

Data Path : Z:\HPCHEM1\BNA E\DATA\BE041318\  
 Data File : BE095992.D  
 Acq On : 13 Apr 2018 12:07  
 Operator : SJ/JU  
 Sample : PB108210BSD  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Apr 13 14:44:06 2018  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE041118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 13 14:42:08 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.39  | 152  | 1333     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 11.22 | 136  | 4912     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.97 | 164  | 2456     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.67 | 188  | 5601     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.76 | 240  | 6217     | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 24.39 | 264  | 6016     | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.88  | 112 | 1356  | 0.33 | ng | 0.00 |
| 5) Phenol-d6                | 7.53  | 99  | 1816  | 0.32 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 9.57  | 82  | 1819  | 0.32 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.76 | 152 | 2224  | 0.29 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 16.44 | 330 | 276   | 0.23 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.61 | 172 | 3531  | 0.34 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.66 | 212 | 21245 | 0.28 | ng | 0.00 |
| 29) Terphenyl-d14           | 20.22 | 244 | 4052  | 0.29 | ng | 0.00 |

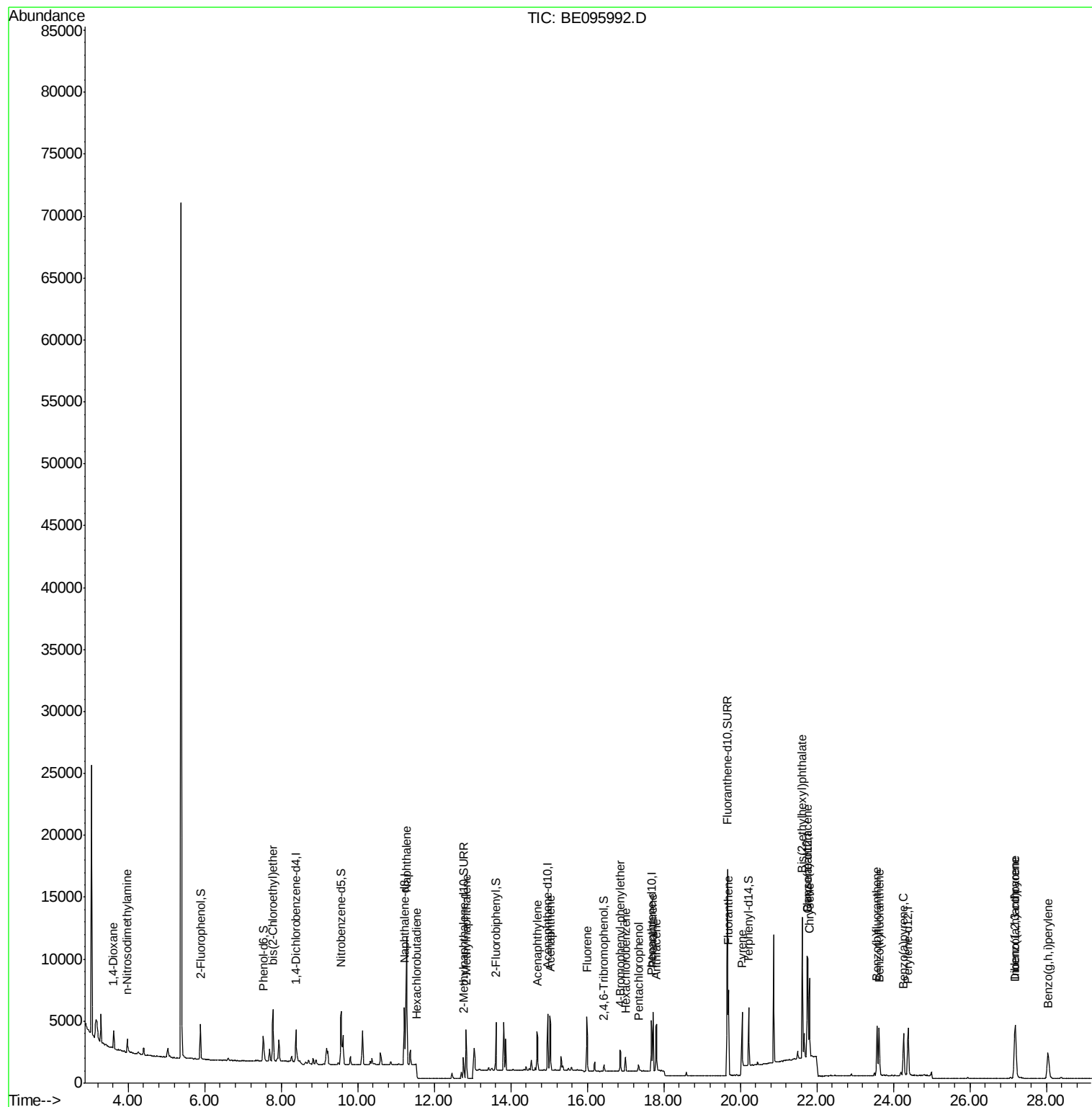
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.62  | 88  | 866   | 0.421  | ng | 88   |
| 3) n-Nitrosodimethylamine      | 3.97  | 42  | 817   | 0.324  | ng | 83   |
| 6) bis(2-Chloroethyl)ether     | 7.78  | 93  | 1424  | 0.284  | ng | 96   |
| 9) Naphthalene                 | 11.27 | 128 | 16173 | 0.312  | ng | 100  |
| 10) Hexachlorobutadiene        | 11.53 | 225 | 606   | 0.264  | ng | 94   |
| 12) 2-Methylnaphthalene        | 12.83 | 142 | 2632  | 0.307  | ng | 96   |
| 16) Acenaphthylene             | 14.69 | 152 | 3784  | 0.289  | ng | 99   |
| 17) Acenaphthene               | 15.02 | 154 | 2309  | 0.293  | ng | 95   |
| 18) Fluorene                   | 15.99 | 166 | 3518  | 0.361  | ng | # 70 |
| 20) 4-Bromophenyl-phenylether  | 16.87 | 248 | 892   | 0.268  | ng | # 79 |
| 21) Hexachlorobenzene          | 17.00 | 284 | 937   | 0.283  | ng | # 81 |
| 22) Pentachlorophenol          | 17.33 | 266 | 309   | 0.338  | ng | # 76 |
| 23) Phenanthrene               | 17.72 | 178 | 4777  | 0.304  | ng | 98   |
| 24) Anthracene                 | 17.81 | 178 | 4543  | 0.302  | ng | # 95 |
| 26) Fluoranthene               | 19.69 | 202 | 6054  | 0.293  | ng | 97   |
| 28) Pyrene                     | 20.05 | 202 | 2911  | 0.238  | ng | 95   |
| 30) Benzo(a)anthracene         | 21.75 | 228 | 5967  | 0.299  | ng | 97   |
| 31) Chrysene                   | 21.81 | 228 | 5854  | 0.304  | ng | 97   |
| 32) Bis(2-ethylhexyl)phthalate | 21.62 | 149 | 14013 | 0.272  | ng | 100  |
| 33) Indeno(1,2,3-cd)pyrene     | 27.18 | 276 | 6217  | 0.333  | ng | 94   |
| 35) Benzo(b)fluoranthene       | 23.57 | 252 | 5775  | 0.320  | ng | # 92 |
| 36) Benzo(k)fluoranthene       | 23.63 | 252 | 5838  | 0.315  | ng | # 91 |
| 37) Benzo(a)pyrene             | 24.27 | 252 | 5522  | 0.318  | ng | # 94 |
| 38) Dibenzo(a,h)anthracene     | 27.19 | 278 | 5000  | 0.327  | ng | 98   |
| 39) Benzo(g,h,i)perylene       | 28.05 | 276 | 5323  | 0.329  | ng | # 91 |

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

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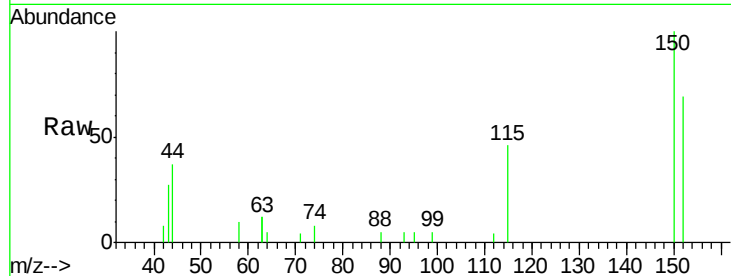


#1

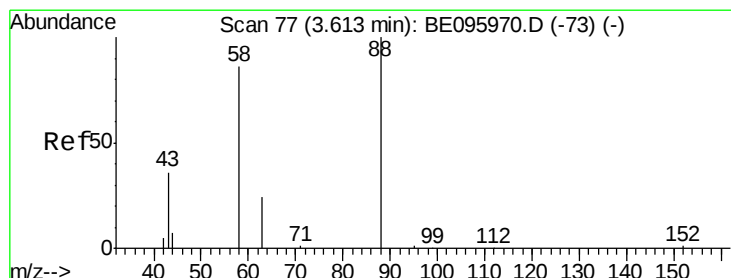
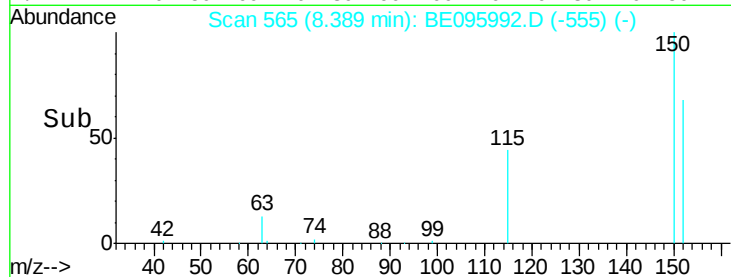
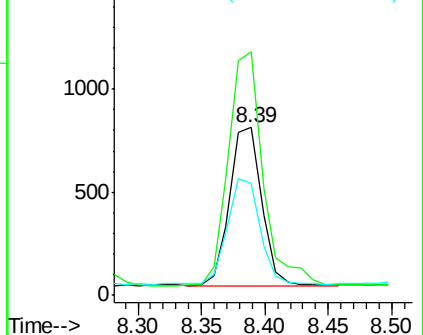
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 8.39 min Scan# 565  
Delta R.T. 0.00 min  
Lab File: BE095992.D  
Acq: 13 Apr 2018 12:07

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 1333  
Ion Ratio Lower Upper  
152 100  
150 145.3 117.2 175.8  
115 67.1 57.0 85.6



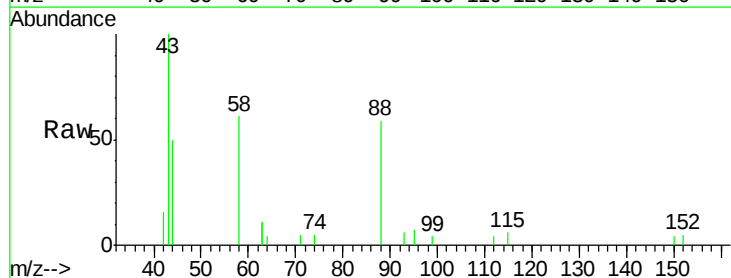
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



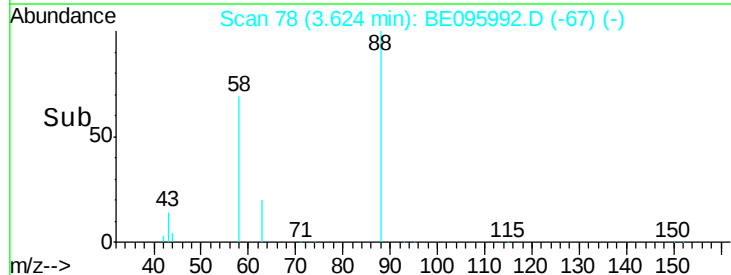
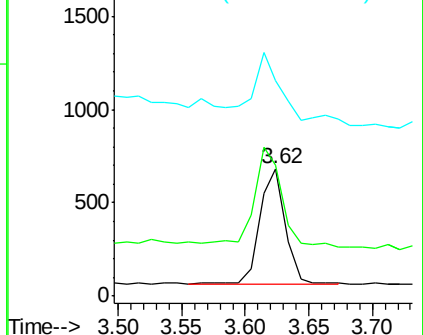
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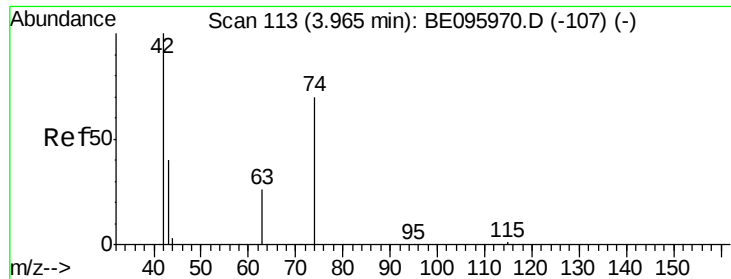
1,4-Dioxane  
Concen: 0.421 ng  
RT: 3.62 min Scan# 78  
Delta R.T. 0.01 min  
Lab File: BE095992.D  
Acq: 13 Apr 2018 12:07

Tgt Ion: 88 Resp: 866  
Ion Ratio Lower Upper  
88 100  
58 94.3 63.2 94.8  
43 53.7 41.2 61.8



