

Data Path : Z:\HPCHEM1\BNA E\DATA\BE032618\  
 Data File : BE095838.D  
 Acq On : 26 Mar 2018 13:51  
 Operator : SJ/JU  
 Sample : J1994-09MS  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Mar 27 05:40:27 2018  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE032318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 23 12:41:11 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.42  | 152  | 1181     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 11.26 | 136  | 4241     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.99 | 164  | 2352     | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.70 | 188  | 5431     | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.79 | 240  | 6515     | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 24.42 | 264  | 6457     | 0.40 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.91  | 112  | 694      | 0.18 | ng    | 0.00     |
| 5) Phenol-d6                | 7.56  | 99   | 587      | 0.11 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 9.59  | 82   | 2472     | 0.49 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.79 | 152  | 2729     | 0.39 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 16.46 | 330  | 530      | 0.39 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl        | 13.63 | 172  | 5933     | 0.60 | ng    | -0.01    |
| 25) Fluoranthene-d10        | 19.68 | 212  | 31072    | 0.39 | ng    | 0.00     |
| 29) Terphenyl-d14           | 20.24 | 244  | 8298     | 0.60 | ng    | 0.00     |

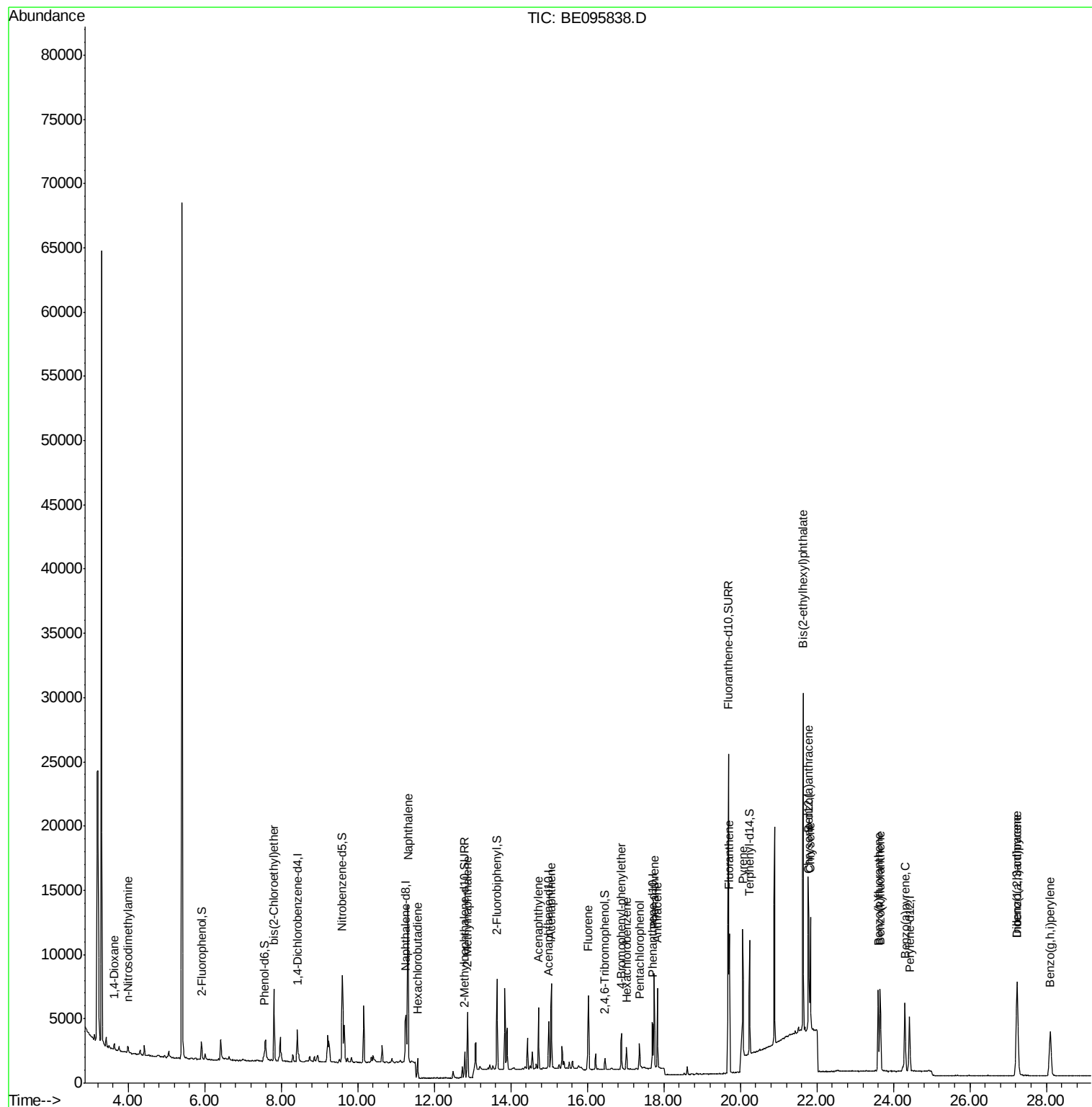
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.63  | 88   | 299      | 0.155 | ng    | # 64   |
| 3) n-Nitrosodimethylamine      | 3.98  | 42   | 373      | 0.131 | ng    | 87     |
| 6) bis(2-Chloroethyl)ether     | 7.81  | 93   | 1834     | 0.397 | ng    | 95     |
| 9) Naphthalene                 | 11.31 | 128  | 21395    | 0.442 | ng    | 100    |
| 10) Hexachlorobutadiene        | 11.56 | 225  | 1289     | 0.387 | ng    | 98     |
| 12) 2-Methylnaphthalene        | 12.87 | 142  | 3609     | 0.436 | ng    | 98     |
| 16) Acenaphthylene             | 14.73 | 152  | 5437     | 0.404 | ng    | 99     |
| 17) Acenaphthene               | 15.06 | 154  | 3277     | 0.399 | ng    | 96     |
| 18) Fluorene                   | 16.02 | 166  | 4275     | 0.396 | ng    | # 78   |
| 20) 4-Bromophenyl-phenylether  | 16.89 | 248  | 1378     | 0.422 | ng    | # 85   |
| 21) Hexachlorobenzene          | 17.02 | 284  | 1331     | 0.408 | ng    | # 80   |
| 22) Pentachlorophenol          | 17.36 | 266  | 1071     | 1.001 | ng    | # 72   |
| 23) Phenanthrene               | 17.74 | 178  | 7081     | 0.436 | ng    | 99     |
| 24) Anthracene                 | 17.84 | 178  | 6953     | 0.428 | ng    | 95     |
| 26) Fluoranthene               | 19.71 | 202  | 9410     | 0.417 | ng    | 97     |
| 28) Pyrene                     | 20.06 | 202  | 11422    | 0.430 | ng    | 97     |
| 30) Benzo(a)anthracene         | 21.78 | 228  | 9613     | 0.425 | ng    | 97     |
| 31) Chrysene                   | 21.83 | 228  | 9035     | 0.438 | ng    | 96     |
| 32) Bis(2-ethylhexyl)phthalate | 21.64 | 149  | 29430    | 0.426 | ng    | 99     |
| 33) Indeno(1,2,3-cd)pyrene     | 27.23 | 276  | 10281    | 0.463 | ng    | # 93   |
| 35) Benzo(b)fluoranthene       | 23.60 | 252  | 9314     | 0.436 | ng    | # 94   |
| 36) Benzo(k)fluoranthene       | 23.66 | 252  | 9058     | 0.424 | ng    | # 92   |
| 37) Benzo(a)pyrene             | 24.30 | 252  | 8803     | 0.440 | ng    | # 92   |
| 38) Dibenzo(a,h)anthracene     | 27.24 | 278  | 8418     | 0.443 | ng    | 97     |
| 39) Benzo(g,h,i)perylene       | 28.10 | 276  | 8612     | 0.451 | ng    | # 92   |

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

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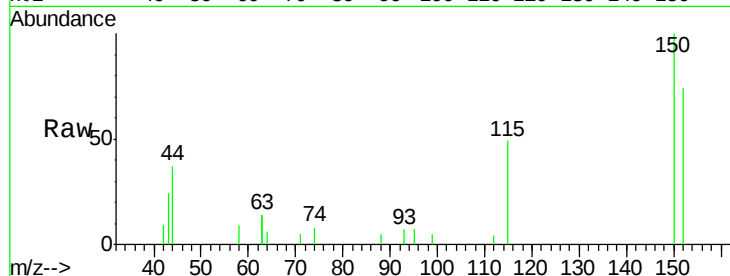


#1

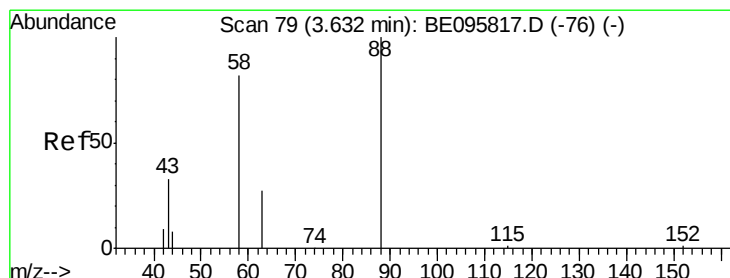
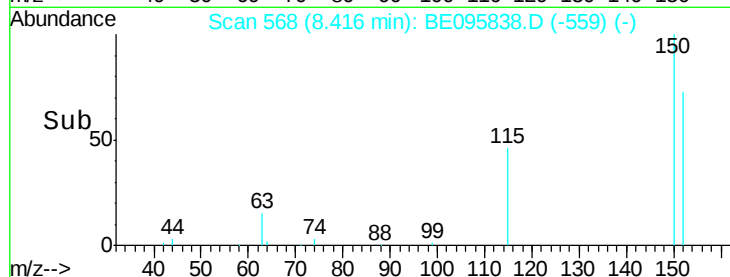
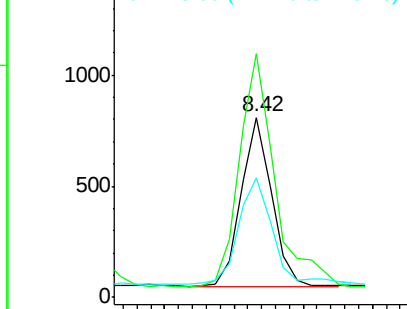
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 8.42 min Scan# 568  
Delta R.T. -0.01 min  
Lab File: BE095838.D  
Acq: 26 Mar 2018 13:51

Instrument :  
BNA\_E  
ClientSampled :

Tot Ion: 152 Resp: 1181  
Ion Ratio Lower Upper  
152 100  
150 135.1 117.2 175.8  
115 66.6 57.0 85.6



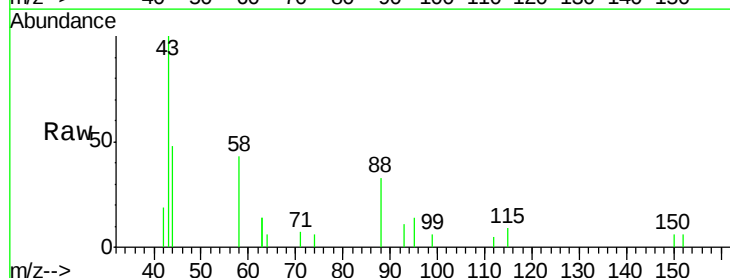
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



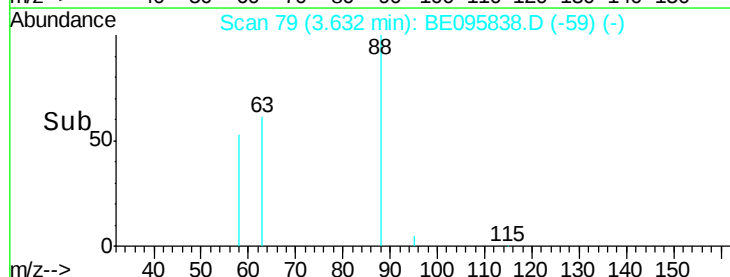
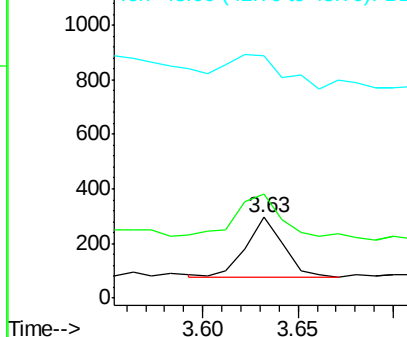
#2

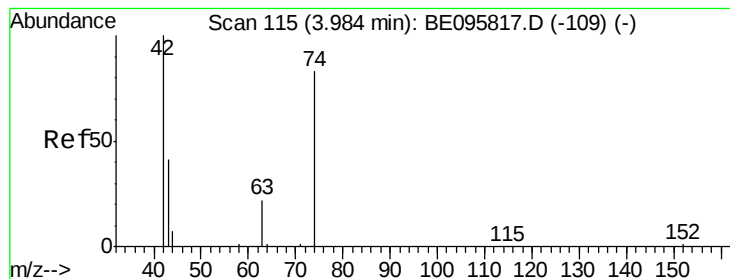
1,4-Dioxane  
Concen: 0.155 ng  
RT: 3.63 min Scan# 79  
Delta R.T. -0.00 min  
Lab File: BE095838.D  
Acq: 26 Mar 2018 13:51

Tgt Ion: 88 Resp: 299  
Ion Ratio Lower Upper  
88 100  
58 103.7 63.2 94.8#  
43 84.9 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



