

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE111318\  
 Data File : BE098209.D  
 Acq On : 13 Nov 2018 11:11  
 Operator : SJ/JU  
 Sample : PB114586BS  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Nov 13 11:59:48 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE111218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 12 13:32:15 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.87  | 152  | 1369     | 0.40 | ng    | 0.01     |
| 7) Naphthalene-d8         | 10.67 | 136  | 6776     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.53 | 164  | 4454     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.28 | 188  | 10387    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.46 | 240  | 12256    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 24.02 | 264  | 11598    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.46  | 112  | 1524     | 0.39 | ng    | 0.00     |
| 5) Phenol-d6                | 7.04  | 99   | 2540     | 0.41 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 9.03  | 82   | 2563     | 0.38 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10 | 12.27 | 152  | 4549     | 0.38 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 16.03 | 330  | 652      | 0.34 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl        | 13.16 | 172  | 7073     | 0.38 | ng    | 0.01     |
| 25) Fluoranthene-d10        | 19.31 | 212  | 50666    | 0.39 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.91 | 244  | 10301    | 0.37 | ng    | 0.00     |

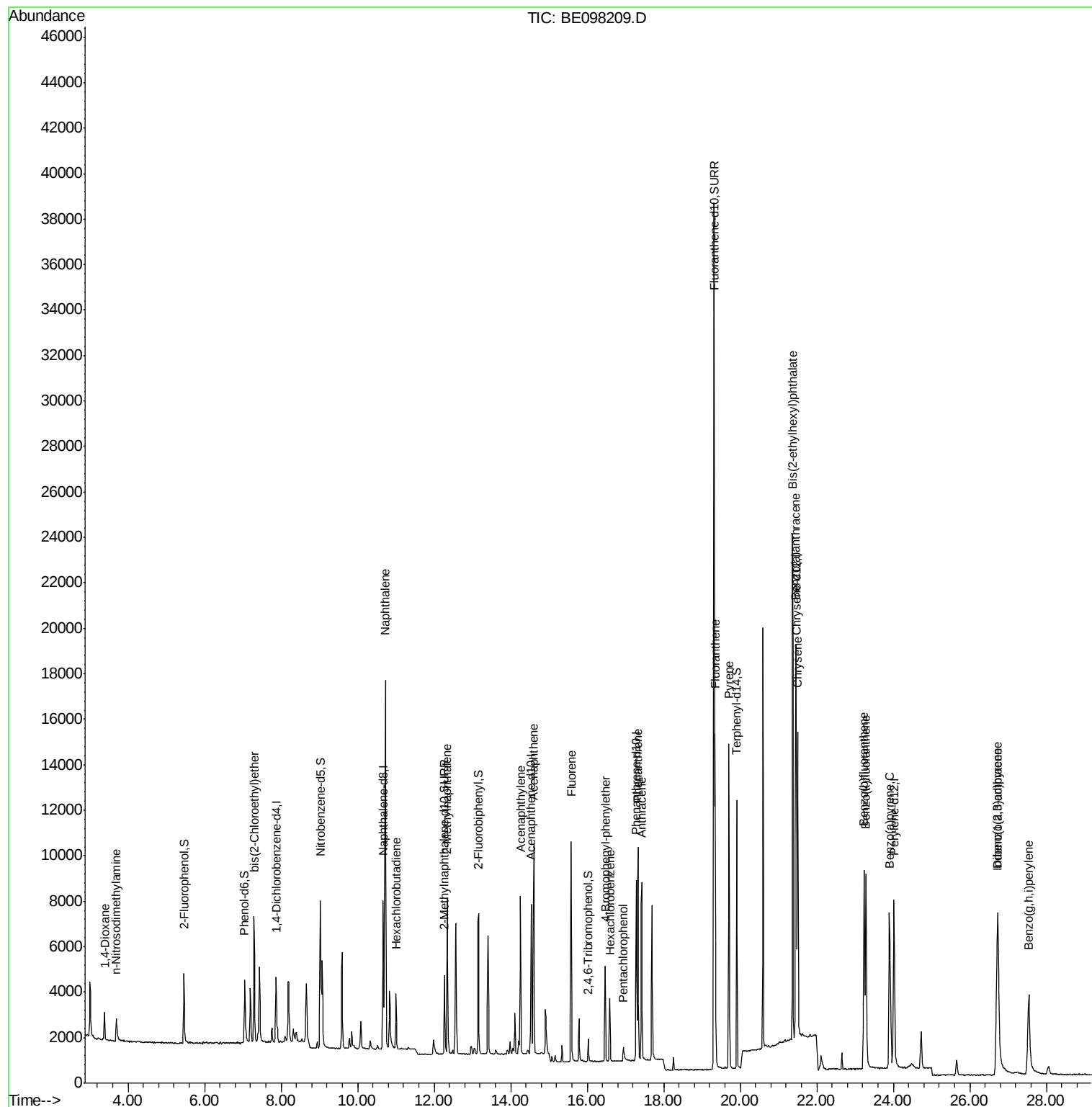
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.38  | 88   | 788      | 0.382 | ng    | 94     |
| 3) n-Nitrosodimethylamine      | 3.69  | 42   | 974      | 0.363 | ng    | # 89   |
| 6) bis(2-Chloroethyl)ether     | 7.29  | 93   | 1945     | 0.388 | ng    | 97     |
| 9) Naphthalene                 | 10.72 | 128  | 26235    | 0.381 | ng    | 99     |
| 10) Hexachlorobutadiene        | 11.00 | 225  | 1619     | 0.378 | ng    | 99     |
| 12) 2-Methylnaphthalene        | 12.34 | 142  | 4655     | 0.389 | ng    | 98     |
| 16) Acenaphthylene             | 14.26 | 152  | 8007     | 0.392 | ng    | 98     |
| 17) Acenaphthene               | 14.60 | 154  | 4824     | 0.387 | ng    | 99     |
| 18) Fluorene                   | 15.58 | 166  | 6197     | 0.388 | ng    | 98     |
| 20) 4-Bromophenyl-phenylether  | 16.48 | 248  | 2467     | 0.390 | ng    | # 78   |
| 21) Hexachlorobenzene          | 16.59 | 284  | 2524     | 0.383 | ng    | 99     |
| 22) Pentachlorophenol          | 16.94 | 266  | 486      | 0.411 | ng    | 97     |
| 23) Phenanthrene               | 17.33 | 178  | 10150    | 0.392 | ng    | 100    |
| 24) Anthracene                 | 17.42 | 178  | 9288     | 0.385 | ng    | 99     |
| 26) Fluoranthene               | 19.34 | 202  | 12549    | 0.392 | ng    | 99     |
| 28) Pyrene                     | 19.71 | 202  | 13109    | 0.389 | ng    | 99     |
| 30) Benzo(a)anthracene         | 21.45 | 228  | 13156    | 0.378 | ng    | 98     |
| 31) Chrysene                   | 21.50 | 228  | 13235    | 0.374 | ng    | 100    |
| 32) Bis(2-ethylhexyl)phthalate | 21.37 | 149  | 28651    | 0.396 | ng    | 100    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.72 | 276  | 12413    | 0.383 | ng    | # 88   |
| 35) Benzo(b)fluoranthene       | 23.23 | 252  | 12250    | 0.372 | ng    | 98     |
| 36) Benzo(k)fluoranthene       | 23.28 | 252  | 13577    | 0.391 | ng    | 98     |
| 37) Benzo(a)pyrene             | 23.90 | 252  | 12040    | 0.381 | ng    | 98     |
| 38) Dibenzo(a,h)anthracene     | 26.73 | 278  | 10328    | 0.384 | ng    | 98     |
| 39) Benzo(g,h,i)perylene       | 27.54 | 276  | 10668    | 0.380 | ng    | 98     |

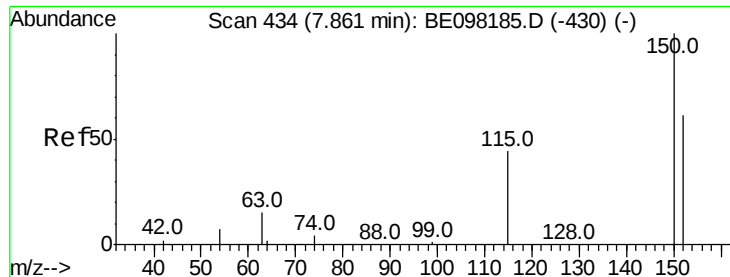
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Nov 12 13:32:15 2018  
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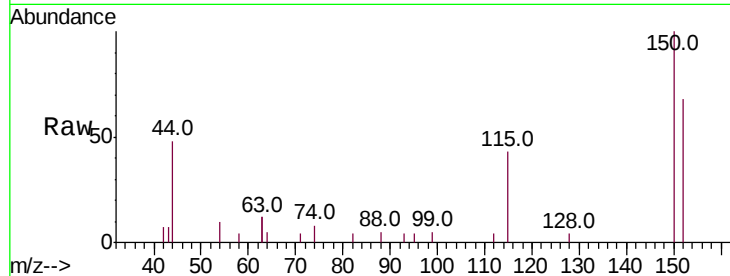


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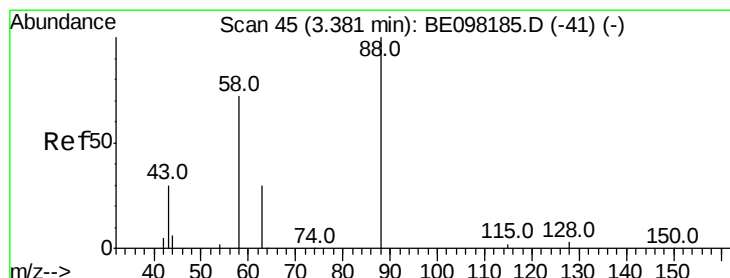
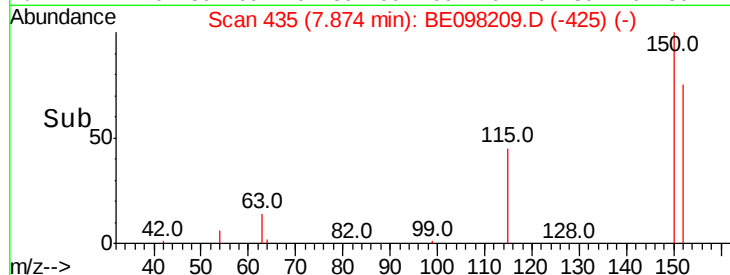
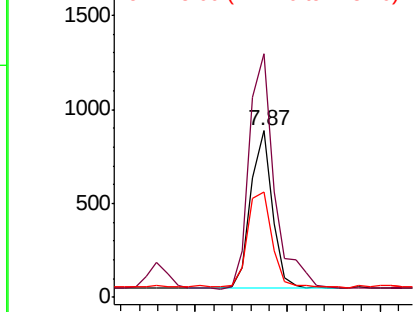
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.87 min Scan# 435  
Delta R.T. 0.01 min  
Lab File: BE098209.D  
Acq: 13 Nov 2018 11:11