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



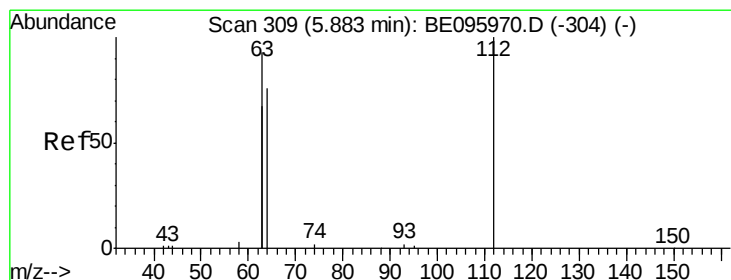
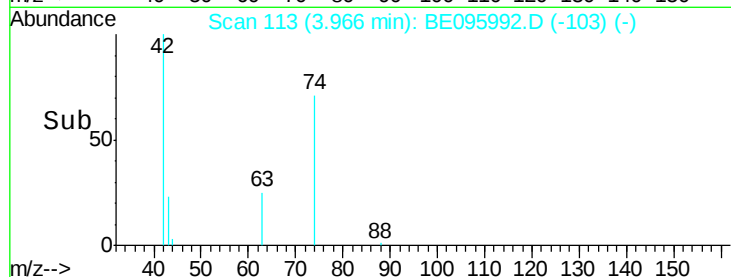
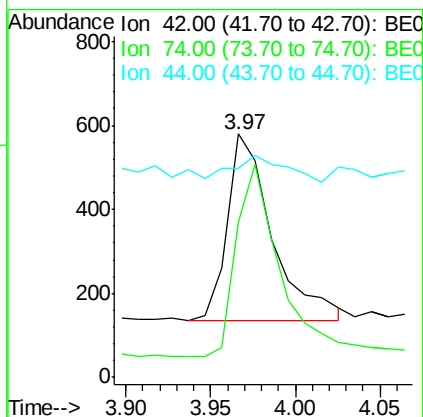
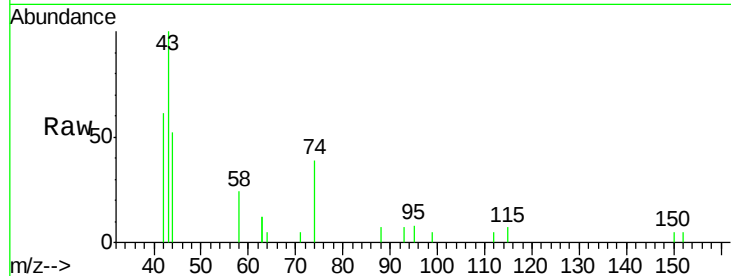


#3

n-Nitrosodimethylamine  
 Concen: 0.324 ng  
 RT: 3.97 min Scan# 113  
 Delta R.T. 0.00 min  
 Lab File: BE095992.D  
 Acq: 13 Apr 2018 12:07

Instrument :  
 BNA\_E  
 ClientSampleId :

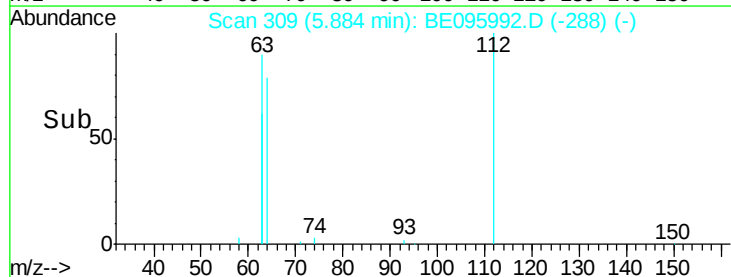
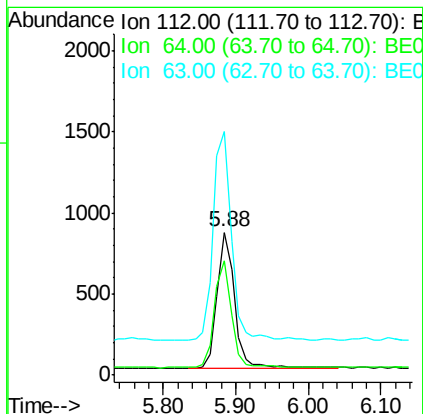
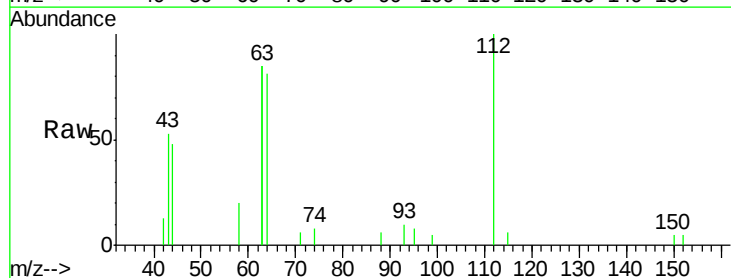
Tot Ion: 42 Resp: 817  
 Ion Ratio Lower Upper  
 42 100  
 74 98.9 96.0 144.0  
 44 15.8 12.0 18.0

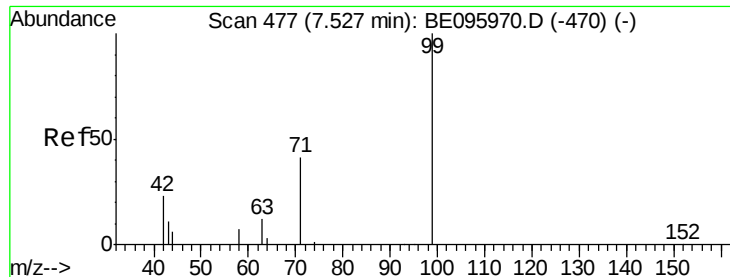


#4

2-Fluorophenol  
 Concen: 0.329 ng  
 RT: 5.88 min Scan# 309  
 Delta R.T. 0.00 min  
 Lab File: BE095992.D  
 Acq: 13 Apr 2018 12:07

Tgt Ion: 112 Resp: 1356  
 Ion Ratio Lower Upper  
 112 100  
 64 77.9 60.1 90.1  
 63 163.8 116.8 175.2





#5

Phenol-d6

Concen: 0.319 ng

RT: 7.53 min Scan# 477

Delta R.T. 0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

Instrument :

BNA\_E

ClientSampled :

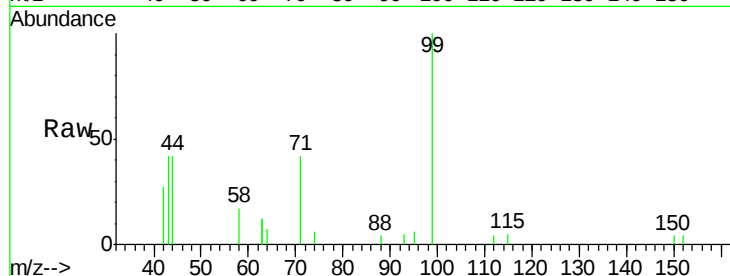
Tot Ion: 99 Resp: 1816

Ion Ratio Lower Upper

99 100

42 28.3 20.2 30.2

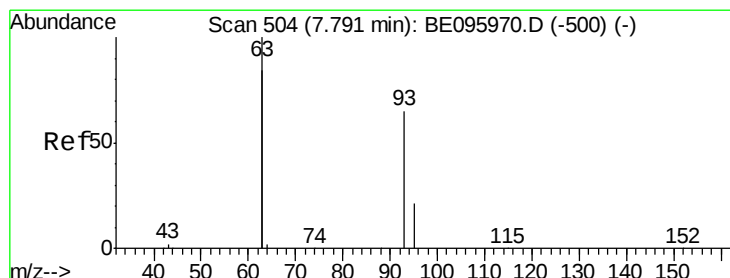
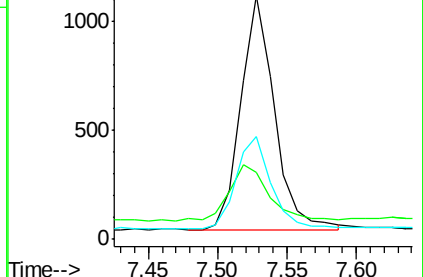
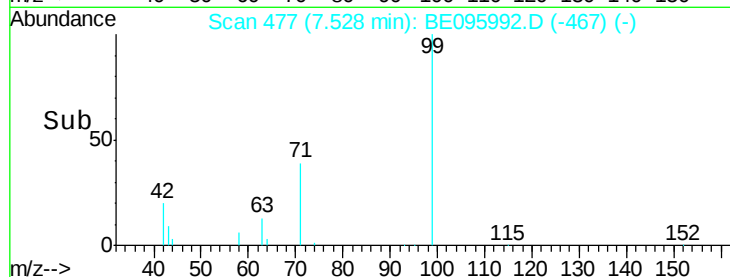
71 42.4 28.4 42.6



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: 0.284 ng

RT: 7.78 min Scan# 503

Delta R.T. 0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

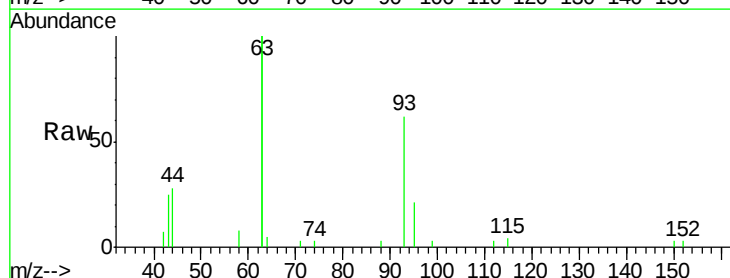
Tgt Ion: 93 Resp: 1424

Ion Ratio Lower Upper

93 100

63 334.1 275.3 412.9

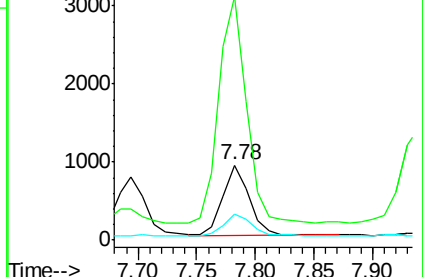
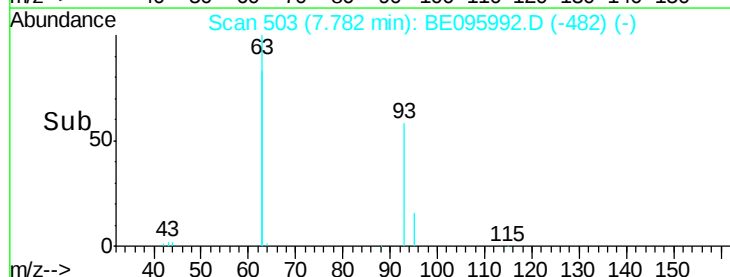
95 31.8 25.2 37.8



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: 0.400 ng

RT: 11.22 min Scan# 781

Delta R.T. 0.00 min

Lab File: BE095992.D

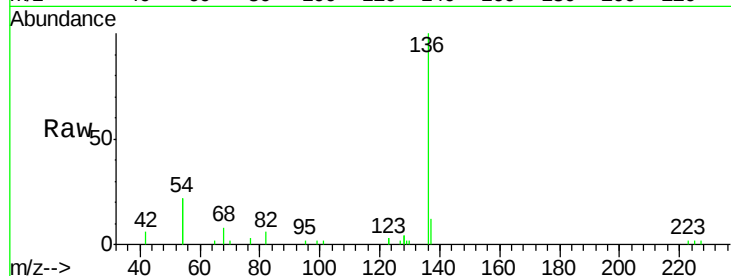
Acq: 13 Apr 2018 12:07

Instrument :

BNA\_E

ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:136 | Resp: | 4912      |
| Ion Ratio   | Lower | Upper     |
| 136         | 100   |           |
| 137         | 11.8  | 9.5 14.3  |
| 54          | 44.7  | 29.1 43.7 |
| 68          | 8.4   | 6.2 9.2   |

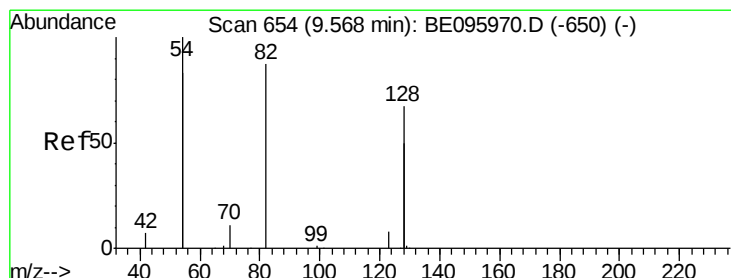
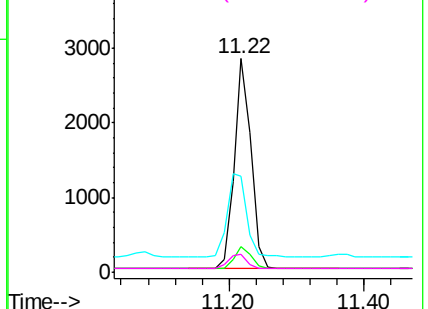
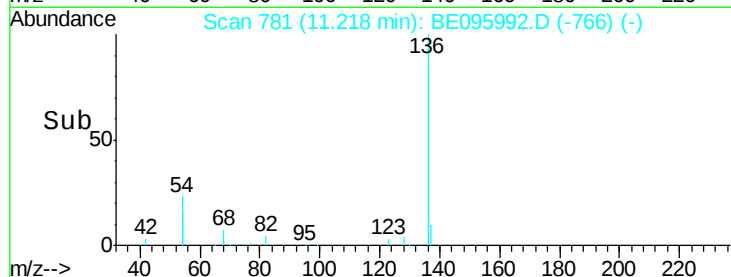