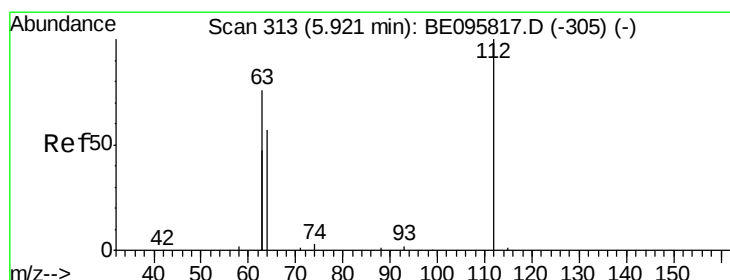
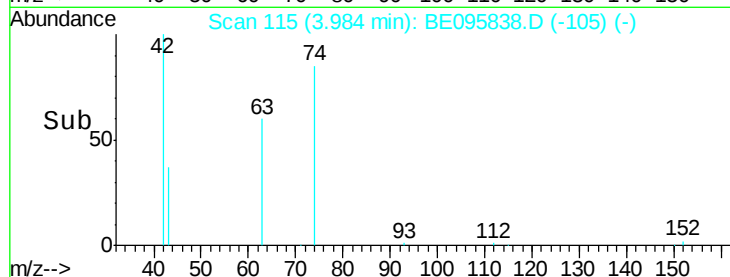
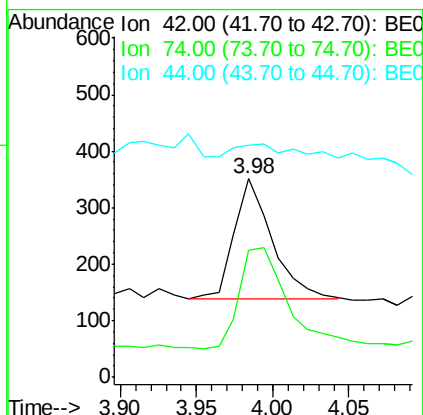
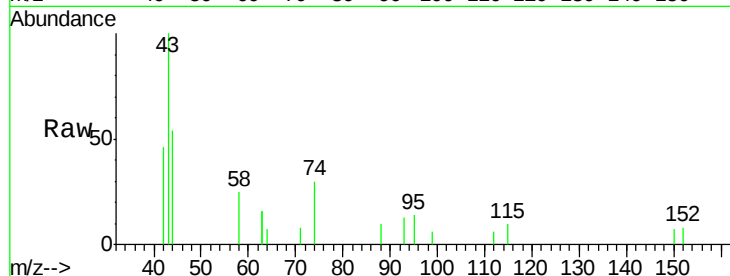


#3

n-Nitrosodimethylamine  
 Concen: 0.131 ng  
 RT: 3.98 min Scan# 115  
 Delta R.T. -0.00 min  
 Lab File: BE095838.D  
 Acq: 26 Mar 2018 13:51

Instrument :  
 BNA\_E  
 ClientSampled :

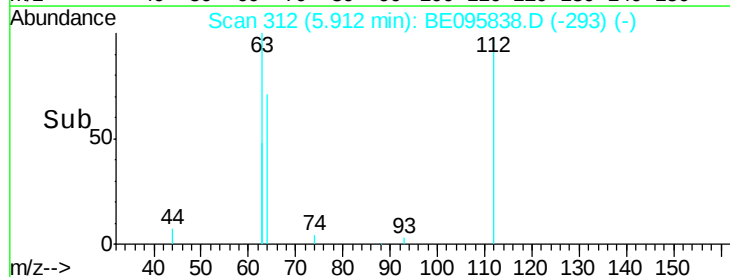
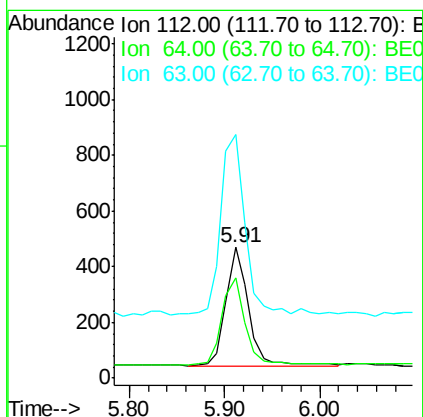
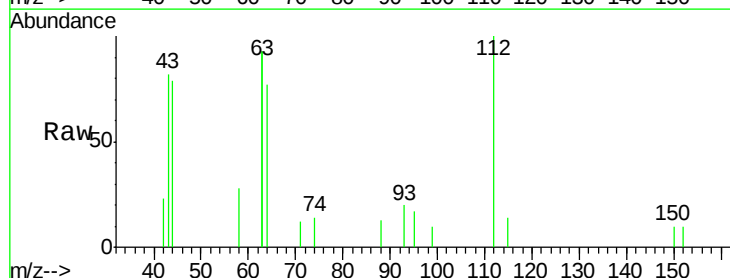
Tot Ion: 42 Resp: 373  
 Ion Ratio Lower Upper  
 42 100  
 74 104.8 96.0 144.0  
 44 17.2 12.0 18.0

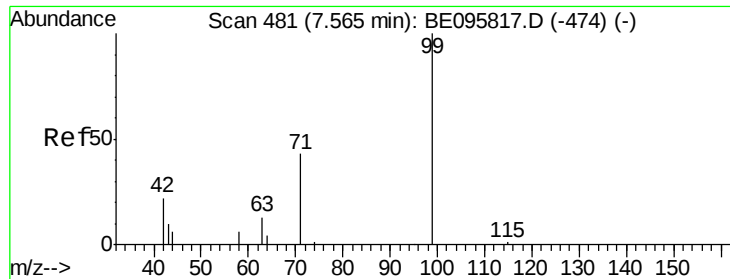


#4

2-Fluorophenol  
 Concen: 0.178 ng  
 RT: 5.91 min Scan# 312  
 Delta R.T. -0.01 min  
 Lab File: BE095838.D  
 Acq: 26 Mar 2018 13:51

Tgt Ion: 112 Resp: 694  
 Ion Ratio Lower Upper  
 112 100  
 64 76.5 60.1 90.1  
 63 170.2 116.8 175.2





#5

Phenol-d6

Concen: 0.110 ng

RT: 7.56 min Scan# 480

Delta R.T. -0.01 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

Instrument :

BNA\_E

ClientSampleId :

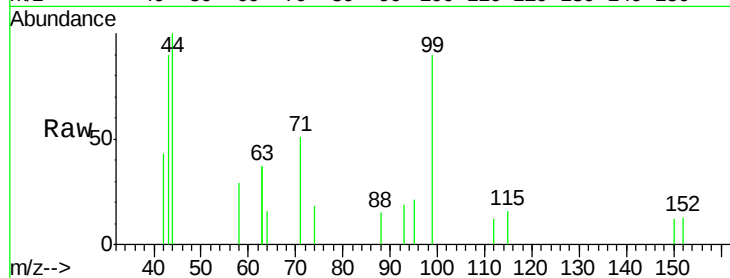
Tot Ion: 99 Resp: 587

Ion Ratio Lower Upper

99 100

42 42.6 20.2 30.2#

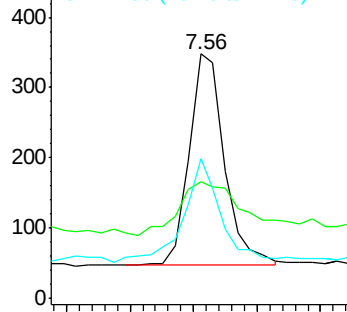
71 52.0 28.4 42.6#



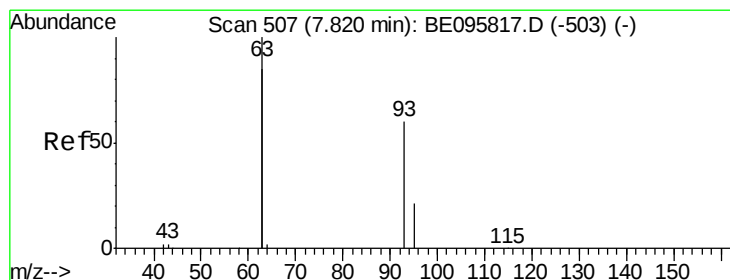
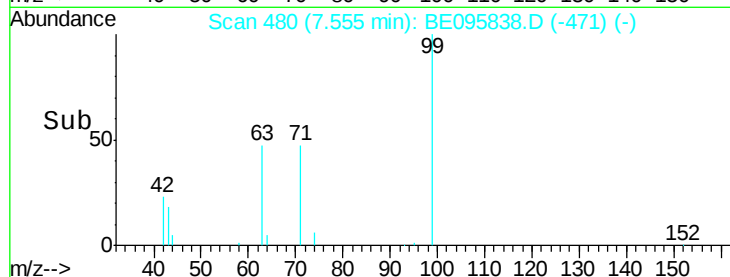
Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



Time--> 7.45 7.50 7.55 7.60 7.65



#6

bis(2-Chloroethyl)ether

Concen: 0.397 ng

RT: 7.81 min Scan# 506

Delta R.T. -0.01 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

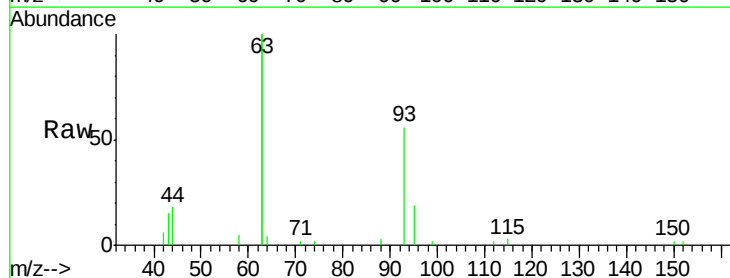
Tgt Ion: 93 Resp: 1834

Ion Ratio Lower Upper

93 100

63 333.4 275.3 412.9

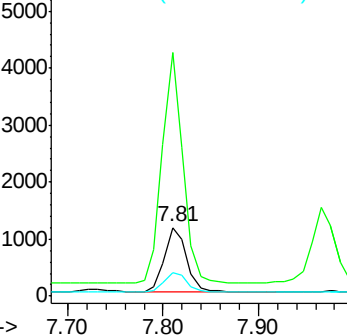
95 30.6 25.2 37.8



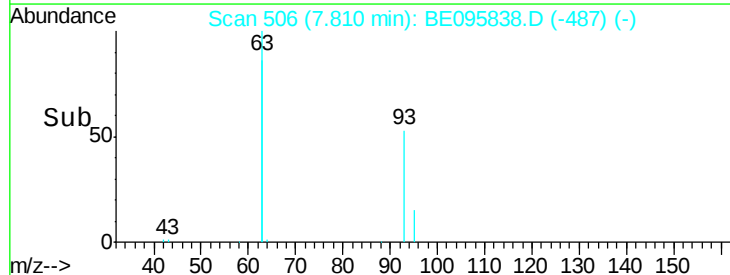
Abundance Ion 93.00 (92.70 to 93.70): BE0

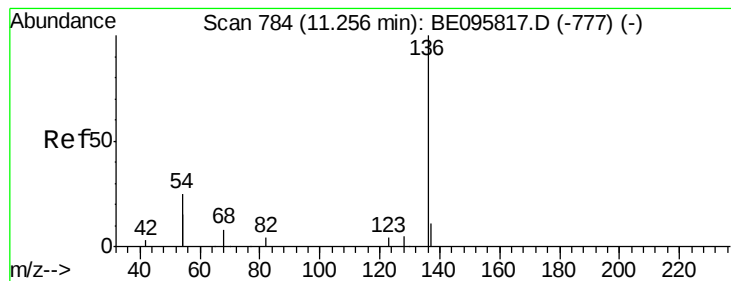
Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0



Time--> 7.70 7.80 7.90





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.26 min Scan# 784

Delta R.T. -0.00 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 4241

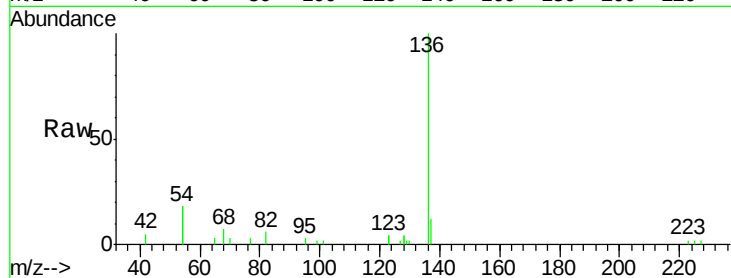
Ion Ratio Lower Upper

136 100

137 12.5 9.5 14.3

54 35.8 29.1 43.7

68 7.3 6.2 9.2

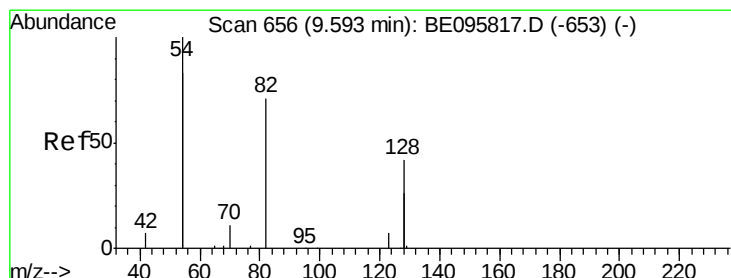
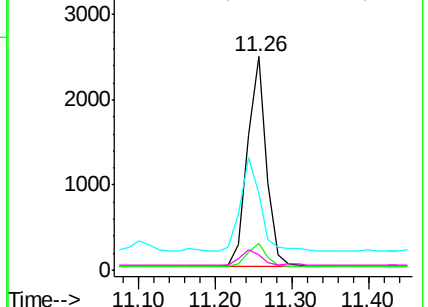
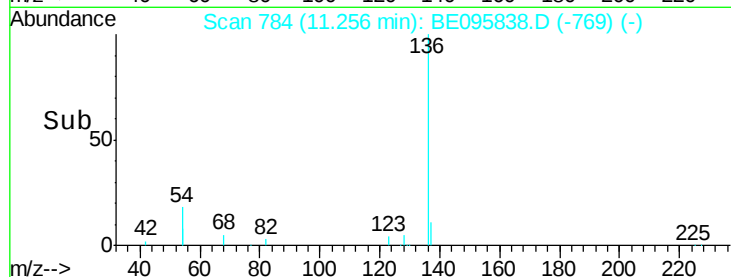