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 1369  
Ion Ratio Lower Upper  
152 100  
150 146.3 127.5 191.3  
115 63.3 60.3 90.5



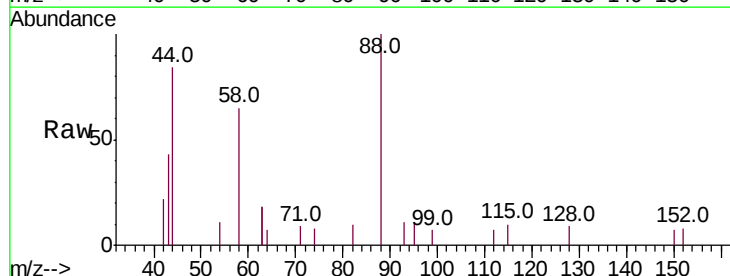
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



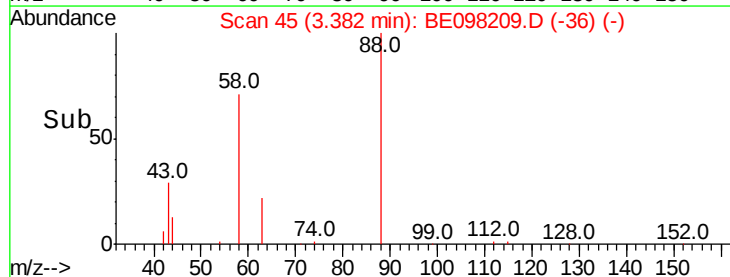
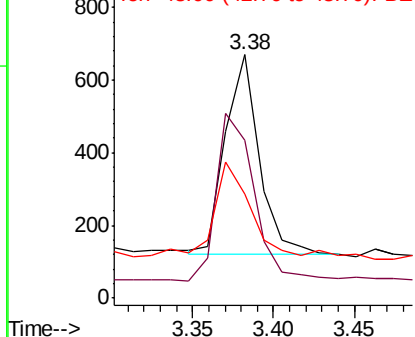
#2

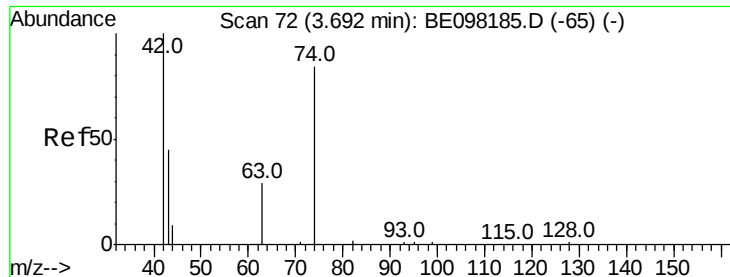
1,4-Dioxane  
Concen: 0.382 ng  
RT: 3.38 min Scan# 45  
Delta R.T. 0.00 min  
Lab File: BE098209.D  
Acq: 13 Nov 2018 11:11

Tgt Ion: 88 Resp: 788  
Ion Ratio Lower Upper  
88 100  
58 93.3 79.0 118.4  
43 51.8 38.1 57.1



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



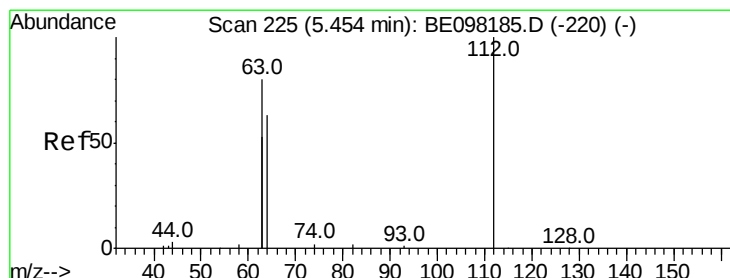
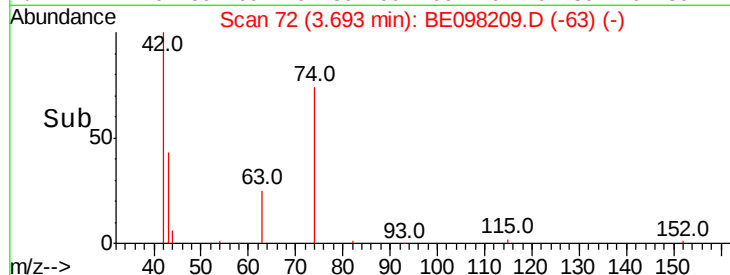
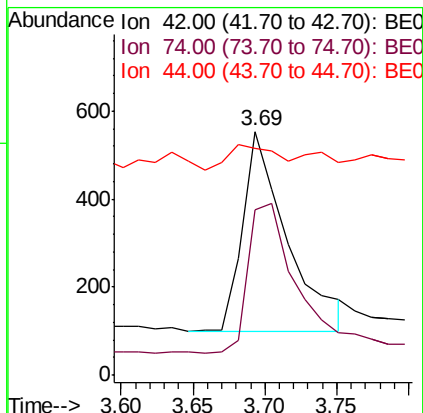
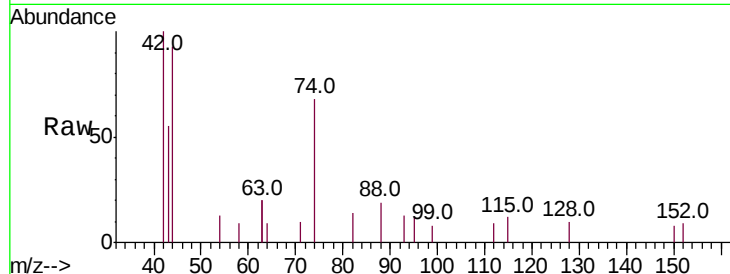


#3

n-Nitrosodimethylamine  
 Concen: 0.363 ng  
 RT: 3.69 min Scan# 72  
 Delta R.T. 0.00 min  
 Lab File: BE098209.D  
 Acq: 13 Nov 2018 11:11

Instrument :  
 BNA\_E  
 ClientSampled :

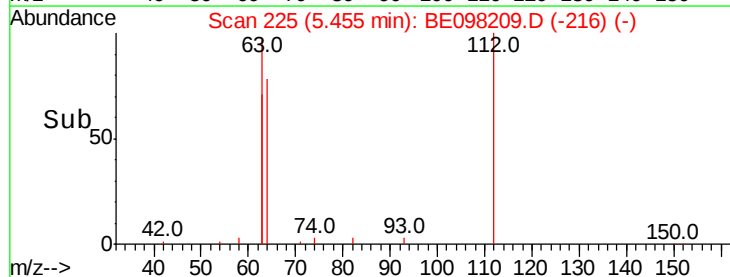
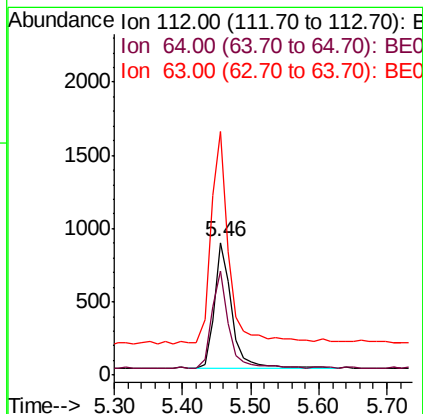
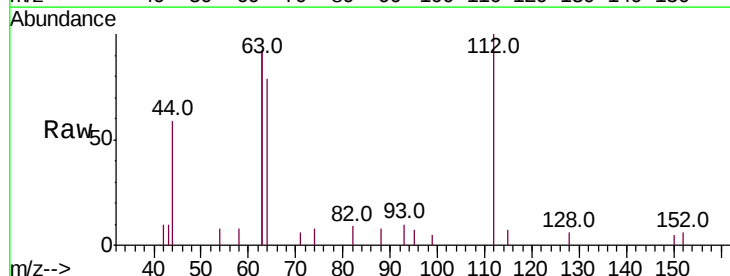
Tot Ion: 42 Resp: 974  
 Ion Ratio Lower Upper  
 42 100  
 74 80.5 61.7 92.5  
 44 0.0 14.0 21.0#

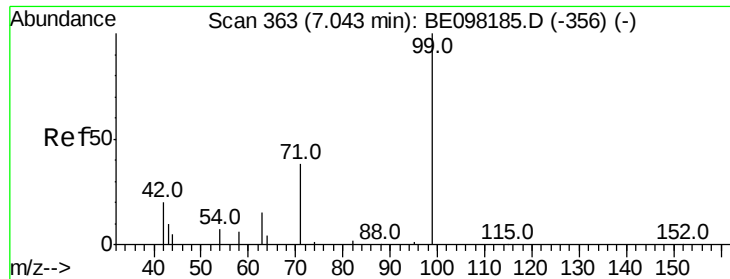


#4

2-Fluorophenol  
 Concen: 0.394 ng  
 RT: 5.46 min Scan# 225  
 Delta R.T. 0.00 min  
 Lab File: BE098209.D  
 Acq: 13 Nov 2018 11:11

Tgt Ion: 112 Resp: 1524  
 Ion Ratio Lower Upper  
 112 100  
 64 76.0 61.7 92.5  
 63 178.7 136.2 204.2





#5

Phenol-d6

Concen: 0.409 ng

RT: 7.04 min Scan# 363

Delta R.T. 0.00 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

Instrument :

BNA\_E

ClientSampleId :

