

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE110518\  
 Data File : BE098153.D  
 Acq On : 5 Nov 2018 9:41  
 Operator : SJ/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Nov 05 10:42:46 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE110118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 01 13:00:52 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.86  | 152  | 889      | 0.40 | ng    | -0.01    |
| 7) Naphthalene-d8         | 10.67 | 136  | 4235     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.53 | 164  | 2753     | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.28 | 188  | 6631     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.46 | 240  | 8170     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 24.01 | 264  | 8046     | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.46  | 112 | 1008  | 0.38 | ng | 0.00 |
| 5) Phenol-d6                | 7.04  | 99  | 1528  | 0.35 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 9.03  | 82  | 1608  | 0.35 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.27 | 152 | 2980  | 0.40 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 16.03 | 330 | 298   | 0.23 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.16 | 172 | 4668  | 0.41 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.31 | 212 | 35725 | 0.42 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.91 | 244 | 7836  | 0.41 | ng | 0.00 |

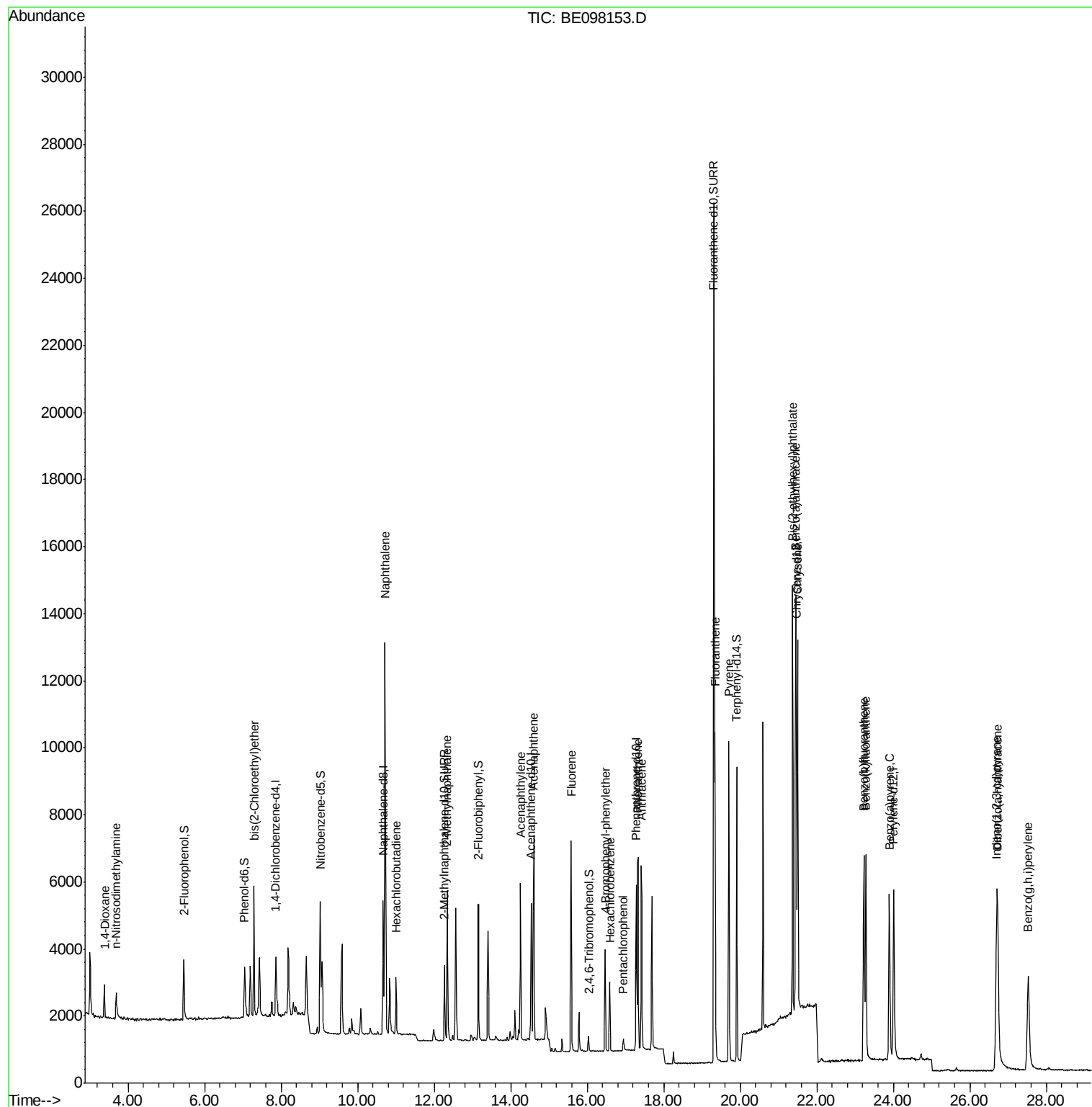
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.38  | 88  | 511   | 0.386  | ng | # 88 |
| 3) n-Nitrosodimethylamine      | 3.69  | 42  | 697   | 0.394  | ng | # 76 |
| 6) bis(2-Chloroethyl)ether     | 7.29  | 93  | 1250  | 0.393  | ng | 90   |
| 9) Naphthalene                 | 10.72 | 128 | 17821 | 0.421  | ng | 100  |
| 10) Hexachlorobutadiene        | 11.00 | 225 | 1160  | 0.418  | ng | 98   |
| 12) 2-Methylnaphthalene        | 12.34 | 142 | 3141  | 0.416  | ng | # 93 |
| 16) Acenaphthylene             | 14.26 | 152 | 5208  | 0.415  | ng | 99   |
| 17) Acenaphthene               | 14.60 | 154 | 3174  | 0.421  | ng | 99   |
| 18) Fluorene                   | 15.58 | 166 | 4117  | 0.411  | ng | 97   |
| 20) 4-Bromophenyl-phenylether  | 16.48 | 248 | 1689  | 0.418  | ng | # 84 |
| 21) Hexachlorobenzene          | 16.59 | 284 | 1799  | 0.426  | ng | 98   |
| 22) Pentachlorophenol          | 16.94 | 266 | 269   | 0.349  | ng | 91   |
| 23) Phenanthrene               | 17.33 | 178 | 6856  | 0.417  | ng | 99   |
| 24) Anthracene                 | 17.41 | 178 | 6360  | 0.407  | ng | 100  |
| 26) Fluoranthene               | 19.34 | 202 | 8727  | 0.424  | ng | # 95 |
| 28) Pyrene                     | 19.70 | 202 | 9165  | 0.411  | ng | 100  |
| 30) Benzo(a)anthracene         | 21.45 | 228 | 9714  | 0.407  | ng | 98   |
| 31) Chrysene                   | 21.50 | 228 | 9848  | 0.417  | ng | 98   |
| 32) Bis(2-ethylhexyl)phthalate | 21.37 | 149 | 14982 | 0.132  | ng | 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 26.70 | 276 | 9787  | 0.398  | ng | # 95 |
| 35) Benzo(b)fluoranthene       | 23.23 | 252 | 9203  | 0.406  | ng | # 89 |
| 36) Benzo(k)fluoranthene       | 23.28 | 252 | 9321  | 0.397  | ng | # 90 |
| 37) Benzo(a)pyrene             | 23.89 | 252 | 8723  | 0.394  | ng | # 90 |
| 38) Dibenzo(a,h)anthracene     | 26.73 | 278 | 8222  | 0.398  | ng | # 93 |
| 39) Benzo(g,h,i)perylene       | 27.52 | 276 | 8152  | 0.396  | ng | # 91 |

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

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QLast Update : Thu Nov 01 13:00:52 2018  
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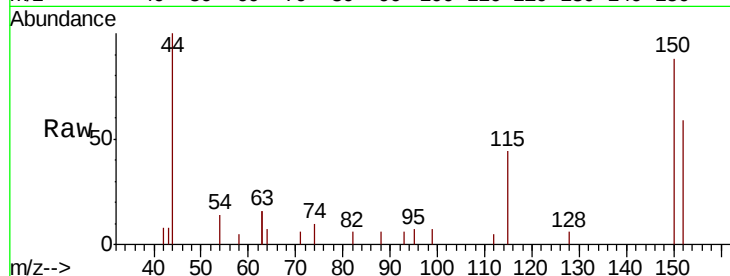


#1

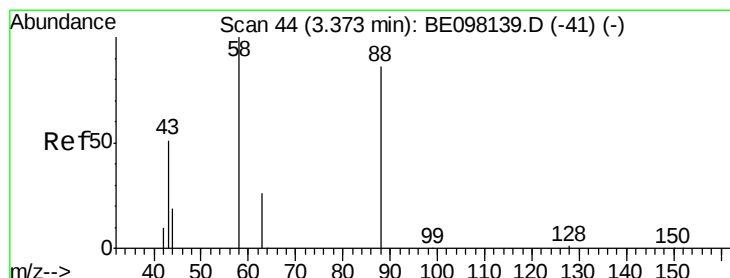
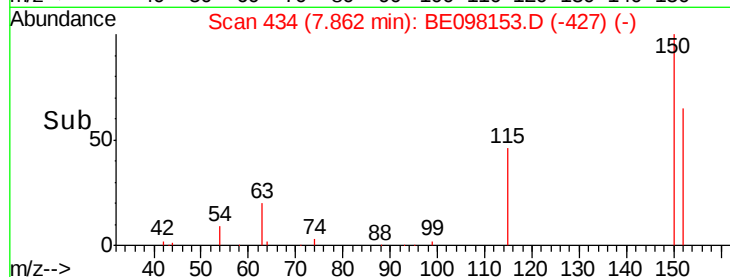
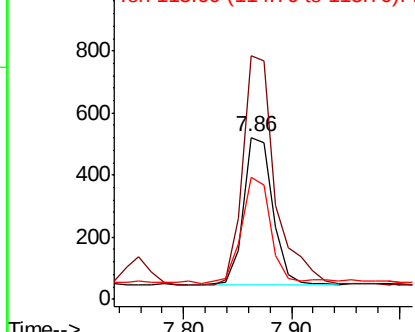
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.86 min Scan# 434  
Delta R.T. -0.01 min  
Lab File: BE098153.D  
Acq: 5 Nov 2018 9:41

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 889  
Ion Ratio Lower Upper  
152 100  
150 150.5 118.2 177.4  
115 75.0 50.9 76.3



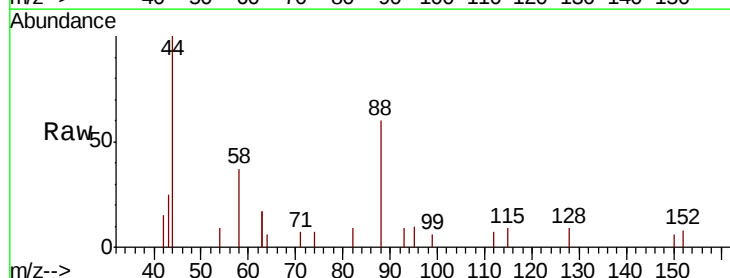
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



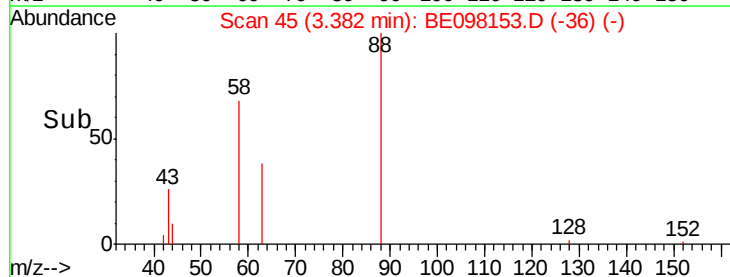
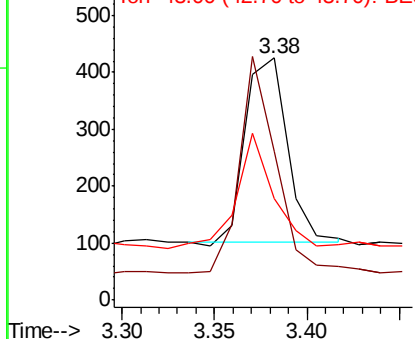
#2

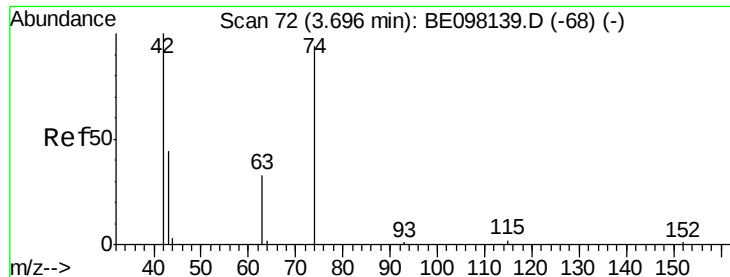
1,4-Dioxane  
Concen: 0.386 ng  
RT: 3.38 min Scan# 45  
Delta R.T. 0.01 min  
Lab File: BE098153.D  
Acq: 5 Nov 2018 9:41

Tgt Ion: 88 Resp: 511  
Ion Ratio Lower Upper  
88 100  
58 101.6 73.2 109.8  
43 55.4 36.9 55.3#



Abundance Ion 88.00 (87.70 to 88.70): BE0  
Ion 58.00 (57.70 to 58.70): BE0  
Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.394 ng

RT: 3.69 min Scan# 72

Delta R.T. -0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

Instrument :

BNA\_E

ClientSampleId :