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.493 ng

RT: 9.59 min Scan# 656

Delta R.T. -0.00 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

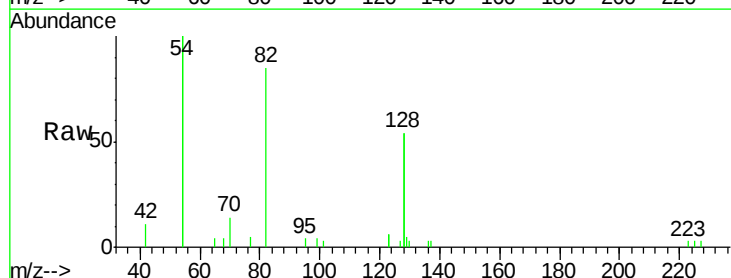
Tgt Ion: 82 Resp: 2472

Ion Ratio Lower Upper

82 100

128 126.8 150.0 225.0#

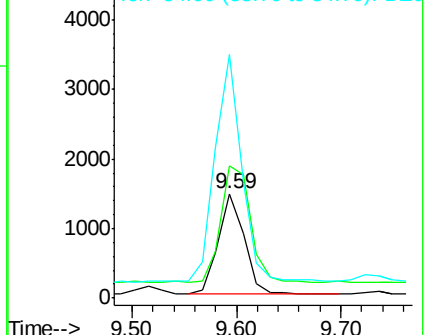
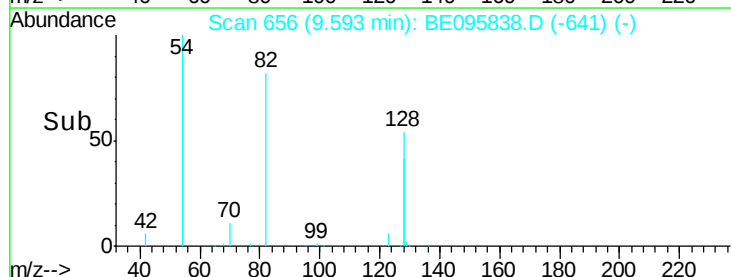
54 233.9 154.2 231.4#



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: 0.442 ng

RT: 11.31 min Scan# 788

Delta R.T. -0.00 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

Instrument :

BNA\_E

ClientSampleId :

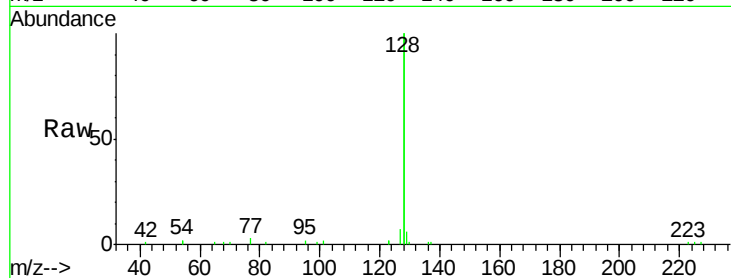
Tot Ion:128 Resp: 21395

Ion Ratio Lower Upper

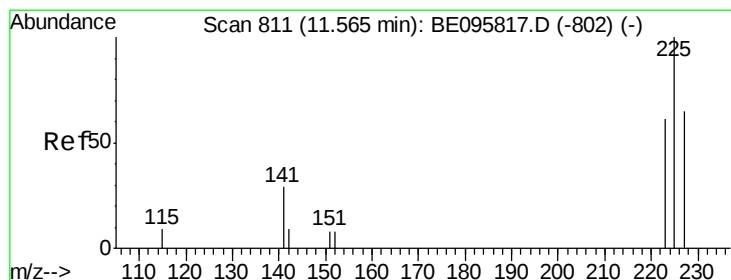
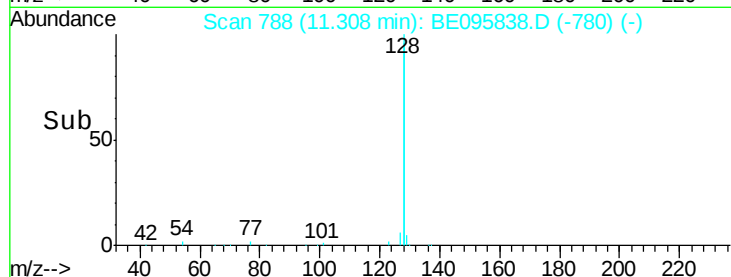
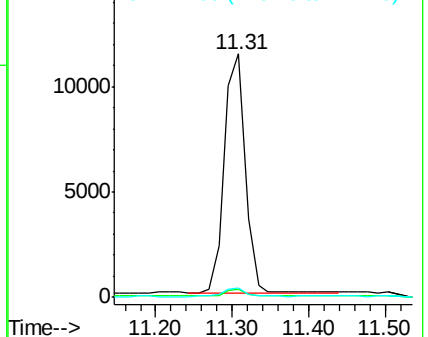
128 100

129 3.1 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: 0.387 ng

RT: 11.56 min Scan# 810

Delta R.T. -0.00 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

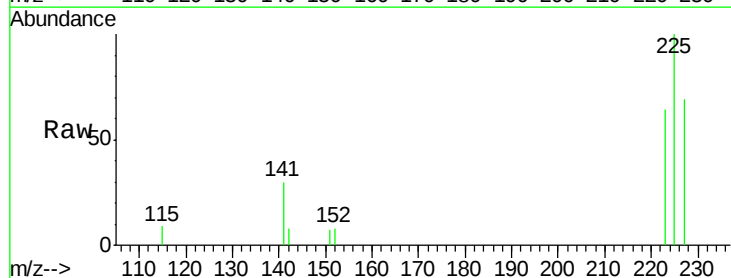
Tgt Ion:225 Resp: 1289

Ion Ratio Lower Upper

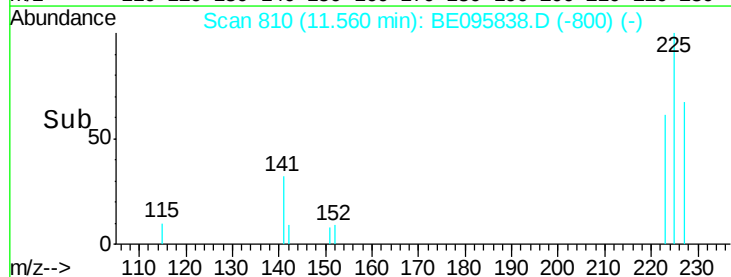
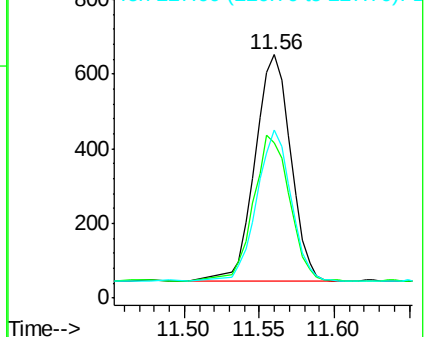
225 100

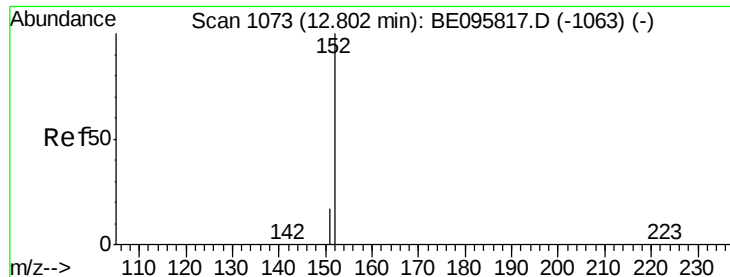
223 63.4 53.0 79.6

227 63.4 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: 0.386 ng

RT: 12.79 min Scan# 1071

Delta R.T. -0.01 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

Instrument :

BNA\_E

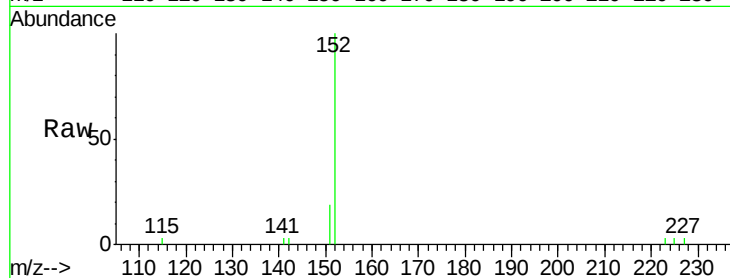
ClientSampleId :

Tot Ion:152 Resp: 2729

Ion Ratio Lower Upper

152 100

151 19.0 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.79

2000

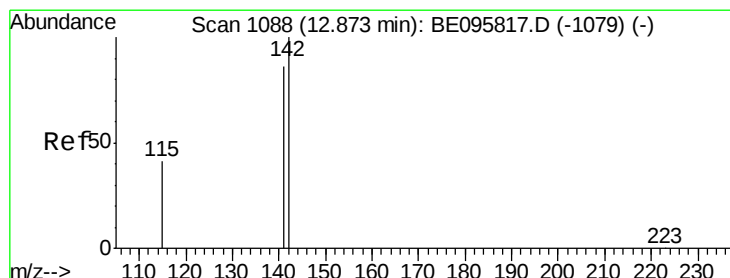
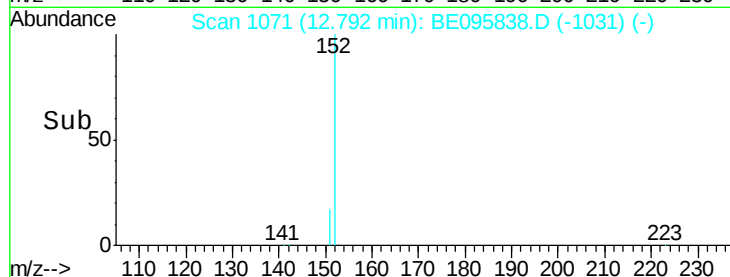
1500

1000

500

0

Time-->



#12

2-Methylnaphthalene

Concen: 0.436 ng

RT: 12.87 min Scan# 1087

Delta R.T. -0.00 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

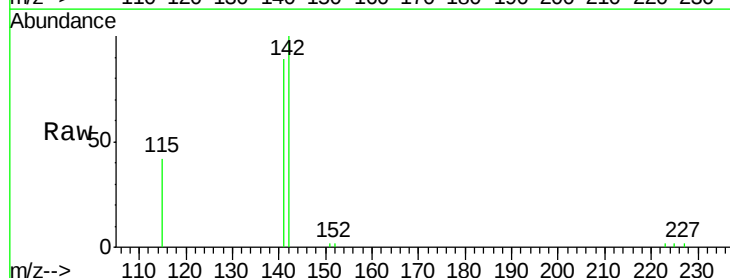
Tgt Ion:142 Resp: 3609

Ion Ratio Lower Upper

142 100

141 89.1 70.4 105.6

115 42.0 31.7 47.5



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

12.87

3000

2500

2000

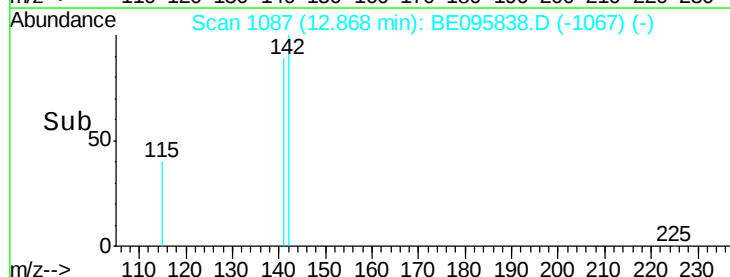
1500

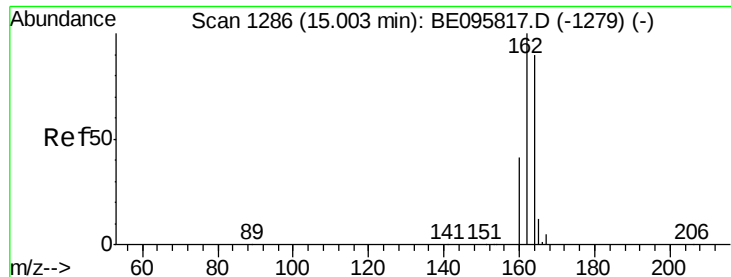
1000

500

0

Time-->





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.99 min Scan# 1285

Delta R.T. -0.01 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

Instrument :

BNA\_E

ClientSampleId :