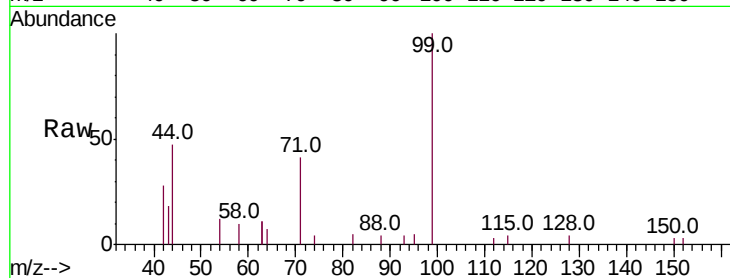
Tot Ion: 99 Resp: 2540

Ion Ratio Lower Upper

99 100

42 30.4 27.1 40.7

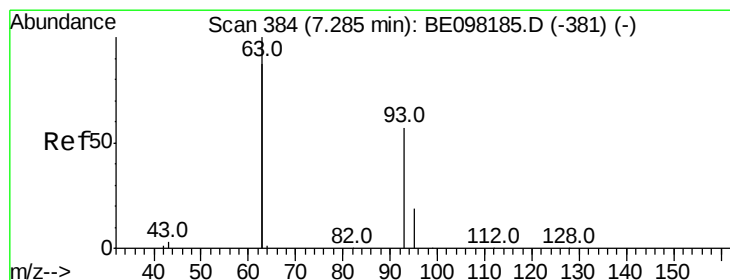
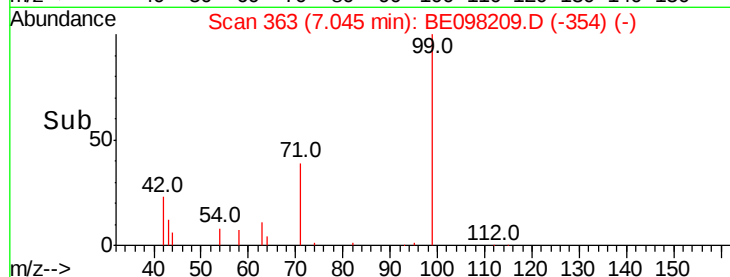
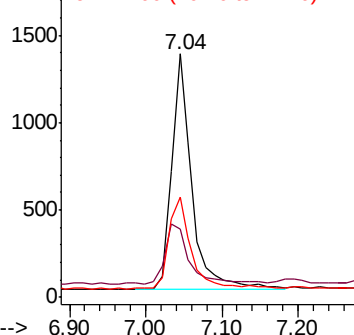
71 43.0 37.0 55.6



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: 0.388 ng

RT: 7.29 min Scan# 384

Delta R.T. 0.00 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

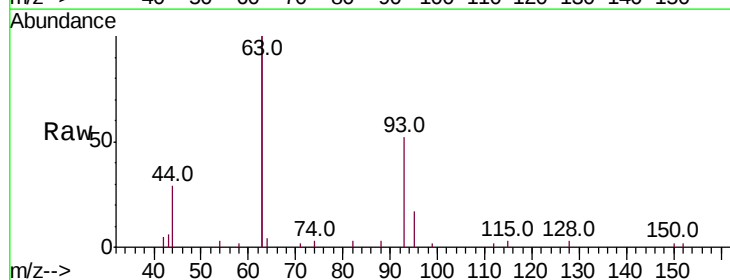
Tgt Ion: 93 Resp: 1945

Ion Ratio Lower Upper

93 100

63 335.7 272.6 409.0

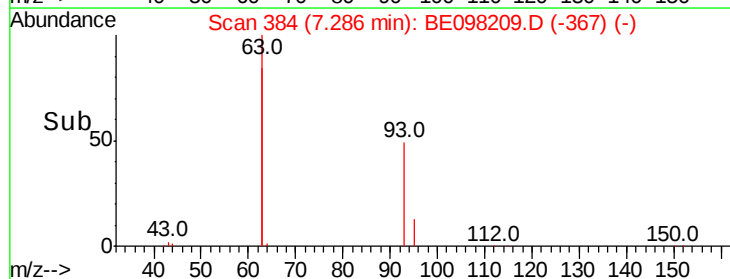
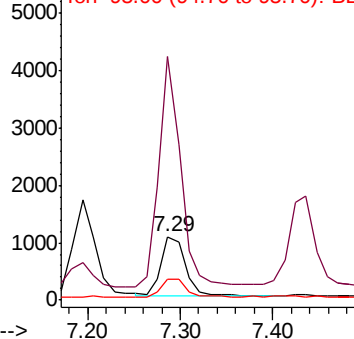
95 31.0 27.1 40.7

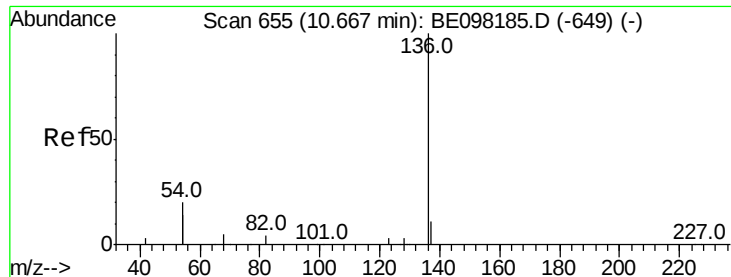


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: BE098209.D

Acq: 13 Nov 2018 11:11

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 6776

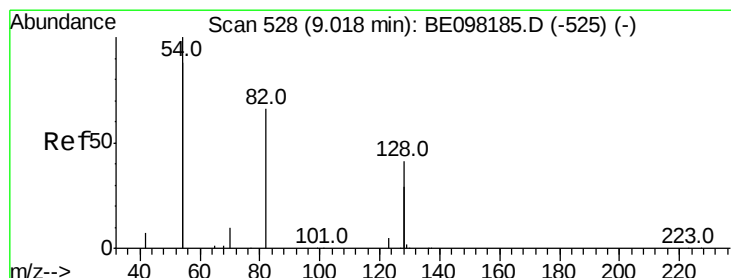
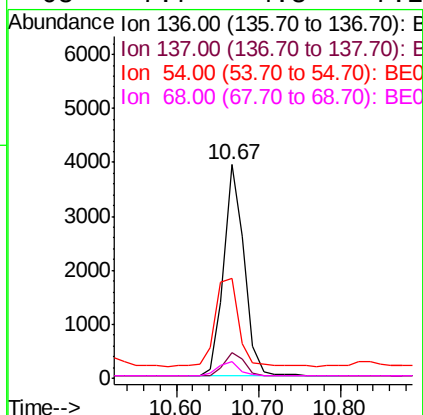
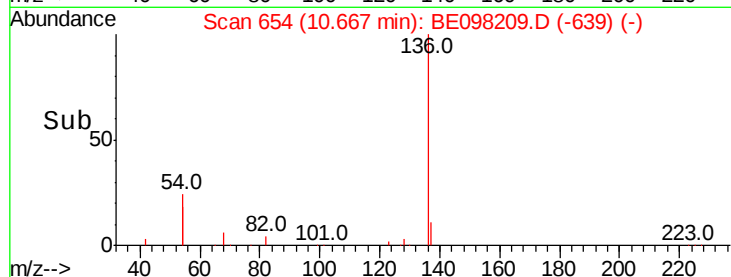
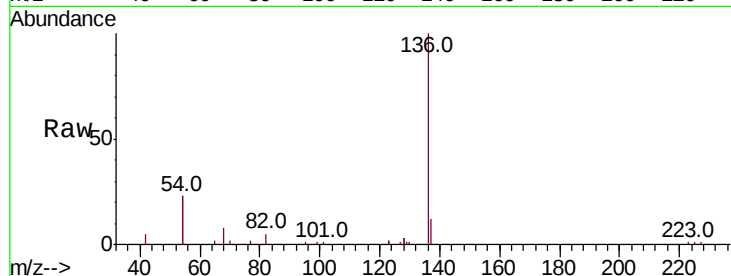
Ion Ratio Lower Upper

136 100

137 11.7 9.5 14.3

54 46.5 31.3 46.9

68 7.7 4.8 7.2#



#8

Nitrobenzene-d5

Concen: 0.379 ng

RT: 9.03 min Scan# 528

Delta R.T. 0.01 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

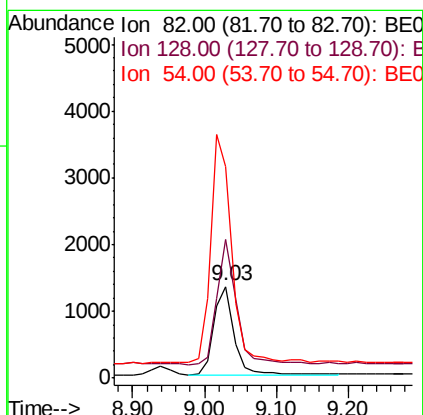
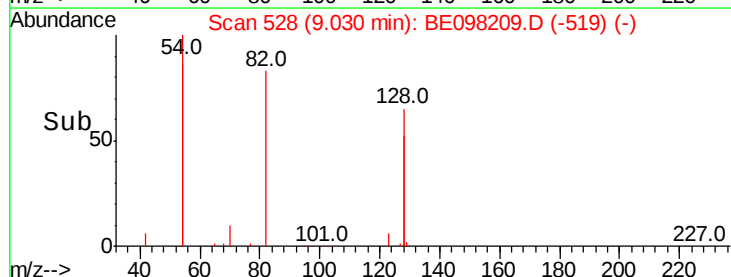
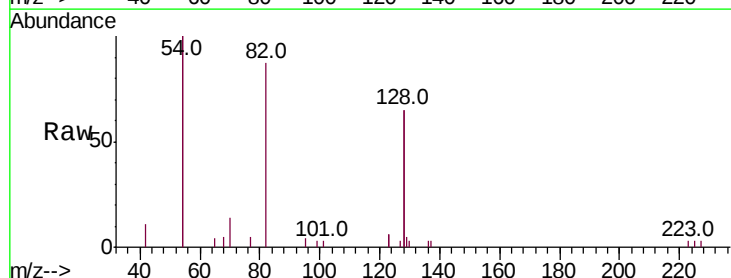
Tgt Ion: 82 Resp: 2563

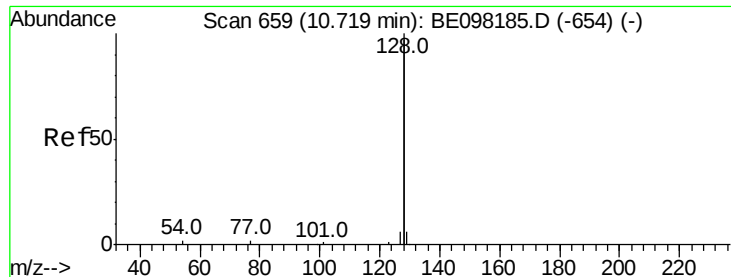
Ion Ratio Lower Upper

82 100

128 151.3 96.1 144.1#

54 231.2 232.0 348.0#





#9

Naphthalene

Concen: 0.381 ng

RT: 10.72 min Scan# 658

Delta R.T. -0.00 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

Instrument :