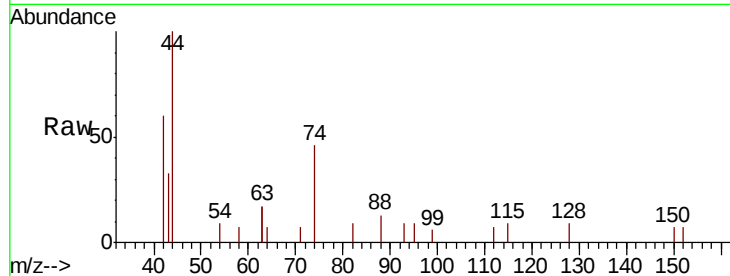
Tot Ion: 42 Resp: 697

Ion Ratio Lower Upper

42 100

74 73.6 77.6 116.4#

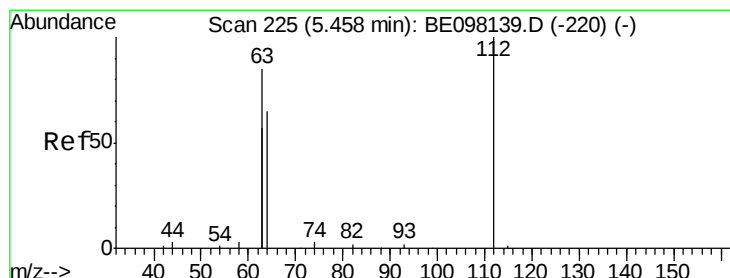
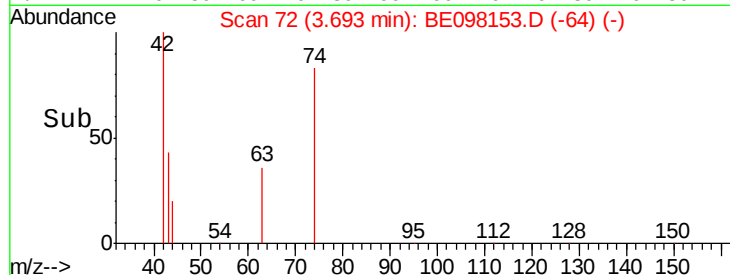
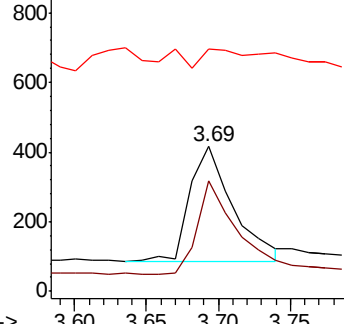
44 18.4 7.6 11.4#



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: 0.382 ng

RT: 5.46 min Scan# 225

Delta R.T. -0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

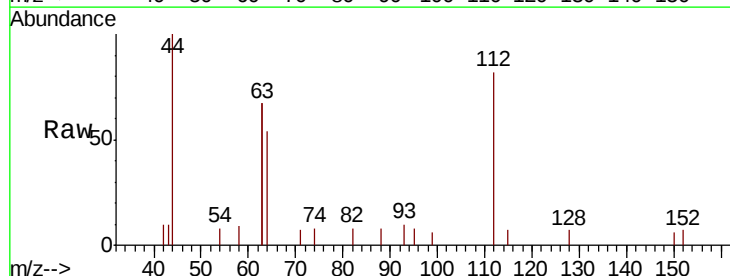
Tgt Ion: 112 Resp: 1008

Ion Ratio Lower Upper

112 100

64 76.6 58.9 88.3

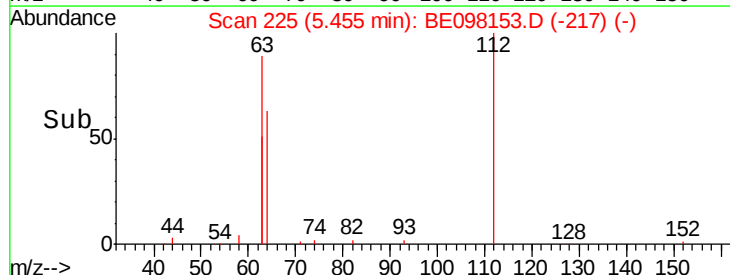
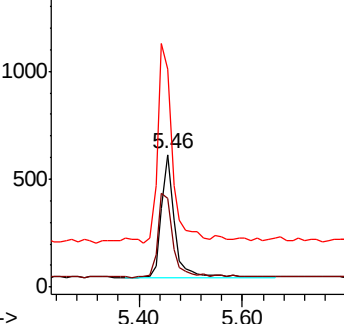
63 177.0 120.3 180.5

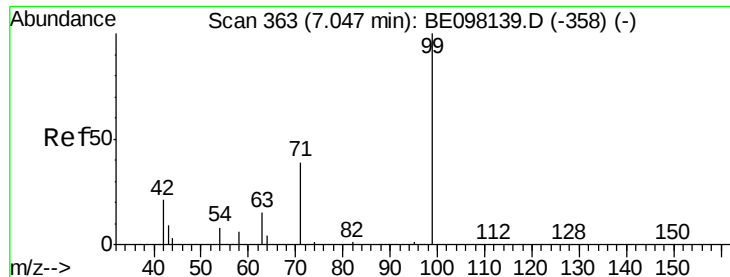


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.352 ng

RT: 7.04 min Scan# 363

Delta R.T. -0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

Instrument :

BNA\_E

ClientSampled :

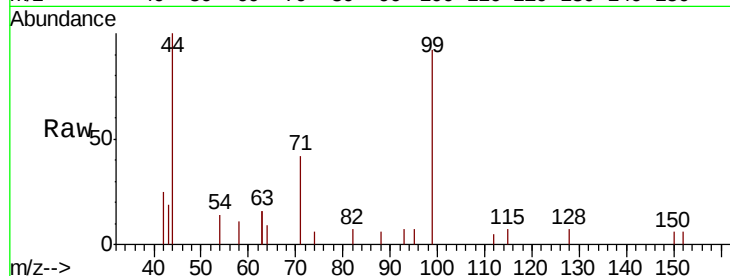
Tot Ion: 99 Resp: 1528

Ion Ratio Lower Upper

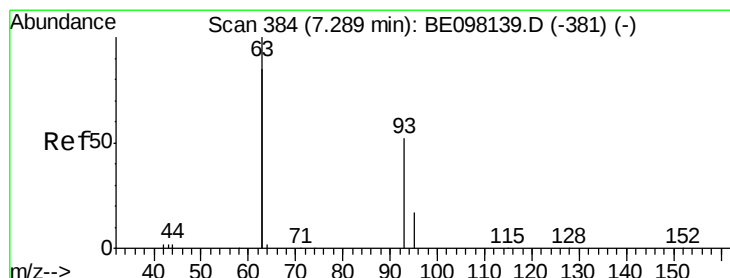
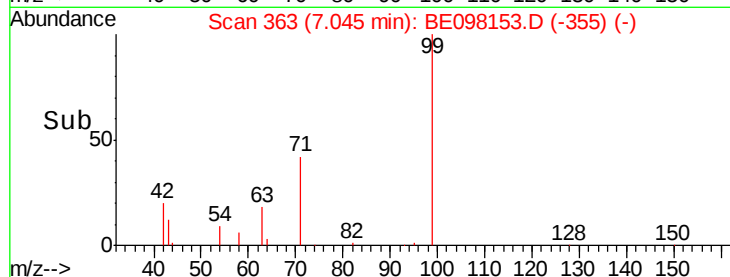
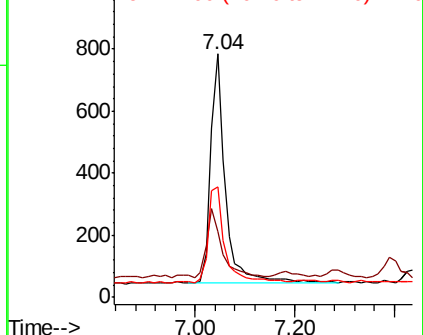
99 100

42 31.0 19.9 29.9#

71 45.5 27.8 41.8#



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: 0.393 ng

RT: 7.29 min Scan# 384

Delta R.T. -0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

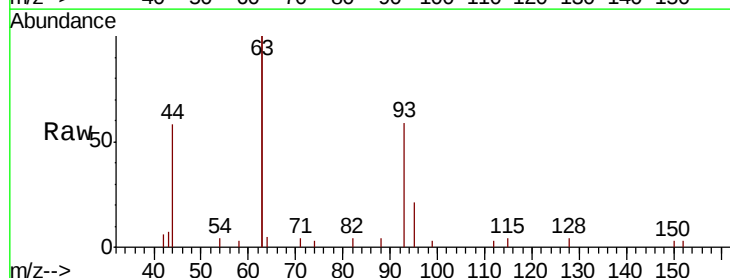
Tgt Ion: 93 Resp: 1250

Ion Ratio Lower Upper

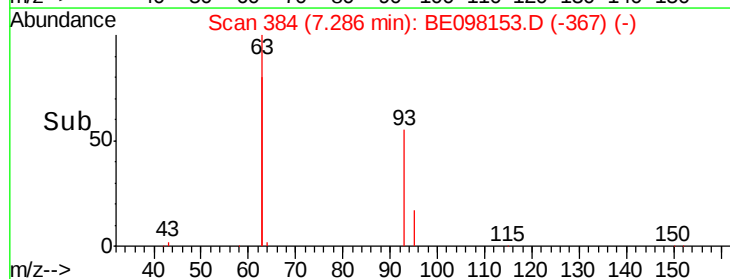
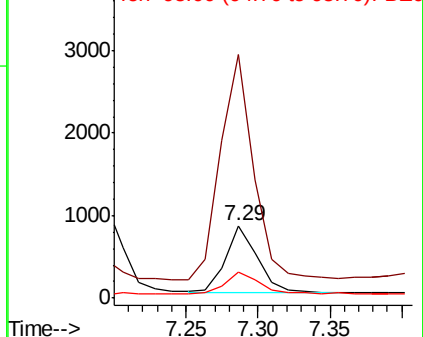
93 100

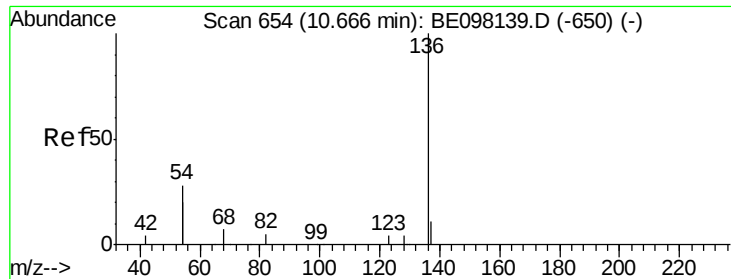
63 346.2 259.0 388.4

95 34.6 27.8 41.8



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: 10.67 min Scan# 654

Delta R.T. 0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 4235

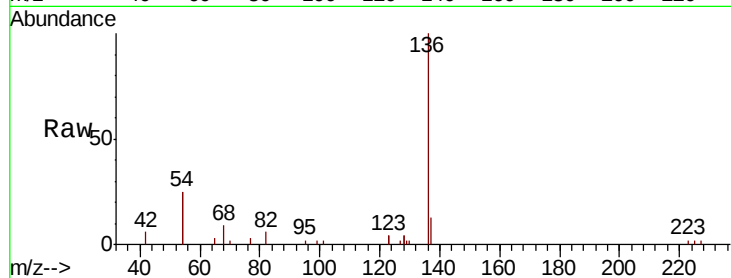
Ion Ratio Lower Upper

136 100

137 12.7 9.6 14.4

54 50.1 27.7 41.5#

68 8.7 5.3 7.9#

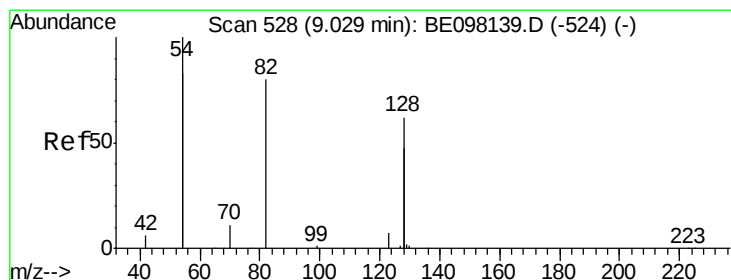
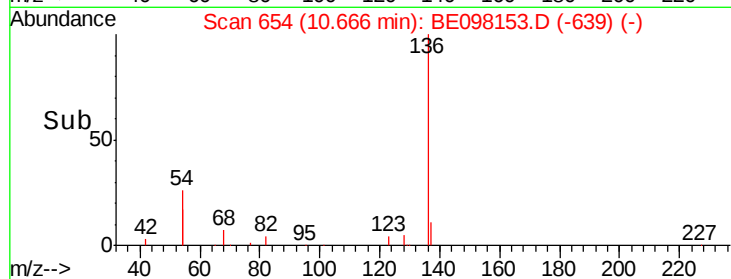
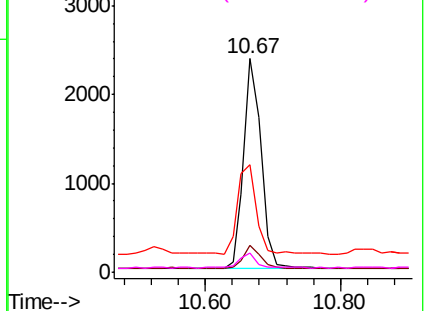


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.354 ng

RT: 9.03 min Scan# 528

Delta R.T. 0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

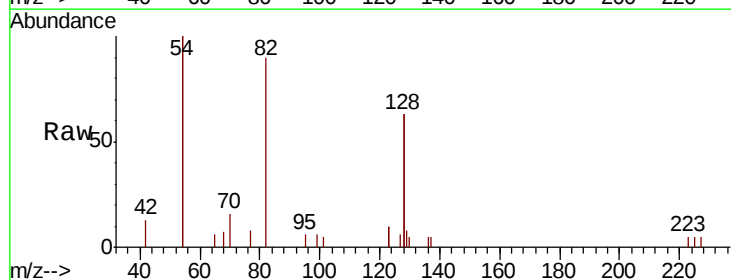
Tgt Ion: 82 Resp: 1608

Ion Ratio Lower Upper

82 100

128 140.6 129.9 194.9

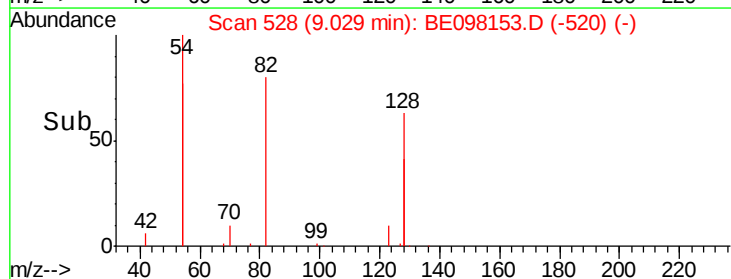
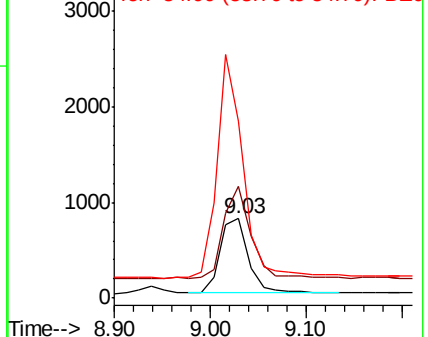
54 222.4 174.0 261.0

