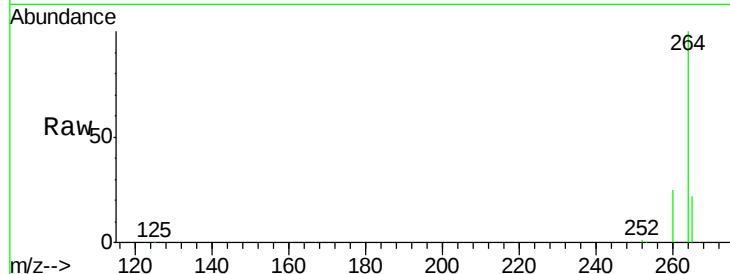




#31  
**Perylene-d12**  
 Concen: 5.00 ng  
 RT: 24.11 min Scan# 1546  
 Delta R.T. 0.02 min  
 Lab File: BE092350.D  
 Acq: 2 Sep 2016 19:14

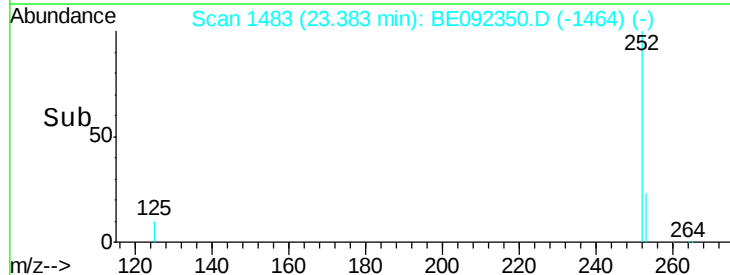
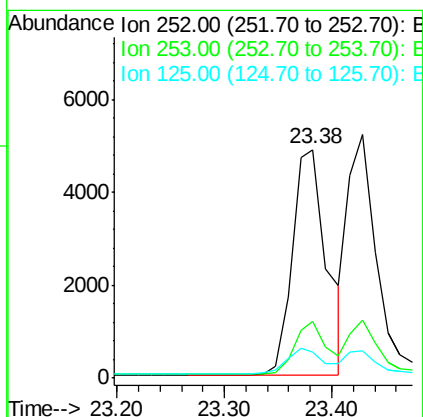
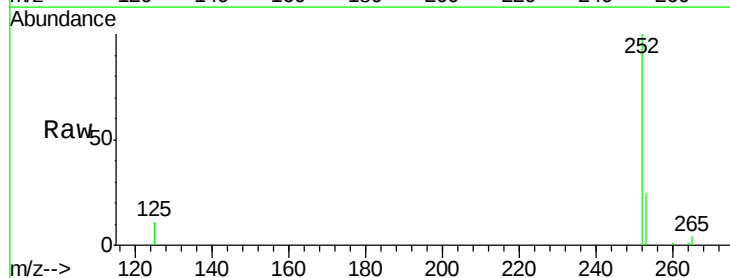
Instrument :  
 BNA\_E  
 ClientSampleId :  
 ICVBE090216

Tgt Ion: 264 Resp: 93726  
 Ion Ratio Lower Upper  
 264 100  
 260 24.7 20.1 30.1  
 265 22.3 17.9 26.9



#32  
**Benzo(b)fluoranthene**  
 Concen: 0.45 ng  
 RT: 23.38 min Scan# 1483  
 Delta R.T. 0.02 min  
 Lab File: BE092350.D  
 Acq: 2 Sep 2016 19:14

Tgt Ion: 252 Resp: 10853  
 Ion Ratio Lower Upper  
 252 100  
 253 24.6 18.7 28.1  
 125 11.3 10.5 15.7





#33

Benzo(k)fluoranthene

Concen: 0.38 ng

RT: 23.43 min Scan# 1487

Delta R.T. 0.02 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

Instrument :

BNA\_E

ClientSampleId :