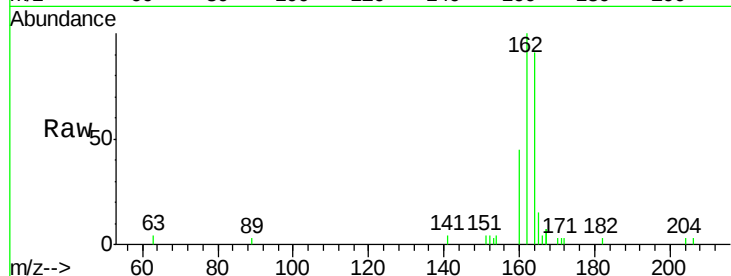
Tot Ion:164 Resp: 2352

Ion Ratio Lower Upper

164 100

162 110.3 83.1 124.7

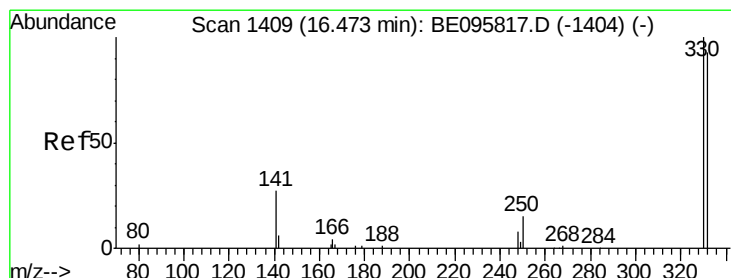
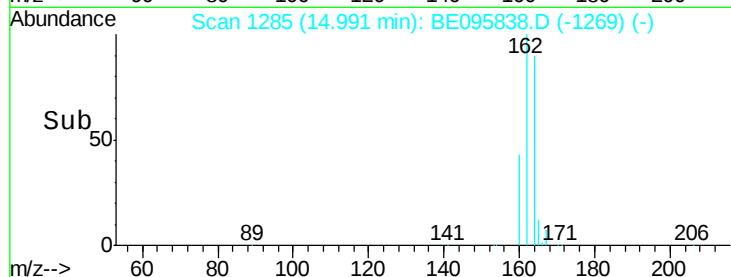
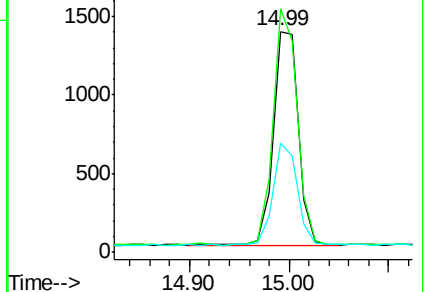
160 49.7 37.1 55.7



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: 0.390 ng

RT: 16.46 min Scan# 1408

Delta R.T. -0.01 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

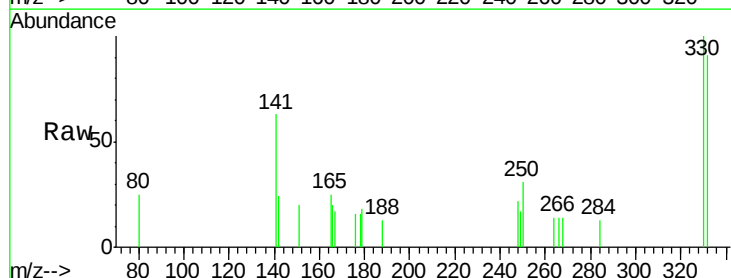
Tgt Ion:330 Resp: 530

Ion Ratio Lower Upper

330 100

332 94.2 152.7 229.1#

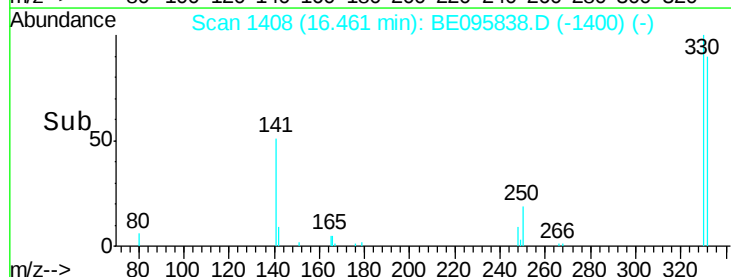
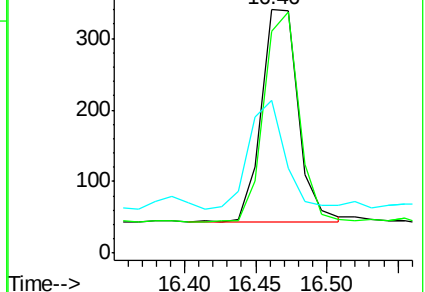
141 50.0 33.7 50.5

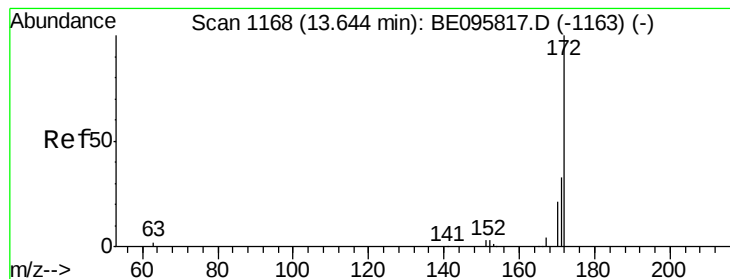


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

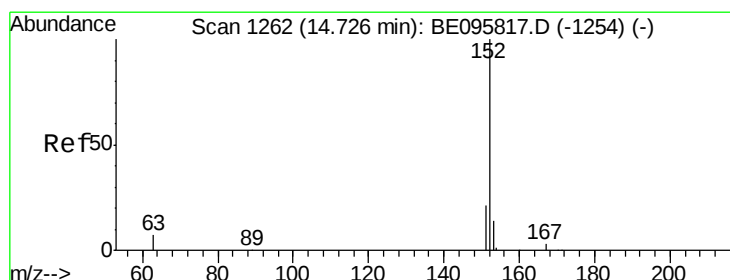
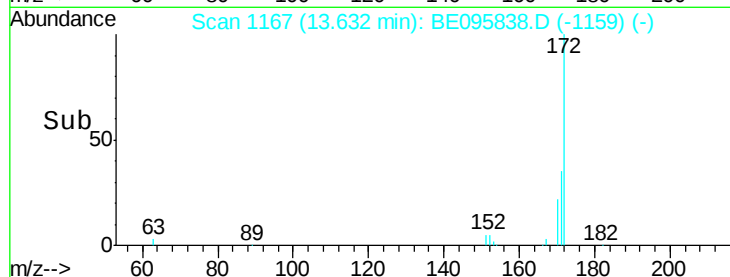
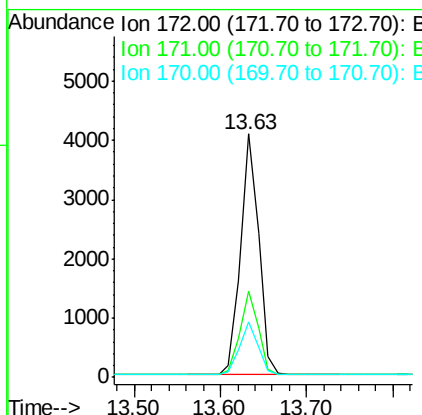
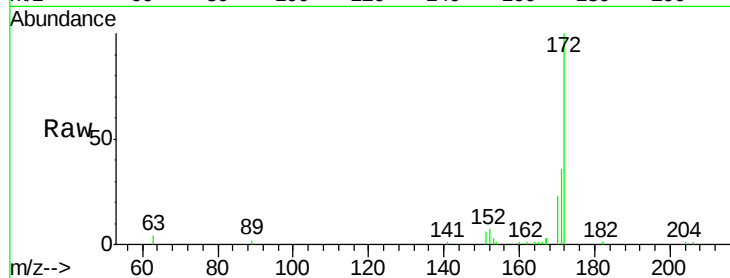




#15  
2-Fluorobiphenyl  
Concen: 0.599 ng  
RT: 13.63 min Scan# 1167  
Delta R.T. -0.01 min  
Lab File: BE095838.D  
Acq: 26 Mar 2018 13:51

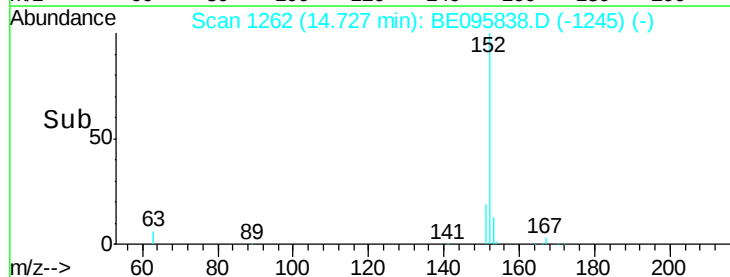
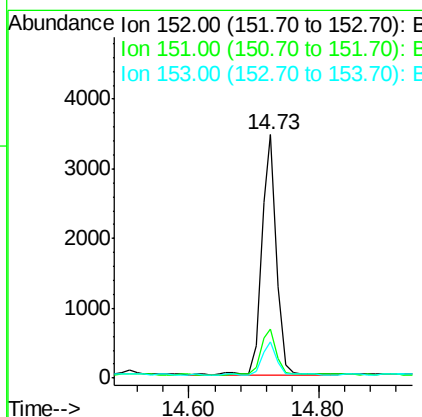
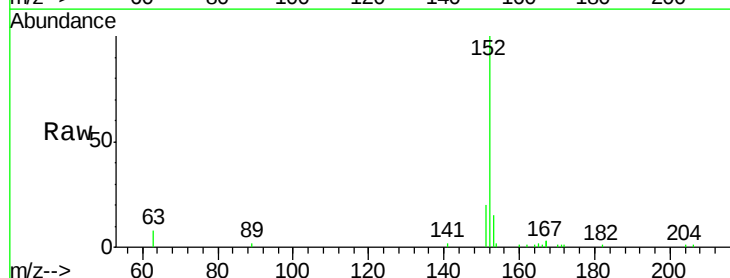
Instrument :  
BNA\_E  
ClientSampled :

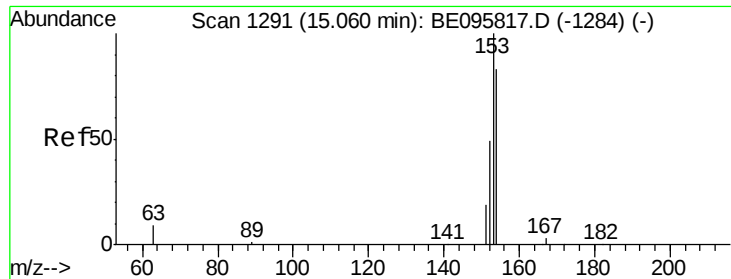
Tot Ion:172 Resp: 5933  
Ion Ratio Lower Upper  
172 100  
171 35.6 29.9 44.9  
170 22.8 21.8 32.8



#16  
Acenaphthylene  
Concen: 0.404 ng  
RT: 14.73 min Scan# 1262  
Delta R.T. 0.00 min  
Lab File: BE095838.D  
Acq: 26 Mar 2018 13:51

Tgt Ion:152 Resp: 5437  
Ion Ratio Lower Upper  
152 100  
151 19.9 15.7 23.5  
153 13.5 10.5 15.7





#17

Acenaphthene

Concen: 0.399 ng

RT: 15.06 min Scan# 1291

Delta R.T. 0.00 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

Instrument :

BNA\_E

ClientSampleId :

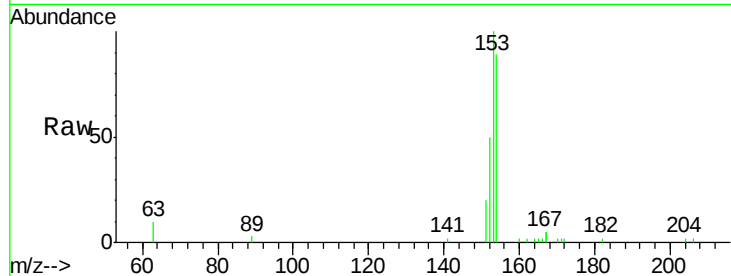
Tot Ion:154 Resp: 3277

Ion Ratio Lower Upper

154 100

153 114.4 89.2 133.8

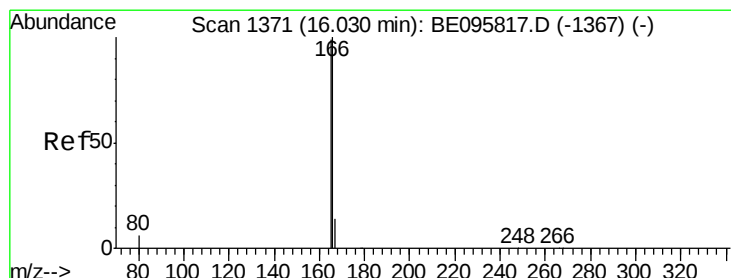
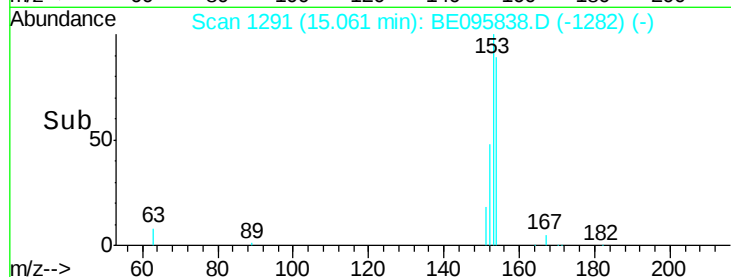
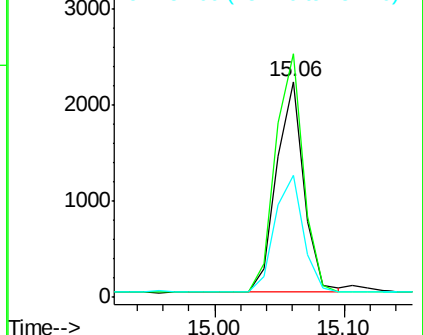
152 57.4 42.0 63.0