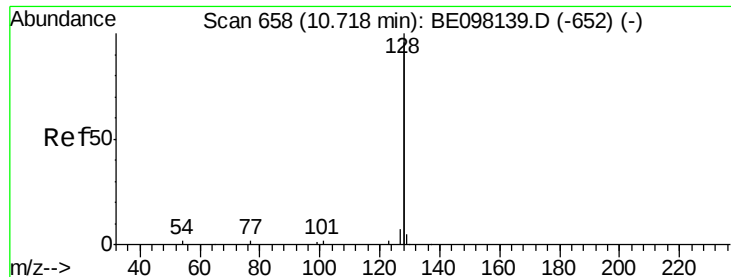


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.421 ng

RT: 10.72 min Scan# 658

Delta R.T. 0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

Instrument :

BNA\_E

ClientSampleId :

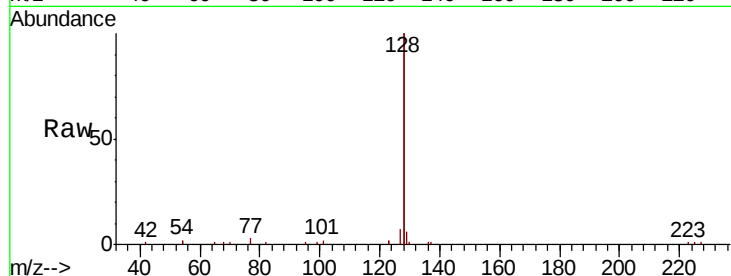
Tot Ion:128 Resp: 17821

Ion Ratio Lower Upper

128 100

129 3.1 2.5 3.7

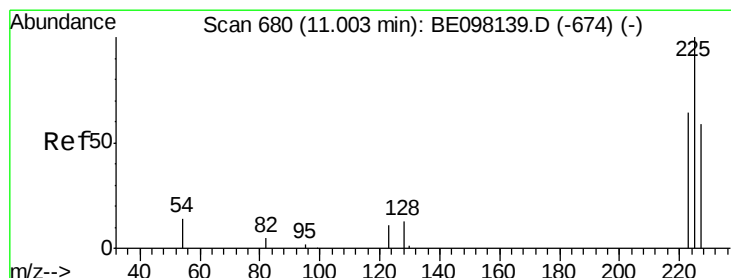
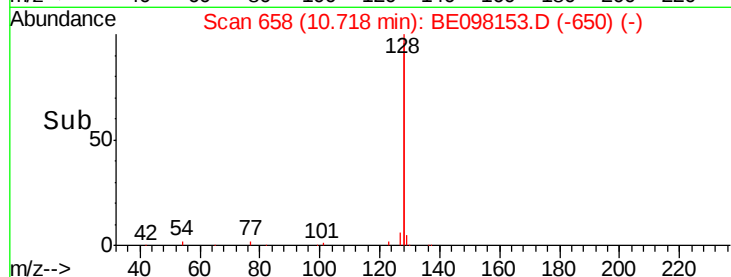
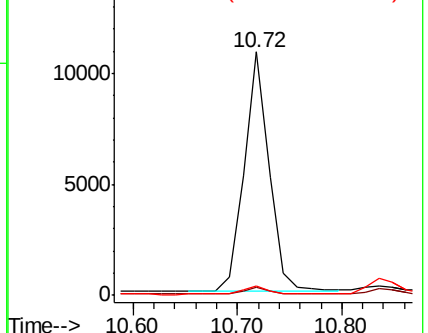
127 3.7 2.8 4.2



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: 0.418 ng

RT: 11.00 min Scan# 680

Delta R.T. 0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

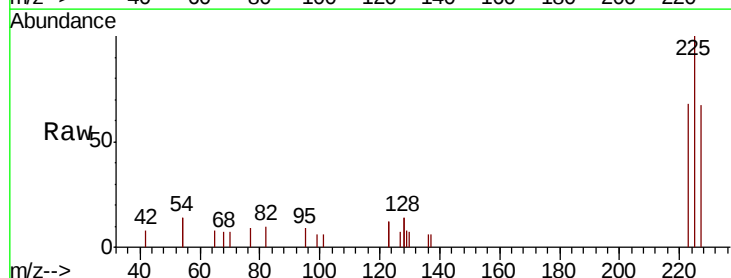
Tgt Ion:225 Resp: 1160

Ion Ratio Lower Upper

225 100

223 63.4 51.8 77.8

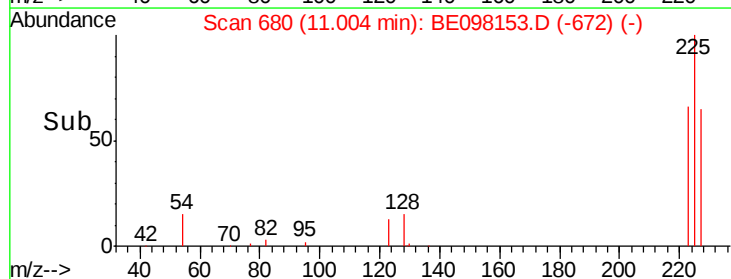
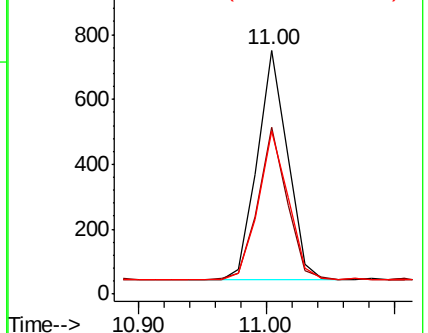
227 64.3 53.0 79.6

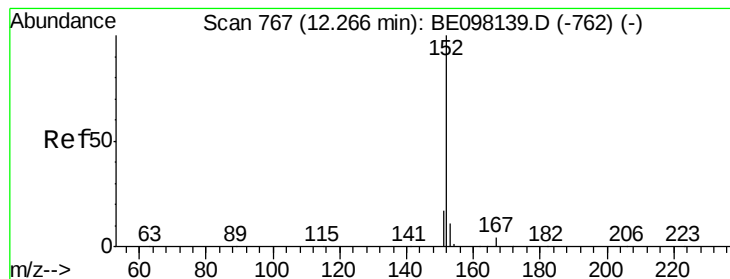


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

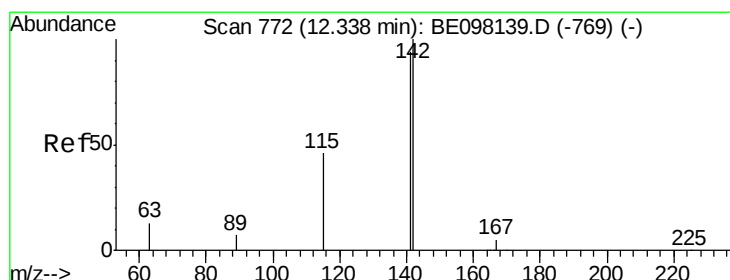
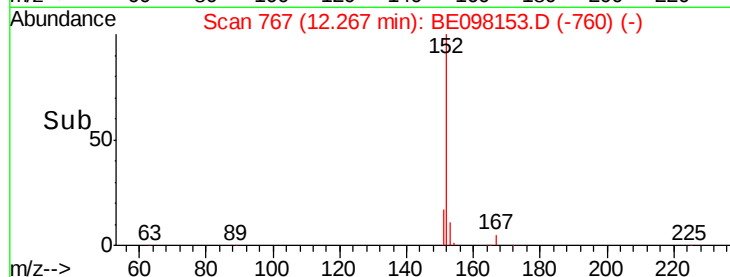
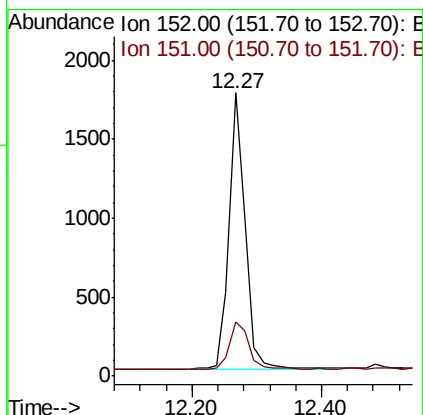
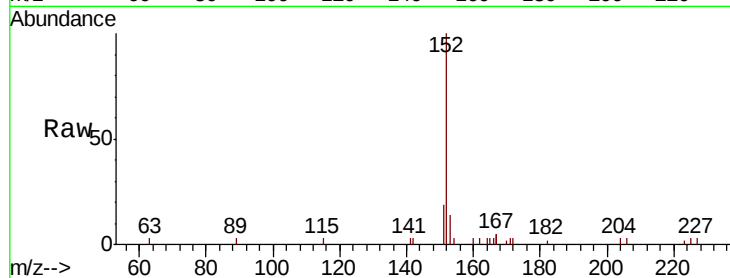




#11  
 2-Methylnaphthalene-d10  
 Concen: 0.399 ng  
 RT: 12.27 min Scan# 767  
 Delta R.T. 0.00 min  
 Lab File: BE098153.D  
 Acq: 5 Nov 2018 9:41

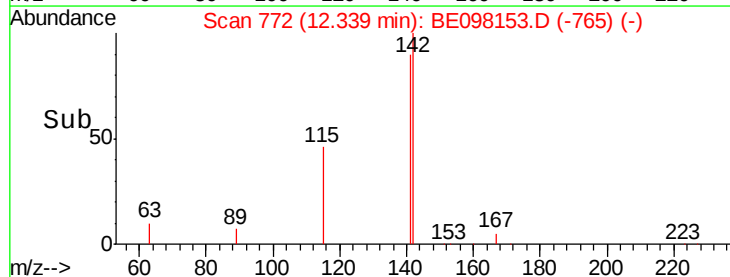
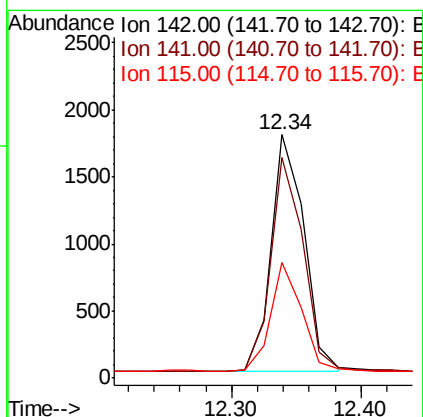
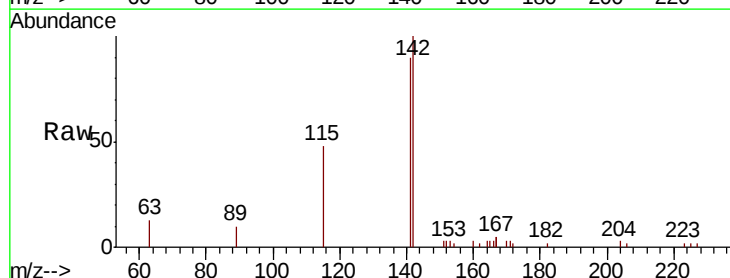
Instrument :  
 BNA\_E  
 ClientSampleId :

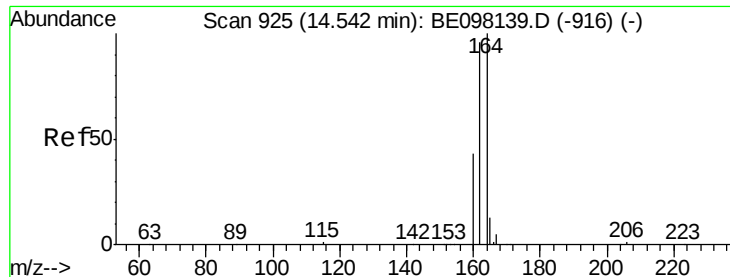
Tot Ion:152 Resp: 2980  
 Ion Ratio Lower Upper  
 152 100  
 151 20.3 16.2 24.4



#12  
 2-Methylnaphthalene  
 Concen: 0.416 ng  
 RT: 12.34 min Scan# 772  
 Delta R.T. 0.00 min  
 Lab File: BE098153.D  
 Acq: 5 Nov 2018 9:41

Tgt Ion:142 Resp: 3141  
 Ion Ratio Lower Upper  
 142 100  
 141 90.4 69.8 104.6  
 115 47.6 30.5 45.7#

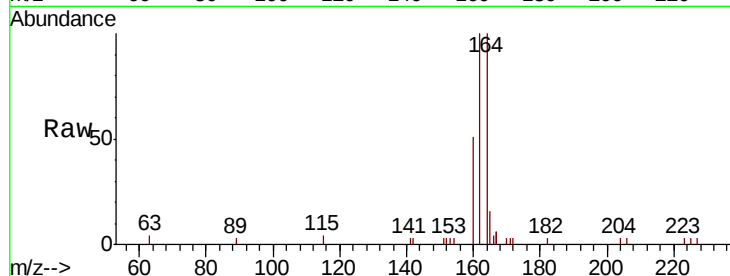




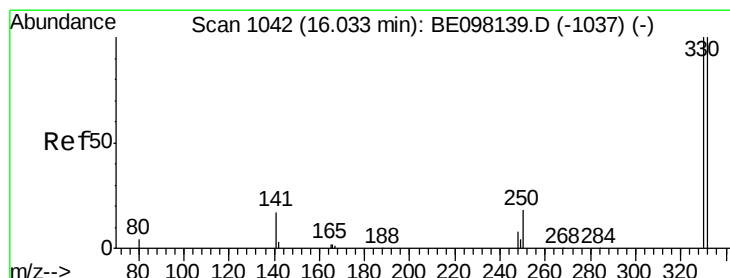
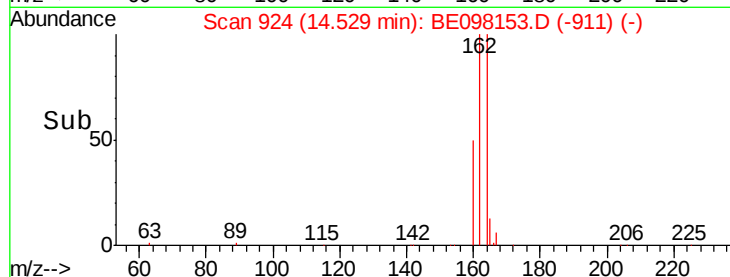
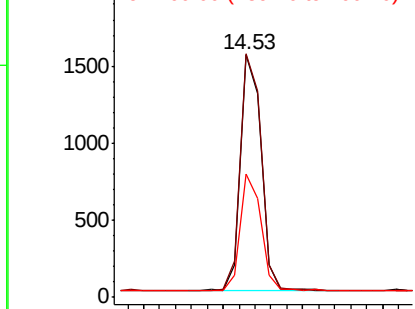
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.53 min Scan# 924  
Delta R.T. -0.01 min  
Lab File: BE098153.D  
Acq: 5 Nov 2018 9:41