BNA\_E

ClientSampleId :

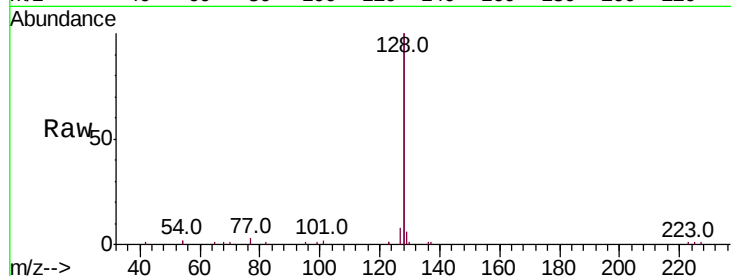
Tot Ion:128 Resp: 26235

Ion Ratio Lower Upper

128 100

129 3.0 2.6 4.0

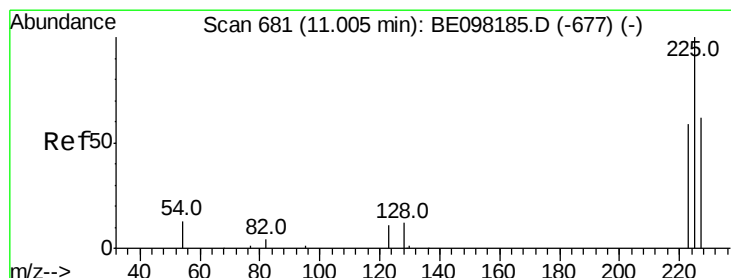
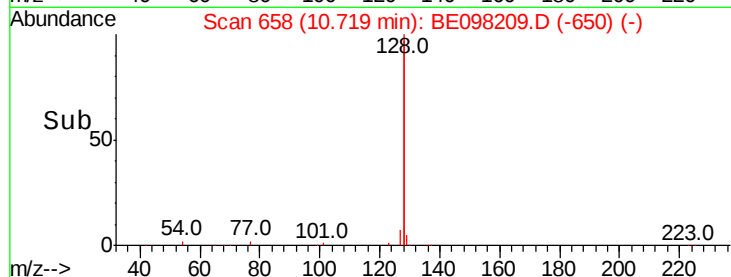
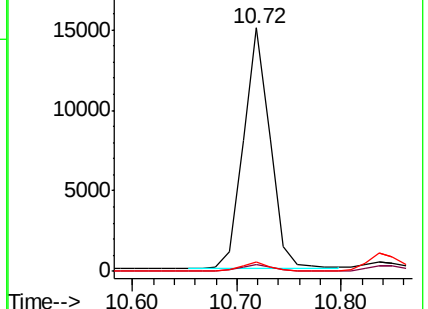
127 3.8 2.8 4.2



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: 0.378 ng

RT: 11.00 min Scan# 680

Delta R.T. -0.00 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

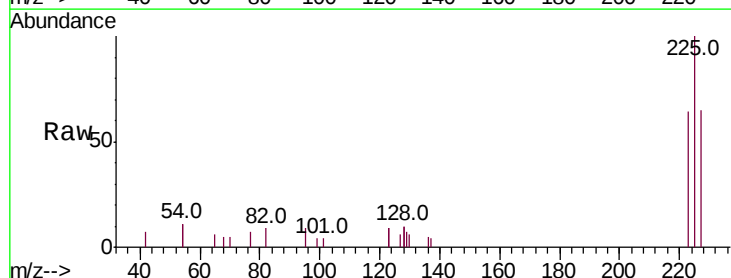
Tgt Ion:225 Resp: 1619

Ion Ratio Lower Upper

225 100

223 62.7 50.5 75.7

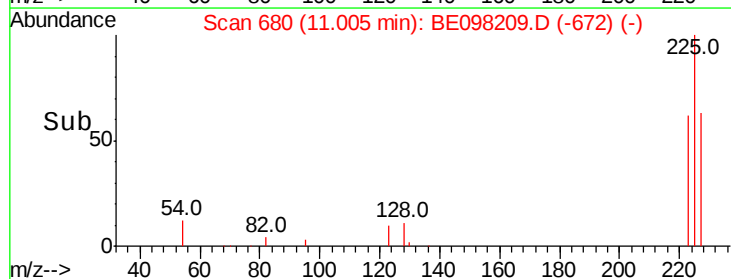
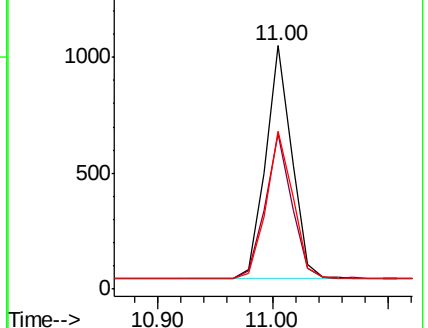
227 64.2 50.3 75.5

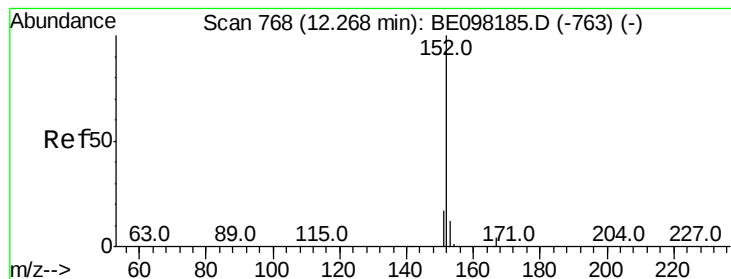


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.383 ng

RT: 12.27 min Scan# 767

Delta R.T. -0.00 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

Instrument :

BNA\_E

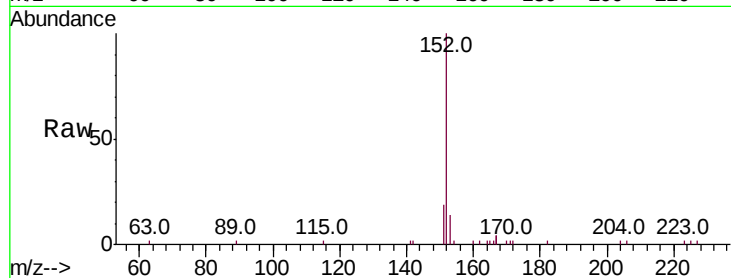
ClientSampleId :

Tot Ion:152 Resp: 4549

Ion Ratio Lower Upper

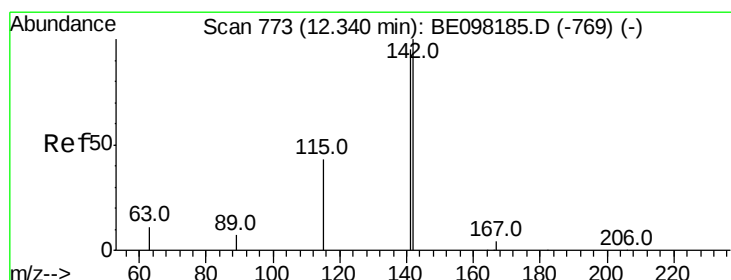
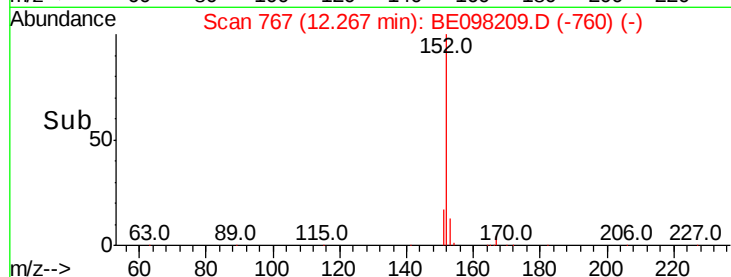
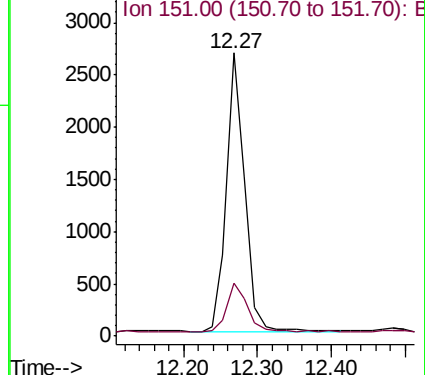
152 100

151 19.0 15.4 23.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.389 ng

RT: 12.34 min Scan# 772

Delta R.T. -0.00 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

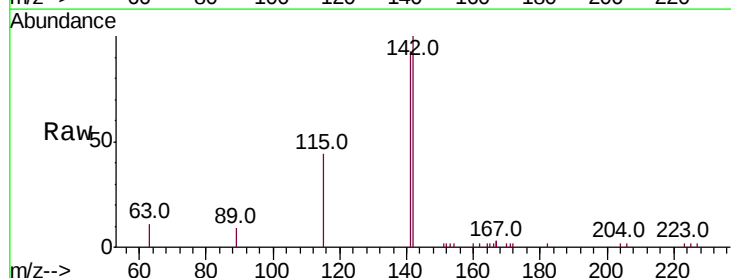
Tgt Ion:142 Resp: 4655

Ion Ratio Lower Upper

142 100

141 92.7 76.3 114.5

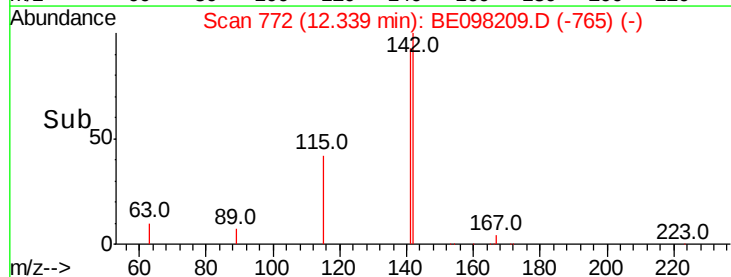
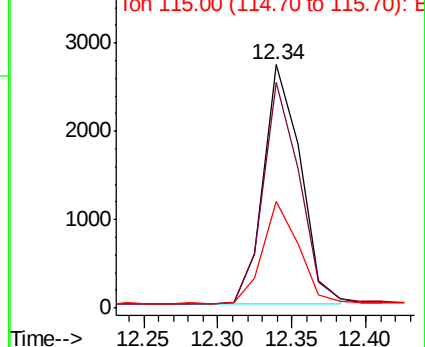
115 43.7 35.8 53.8