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: 0.396 ng

RT: 16.02 min Scan# 1370

Delta R.T. -0.01 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

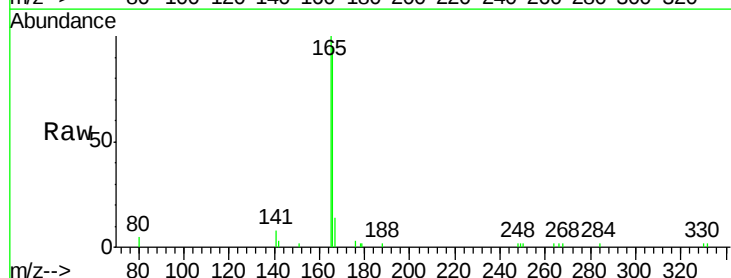
Tgt Ion:166 Resp: 4275

Ion Ratio Lower Upper

166 100

165 100.9 77.8 116.6

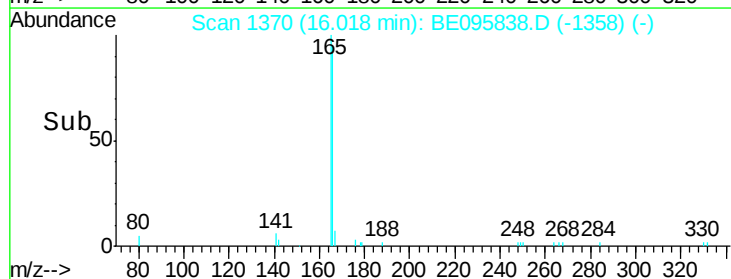
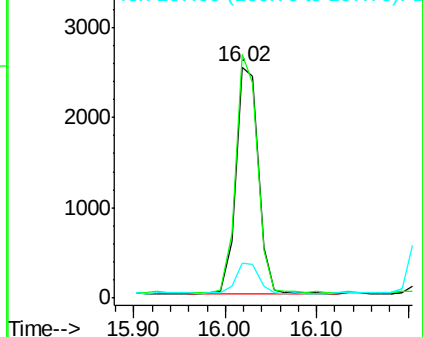
167 14.2 42.4 63.6#

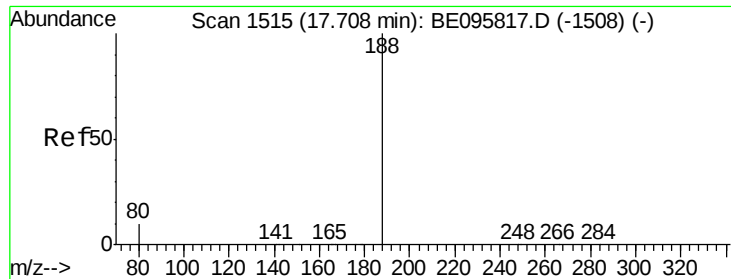


Abundance Ion 166.00 (165.70 to 166.70): E

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: 17.70 min Scan# 1514

Delta R.T. -0.01 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

Instrument :

BNA\_E

ClientSampleId :

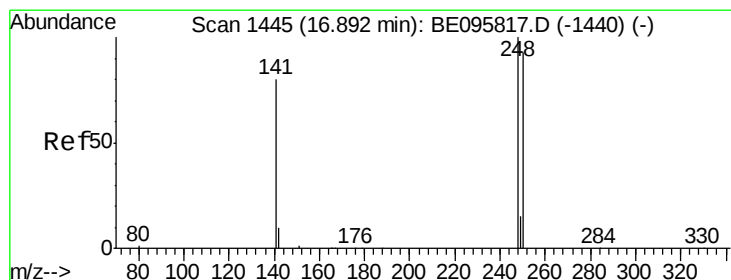
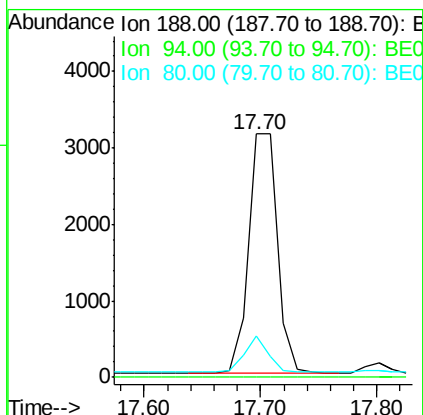
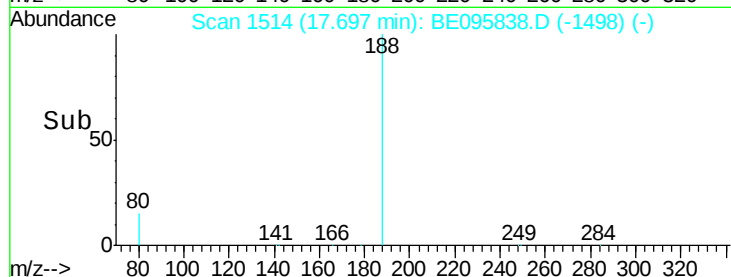
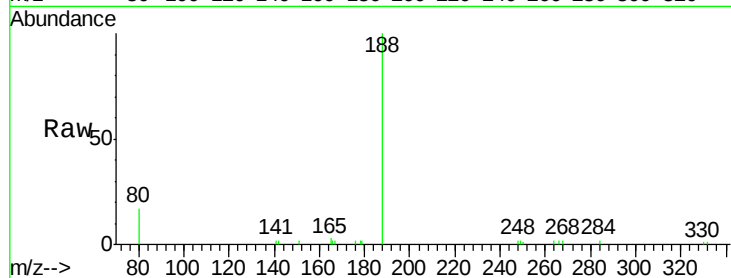
Tot Ion:188 Resp: 5431

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

80 16.9 3.6 5.4#



#20

4-Bromophenyl-phenylether

Concen: 0.422 ng

RT: 16.89 min Scan# 1445

Delta R.T. 0.00 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

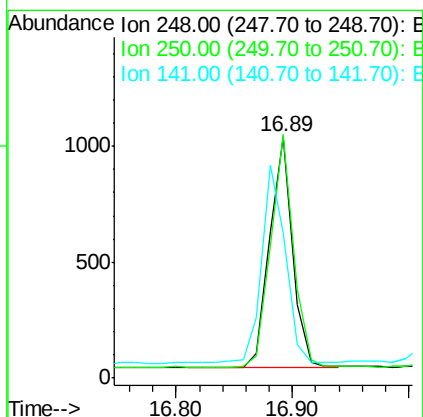
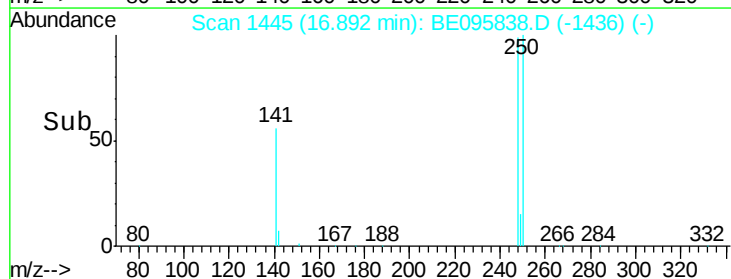
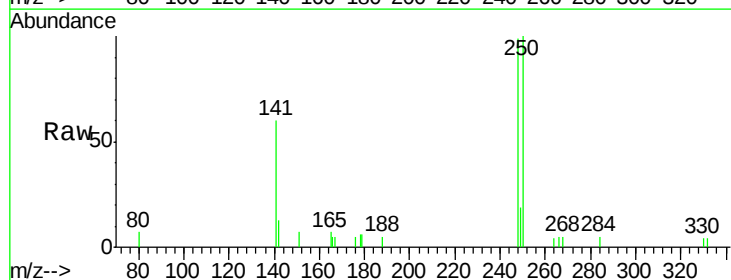
Tgt Ion:248 Resp: 1378

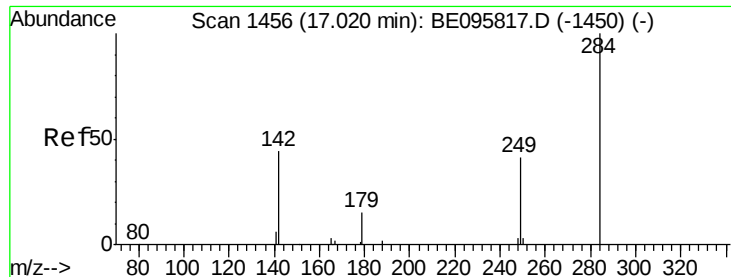
Ion Ratio Lower Upper

248 100

250 101.0 62.7 94.1#

141 60.3 48.2 72.2





#21

Hexachlorobenzene

Concen: 0.408 ng

RT: 17.02 min Scan# 1456

Delta R.T. 0.00 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

Instrument :

BNA\_E

ClientSampleId :

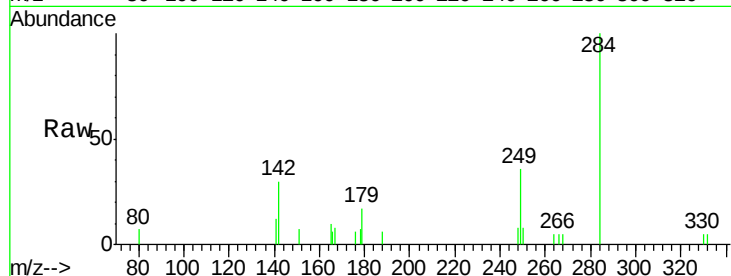
Tot Ion:284 Resp: 1331

Ion Ratio Lower Upper

284 100

142 42.3 22.1 33.1#

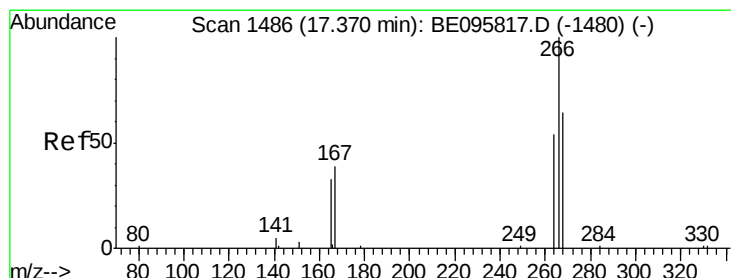
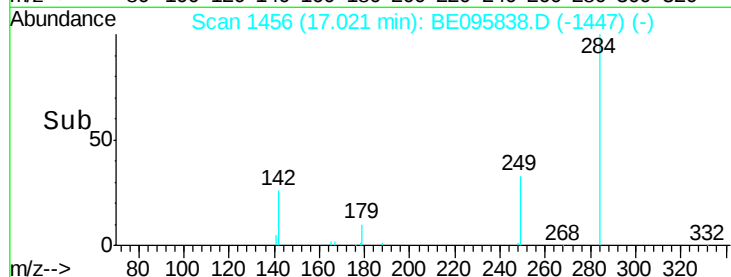
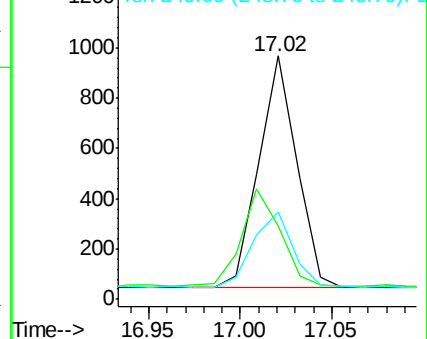
249 34.0 34.8 52.2#



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: 1.001 ng

RT: 17.36 min Scan# 1485

Delta R.T. -0.01 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

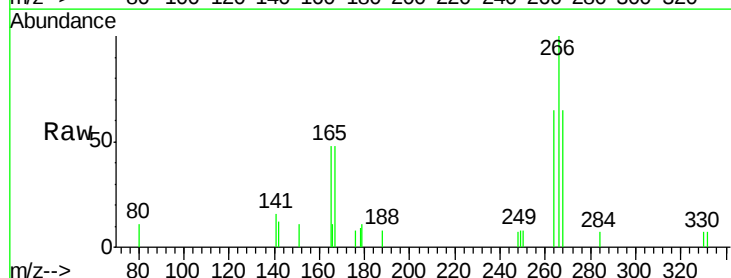
Tgt Ion:266 Resp: 1071

Ion Ratio Lower Upper

266 100

264 65.3 72.5 108.7#

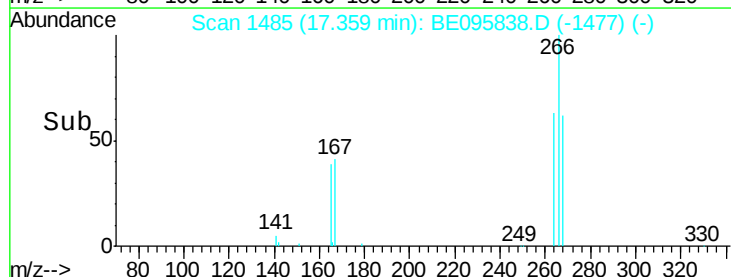
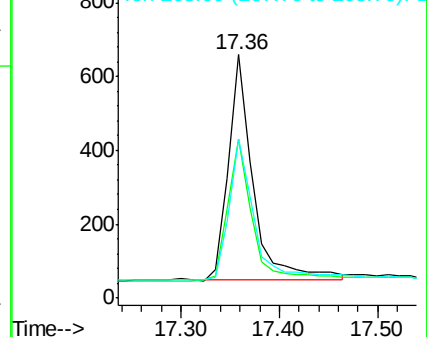
268 65.3 73.8 110.6#

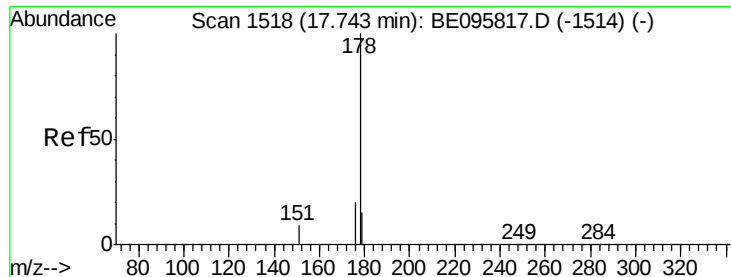


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.436 ng

RT: 17.74 min Scan# 1518

Delta R.T. 0.00 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

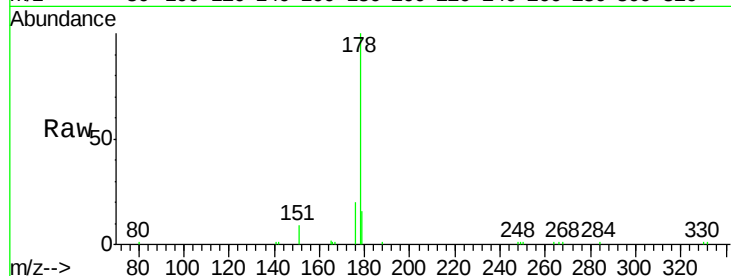
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:178 Resp: 7081