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:164 Resp: 2753  
Ion Ratio Lower Upper  
164 100  
162 100.3 77.4 116.2  
160 51.1 36.5 54.7

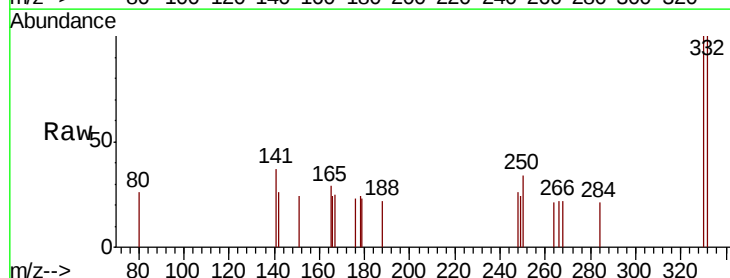


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

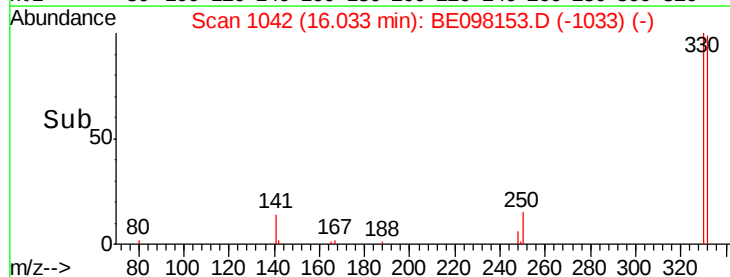
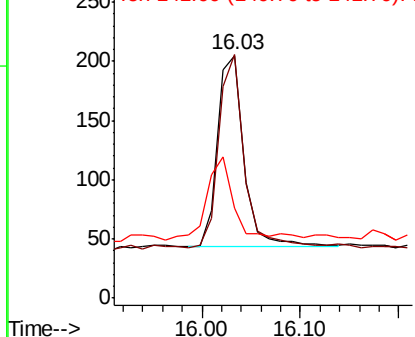


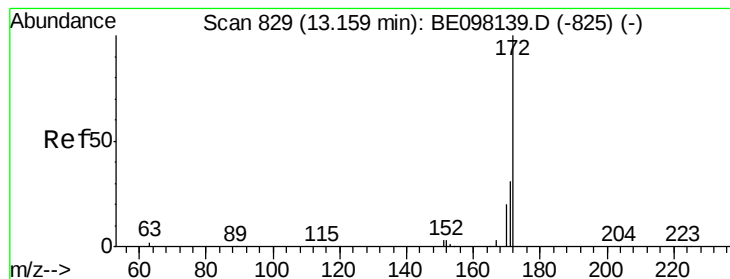
#14  
2,4,6-Tribromophenol  
Concen: 0.229 ng  
RT: 16.03 min Scan# 1042  
Delta R.T. 0.00 min  
Lab File: BE098153.D  
Acq: 5 Nov 2018 9:41

Tgt Ion:330 Resp: 298  
Ion Ratio Lower Upper  
330 100  
332 101.3 76.5 114.7  
141 46.3 31.8 47.6



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: 0.412 ng

RT: 13.16 min Scan# 829

Delta R.T. 0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

Instrument :

BNA\_E

ClientSampleId :

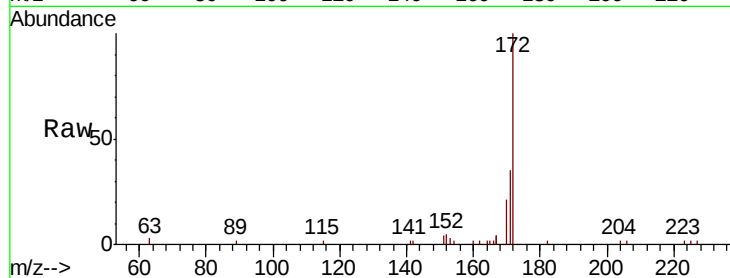
Tot Ion:172 Resp: 4668

Ion Ratio Lower Upper

172 100

171 35.2 26.0 39.0

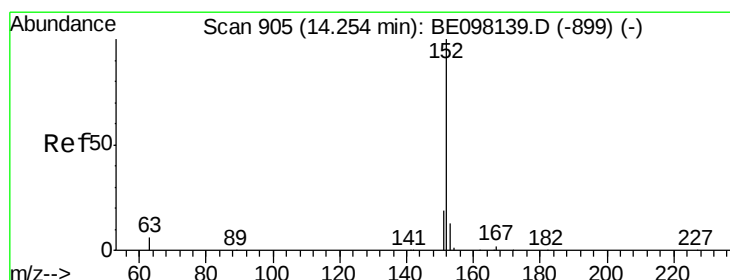
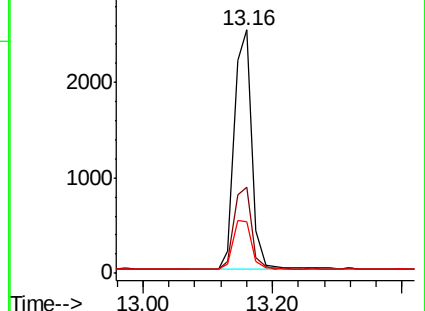
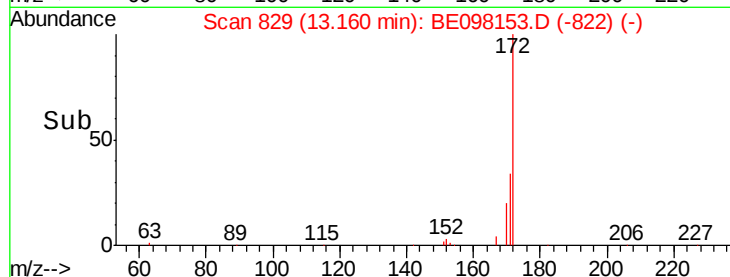
170 21.4 18.0 27.0



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16

Acenaphthylene

Concen: 0.415 ng

RT: 14.26 min Scan# 905

Delta R.T. 0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

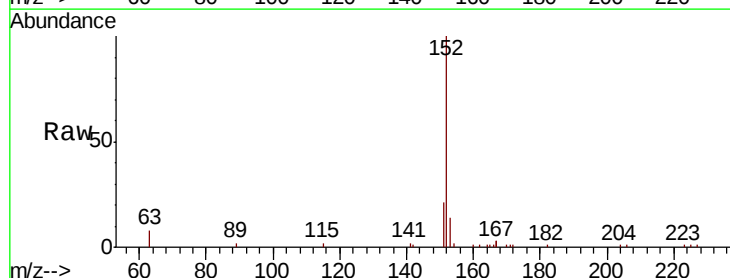
Tgt Ion:152 Resp: 5208

Ion Ratio Lower Upper

152 100

151 20.1 16.1 24.1

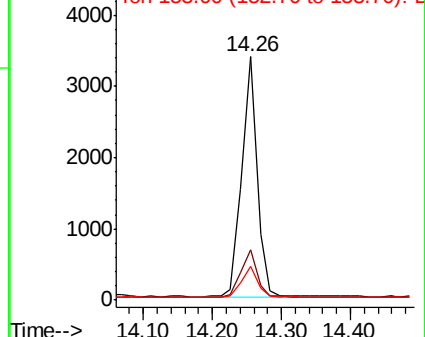
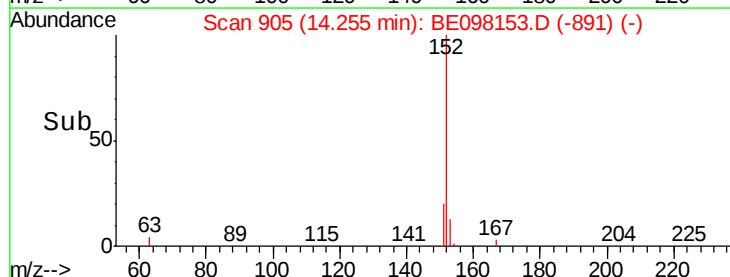
153 12.6 10.9 16.3

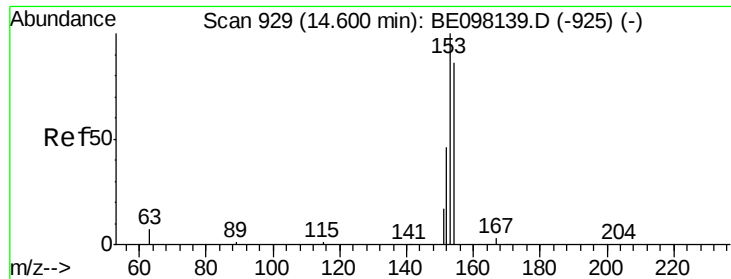


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

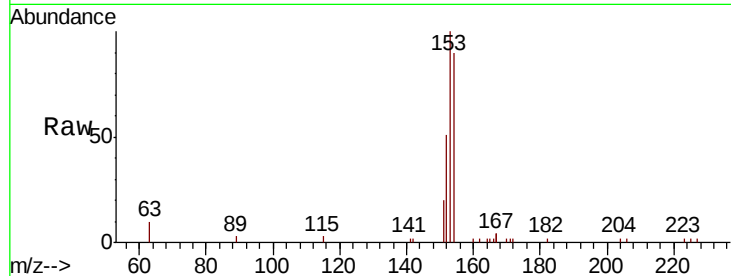




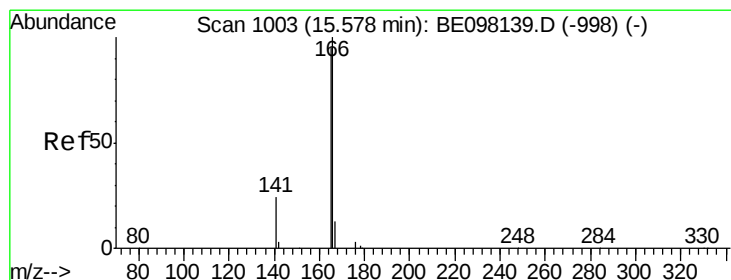
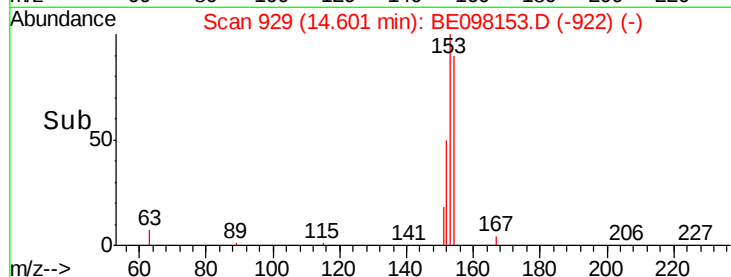
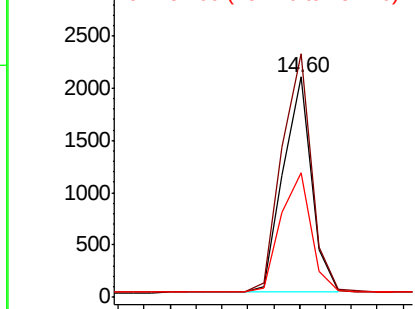
#17  
Acenaphthene  
Concen: 0.421 ng  
RT: 14.60 min Scan# 929  
Delta R.T. 0.00 min  
Lab File: BE098153.D  
Acq: 5 Nov 2018 9:41

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:154 Resp: 3174  
Ion Ratio Lower Upper  
154 100  
153 115.0 92.6 139.0  
152 59.0 45.5 68.3

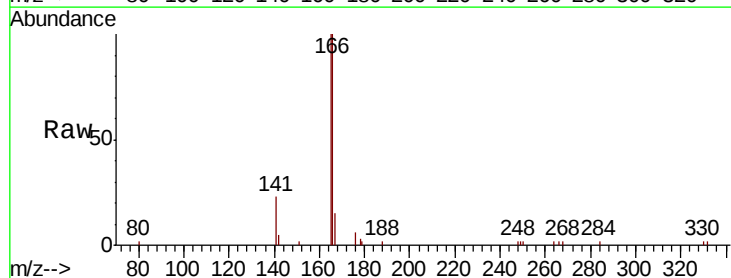


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

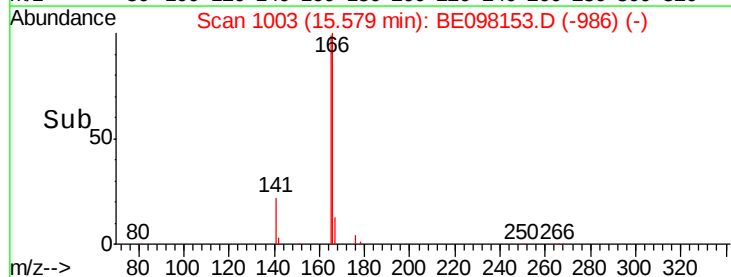
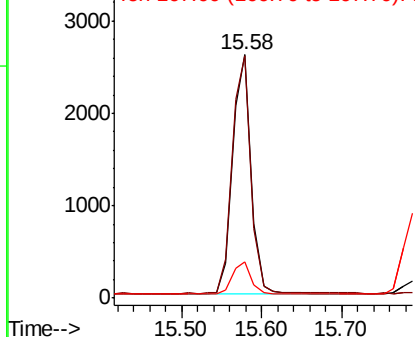


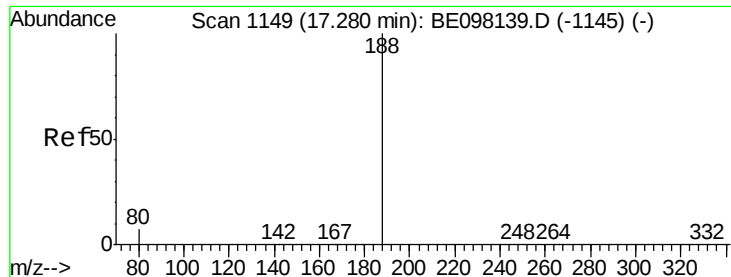
#18  
Fluorene  
Concen: 0.411 ng  
RT: 15.58 min Scan# 1003  
Delta R.T. 0.00 min  
Lab File: BE098153.D  
Acq: 5 Nov 2018 9:41