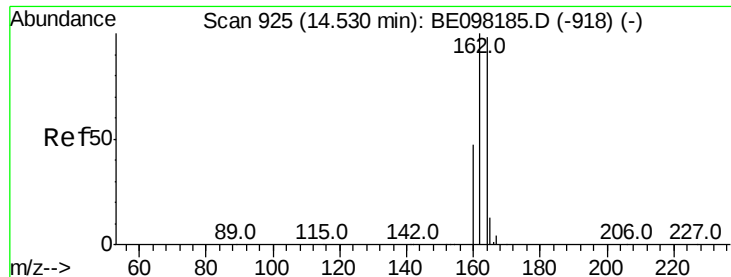


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

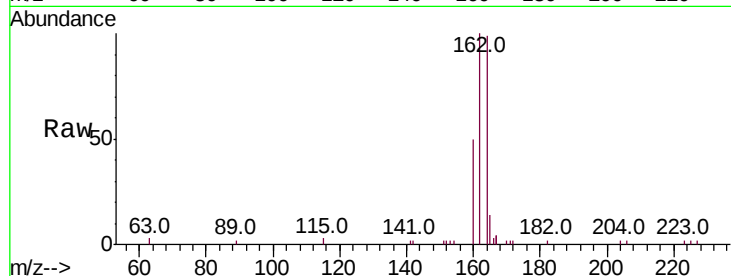




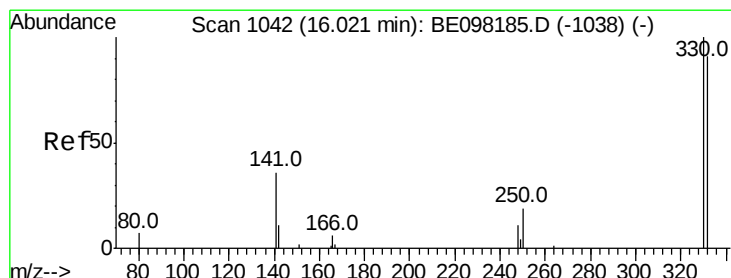
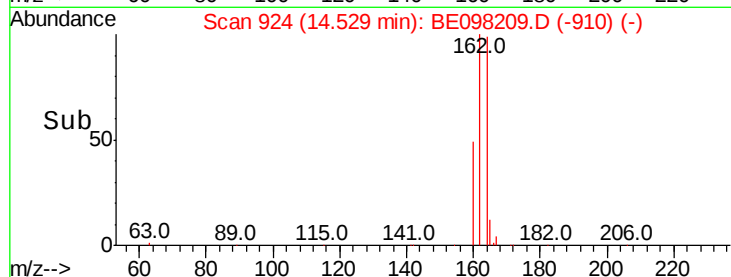
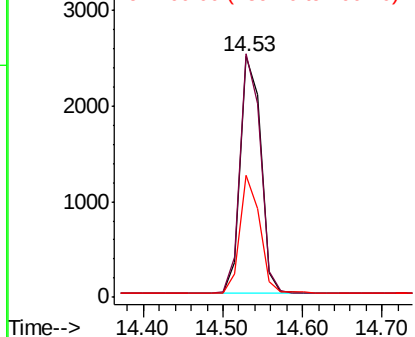
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.53 min Scan# 924  
Delta R.T. -0.00 min  
Lab File: BE098209.D  
Acq: 13 Nov 2018 11:11

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:164 Resp: 4454  
Ion Ratio Lower Upper  
164 100  
162 101.1 81.8 122.6  
160 50.5 39.4 59.0

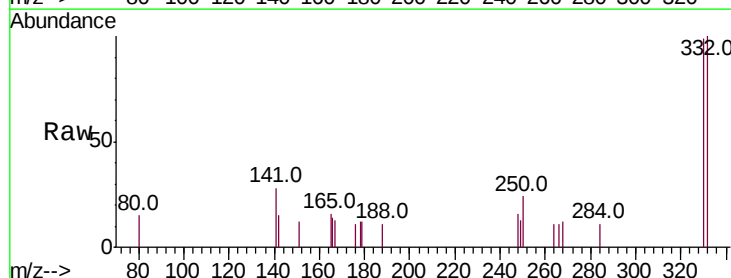


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

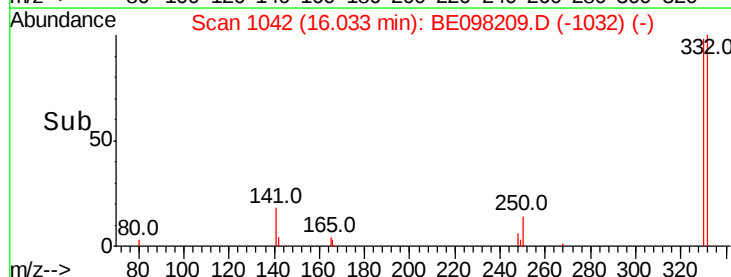
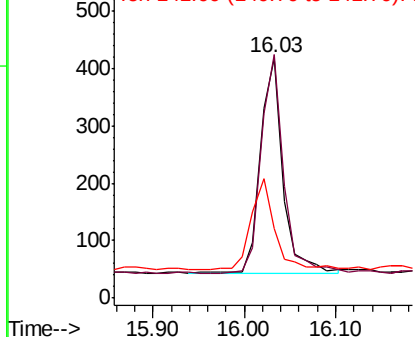


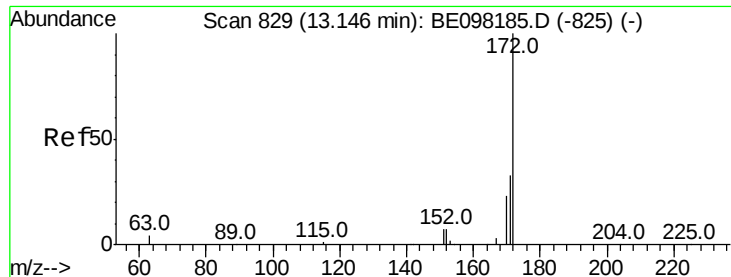
#14  
2,4,6-Tribromophenol  
Concen: 0.336 ng  
RT: 16.03 min Scan# 1042  
Delta R.T. 0.01 min  
Lab File: BE098209.D  
Acq: 13 Nov 2018 11:11

Tgt Ion:330 Resp: 652  
Ion Ratio Lower Upper  
330 100  
332 102.5 77.7 116.5  
141 45.1 33.6 50.4



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: 0.379 ng

RT: 13.16 min Scan# 829

Delta R.T. 0.01 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

Instrument :

BNA\_E

ClientSampleId :

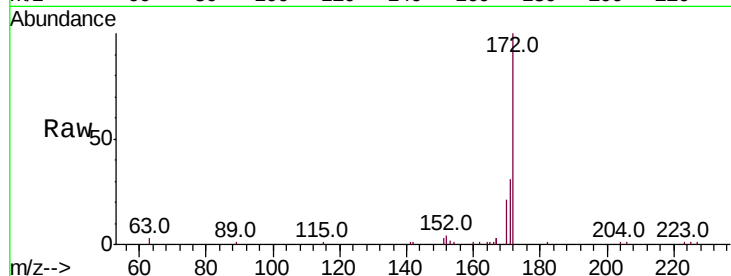
Tot Ion:172 Resp: 7073

Ion Ratio Lower Upper

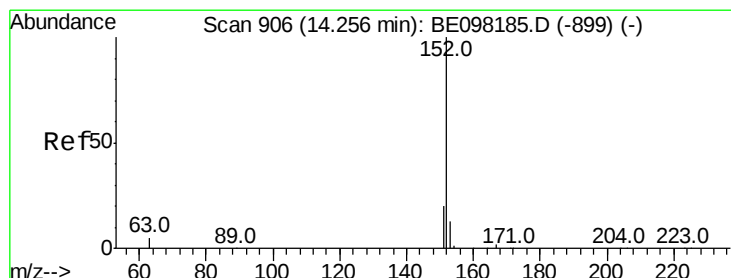
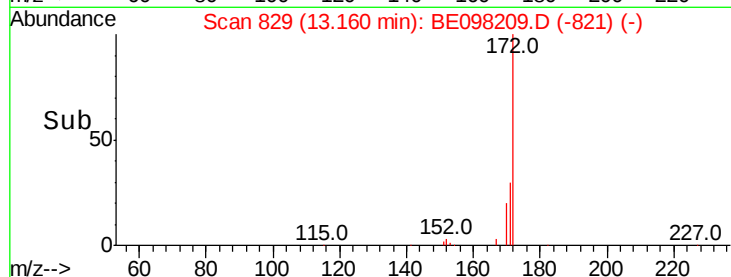
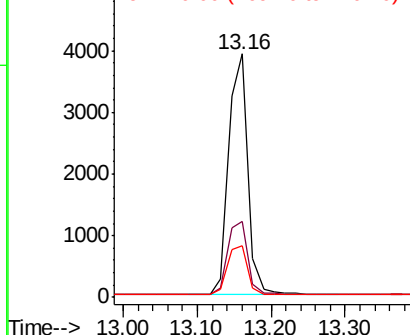
172 100

171 31.0 27.3 40.9

170 21.2 19.4 29.0



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: 0.392 ng

RT: 14.26 min Scan# 905

Delta R.T. -0.00 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

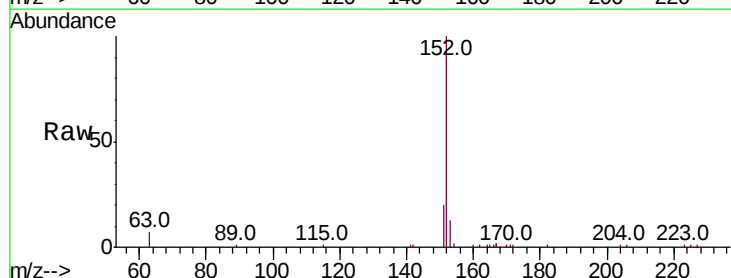
Tgt Ion:152 Resp: 8007

Ion Ratio Lower Upper

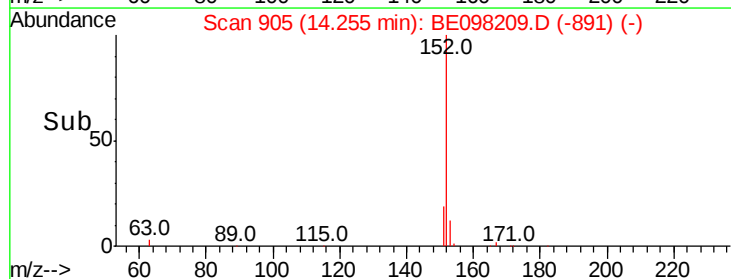
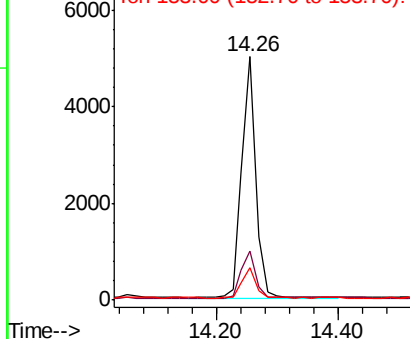
152 100