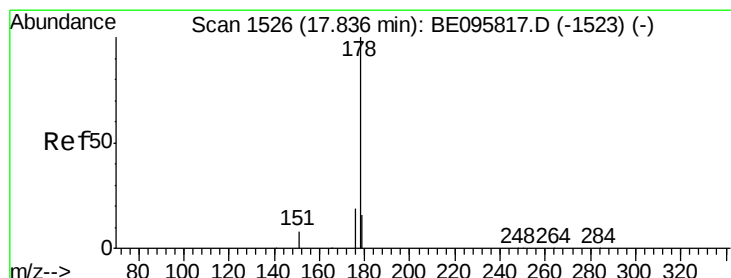
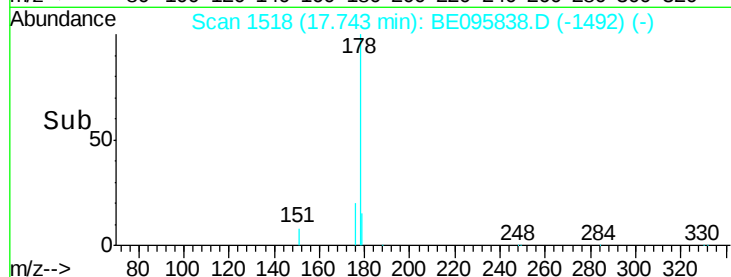
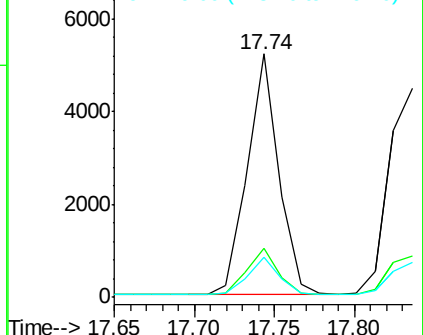
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.5  | 15.1  | 22.7  |
| 179 | 15.3  | 11.8  | 17.6  |



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: 0.428 ng

RT: 17.84 min Scan# 1526

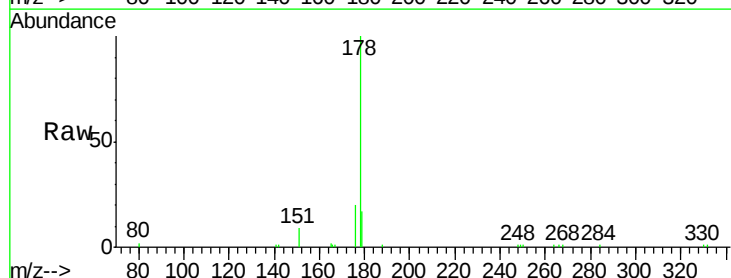
Delta R.T. 0.00 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

Tgt Ion:178 Resp: 6953

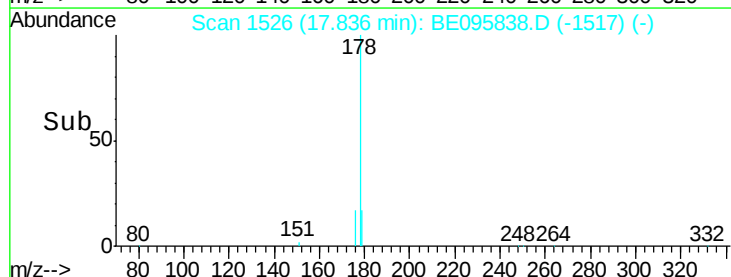
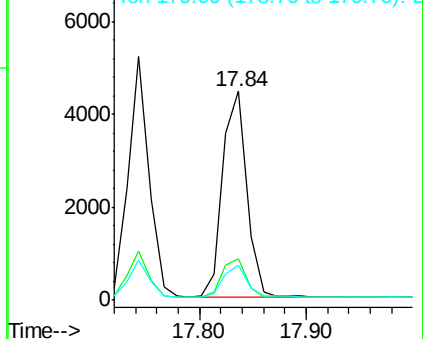
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.1  | 12.8  | 19.2  |
| 179 | 15.1  | 13.0  | 19.6  |

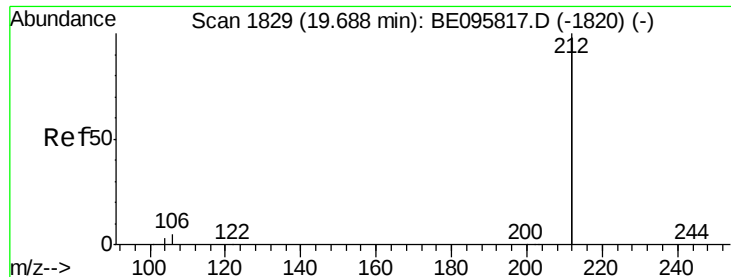


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.385 ng

RT: 19.68 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

Instrument :

BNA\_E

ClientSampleId :

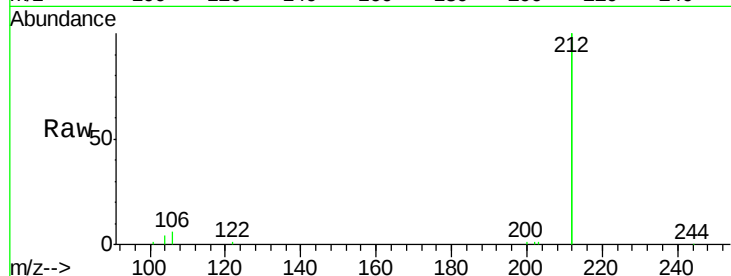
Tot Ion:212 Resp: 31072

Ion Ratio Lower Upper

212 100

106 2.9 2.8 4.2

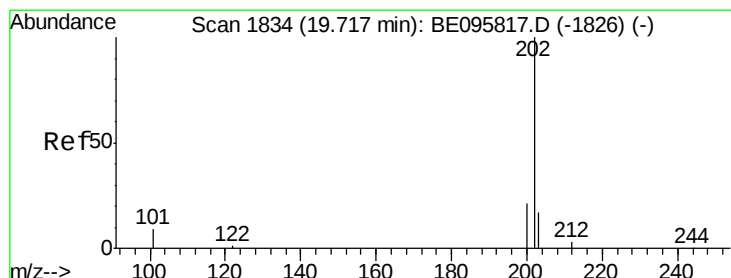
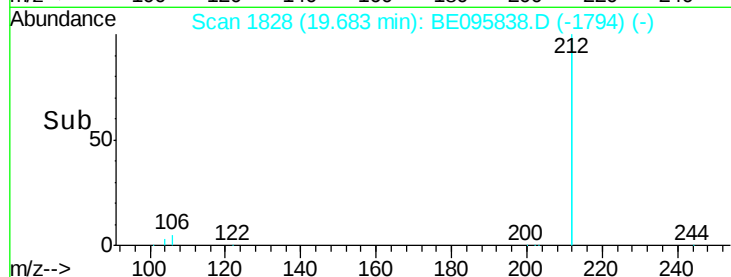
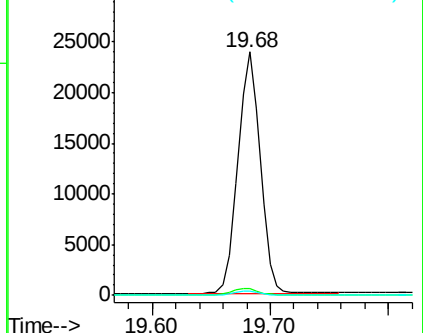
104 1.8 1.6 2.4



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: 0.417 ng

RT: 19.71 min Scan# 1833

Delta R.T. -0.01 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

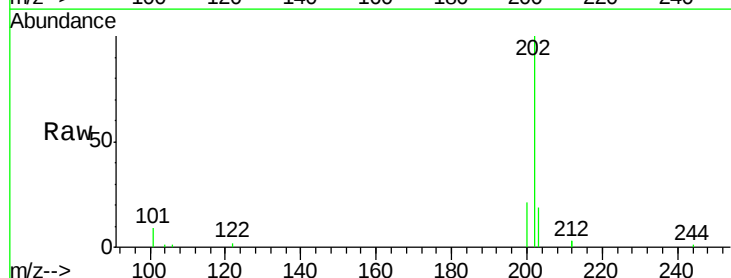
Tgt Ion:202 Resp: 9410

Ion Ratio Lower Upper

202 100

101 10.0 9.8 14.8

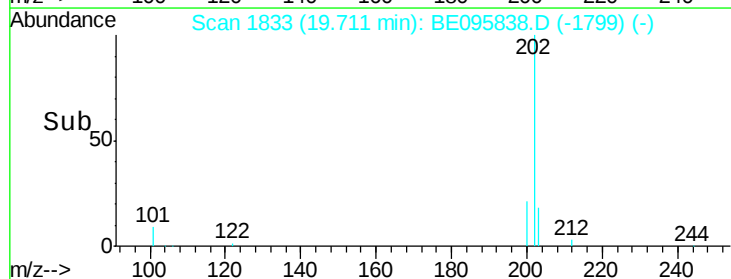
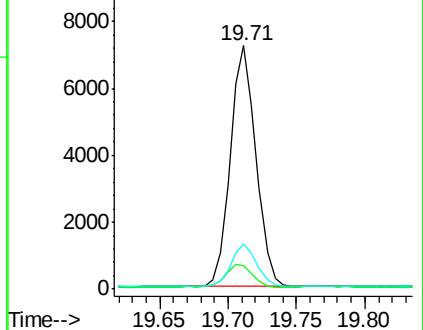
203 17.5 13.7 20.5



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: 21.79 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

Instrument :

BNA\_E

ClientSampleId :

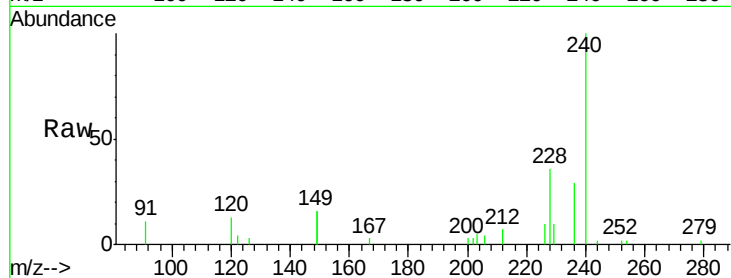
Tot Ion:240 Resp: 6515

Ion Ratio Lower Upper

240 100

120 12.8 5.5 8.3#

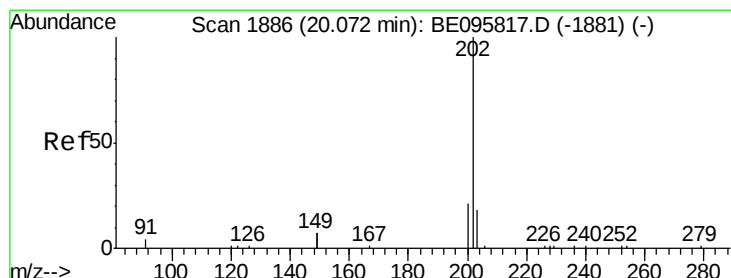
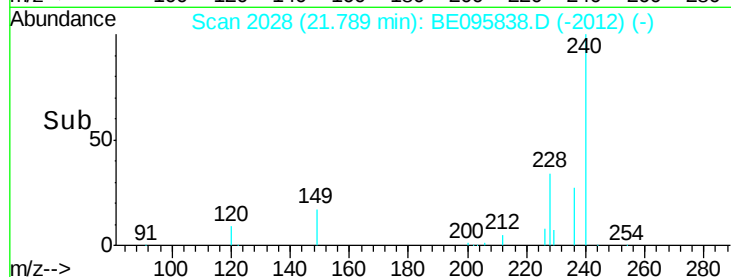
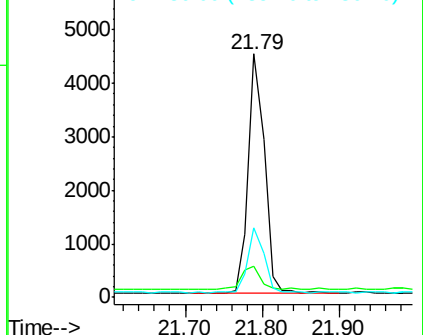
236 28.7 20.7 31.1



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: 0.430 ng

RT: 20.06 min Scan# 1885

Delta R.T. -0.01 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

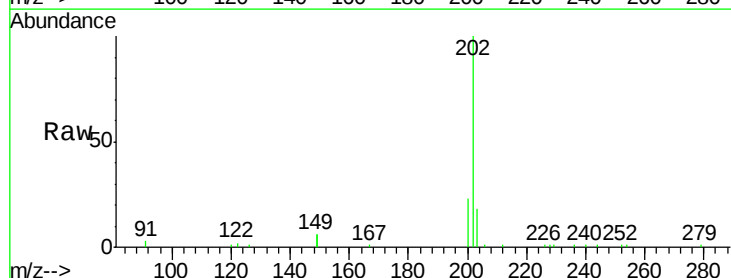
Tgt Ion:202 Resp: 11422

Ion Ratio Lower Upper

202 100

200 21.5 16.6 25.0

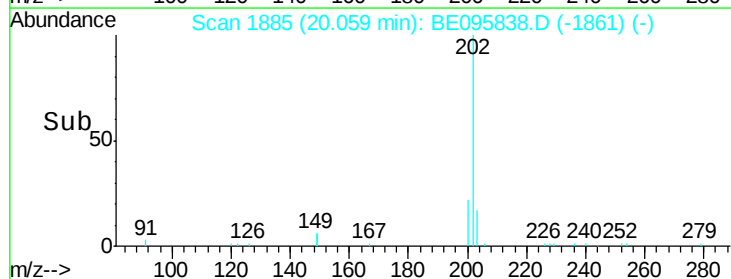
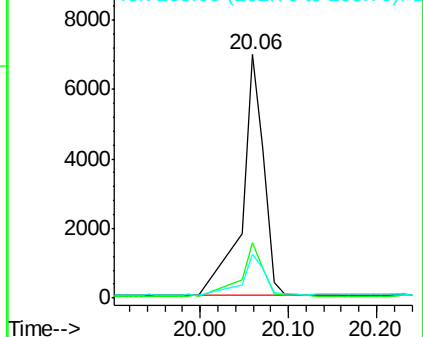
203 15.7 13.8 20.8