Tgt Ion:166 Resp: 4117  
Ion Ratio Lower Upper  
166 100  
165 100.9 78.2 117.4  
167 13.7 11.0 16.6



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: 17.28 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

Instrument :

BNA\_E

ClientSampleId :

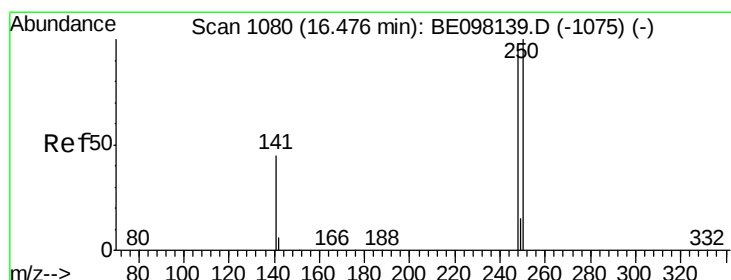
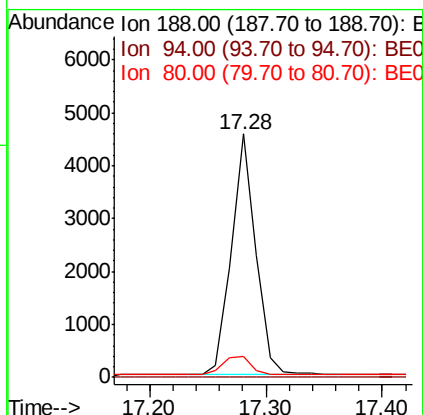
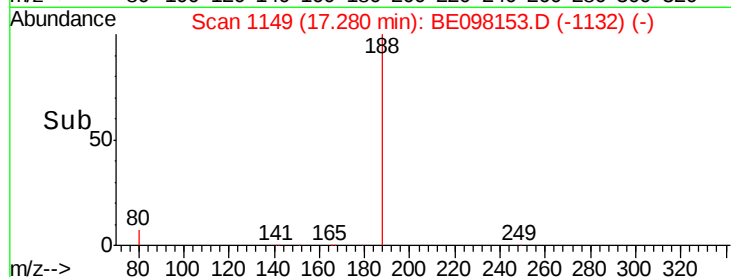
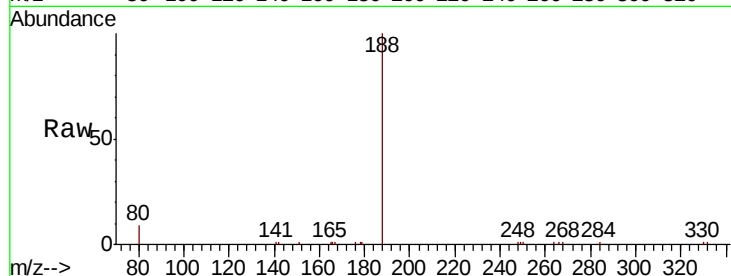
Tot Ion:188 Resp: 6631

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.6 6.3 9.5



#20

4-Bromophenyl-phenylether

Concen: 0.418 ng

RT: 16.48 min Scan# 1080

Delta R.T. 0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

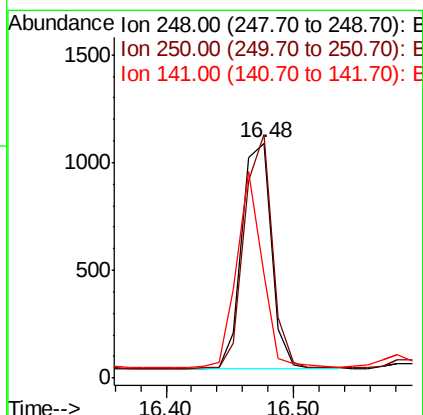
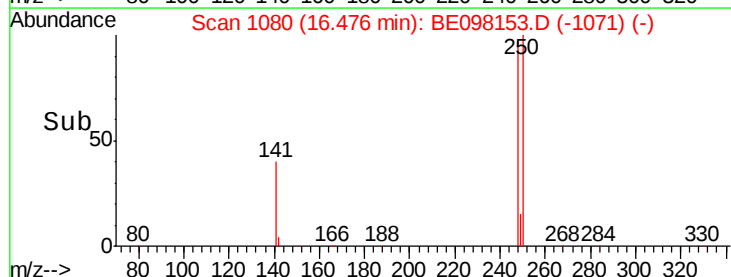
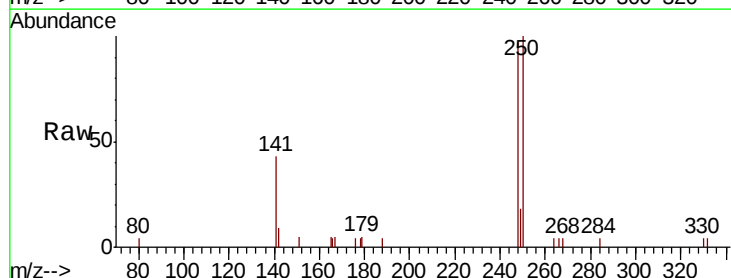
Tgt Ion:248 Resp: 1689

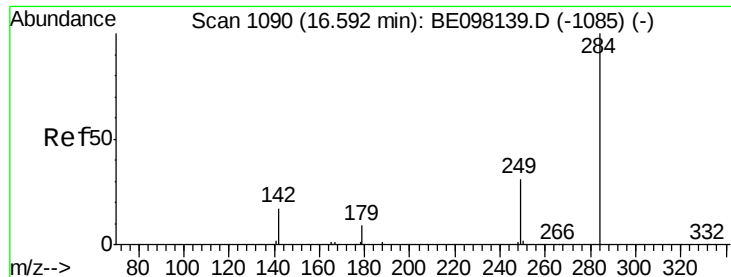
Ion Ratio Lower Upper

248 100

250 103.5 75.1 112.7

141 44.5 51.8 77.8#





#21

Hexachlorobenzene

Concen: 0.426 ng

RT: 16.59 min Scan# 1090

Delta R.T. 0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

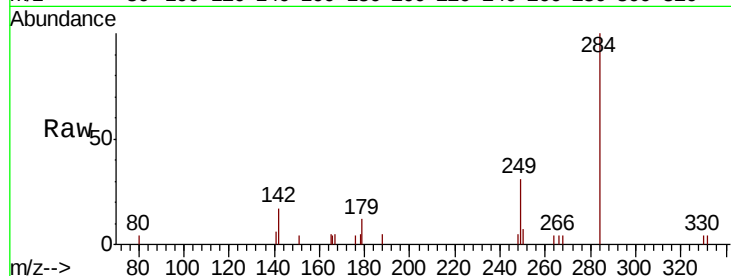
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:284 Resp: 1799

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 284 | 100   |       |       |
| 142 | 33.3  | 25.9  | 38.9  |
| 249 | 34.5  | 26.6  | 40.0  |

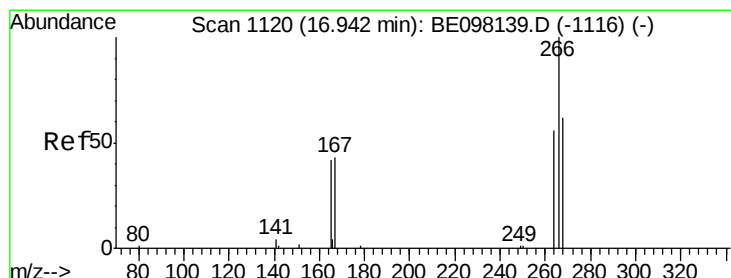
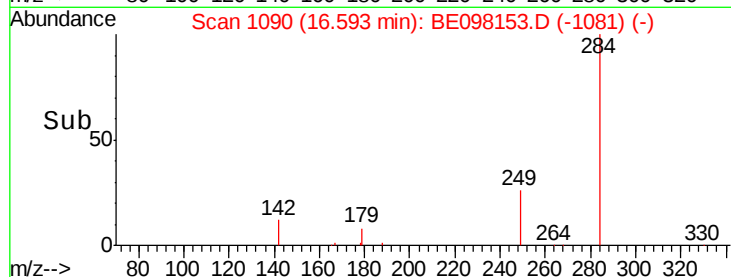
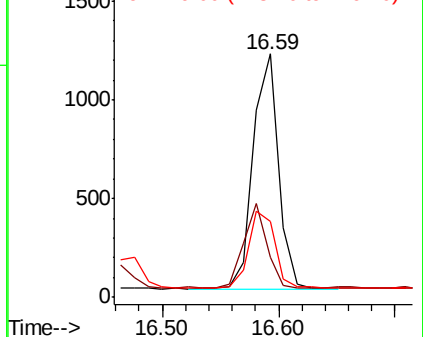


Abundance

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: 0.349 ng

RT: 16.94 min Scan# 1120

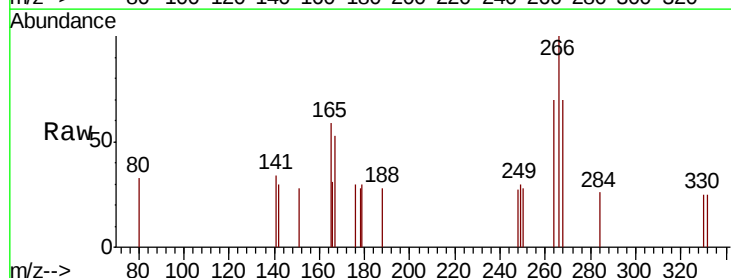
Delta R.T. 0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

Tgt Ion:266 Resp: 269

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 266 | 100   |       |       |
| 264 | 70.4  | 51.3  | 76.9  |
| 268 | 70.4  | 50.1  | 75.1  |

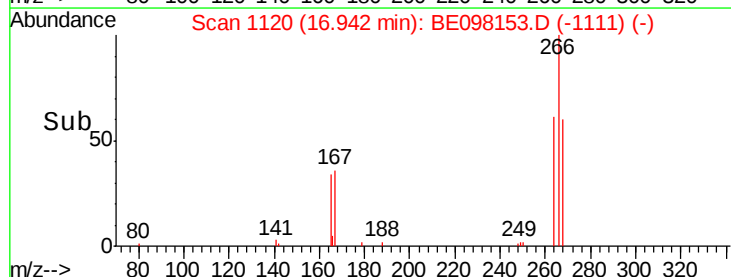
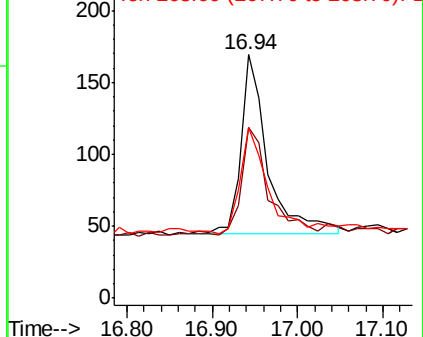


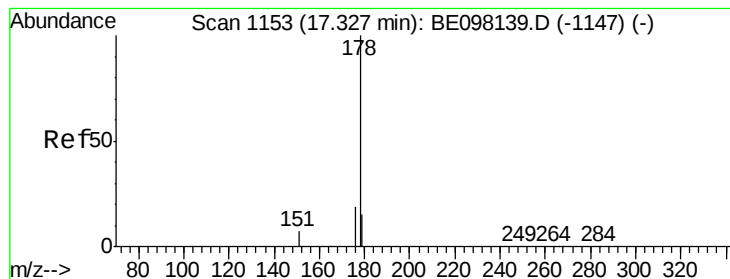
Abundance

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: 0.417 ng

RT: 17.33 min Scan# 1153

Delta R.T. 0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

Instrument :

BNA\_E

ClientSampled :

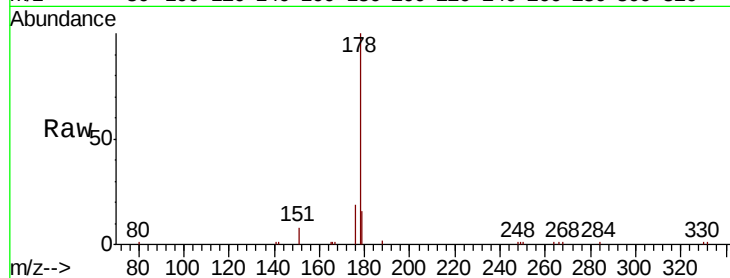
Tot Ion:178 Resp: 6856

Ion Ratio Lower Upper

178 100

176 19.8 15.5 23.3

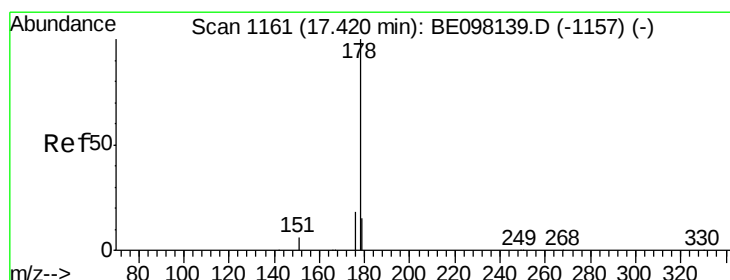
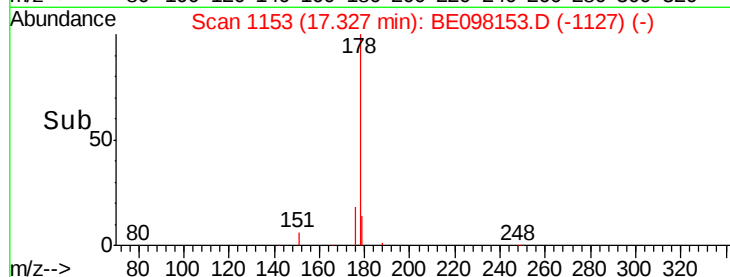
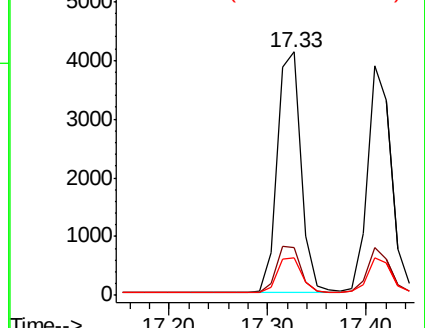
179 14.9 12.2 18.4