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.316 ng

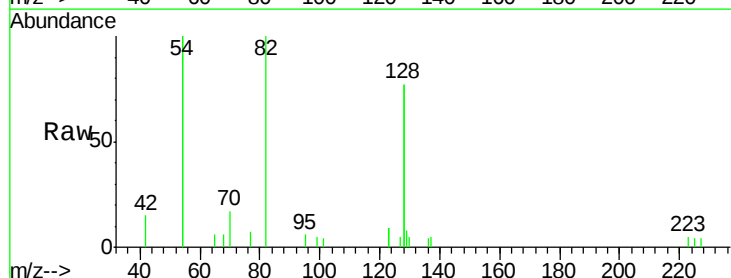
RT: 9.57 min Scan# 654

Delta R.T. 0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

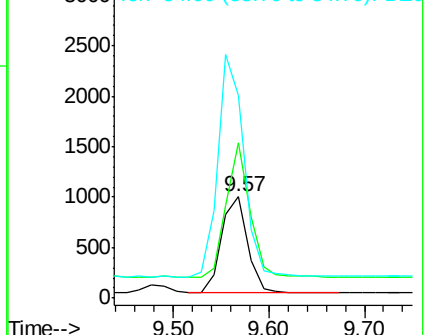
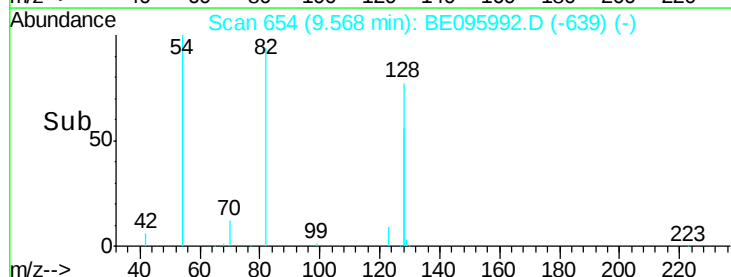
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 1819        |
| Ion Ratio   | Lower | Upper       |
| 82          | 100   |             |
| 128         | 153.8 | 150.0 225.0 |
| 54          | 201.0 | 154.2 231.4 |

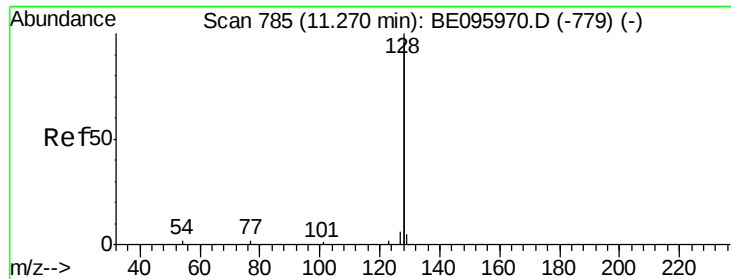


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.312 ng

RT: 11.27 min Scan# 785

Delta R.T. 0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

Instrument :

BNA\_E

ClientSampleId :

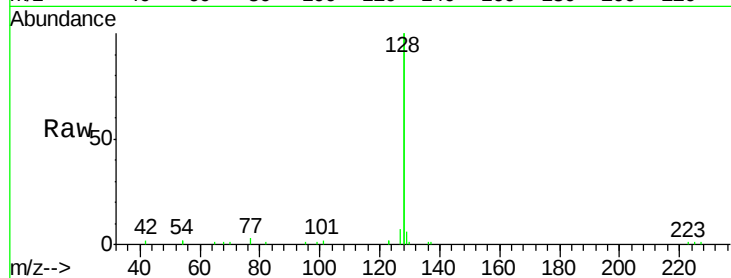
Tot Ion:128 Resp: 16173

Ion Ratio Lower Upper

128 100

129 3.2 2.6 3.8

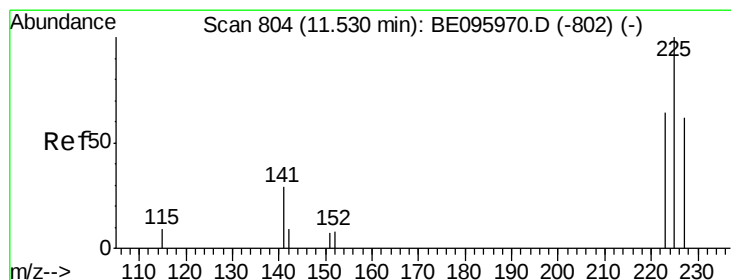
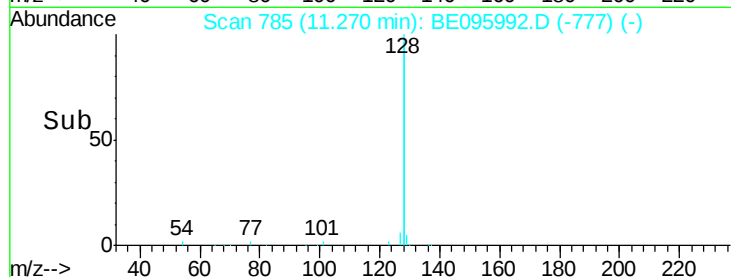
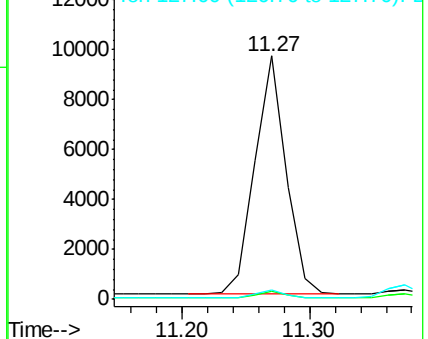
127 3.7 2.8 4.2



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: 0.264 ng

RT: 11.53 min Scan# 804

Delta R.T. -0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

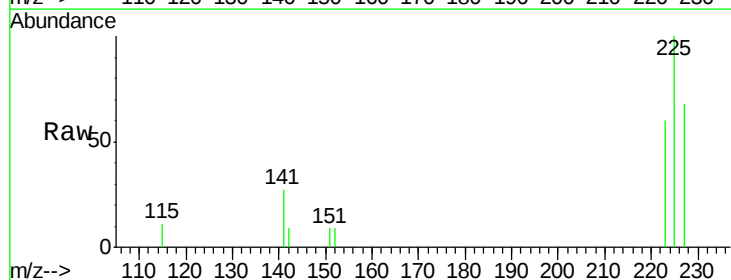
Tgt Ion:225 Resp: 606

Ion Ratio Lower Upper

225 100

223 63.2 53.0 79.6

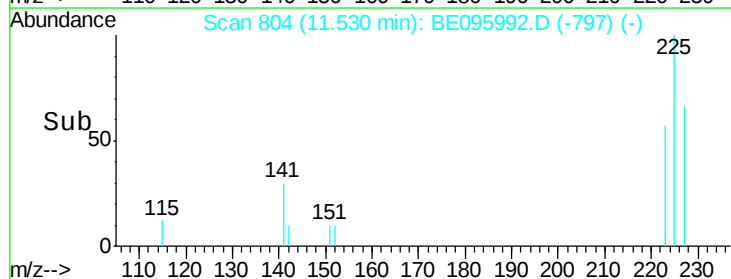
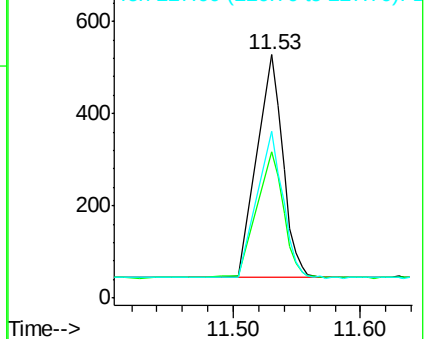
227 70.1 51.4 77.2

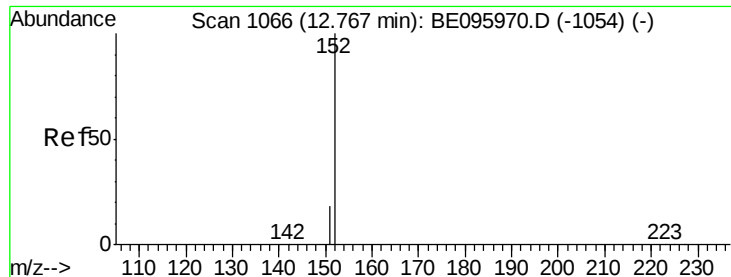


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.286 ng

RT: 12.76 min Scan# 1065

Delta R.T. -0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

Instrument :

BNA\_E

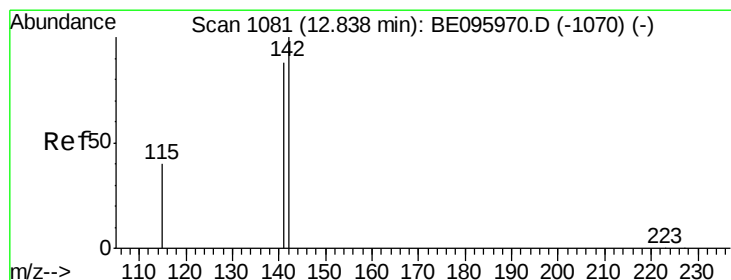
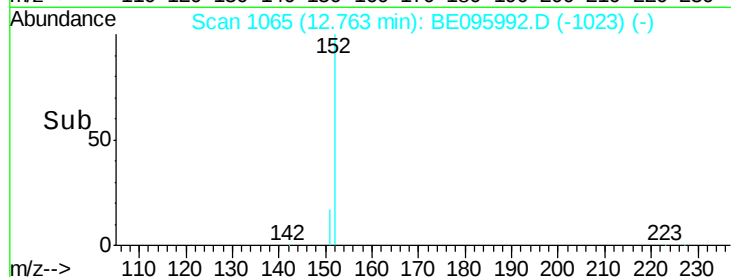
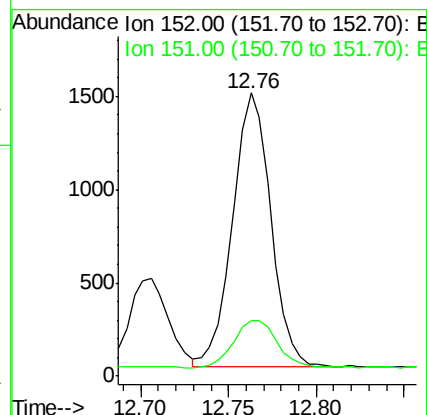
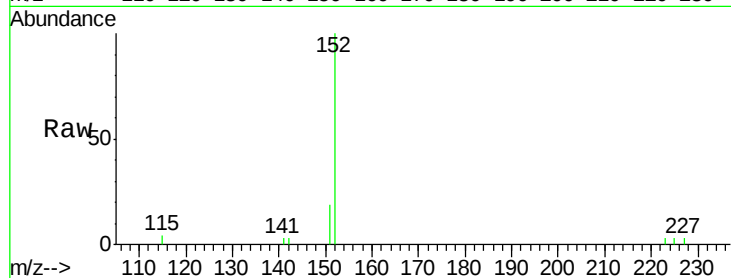
ClientSampleId :

Tot Ion:152 Resp: 2224

Ion Ratio Lower Upper

152 100

151 19.8 15.4 23.0



#12

2-Methylnaphthalene

Concen: 0.307 ng

RT: 12.83 min Scan# 1080

Delta R.T. -0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

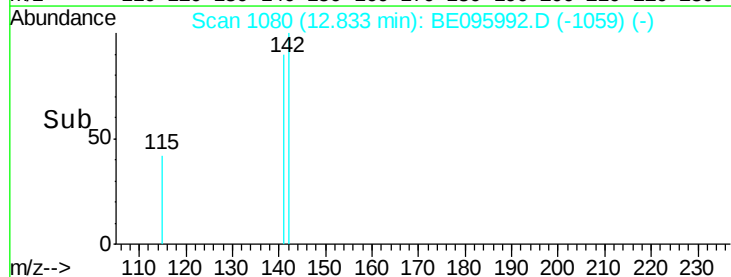
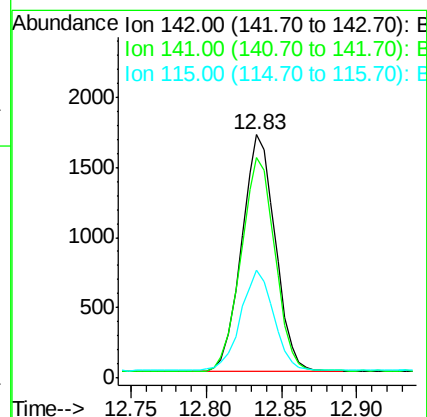
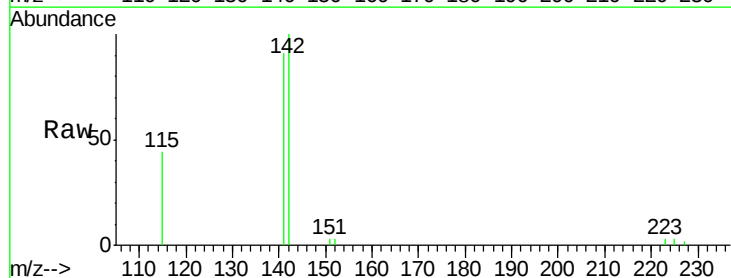
Tgt Ion:142 Resp: 2632

Ion Ratio Lower Upper

142 100

141 90.6 70.4 105.6

115 44.4 31.7 47.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.97 min Scan# 1283

Delta R.T. 0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

Instrument :