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: 0.600 ng

RT: 20.24 min Scan# 1900

Delta R.T. -0.00 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

Instrument :

BNA\_E

ClientSampleId :

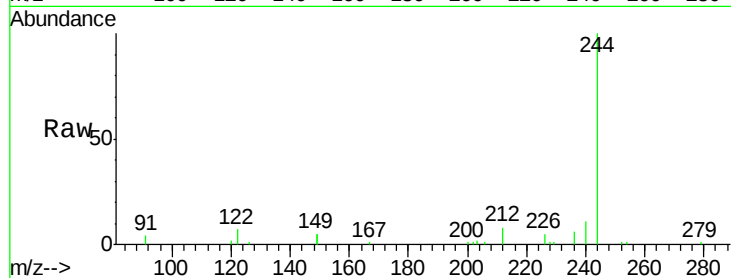
Tot Ion:244 Resp: 8298

Ion Ratio Lower Upper

244 100

212 8.0 25.4 38.0#

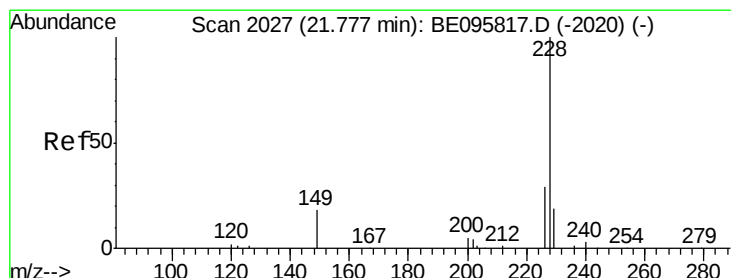
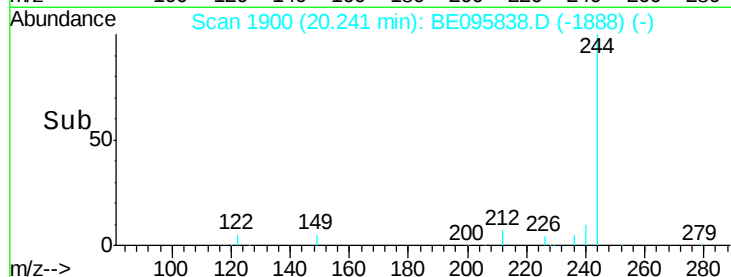
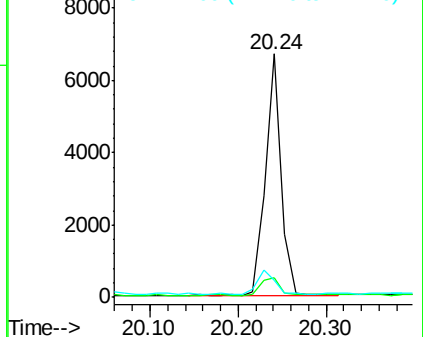
122 6.9 8.1 12.1#



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: 0.425 ng

RT: 21.78 min Scan# 2027

Delta R.T. -0.00 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

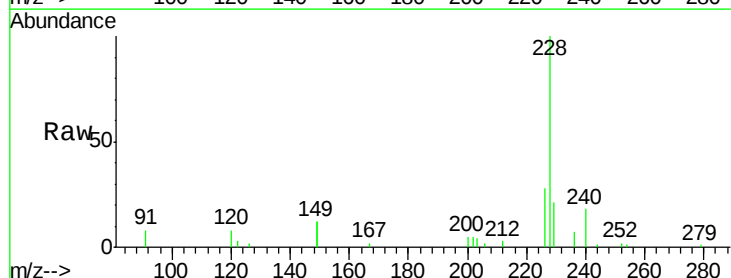
Tgt Ion:228 Resp: 9613

Ion Ratio Lower Upper

228 100

226 27.9 24.0 36.0

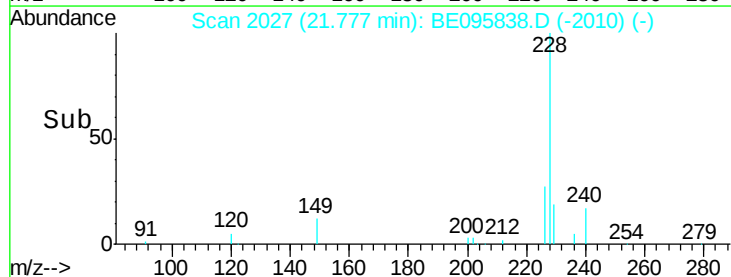
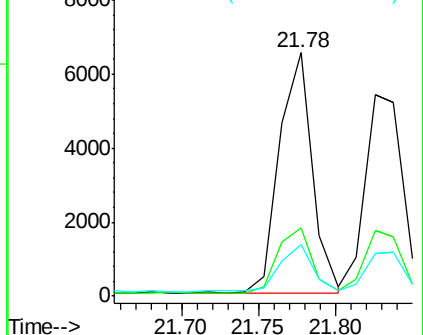
229 21.2 16.0 24.0



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





#31

Chrysene

Concen: 0.438 ng

RT: 21.83 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

Instrument :

BNA\_E

ClientSampled :

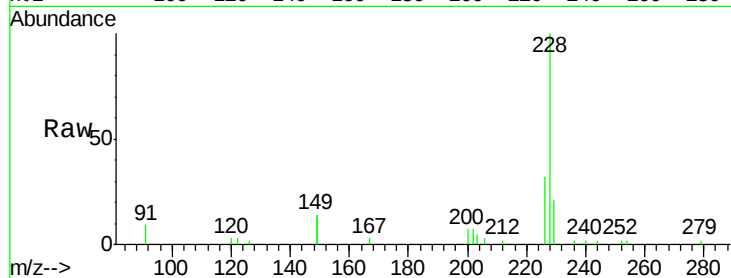
Tot Ion:228 Resp: 9035

Ion Ratio Lower Upper

228 100

226 32.5 24.0 36.0

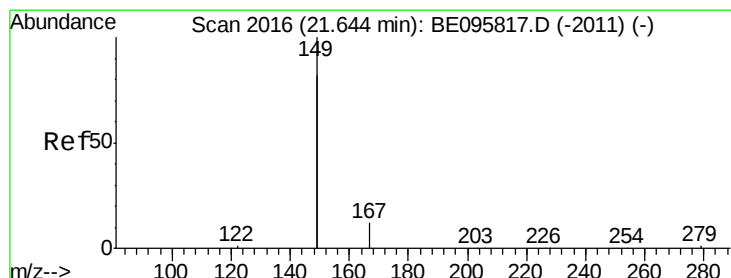
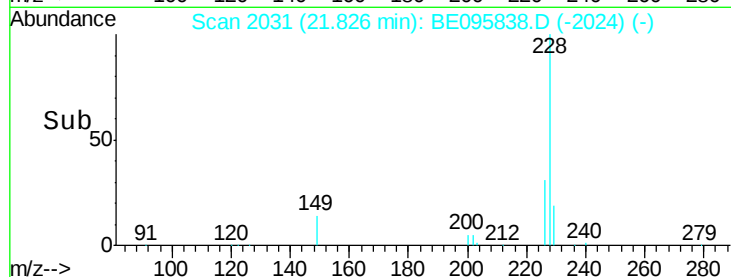
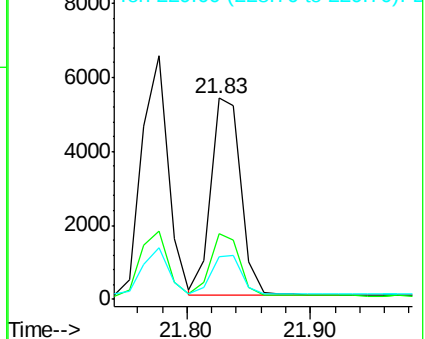
229 21.4 16.0 24.0



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: 0.426 ng

RT: 21.64 min Scan# 2016

Delta R.T. 0.00 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

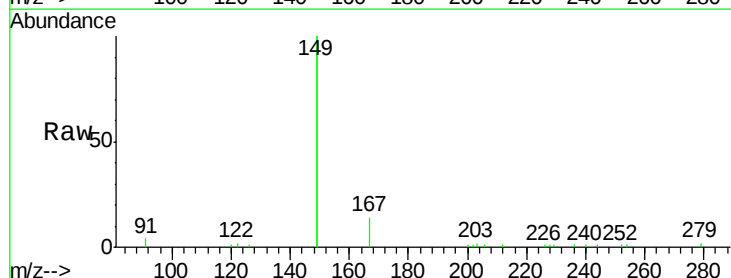
Tgt Ion:149 Resp: 29430

Ion Ratio Lower Upper

149 100

167 7.0 5.4 8.0

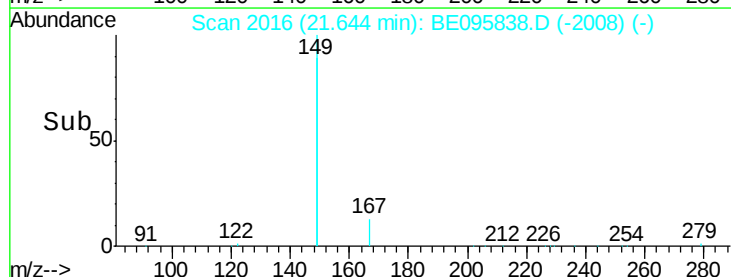
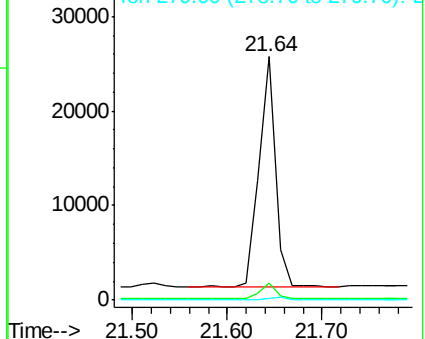
279 0.9 0.7 1.1



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

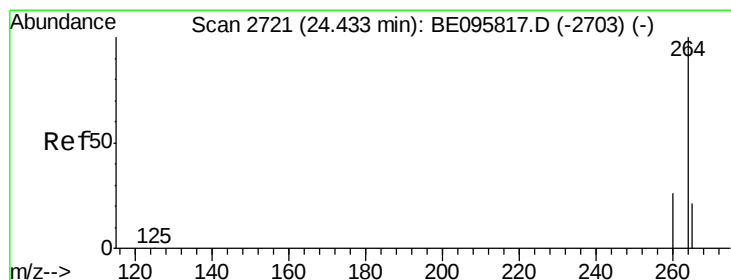
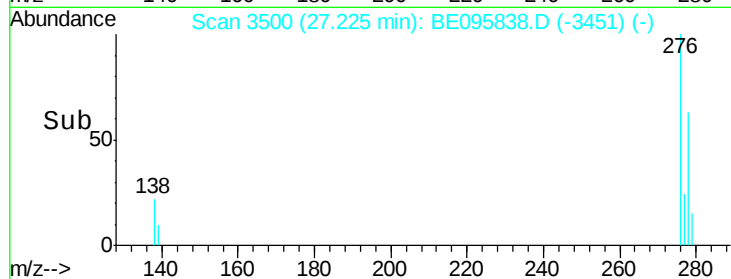
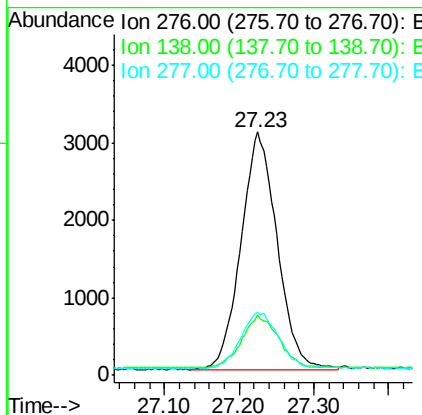
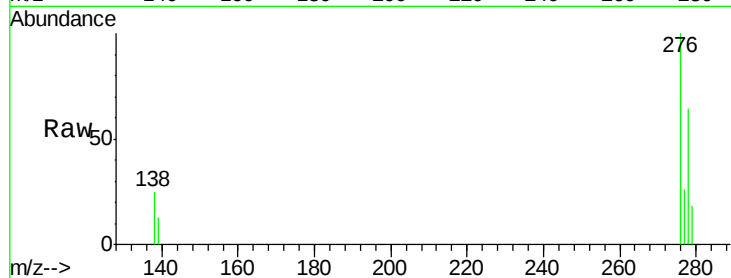




#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.463 ng  
RT: 27.23 min Scan# 3500  
Delta R.T. -0.03 min  
Lab File: BE095838.D  
Acq: 26 Mar 2018 13:51