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: 0.407 ng

RT: 17.41 min Scan# 1160

Delta R.T. -0.01 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

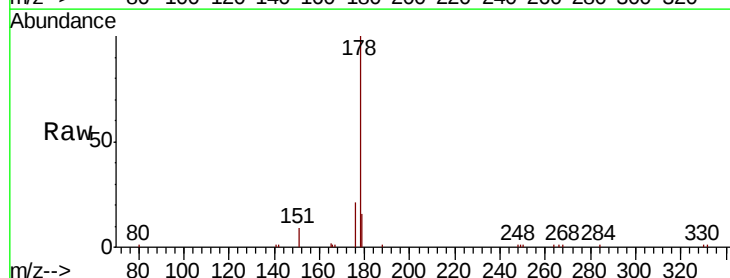
Tgt Ion:178 Resp: 6360

Ion Ratio Lower Upper

178 100

176 18.7 14.9 22.3

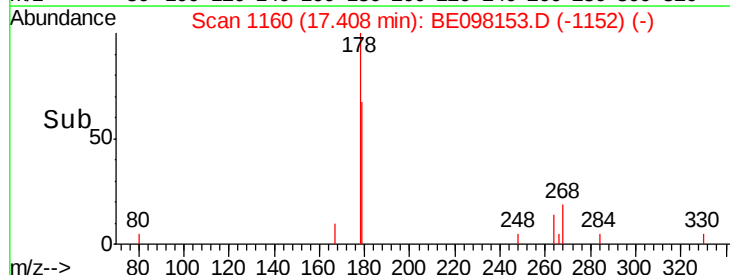
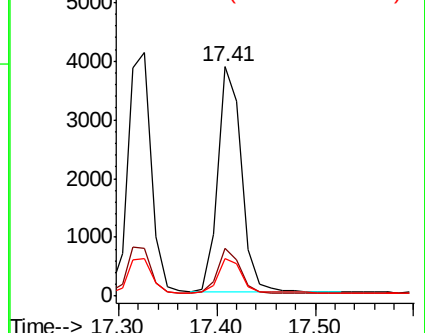
179 15.1 11.9 17.9

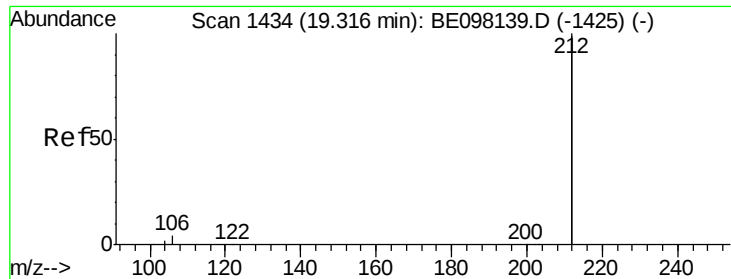


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.418 ng

RT: 19.31 min Scan# 1433

Delta R.T. -0.01 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

Instrument :

BNA\_E

ClientSampleId :

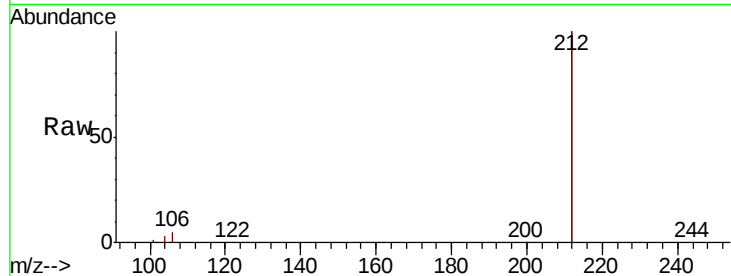
Tot Ion:212 Resp: 35725

Ion Ratio Lower Upper

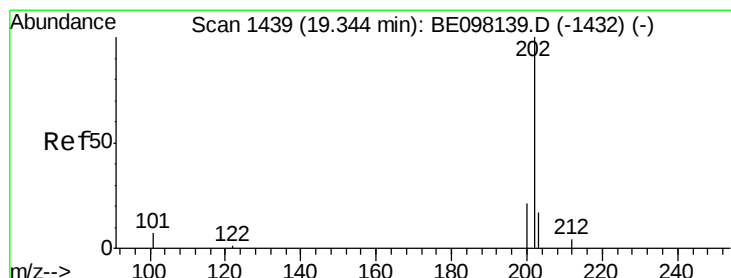
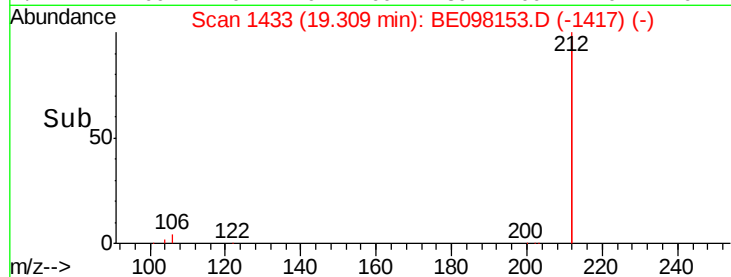
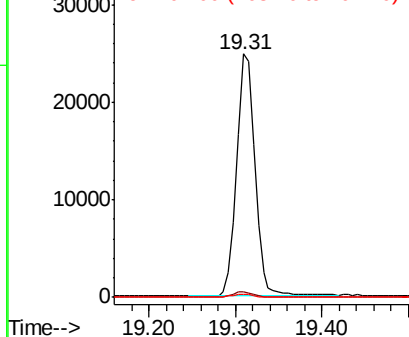
212 100

106 2.1 2.3 3.5#

104 1.3 1.3 1.9#



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: 0.424 ng

RT: 19.34 min Scan# 1439

Delta R.T. -0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

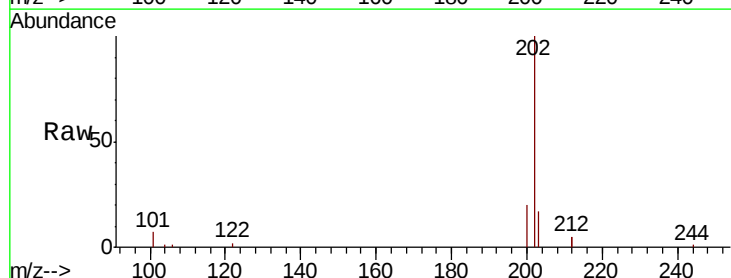
Tgt Ion:202 Resp: 8727

Ion Ratio Lower Upper

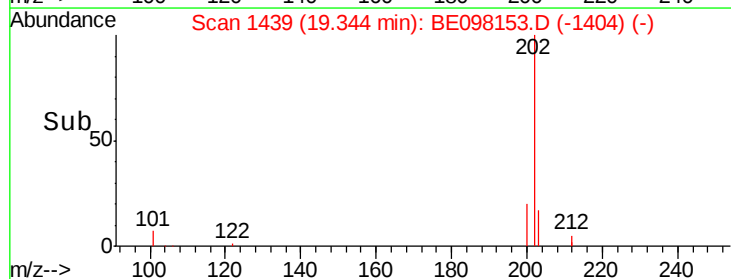
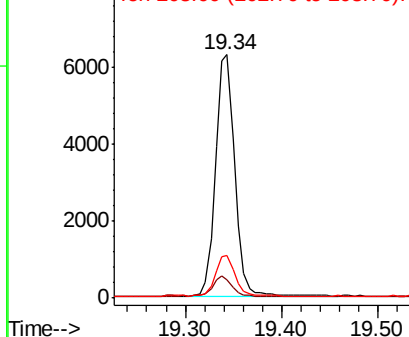
202 100

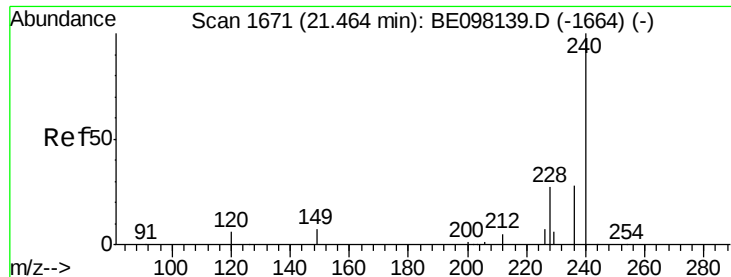
101 7.9 8.2 12.2#

203 17.1 15.0 22.4



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: 21.46 min Scan# 1671

Delta R.T. -0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

Instrument :

BNA\_E

ClientSampleId :

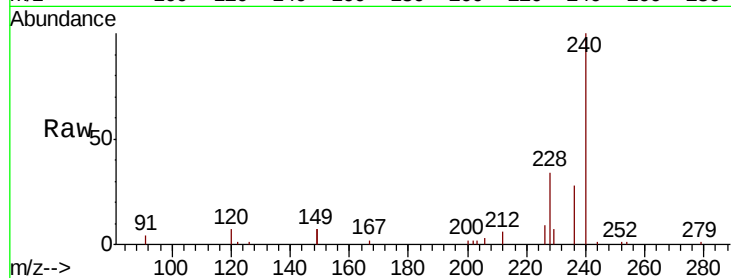
Tot Ion:240 Resp: 8170

Ion Ratio Lower Upper

240 100

120 7.5 7.1 10.7

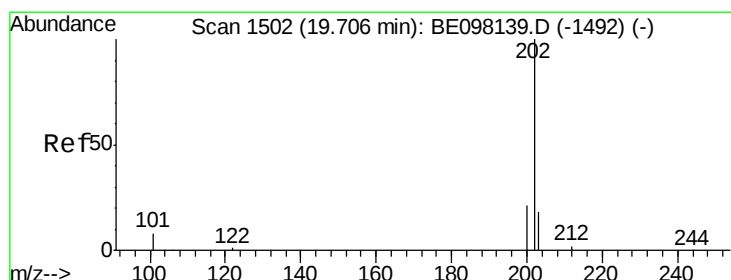
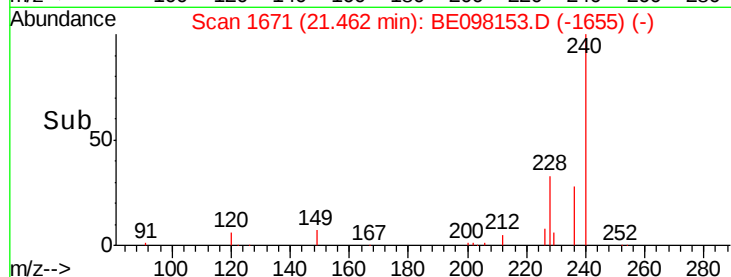
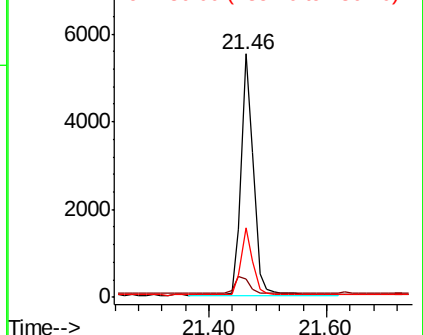
236 28.4 21.3 31.9



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: 0.411 ng

RT: 19.70 min Scan# 1501

Delta R.T. -0.01 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

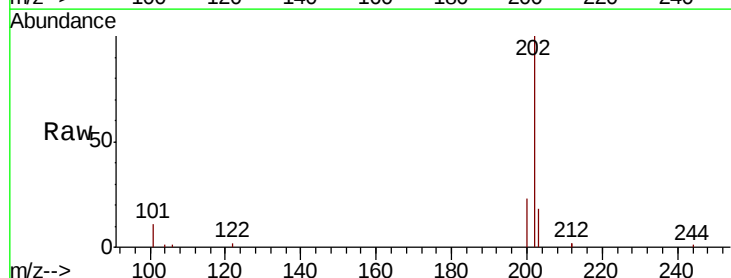
Tgt Ion:202 Resp: 9165

Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.4

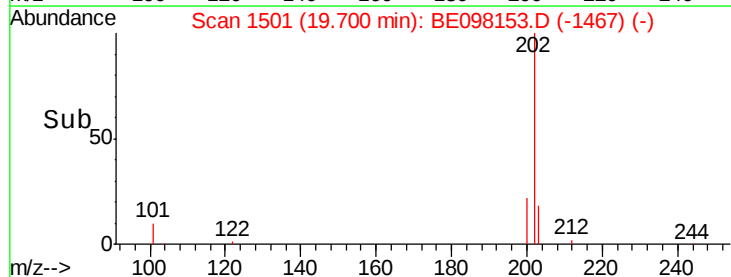
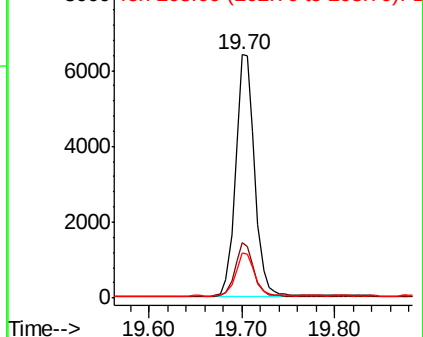
203 17.8 14.2 21.4

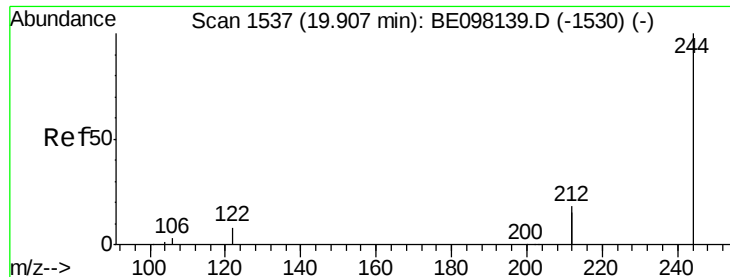


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.412 ng

RT: 19.91 min Scan# 1537

Delta R.T. -0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

Instrument :

BNA\_E

ClientSampleId :