ICVBE090216

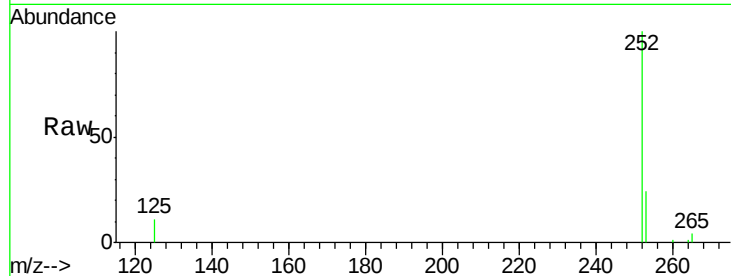
Tgt Ion:252 Resp: 9767

Ion Ratio Lower Upper

252 100

253 24.1 20.3 30.5

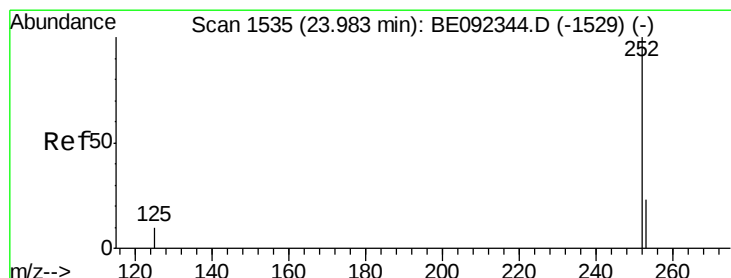
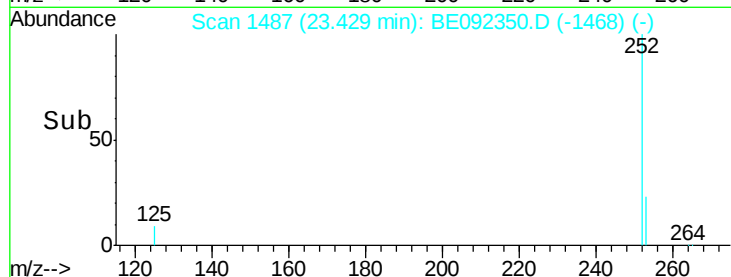
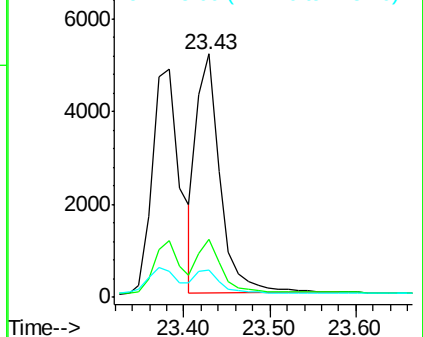
125 11.0 9.6 14.4



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: 0.42 ng

RT: 24.00 min Scan# 1536

Delta R.T. 0.01 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

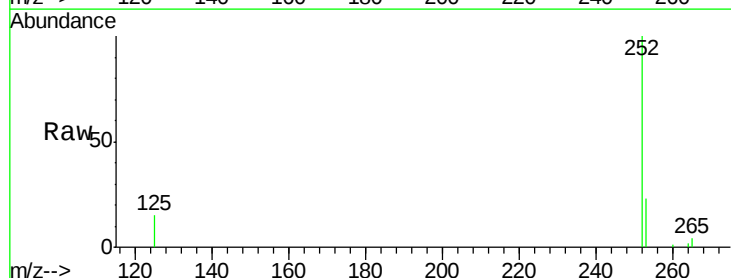
Tgt Ion:252 Resp: 9855

Ion Ratio Lower Upper

252 100

253 23.1 19.0 28.6

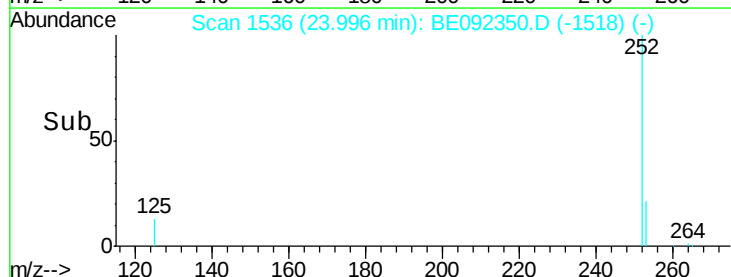
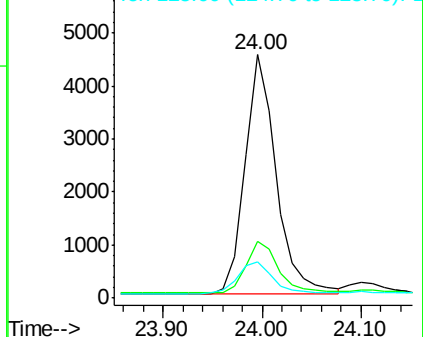
125 14.9 11.8 17.8