BNA\_E

ClientSampleId :

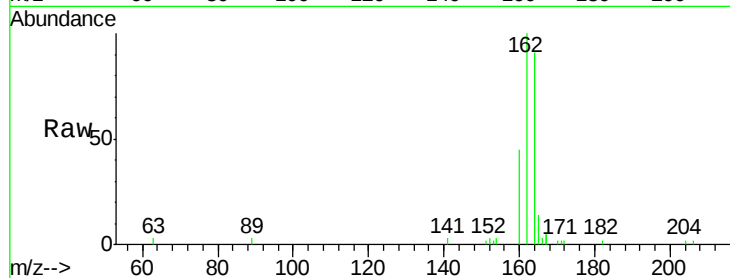
Tot Ion:164 Resp: 2456

Ion Ratio Lower Upper

164 100

162 110.5 83.1 124.7

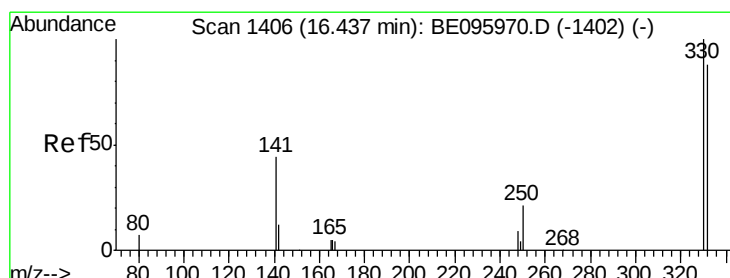
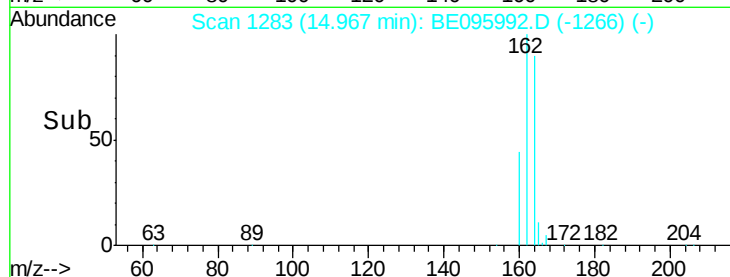
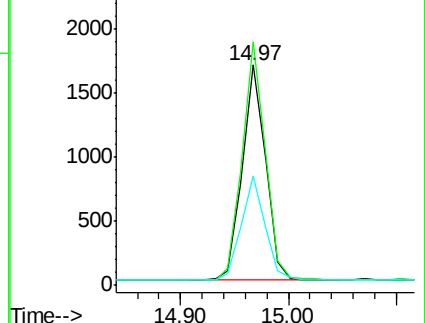
160 49.8 37.1 55.7



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

2,4,6-Tribromophenol

Concen: 0.233 ng

RT: 16.44 min Scan# 1406

Delta R.T. -0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

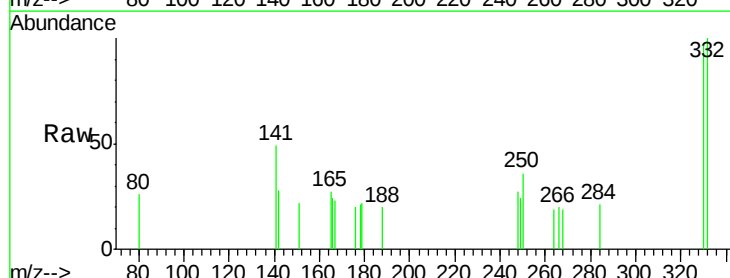
Tgt Ion:330 Resp: 276

Ion Ratio Lower Upper

330 100

332 102.2 152.7 229.1#

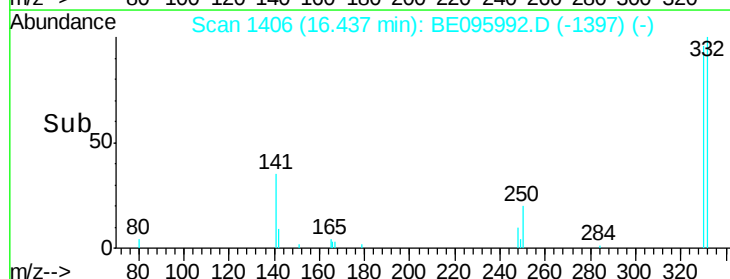
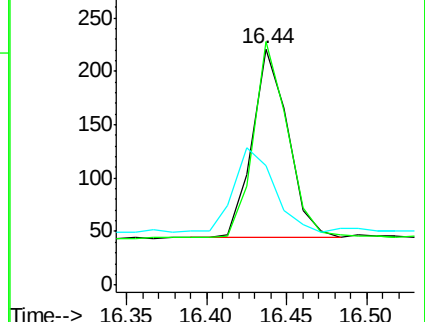
141 51.8 33.7 50.5#

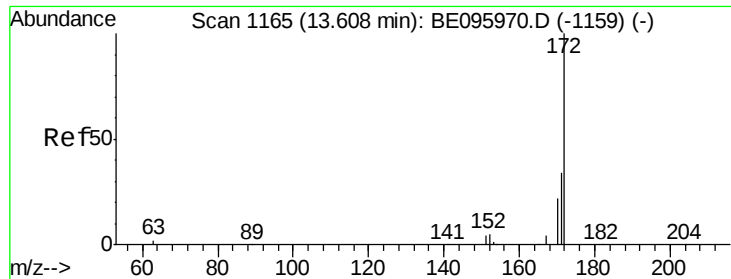


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

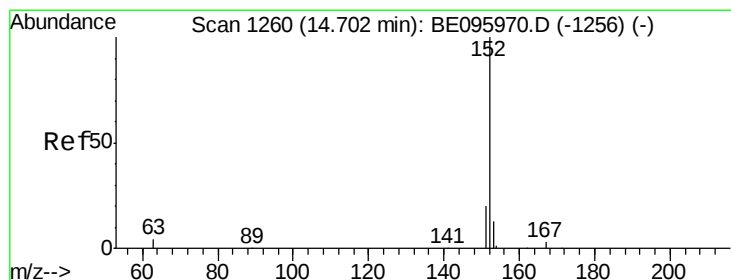
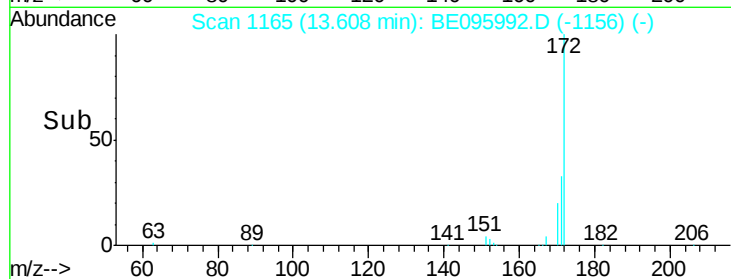
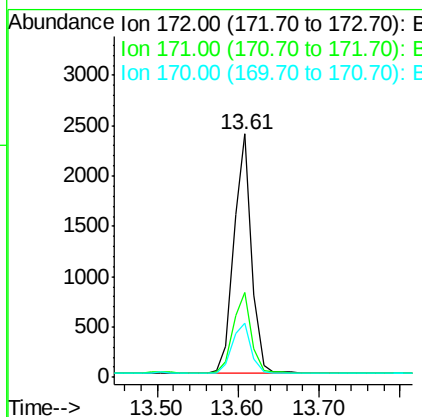
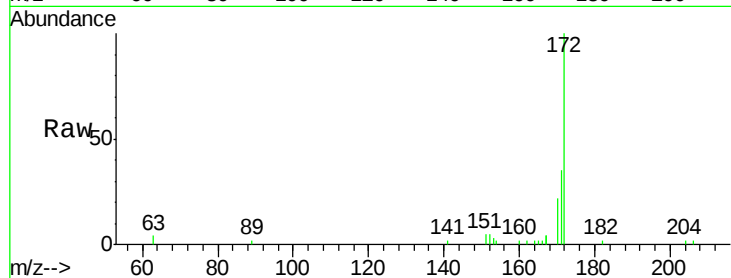




#15  
2-Fluorobiphenyl  
Concen: 0.336 ng  
RT: 13.61 min Scan# 1165  
Delta R.T. 0.00 min  
Lab File: BE095992.D  
Acq: 13 Apr 2018 12:07

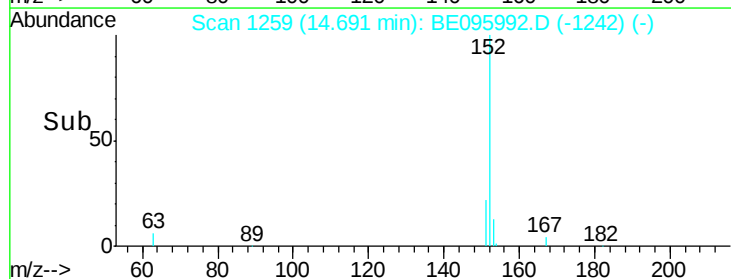
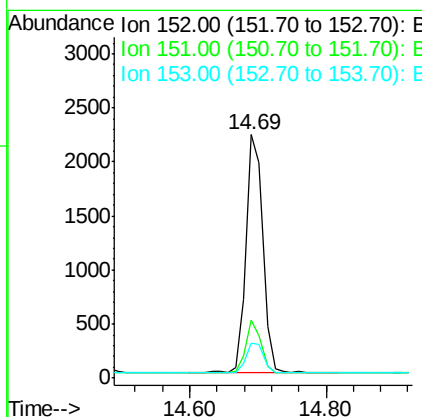
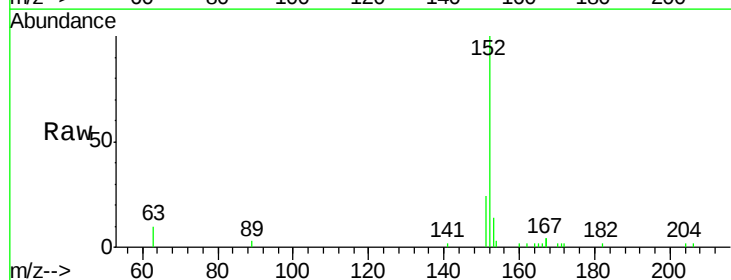
Instrument :  
BNA\_E  
ClientSampleId :

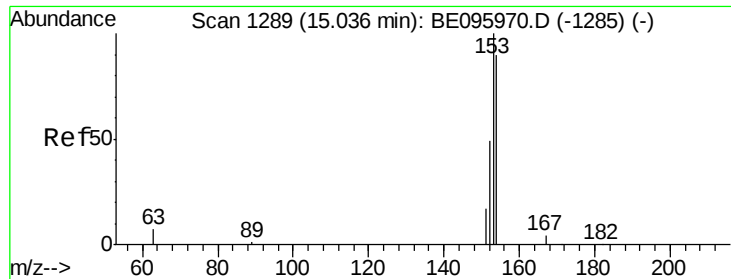
Tot Ion:172 Resp: 3531  
Ion Ratio Lower Upper  
172 100  
171 34.9 29.9 44.9  
170 22.0 21.8 32.8



#16  
Acenaphthylene  
Concen: 0.289 ng  
RT: 14.69 min Scan# 1259  
Delta R.T. 0.00 min  
Lab File: BE095992.D  
Acq: 13 Apr 2018 12:07

Tgt Ion:152 Resp: 3784  
Ion Ratio Lower Upper  
152 100  
151 20.0 15.7 23.5  
153 12.8 10.5 15.7





#17

Acenaphthene

Concen: 0.293 ng

RT: 15.02 min Scan# 1288

Delta R.T. -0.01 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

Instrument :

BNA\_E

ClientSampleId :

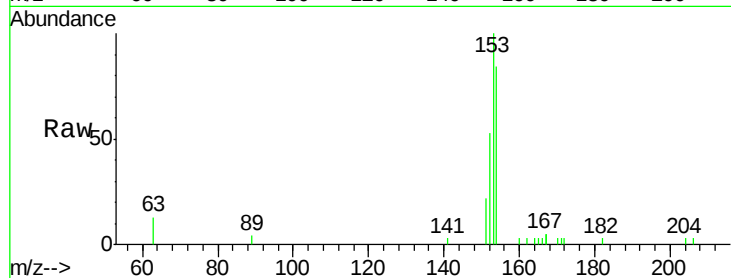
Tot Ion:154 Resp: 2309

Ion Ratio Lower Upper

154 100

153 115.3 89.2 133.8

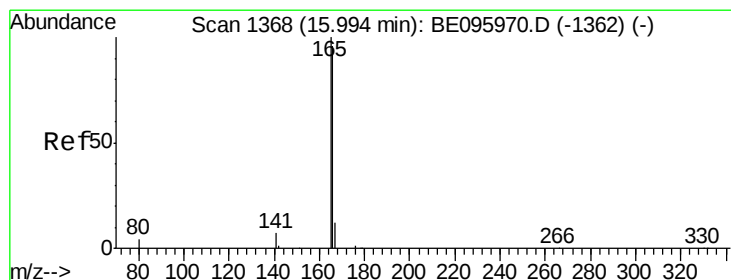
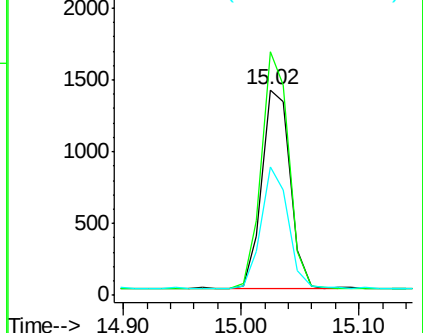
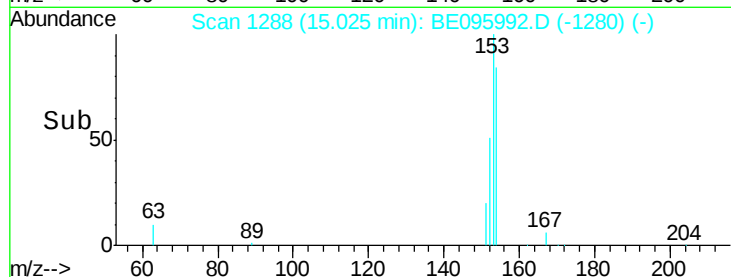
152 58.6 42.0 63.0