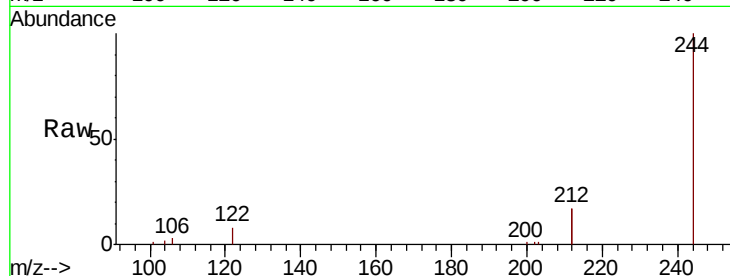
Tot Ion:244 Resp: 7836

Ion Ratio Lower Upper

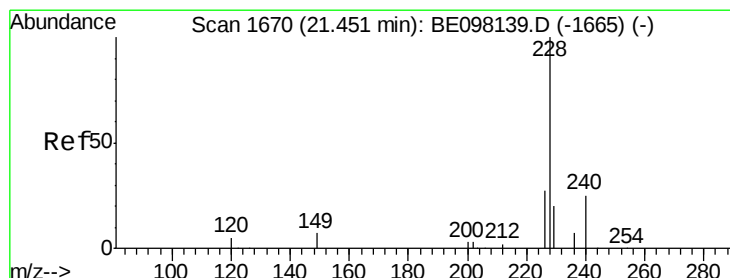
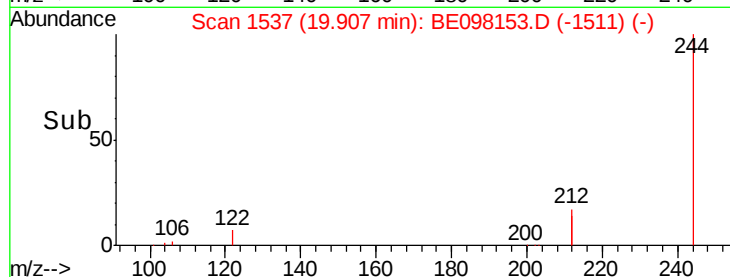
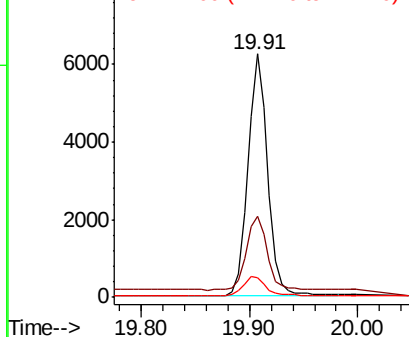
244 100

212 33.4 26.2 39.2

122 7.9 7.7 11.5



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: 0.407 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

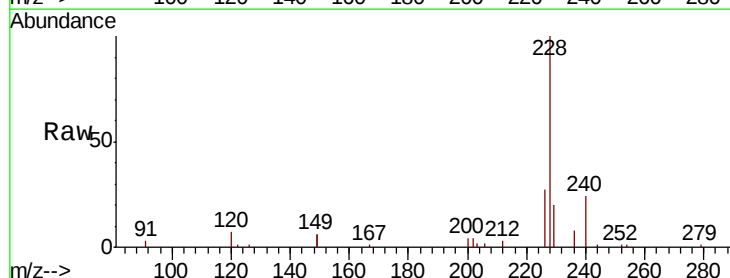
Tgt Ion:228 Resp: 9714

Ion Ratio Lower Upper

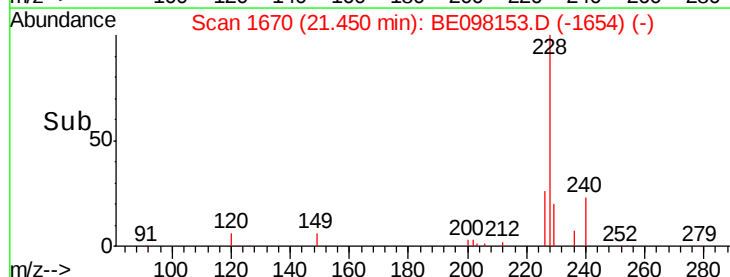
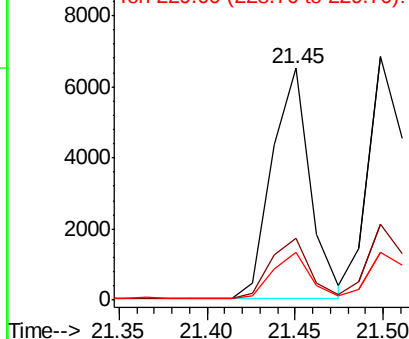
228 100

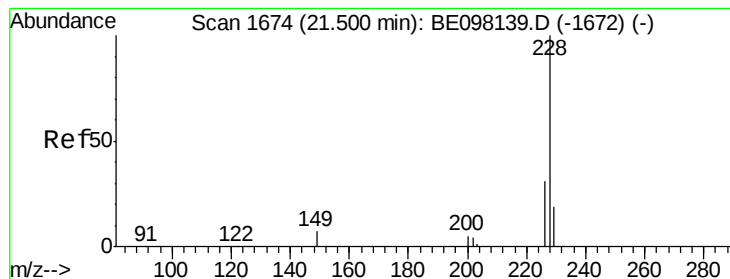
226 26.7 22.6 33.8

229 20.5 16.9 25.3



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: 0.417 ng

RT: 21.50 min Scan# 1674

Delta R.T. -0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

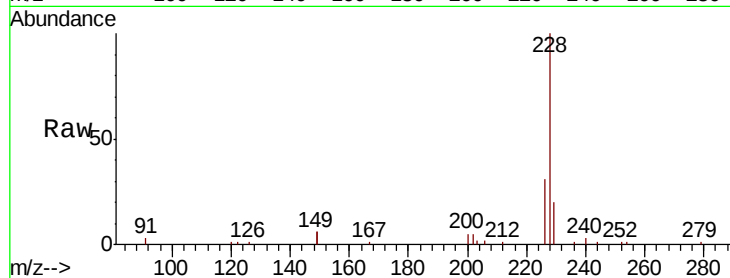
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:228 Resp: 9848

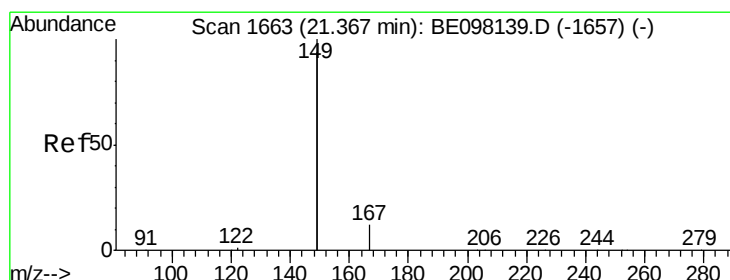
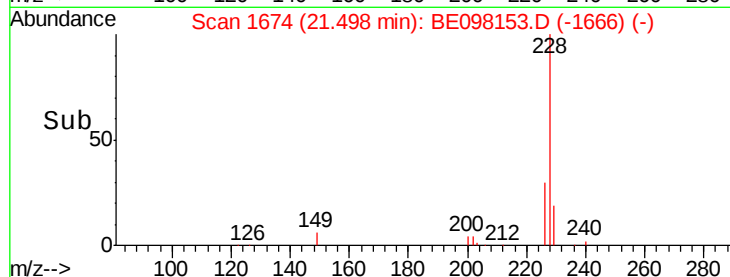
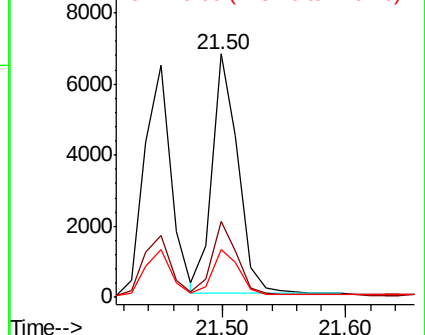
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 31.1  | 24.3  | 36.5  |
| 229 | 19.8  | 17.3  | 25.9  |



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.132 ng

RT: 21.37 min Scan# 1663

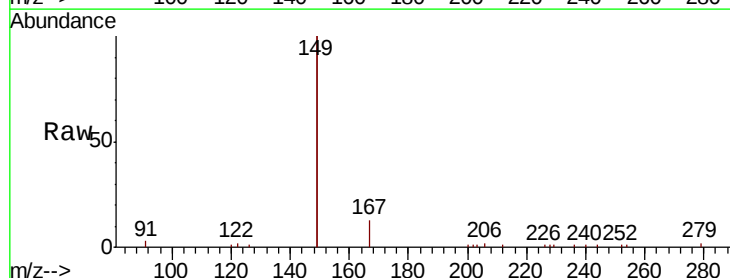
Delta R.T. -0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

Tgt Ion:149 Resp: 14982

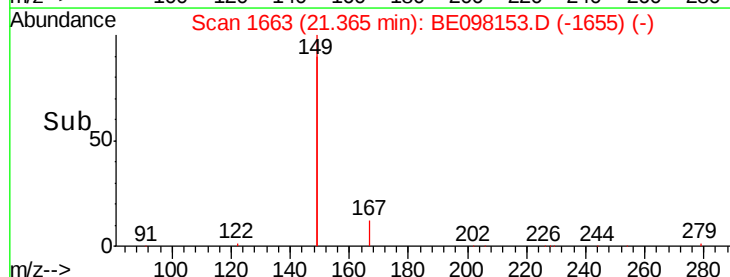
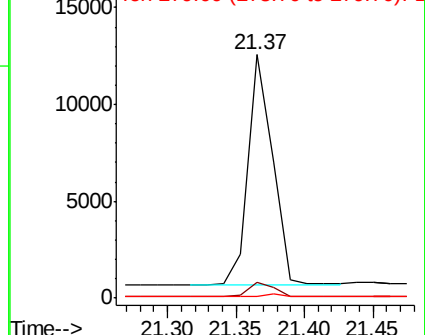
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 6.7   | 5.6   | 8.4   |
| 279 | 1.2   | 0.9   | 1.3   |

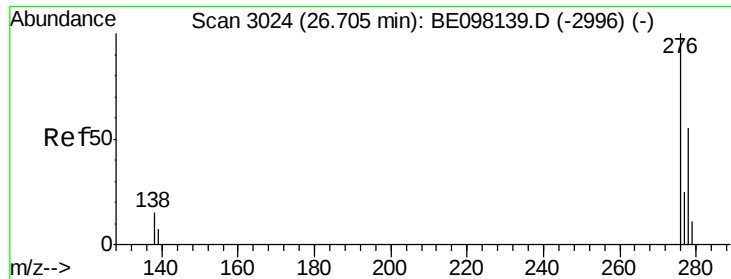


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

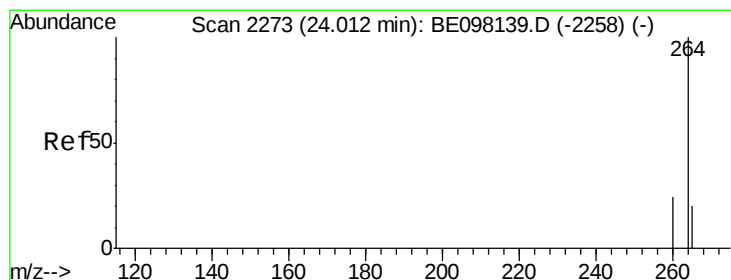
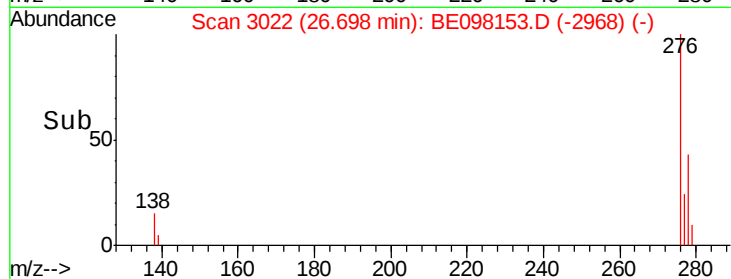
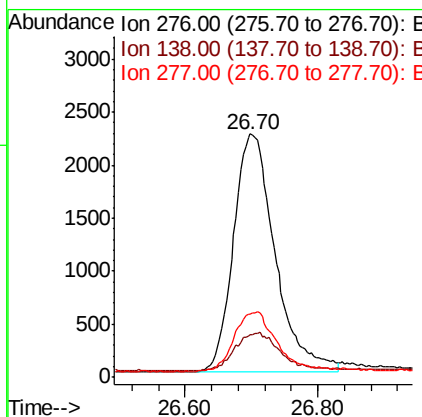
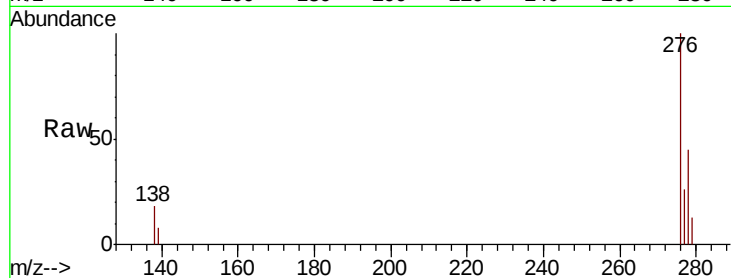




#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.398 ng  
 RT: 26.70 min Scan# 3022  
 Delta R.T. -0.01 min  
 Lab File: BE098153.D  
 Acq: 5 Nov 2018 9:41

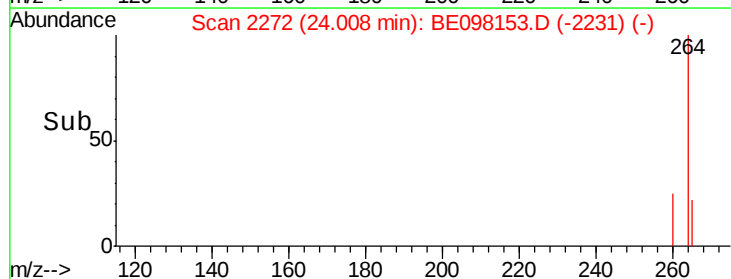
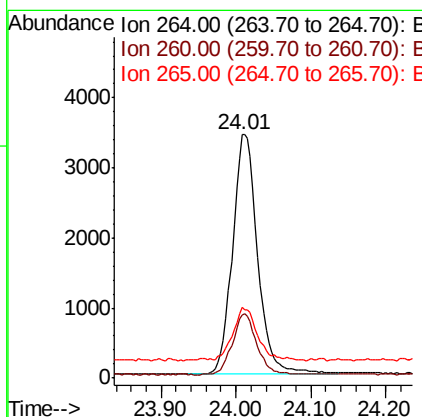
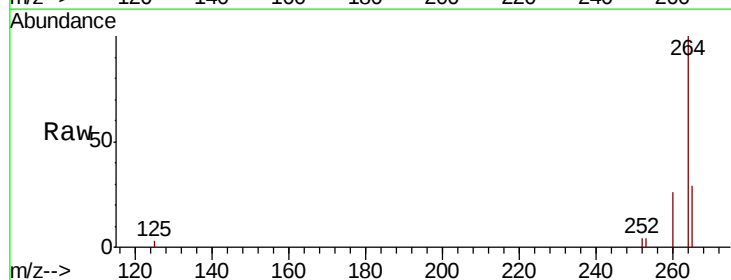
Instrument :  
 BNA\_E  
 ClientSampleId :