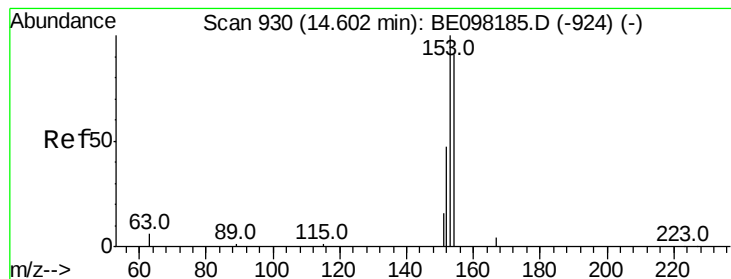
151 19.8 16.4 24.6

153 12.4 10.6 15.8



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: 0.387 ng

RT: 14.60 min Scan# 929

Delta R.T. -0.00 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

Instrument :

BNA\_E

ClientSampleId :

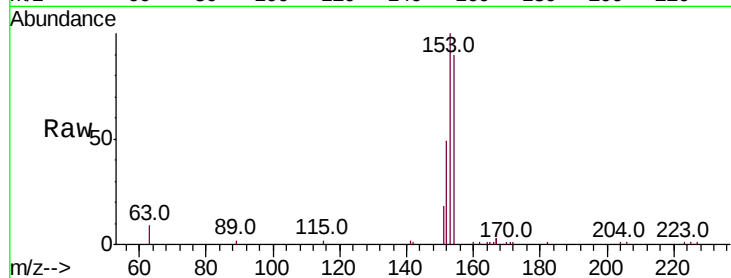
Tot Ion:154 Resp: 4824

Ion Ratio Lower Upper

154 100

153 116.4 92.1 138.1

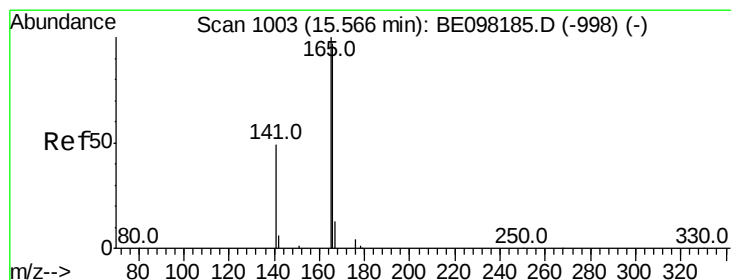
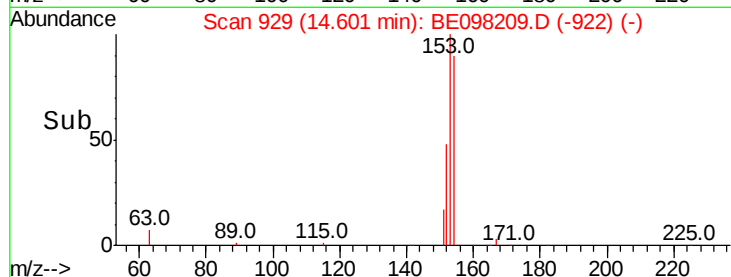
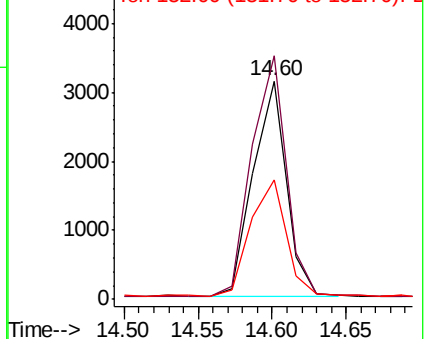
152 57.7 46.2 69.2



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: 0.388 ng

RT: 15.58 min Scan# 1003

Delta R.T. 0.01 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

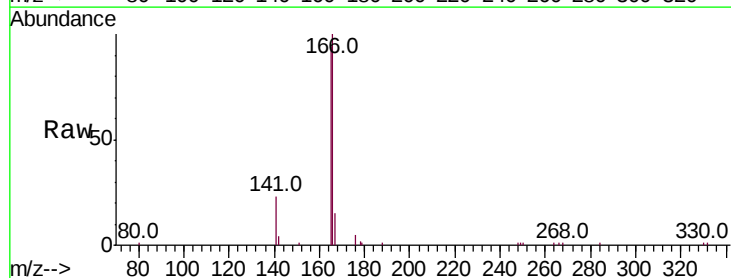
Tgt Ion:166 Resp: 6197

Ion Ratio Lower Upper

166 100

165 98.3 80.1 120.1

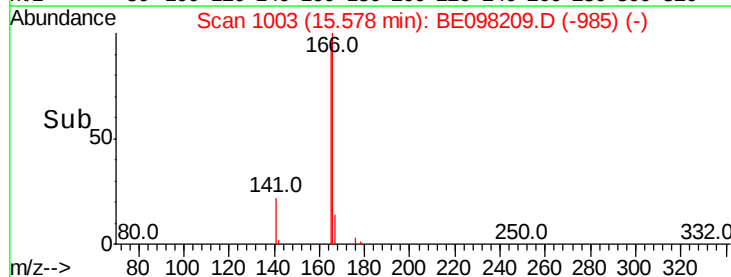
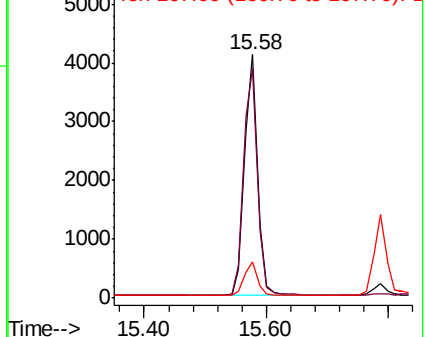
167 13.5 10.8 16.2

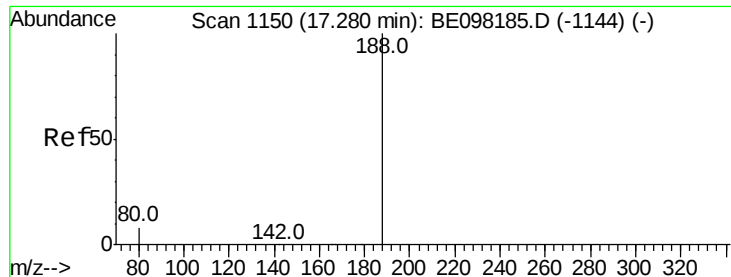


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE098209.D

Acq: 13 Nov 2018 11:11

Instrument :

BNA\_E

ClientSampleId :

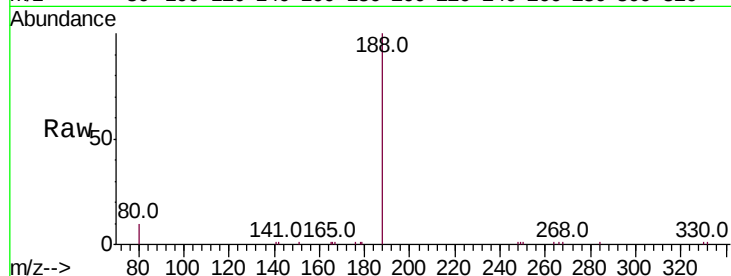
Tot Ion:188 Resp: 10387

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

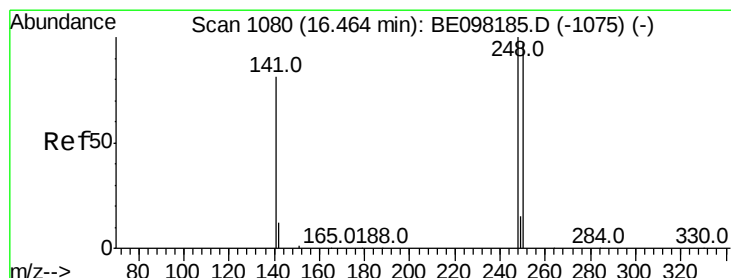
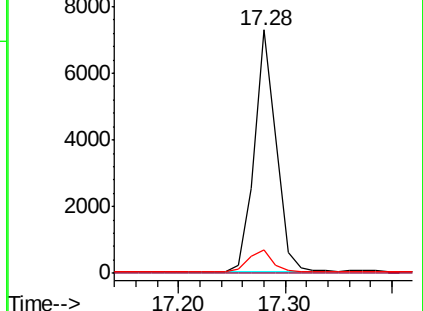
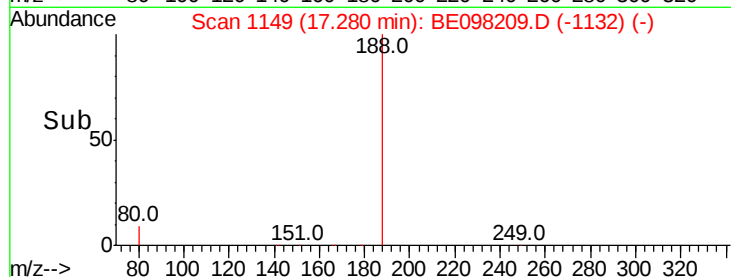
80 9.7 6.7 10.1