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





#35

Dibenzo(a,h)anthracene

Concen: 0.41 ng

RT: 26.63 min Scan# 1718

Delta R.T. 0.04 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

Instrument :

BNA\_E

ClientSampleId :

ICVBE090216

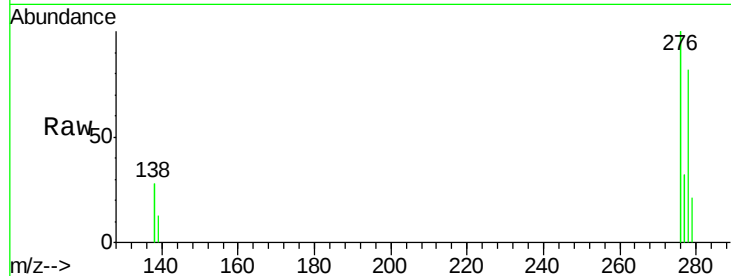
Tgt Ion: 278 Resp: 8989

Ion Ratio Lower Upper

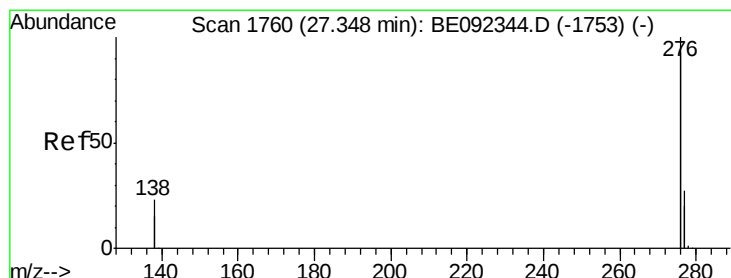
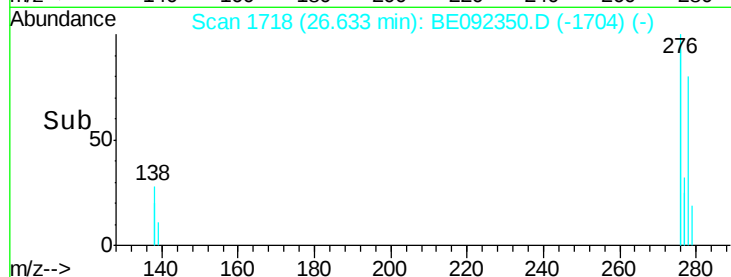
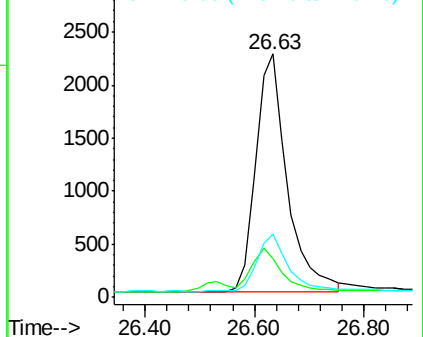
278 100

139 16.0 13.8 20.8

279 26.1 21.4 32.2



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



#36

Benzo(g,h,i)perylene

Concen: 0.41 ng

RT: 27.37 min Scan# 1761

Delta R.T. 0.02 min

Lab File: BE092350.D

Acq: 2 Sep 2016 19:14

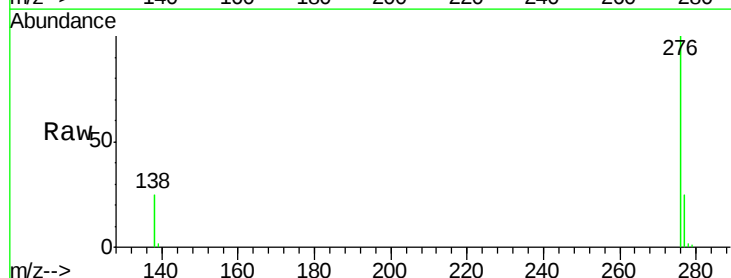
Tgt Ion: 276 Resp: 37552

Ion Ratio Lower Upper

276 100

277 24.5 19.8 29.8

138 25.3 19.8 29.6



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