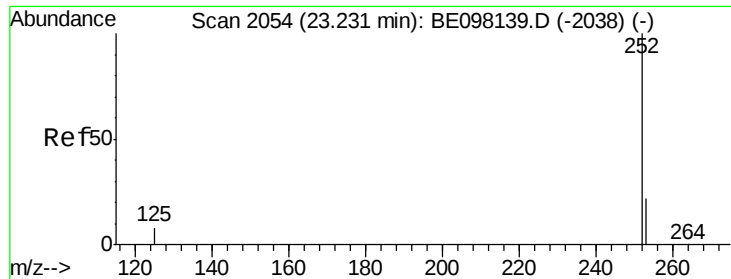
Tot Ion:276 Resp: 9787  
 Ion Ratio Lower Upper  
 276 100  
 138 17.0 17.0 25.6#  
 277 24.5 20.5 30.7



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 24.01 min Scan# 2272  
 Delta R.T. -0.00 min  
 Lab File: BE098153.D  
 Acq: 5 Nov 2018 9:41

Tgt Ion:264 Resp: 8046  
 Ion Ratio Lower Upper  
 264 100  
 260 26.0 21.1 31.7  
 265 29.2 29.2 43.8#





#35

Benzo(b)fluoranthene

Concen: 0.406 ng

RT: 23.23 min Scan# 2053

Delta R.T. -0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

Instrument :

BNA\_E

ClientSampleId :

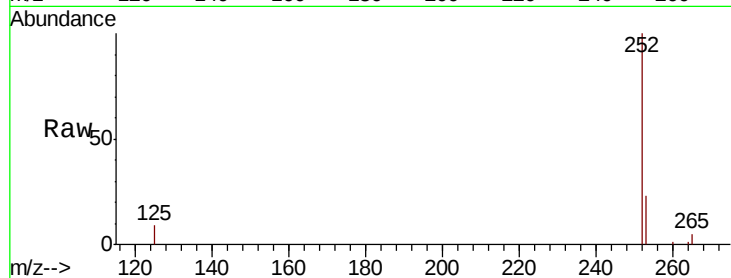
Tot Ion:252 Resp: 9203

Ion Ratio Lower Upper

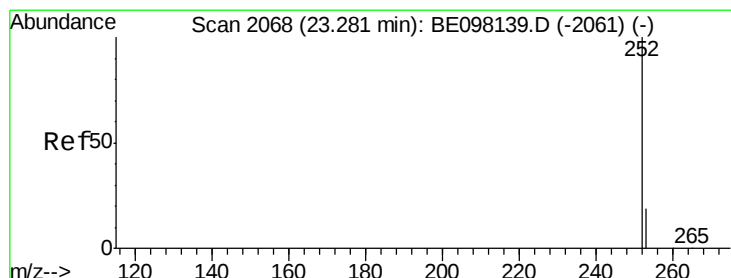
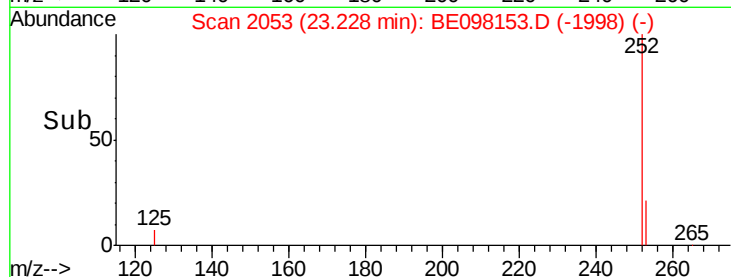
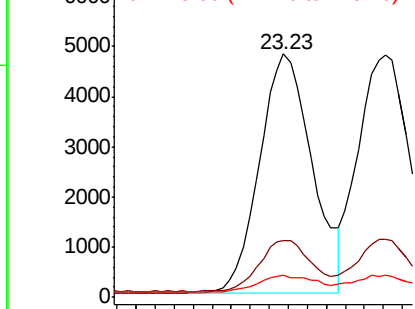
252 100

253 23.3 20.6 31.0

125 9.2 14.3 21.5#



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: 0.397 ng

RT: 23.28 min Scan# 2068

Delta R.T. 0.00 min

Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

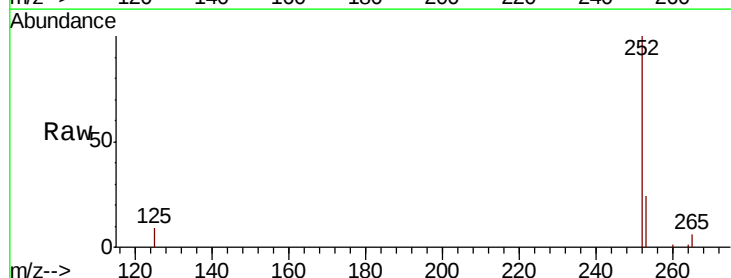
Tgt Ion:252 Resp: 9321

Ion Ratio Lower Upper

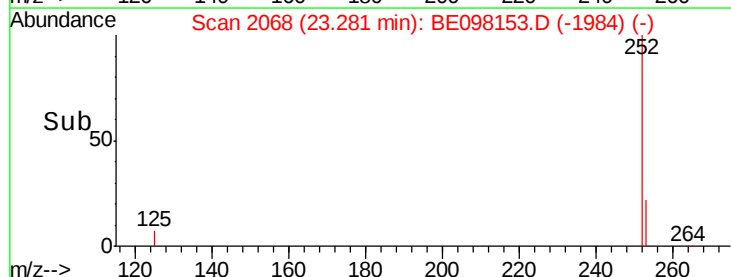
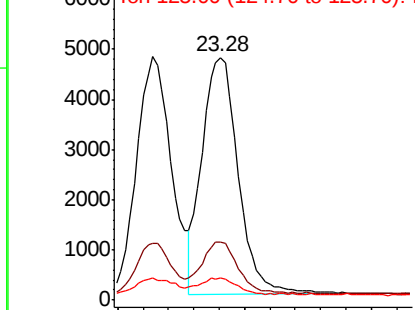
252 100

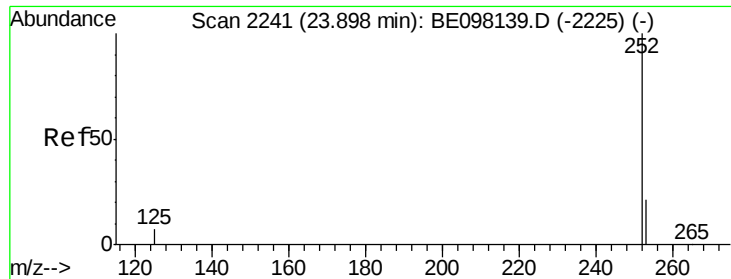
253 23.8 20.4 30.6

125 9.3 14.6 21.8#



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

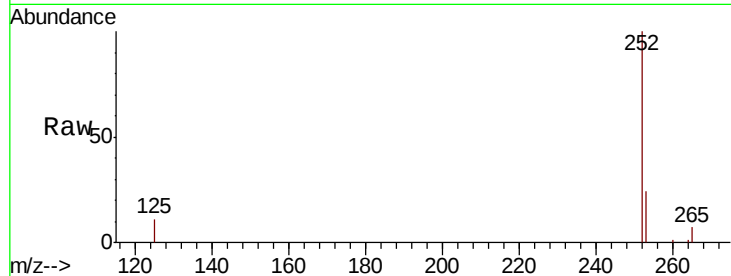




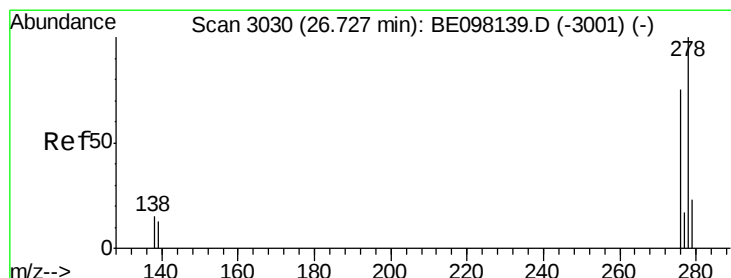
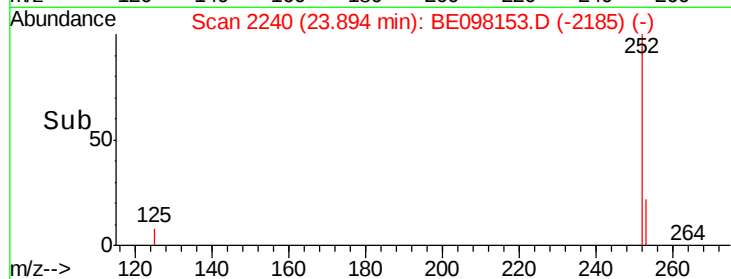
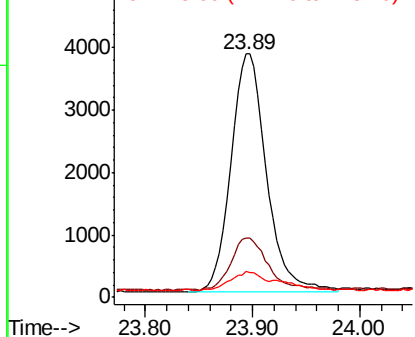
#37  
Benzo(a)pyrene  
Concen: 0.394 ng  
RT: 23.89 min Scan# 2240  
Delta R.T. -0.00 min  
Lab File: BE098153.D  
Acq: 5 Nov 2018 9:41

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:252 Resp: 8723  
Ion Ratio Lower Upper  
252 100  
253 24.3 20.6 31.0  
125 10.9 15.6 23.4#

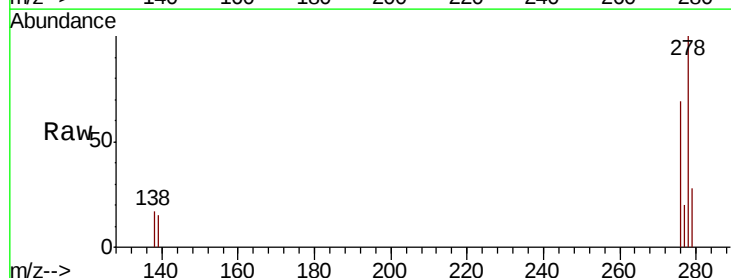


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

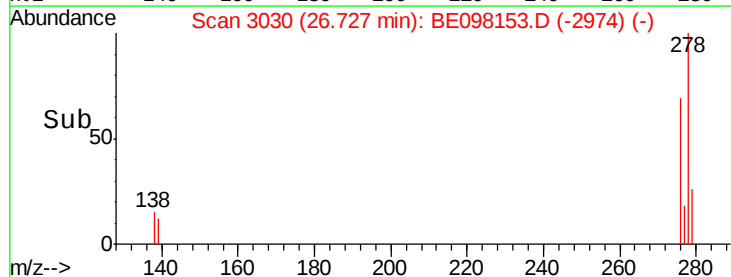
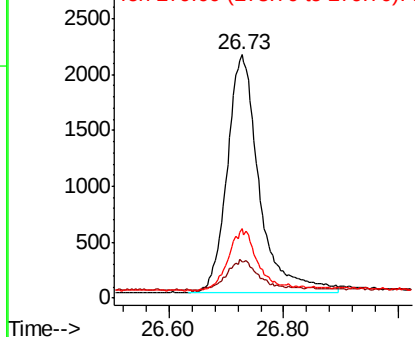


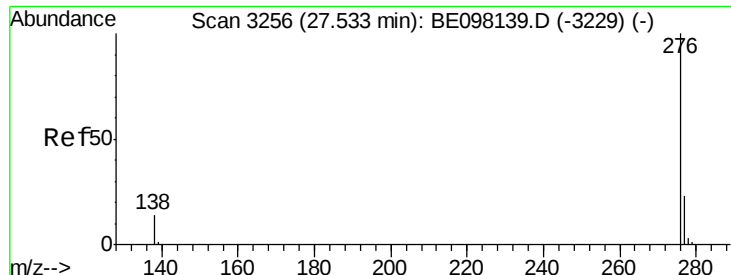
#38  
Dibenzo(a,h)anthracene  
Concen: 0.398 ng  
RT: 26.73 min Scan# 3030  
Delta R.T. 0.00 min  
Lab File: BE098153.D  
Acq: 5 Nov 2018 9:41

Tgt Ion:278 Resp: 8222  
Ion Ratio Lower Upper  
278 100  
139 15.1 16.3 24.5#  
279 28.4 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





#39

Benzo(a,h,i)perylene

Concen: 0.396 ng

RT: 27.52 min Scan# 3253

Delta R.T. -0.01 min

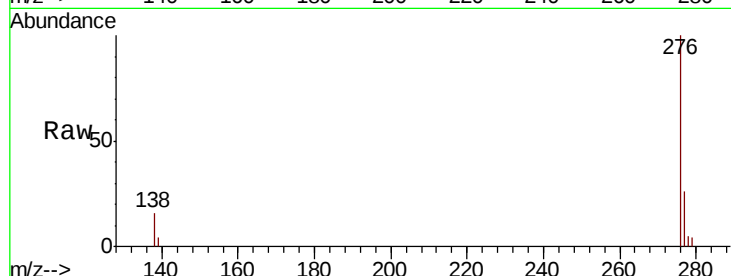
Lab File: BE098153.D

Acq: 5 Nov 2018 9:41

Instrument :

BNA\_E

ClientSampleId :



Tot Ion: 276 Resp: 8152

Ion Ratio Lower Upper

276 100

277 25.7 22.1 33.1

138 16.4 19.3 28.9