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



#18

Fluorene

Concen: 0.361 ng

RT: 15.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

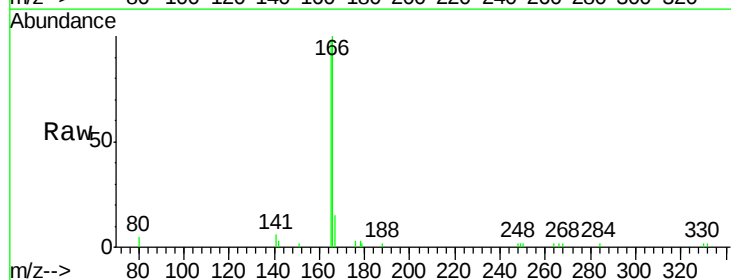
Tgt Ion:166 Resp: 3518

Ion Ratio Lower Upper

166 100

165 83.2 77.8 116.6

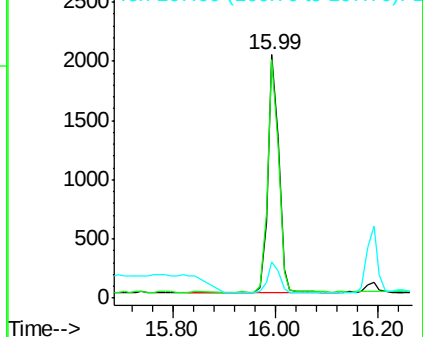
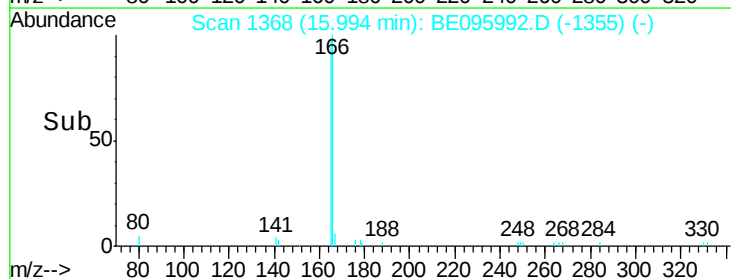
167 11.5 42.4 63.6#



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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.67 min Scan# 1512

Delta R.T. -0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

Instrument :

BNA\_E

ClientSampleId :

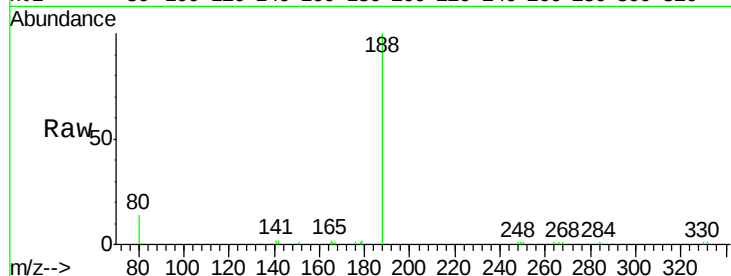
Tot Ion:188 Resp: 5601

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

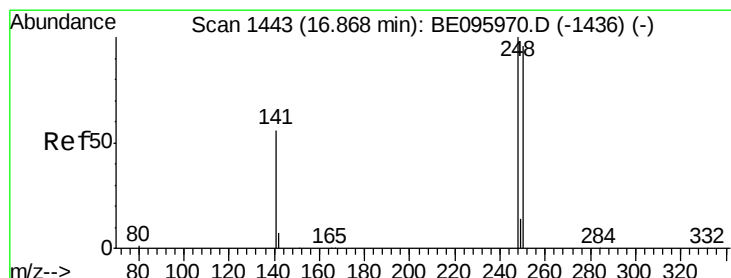
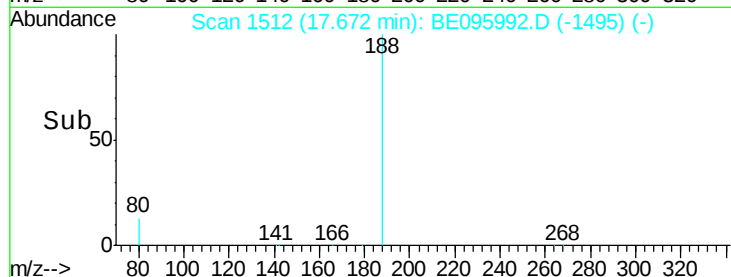
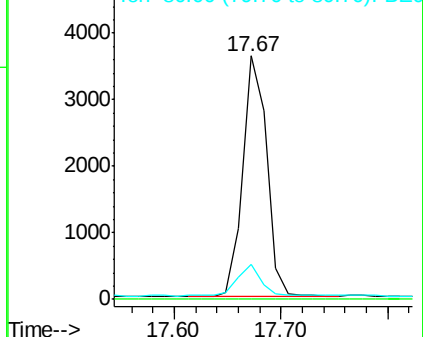
80 14.4 3.6 5.4#



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

4-Bromophenyl-phenylether

Concen: 0.268 ng

RT: 16.87 min Scan# 1443

Delta R.T. -0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

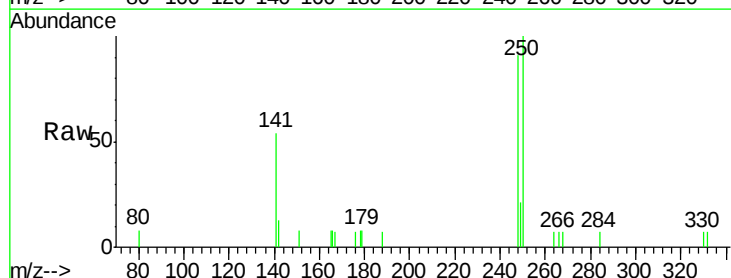
Tgt Ion:248 Resp: 892

Ion Ratio Lower Upper

248 100

250 109.7 62.7 94.1#

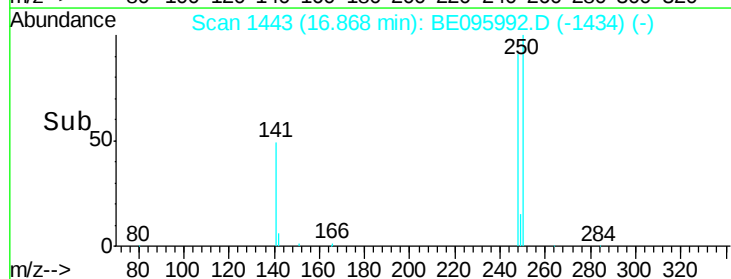
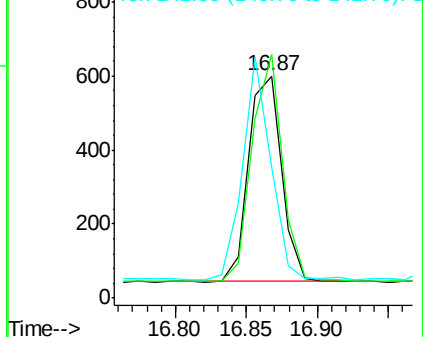
141 59.0 48.2 72.2



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.283 ng

RT: 17.00 min Scan# 1454

Delta R.T. -0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

Instrument :

BNA\_E

ClientSampleId :

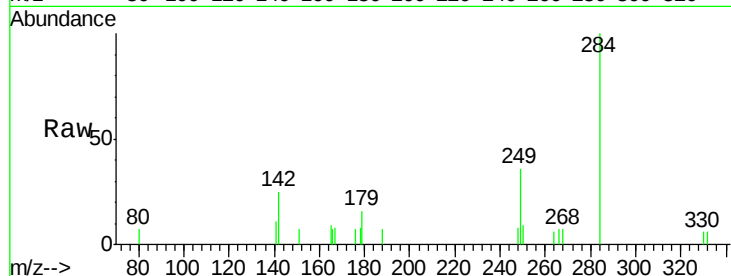
Tot Ion:284 Resp: 937

Ion Ratio Lower Upper

284 100

142 43.4 22.1 33.1#

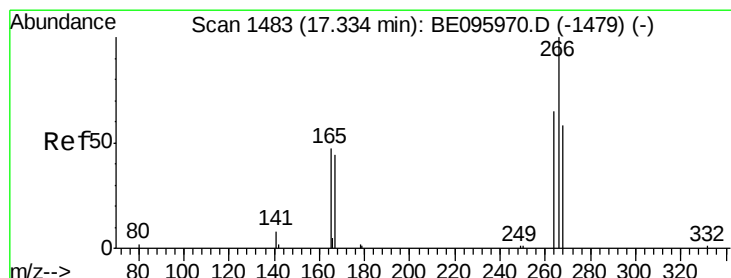
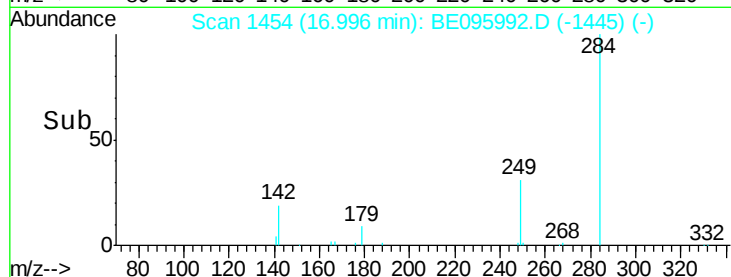
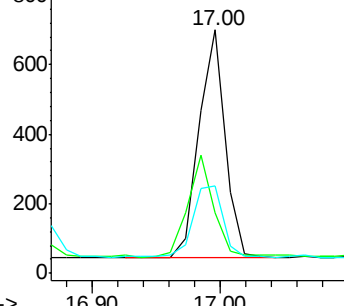
249 35.9 34.8 52.2



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: 0.338 ng

RT: 17.33 min Scan# 1483

Delta R.T. -0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

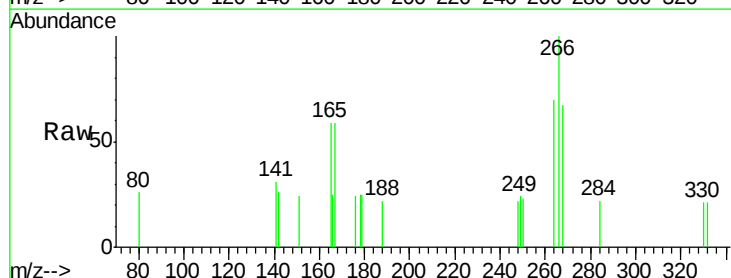
Tgt Ion:266 Resp: 309

Ion Ratio Lower Upper

266 100

264 69.8 72.5 108.7#

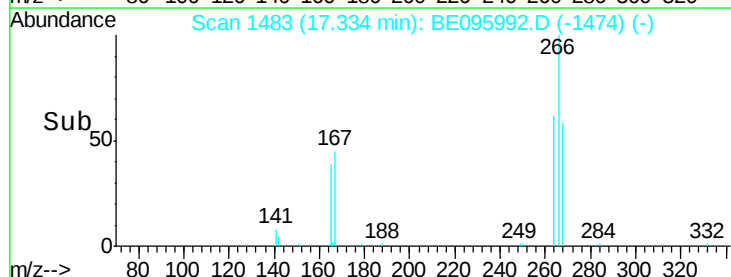
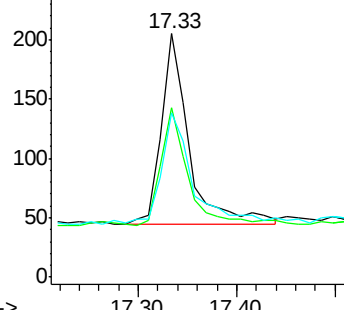
268 67.3 73.8 110.6#

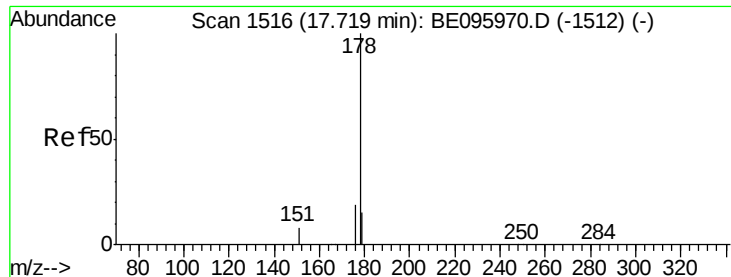


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.304 ng

RT: 17.72 min Scan# 1516

Delta R.T. -0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

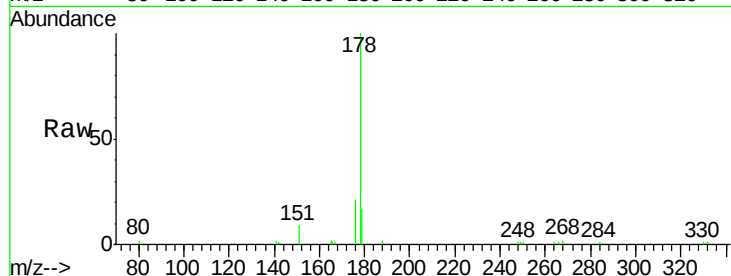
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:178 Resp: 4777