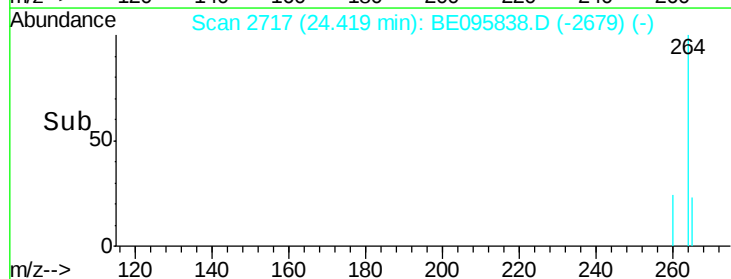
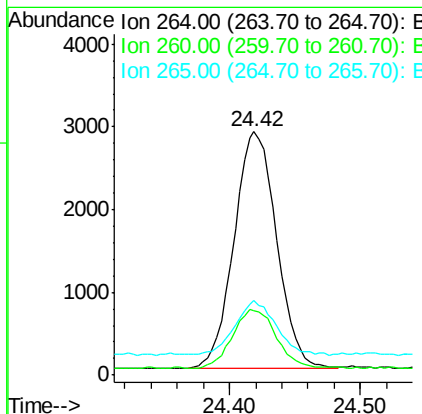
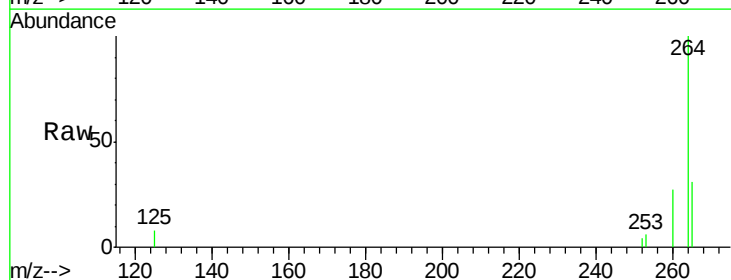
Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:276 Resp: 10281  
Ion Ratio Lower Upper  
276 100  
138 22.0 22.5 33.7#  
277 24.0 19.9 29.9



#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 24.42 min Scan# 2717  
Delta R.T. -0.01 min  
Lab File: BE095838.D  
Acq: 26 Mar 2018 13:51

Tgt Ion:264 Resp: 6457  
Ion Ratio Lower Upper  
264 100  
260 26.7 20.5 30.7  
265 30.9 22.8 34.2





#35

Benzo(b)fluoranthene

Concen: 0.436 ng

RT: 23.60 min Scan# 2488

Delta R.T. -0.01 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

Instrument :

BNA\_E

ClientSampleId :

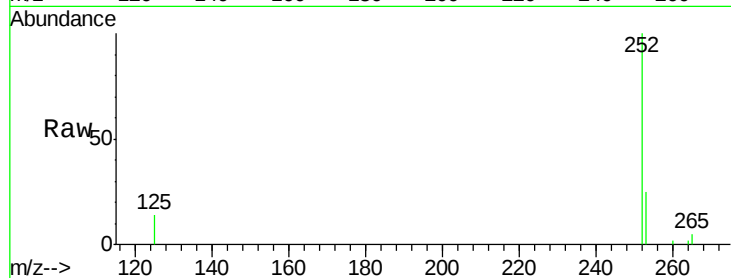
Tot Ion:252 Resp: 9314

Ion Ratio Lower Upper

252 100

253 24.6 20.0 30.0

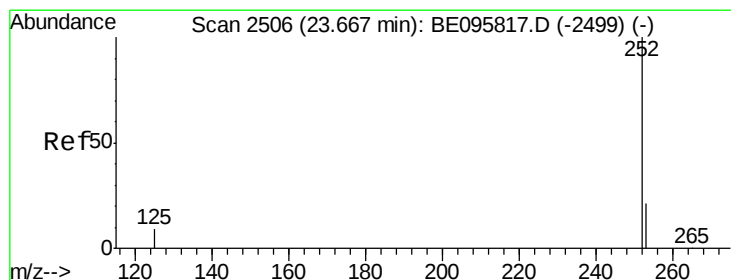
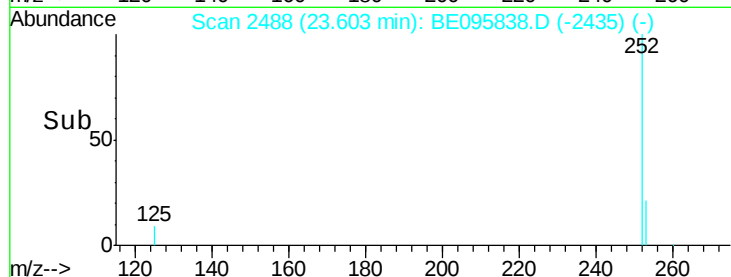
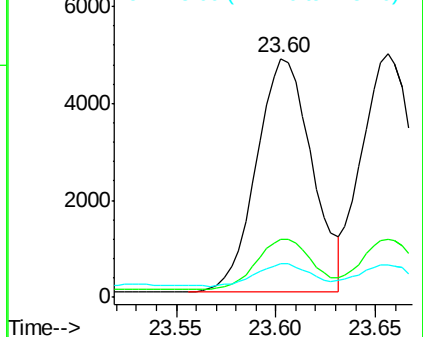
125 13.9 16.0 24.0#



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: 0.424 ng

RT: 23.66 min Scan# 2503

Delta R.T. -0.01 min

Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

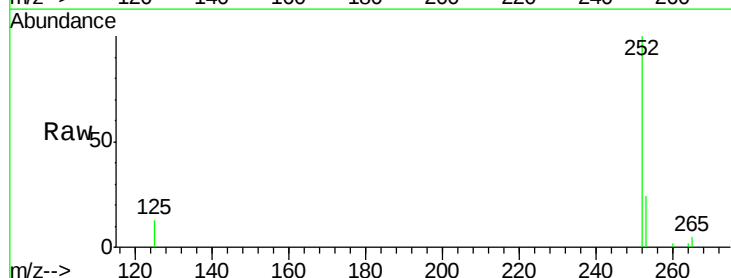
Tgt Ion:252 Resp: 9058

Ion Ratio Lower Upper

252 100

253 23.8 16.0 24.0

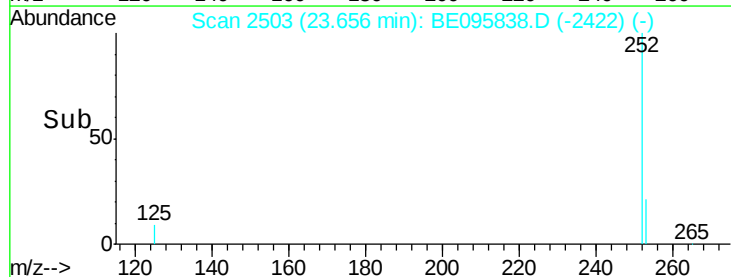
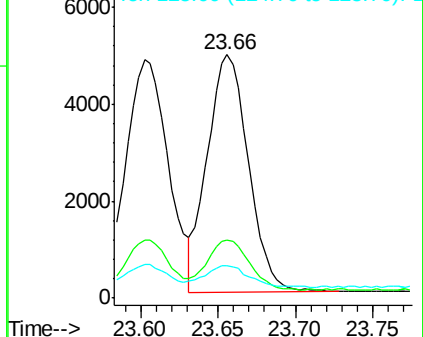
125 13.2 8.0 12.0#



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

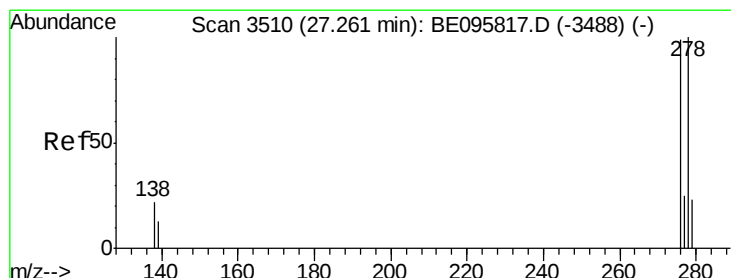
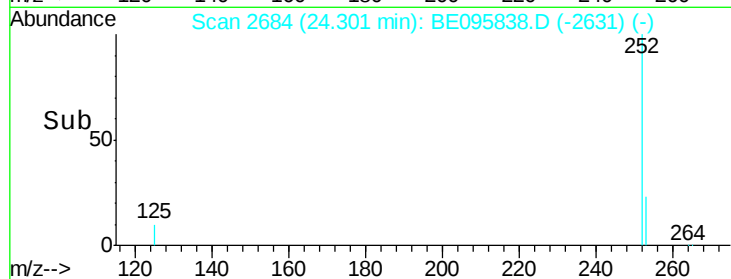
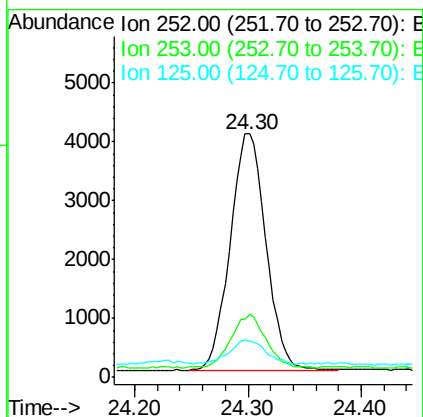
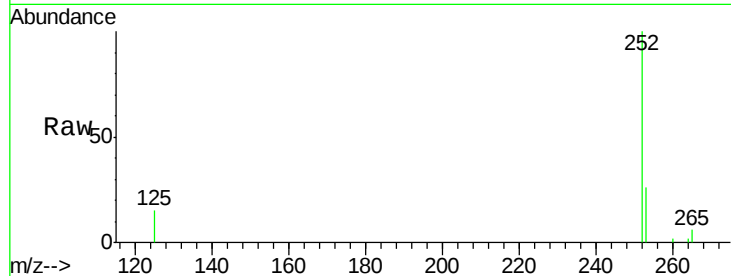




#37  
Benzo(a)pyrene  
Concen: 0.440 ng  
RT: 24.30 min Scan# 2684  
Delta R.T. -0.01 min  
Lab File: BE095838.D  
Acq: 26 Mar 2018 13:51

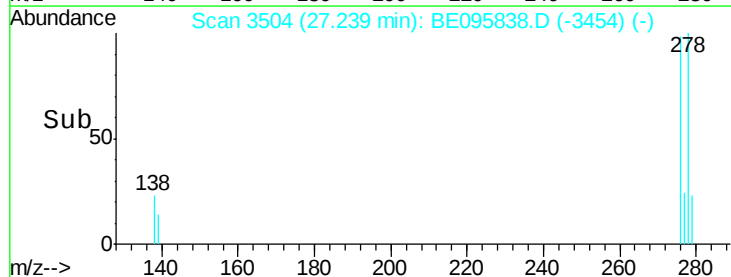
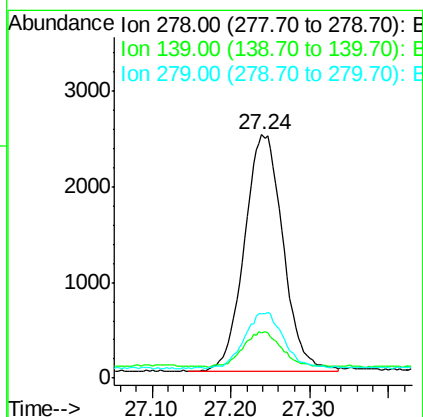
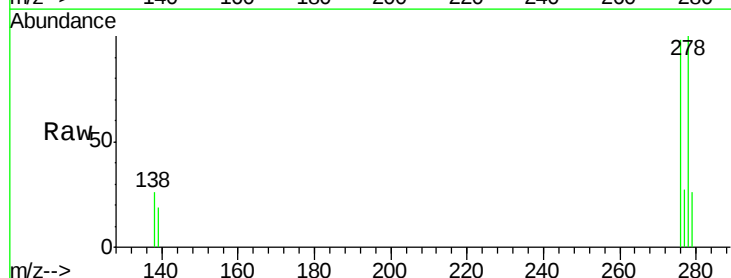
Instrument :  
BNA\_E  
ClientSampleId :

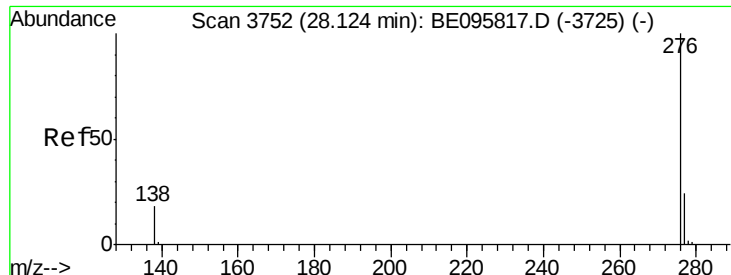
Tot Ion:252 Resp: 8803  
Ion Ratio Lower Upper  
252 100  
253 26.0 16.0 24.0#  
125 15.2 12.0 18.0



#38  
Dibenzo(a,h)anthracene  
Concen: 0.443 ng  
RT: 27.24 min Scan# 3504  
Delta R.T. -0.02 min  
Lab File: BE095838.D  
Acq: 26 Mar 2018 13:51

Tgt Ion:278 Resp: 8418  
Ion Ratio Lower Upper  
278 100  
139 18.7 16.0 24.0  
279 26.3 20.0 30.0





#39

Benzo(a,h,i)perylene

Concen: 0.451 ng

RT: 28.10 min Scan# 3744

Delta R.T. -0.03 min

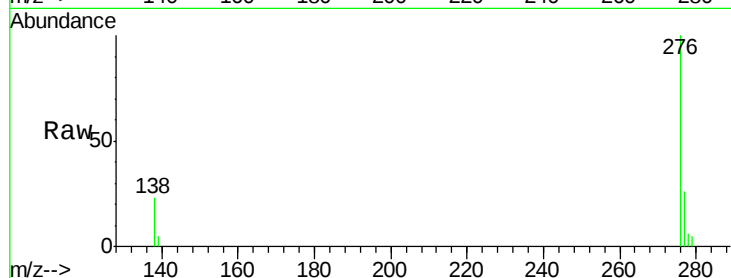
Lab File: BE095838.D

Acq: 26 Mar 2018 13:51

Instrument :

BNA\_E

ClientSampleId :



Tot Ion: 276 Resp: 8612

Ion Ratio Lower Upper

276 100

277 25.9 16.0 24.0#

138 22.9 20.0 30.0