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: 0.390 ng

RT: 16.48 min Scan# 1080

Delta R.T. 0.01 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

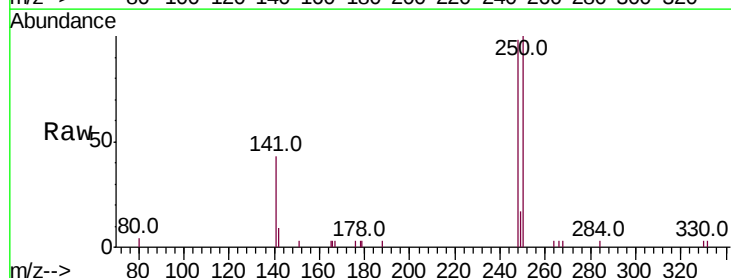
Tgt Ion:248 Resp: 2467

Ion Ratio Lower Upper

248 100

250 102.3 77.6 116.4

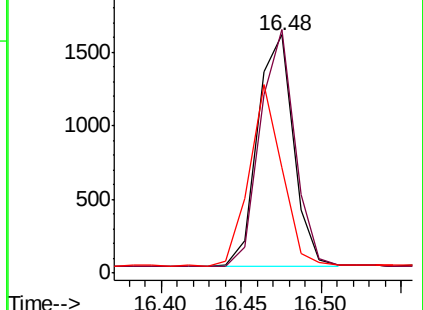
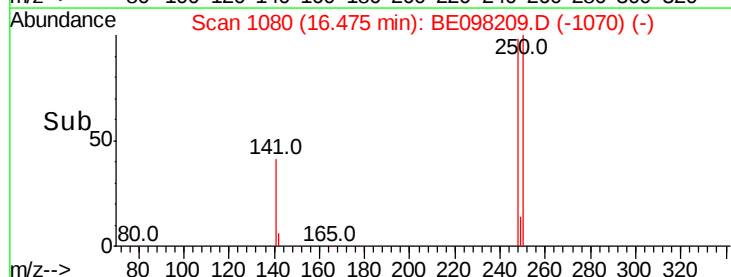
141 44.2 65.8 98.8#

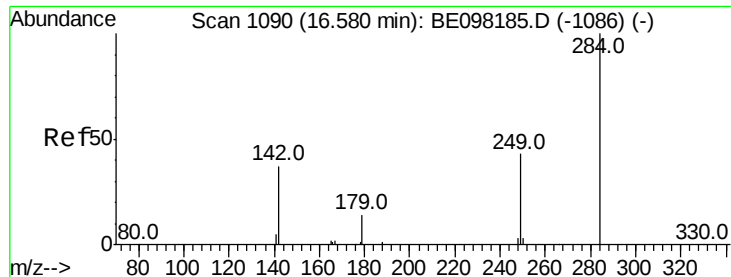


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.383 ng

RT: 16.59 min Scan# 1090

Delta R.T. 0.01 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

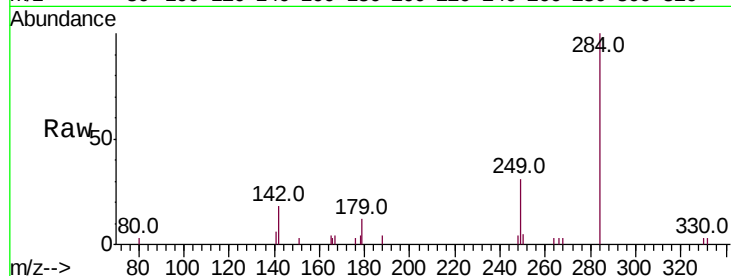
Instrument :

BNA\_E

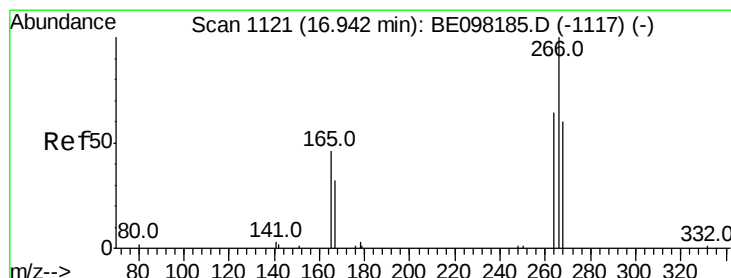
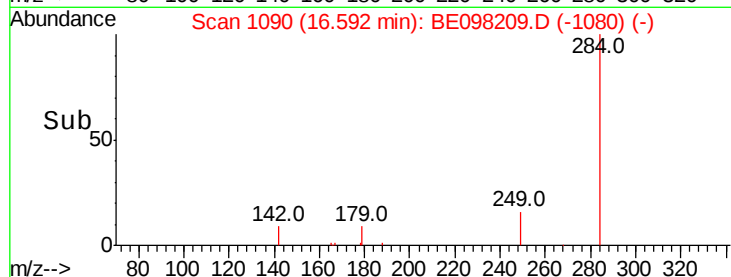
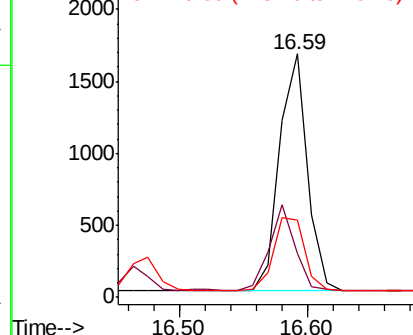
ClientSampleId :

Tot Ion:284 Resp: 2524

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 284 | 100   |       |       |
| 142 | 33.1  | 26.5  | 39.7  |
| 249 | 34.4  | 28.4  | 42.6  |



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: 0.411 ng

RT: 16.94 min Scan# 1120

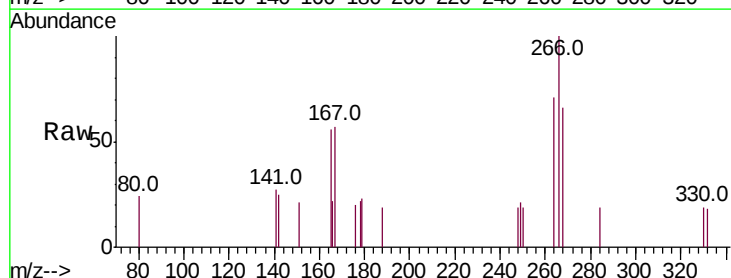
Delta R.T. 0.00 min

Lab File: BE098209.D

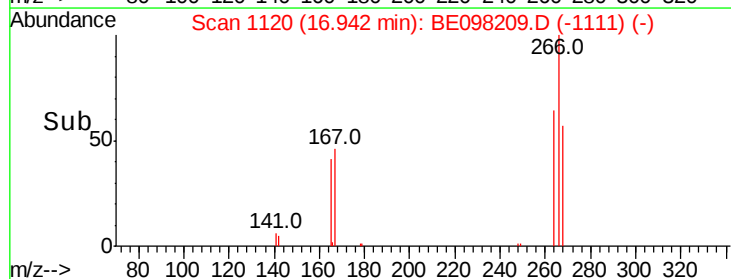
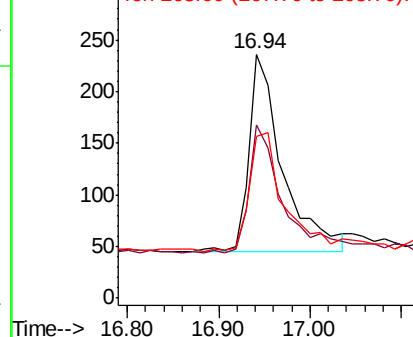
Acq: 13 Nov 2018 11:11

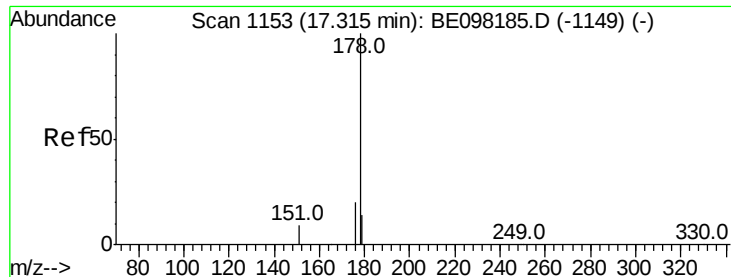
Tgt Ion:266 Resp: 486

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 266 | 100   |       |       |
| 264 | 71.2  | 57.6  | 86.4  |
| 268 | 66.1  | 56.8  | 85.2  |



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: 0.392 ng

RT: 17.33 min Scan# 1153

Delta R.T. 0.01 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

Instrument :

BNA\_E

ClientSampled :

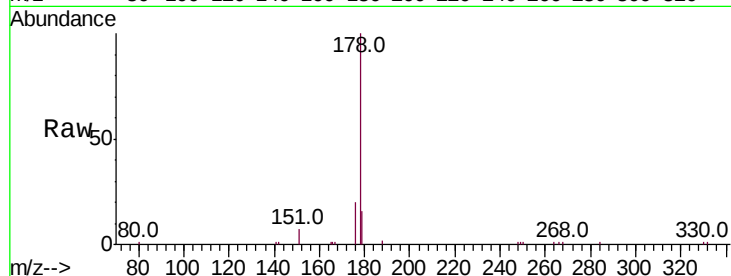
Tot Ion:178 Resp: 10150

Ion Ratio Lower Upper

178 100

176 19.9 15.8 23.8

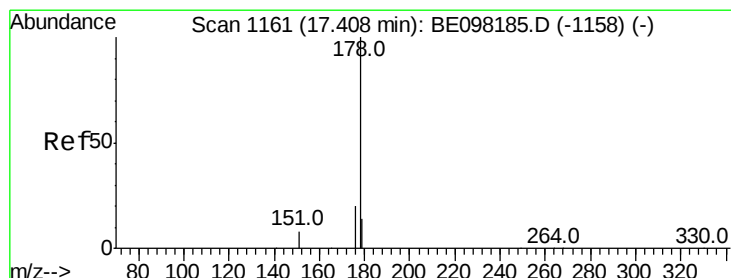
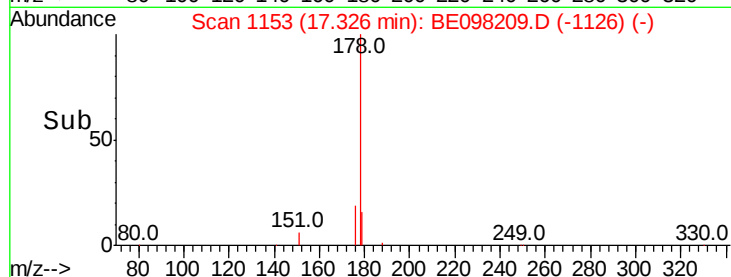
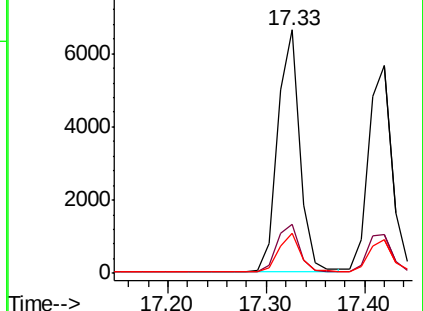
179 15.4 12.3 18.5