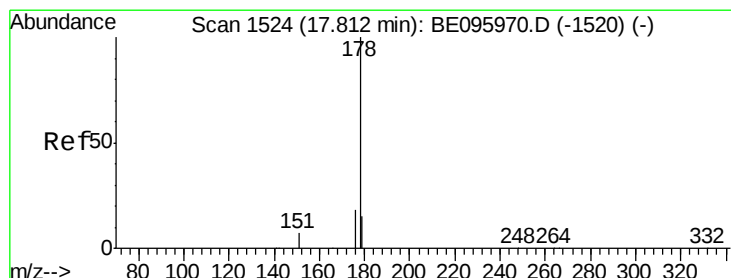
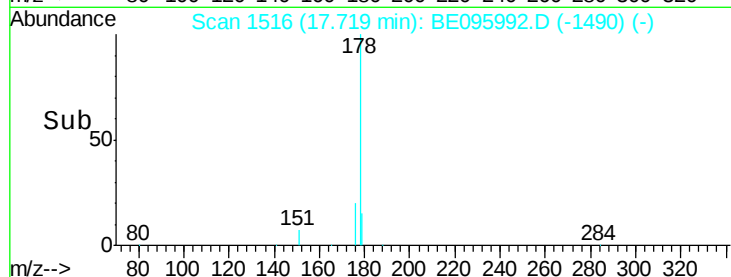
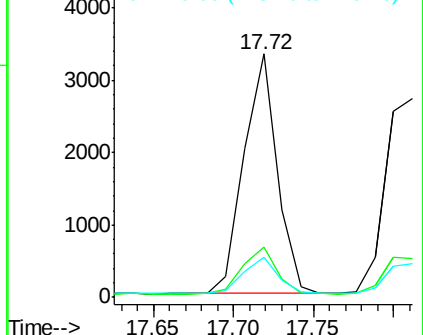
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.9  | 15.1  | 22.7  |
| 179 | 15.1  | 11.8  | 17.6  |



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.302 ng

RT: 17.81 min Scan# 1524

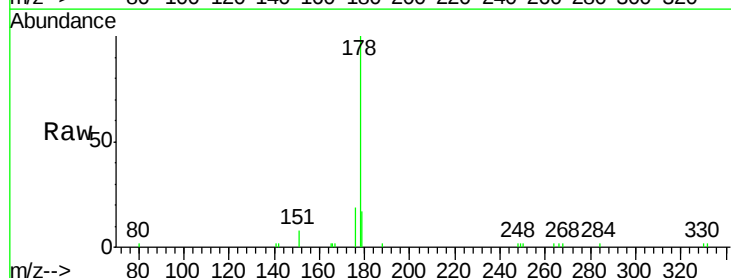
Delta R.T. -0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

Tgt Ion:178 Resp: 4543

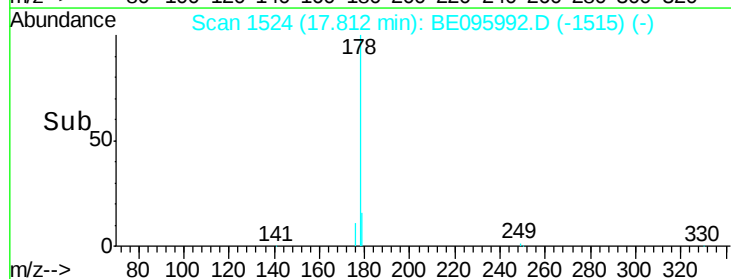
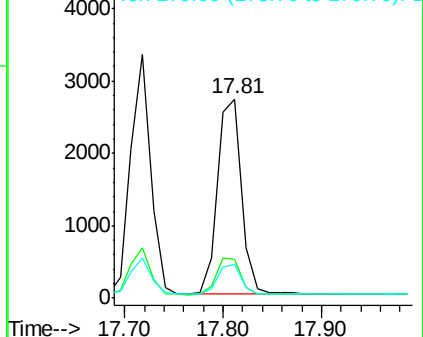
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.3  | 12.8  | 19.2# |
| 179 | 15.2  | 13.0  | 19.6  |

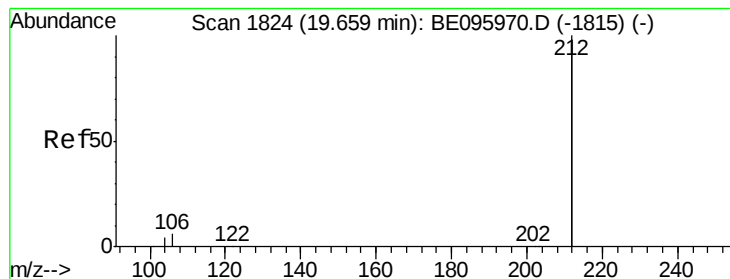


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.279 ng

RT: 19.66 min Scan# 1824

Delta R.T. 0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

Instrument :

BNA\_E

ClientSampleId :

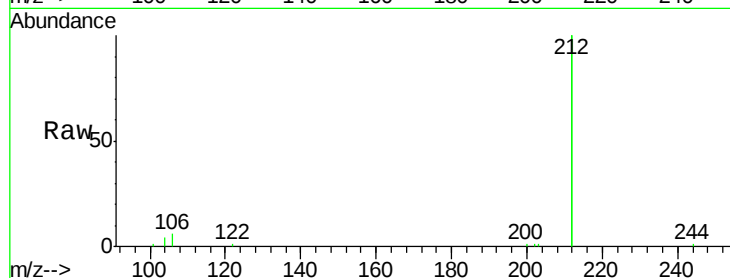
Tot Ion:212 Resp: 21245

Ion Ratio Lower Upper

212 100

106 3.1 2.8 4.2

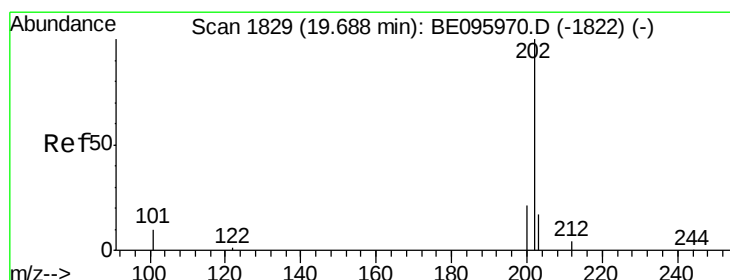
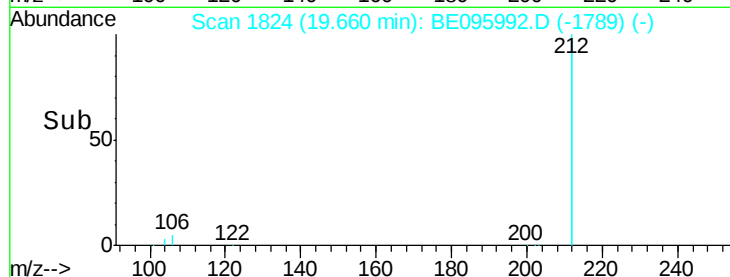
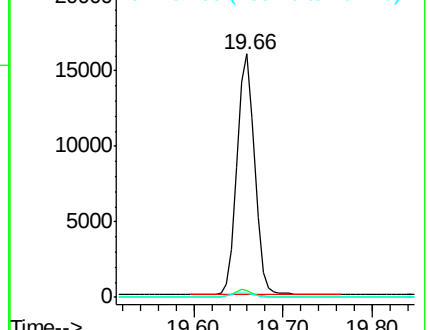
104 1.8 1.6 2.4



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.293 ng

RT: 19.69 min Scan# 1829

Delta R.T. 0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

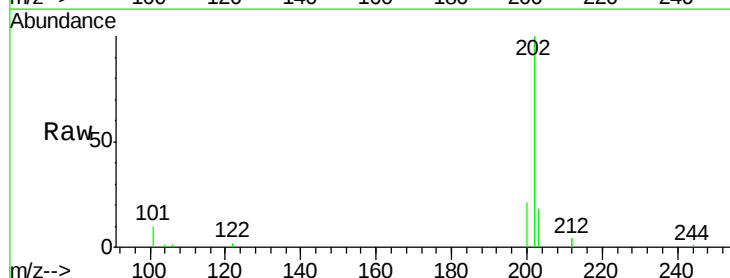
Tgt Ion:202 Resp: 6054

Ion Ratio Lower Upper

202 100

101 9.9 9.8 14.8

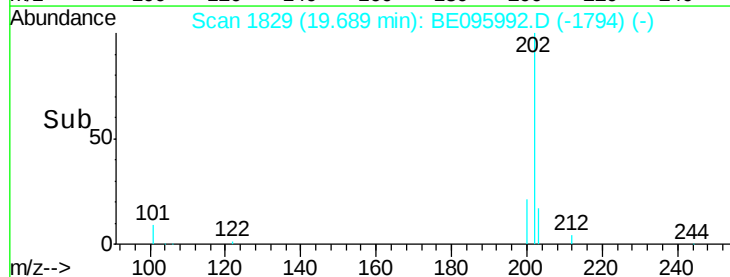
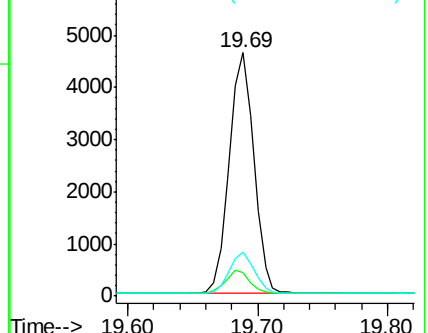
203 17.0 13.7 20.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.76 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

Instrument :

BNA\_E

ClientSampleId :

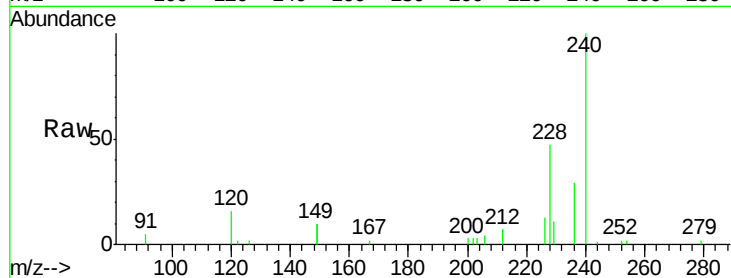
Tot Ion:240 Resp: 6217

Ion Ratio Lower Upper

240 100

120 16.2 5.5 8.3#

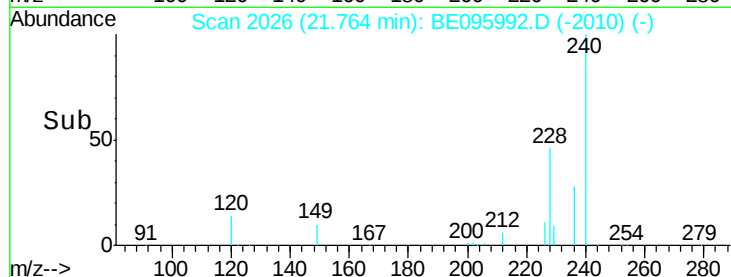
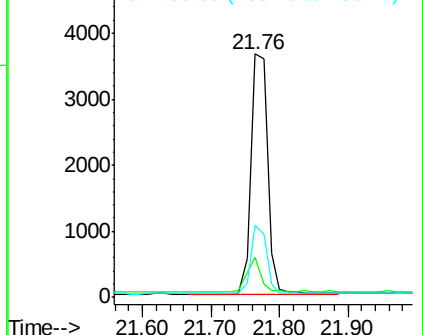
236 29.5 20.7 31.1



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



#28

Pyrene

Concen: 0.238 ng

RT: 20.05 min Scan# 1884

Delta R.T. 0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

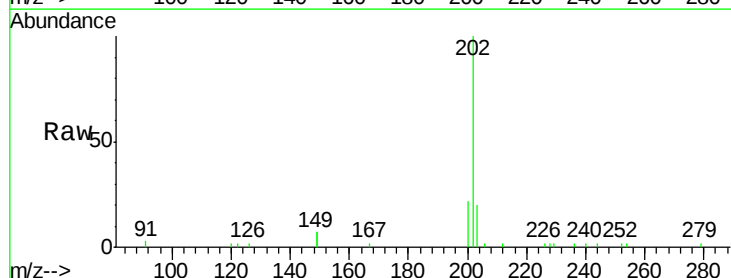
Tgt Ion:202 Resp: 2911

Ion Ratio Lower Upper

202 100

200 17.8 16.6 25.0

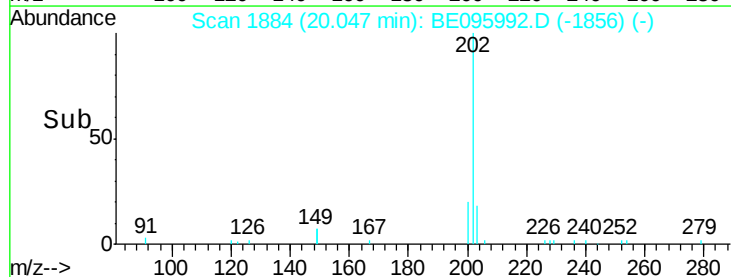
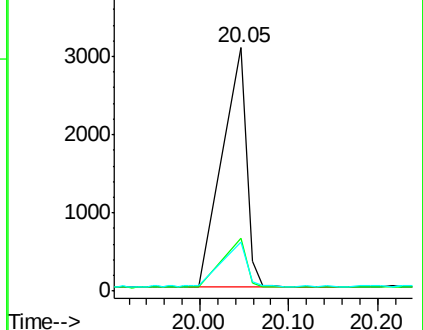
203 18.6 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.295 ng

RT: 20.22 min Scan# 1898

Delta R.T. 0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

Instrument :

BNA\_E

ClientSampleId :

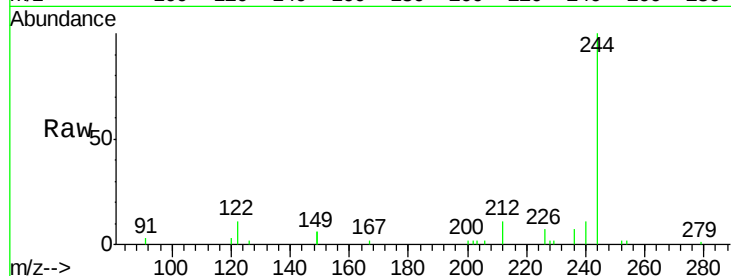
Tot Ion:244 Resp: 4052

Ion Ratio Lower Upper

244 100

212 10.5 25.4 38.0#

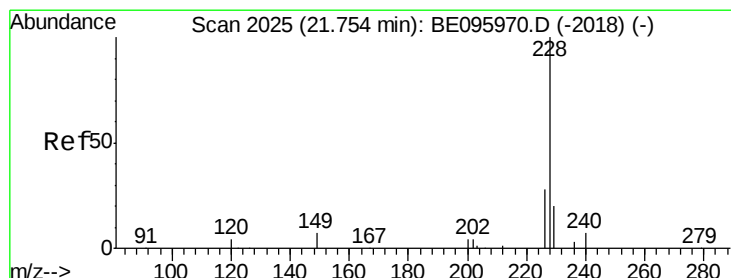
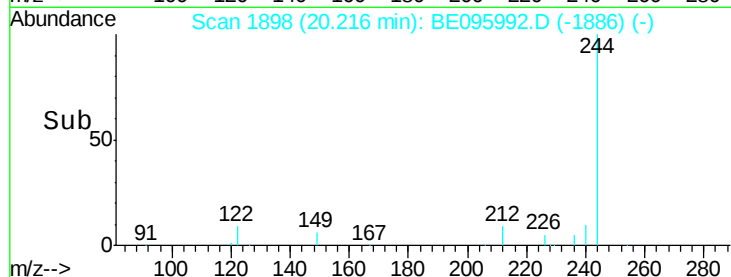
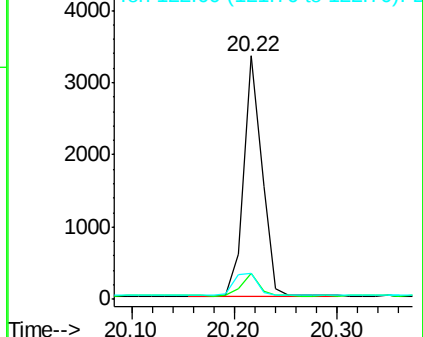
122 10.6 8.1 12.1



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



#30

Benzo(a)anthracene

Concen: 0.299 ng

RT: 21.75 min Scan# 2025

Delta R.T. 0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

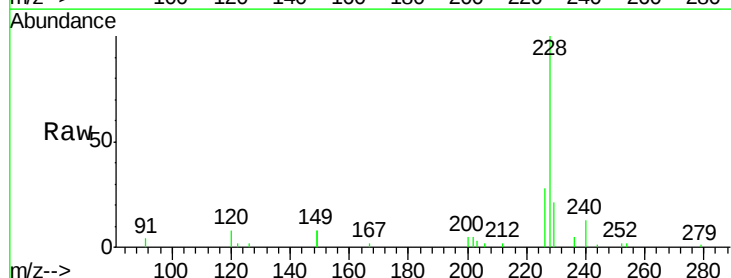
Tgt Ion:228 Resp: 5967

Ion Ratio Lower Upper

228 100

226 28.1 24.0 36.0

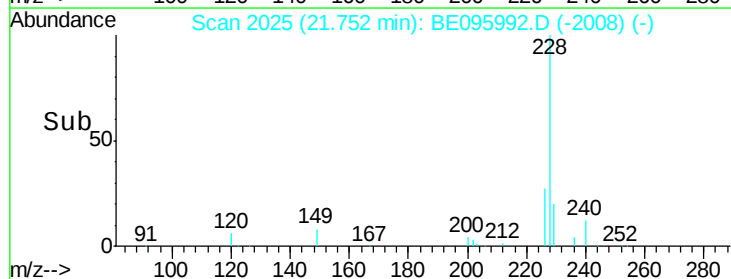
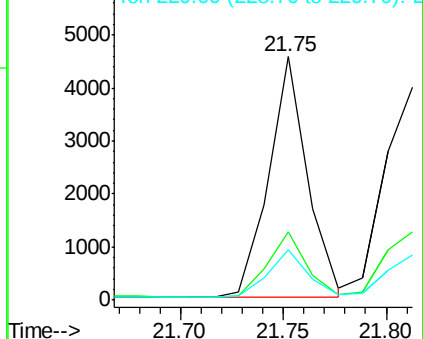
229 20.9 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.304 ng

RT: 21.81 min Scan# 2030

Delta R.T. 0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

Instrument :

BNA\_E

ClientSampleId :

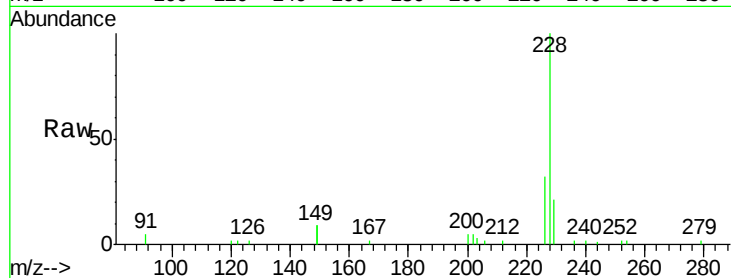
Tot Ion:228 Resp: 5854

Ion Ratio Lower Upper

228 100

226 31.9 24.0 36.0

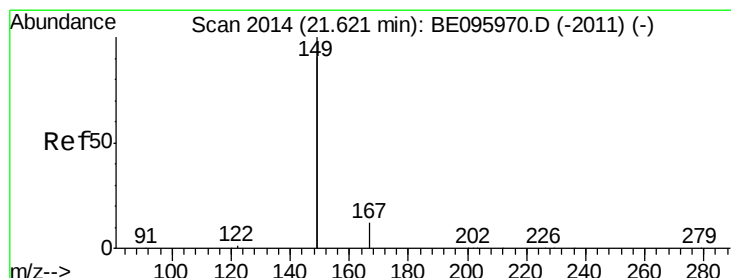
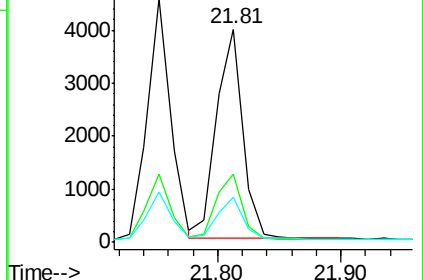
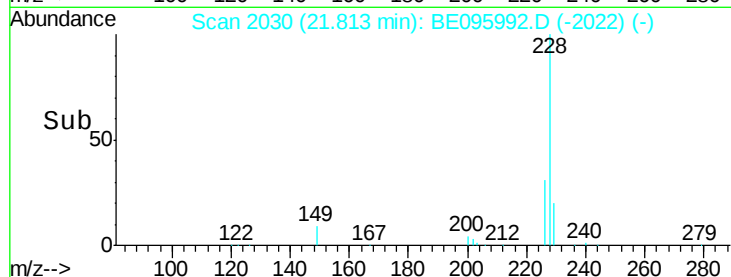
229 21.2 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.272 ng

RT: 21.62 min Scan# 2014

Delta R.T. 0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

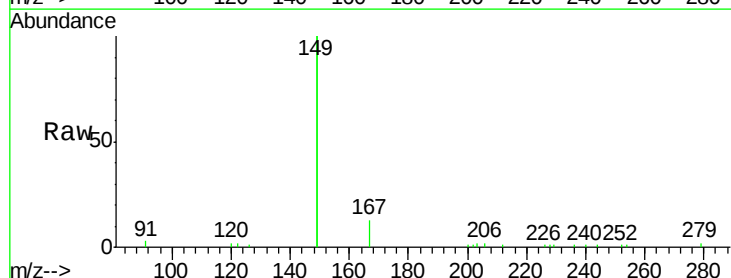
Tgt Ion:149 Resp: 14013

Ion Ratio Lower Upper

149 100

167 6.7 5.4 8.0

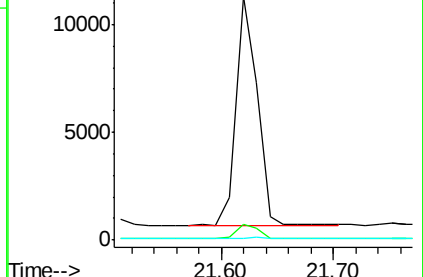
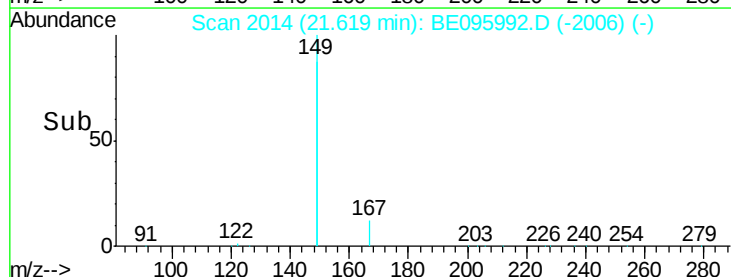
279 0.8 0.7 1.1



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

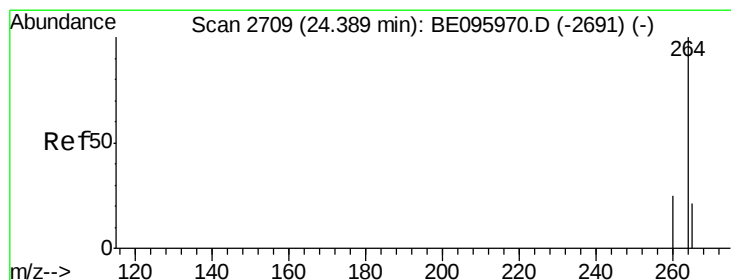
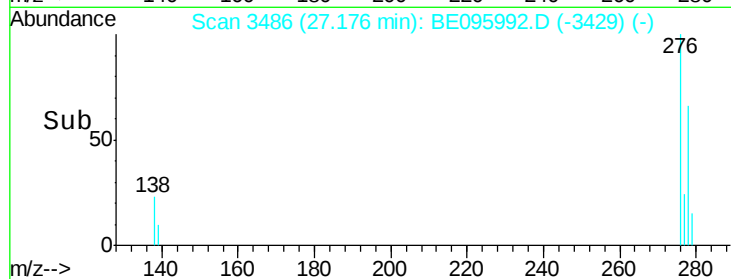
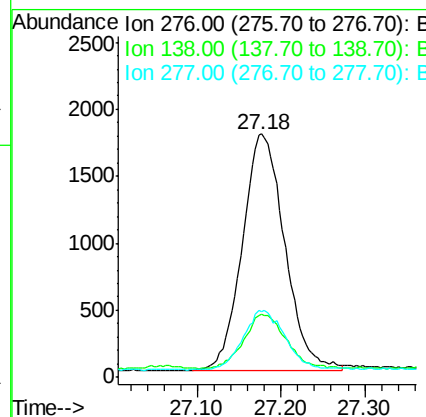
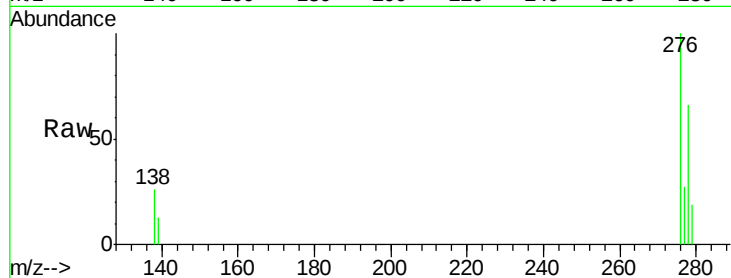




#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.333 ng  
 RT: 27.18 min Scan# 3486  
 Delta R.T. 0.00 min  
 Lab File: BE095992.D  
 Acq: 13 Apr 2018 12:07

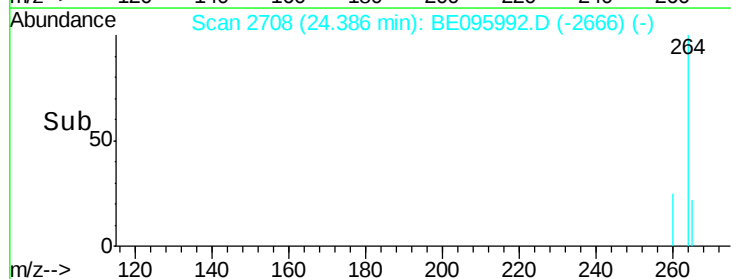
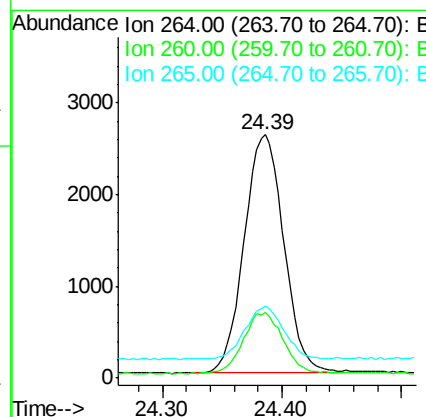
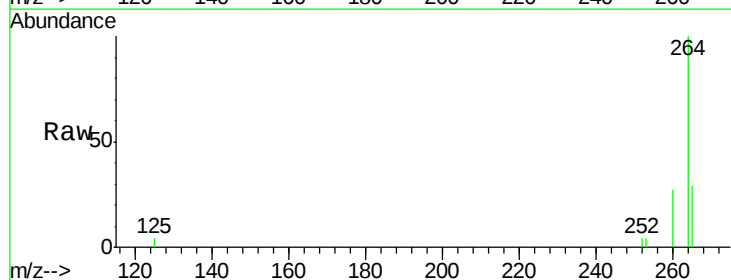
Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:276 Resp: 6217  
 Ion Ratio Lower Upper  
 276 100  
 138 23.1 22.5 33.7  
 277 24.4 19.9 29.9



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 24.39 min Scan# 2708  
 Delta R.T. 0.00 min  
 Lab File: BE095992.D  
 Acq: 13 Apr 2018 12:07

Tgt Ion:264 Resp: 6016  
 Ion Ratio Lower Upper  
 264 100  
 260 26.9 20.5 30.7  
 265 29.4 22.8 34.2





#35

Benzo(b)fluoranthene

Concen: 0.320 ng

RT: 23.57 min Scan# 2480

Delta R.T. 0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

Instrument :

BNA\_E

ClientSampleId :

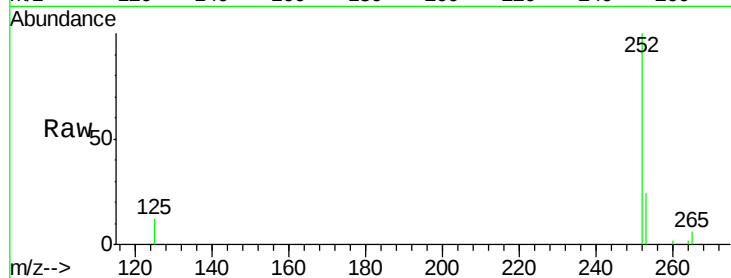
Tot Ion:252 Resp: 5775

Ion Ratio Lower Upper

252 100

253 24.3 20.0 30.0

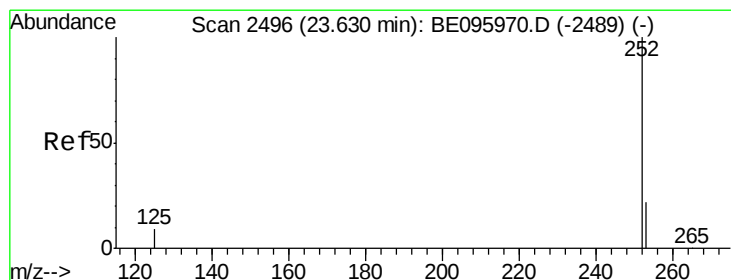
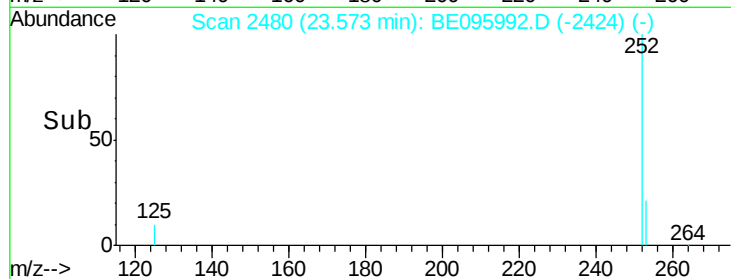
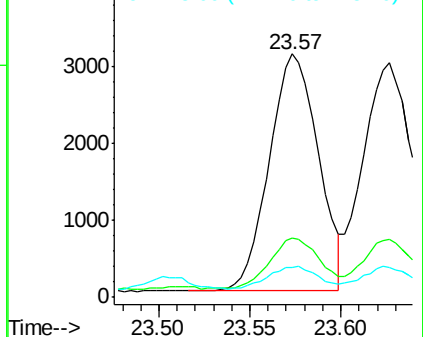
125 12.5 16.0 24.0#



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

Benzo(k)fluoranthene

Concen: 0.315 ng

RT: 23.63 min Scan# 2495

Delta R.T. 0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

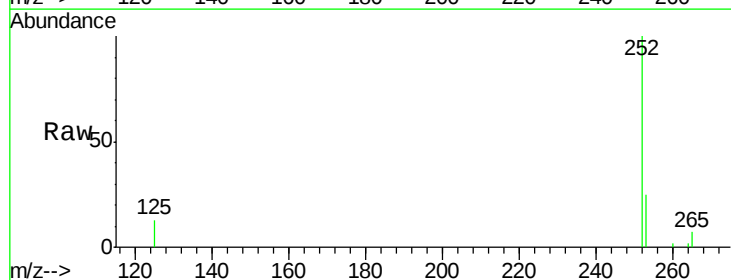
Tgt Ion:252 Resp: 5838

Ion Ratio Lower Upper

252 100

253 24.5 16.0 24.0#

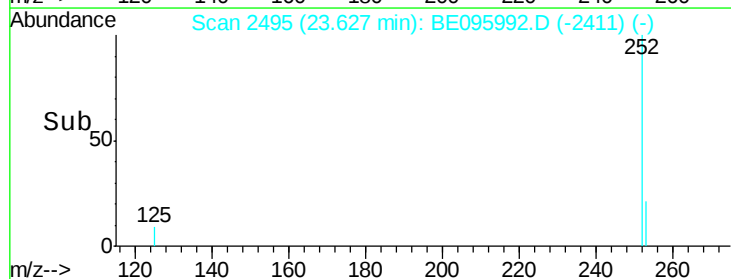
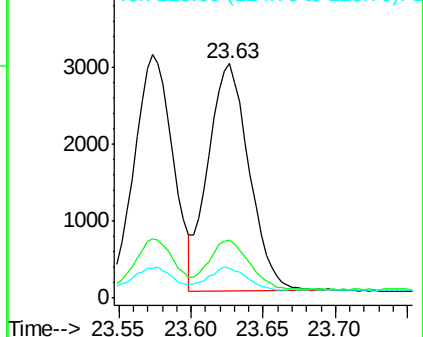
125 12.5 8.0 12.0#



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





#37

Benzo(a)pyrene

Concen: 0.318 ng

RT: 24.27 min Scan# 2675

Delta R.T. 0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

Instrument :

BNA\_E

ClientSampleId :

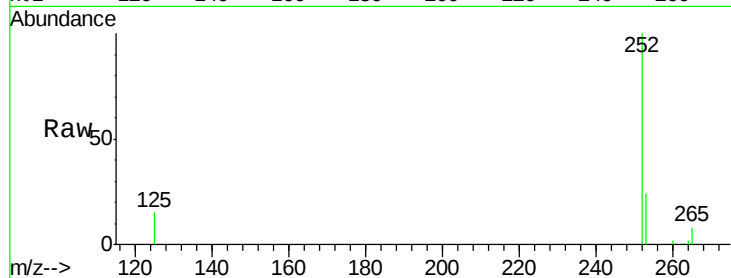
Tot Ion:252 Resp: 5522

Ion Ratio Lower Upper

252 100

253 24.1 16.0 24.0#

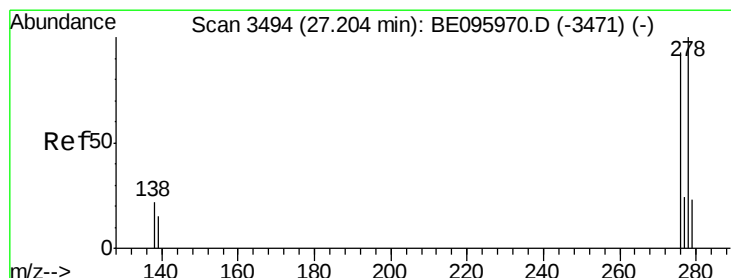
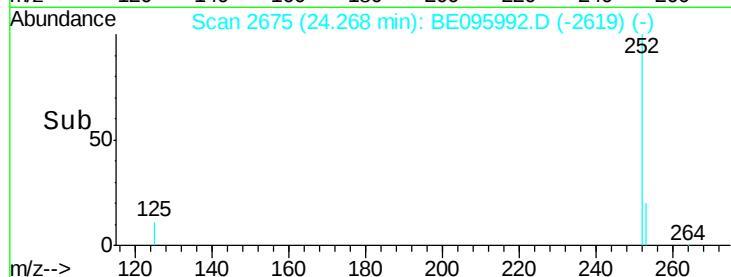
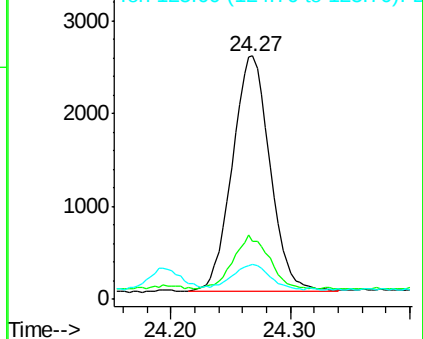
125 14.5 12.0 18.0



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



#38

Dibenzo(a,h)anthracene

Concen: 0.327 ng

RT: 27.19 min Scan# 3491

Delta R.T. 0.00 min

Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

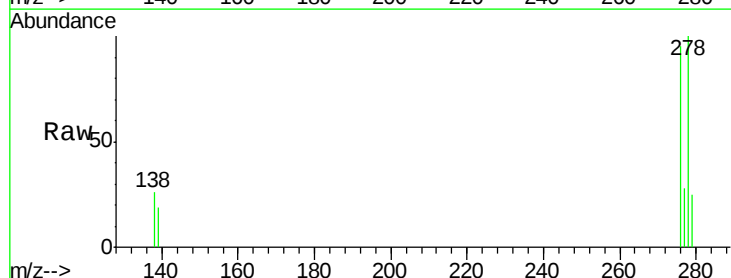
Tgt Ion:278 Resp: 5000

Ion Ratio Lower Upper

278 100

139 18.7 16.0 24.0

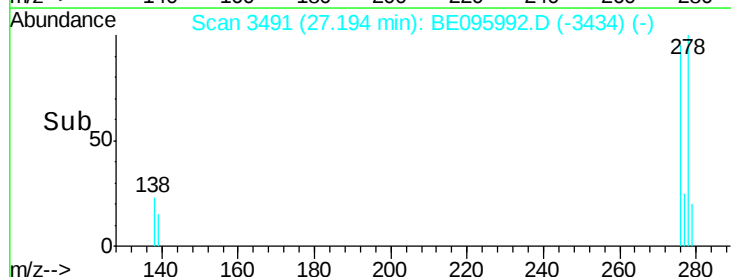
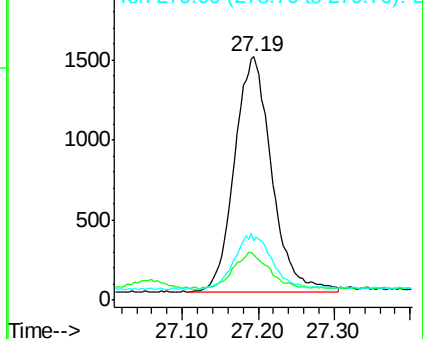
279 24.5 20.0 30.0



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





#39

Benzo(a,h,i)perylene

Concen: 0.329 ng

RT: 28.05 min Scan# 3730

Delta R.T. 0.00 min

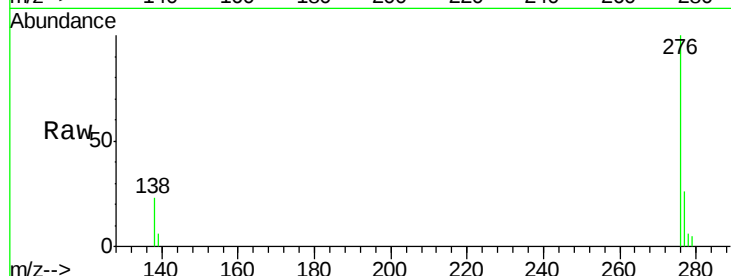
Lab File: BE095992.D

Acq: 13 Apr 2018 12:07

Instrument :

BNA\_E

ClientSampleId :



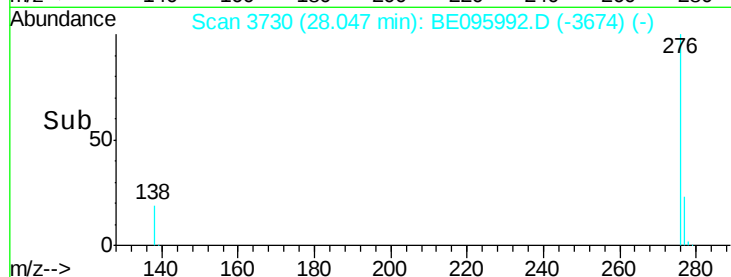
Tot Ion: 276 Resp: 5323

Ion Ratio Lower Upper

276 100

277 26.4 16.0 24.0#

138 22.9 20.0 30.0



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