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: 0.385 ng

RT: 17.42 min Scan# 1161

Delta R.T. 0.01 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

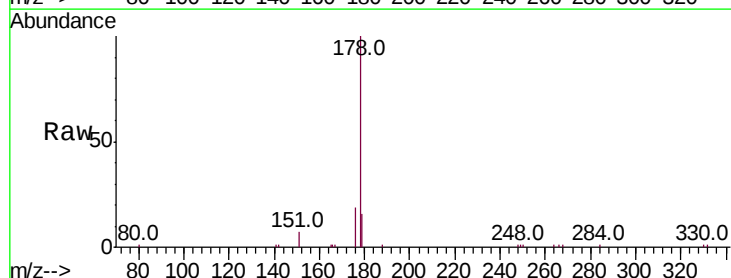
Tgt Ion:178 Resp: 9288

Ion Ratio Lower Upper

178 100

176 18.7 15.7 23.5

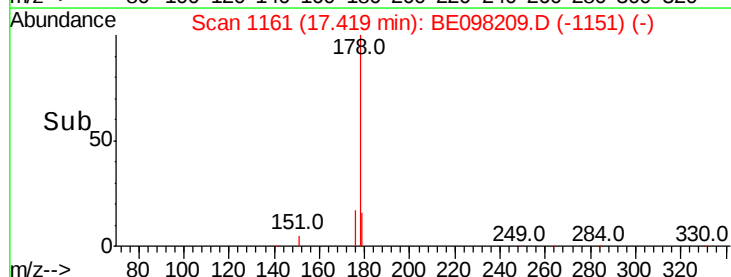
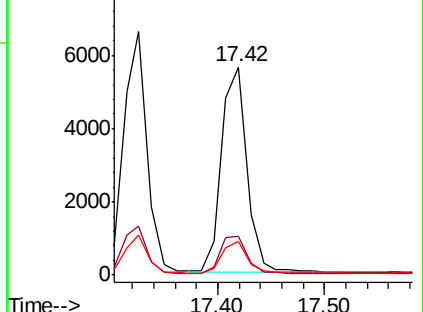
179 14.9 12.1 18.1

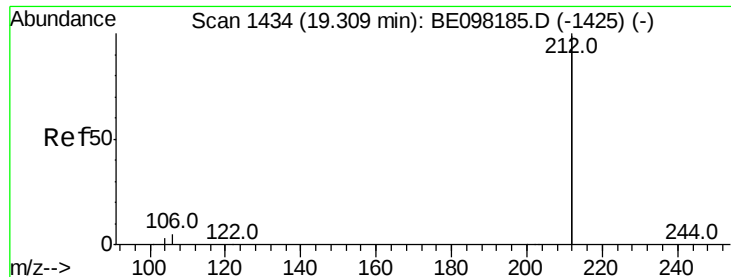


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.391 ng

RT: 19.31 min Scan# 1434

Delta R.T. 0.01 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

Instrument :

BNA\_E

ClientSampleId :

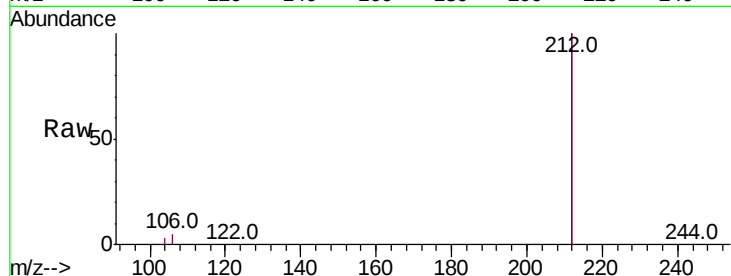
Tot Ion:212 Resp: 50666

Ion Ratio Lower Upper

212 100

106 2.5 1.8 2.8

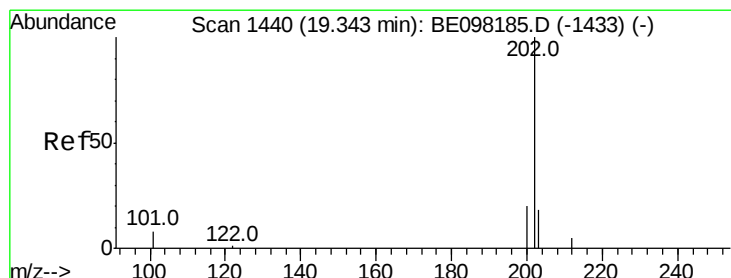
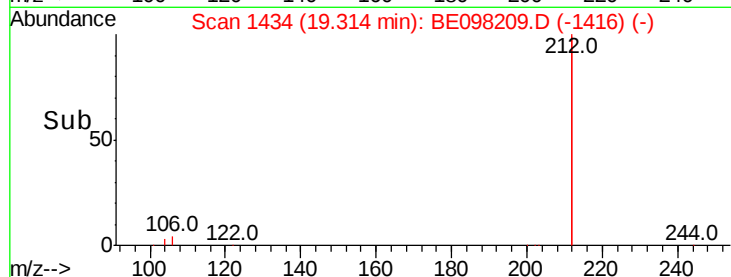
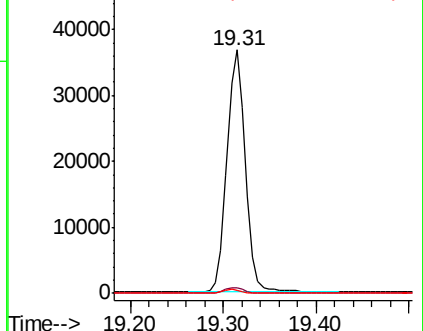
104 1.4 1.1 1.7



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: 0.392 ng

RT: 19.34 min Scan# 1439

Delta R.T. -0.00 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

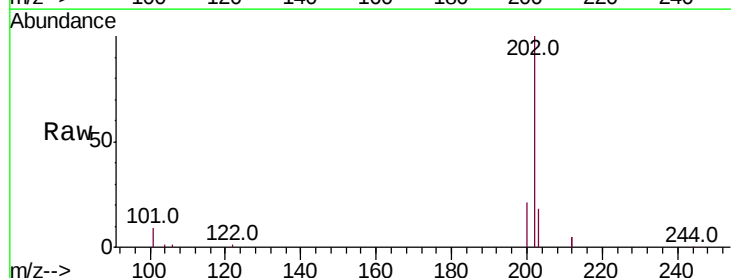
Tgt Ion:202 Resp: 12549

Ion Ratio Lower Upper

202 100

101 9.6 7.0 10.6

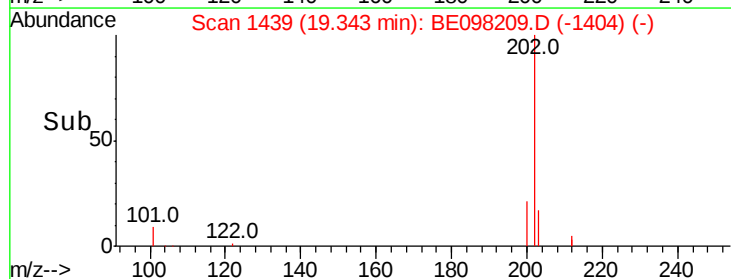
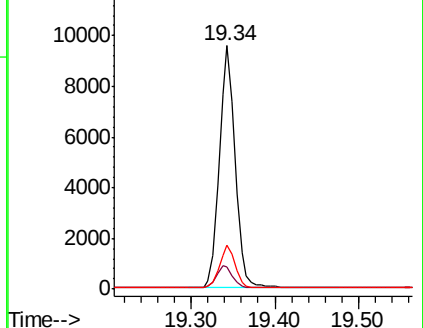
203 17.1 13.7 20.5

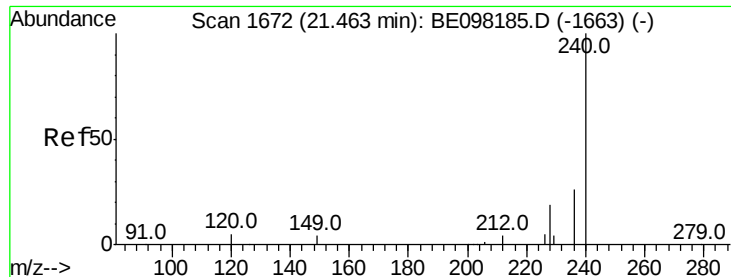


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

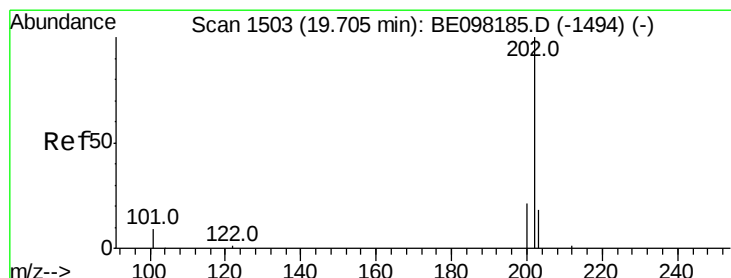
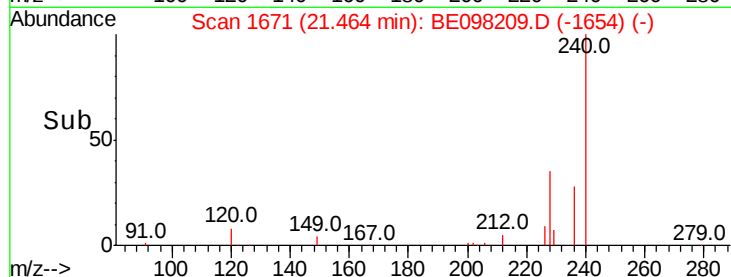
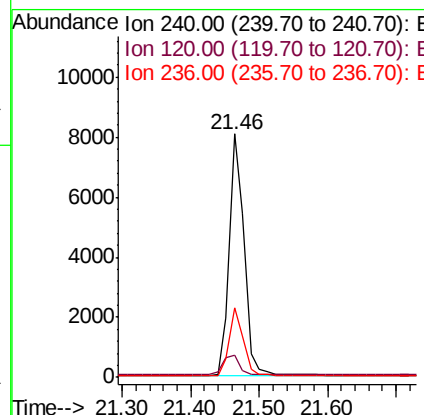
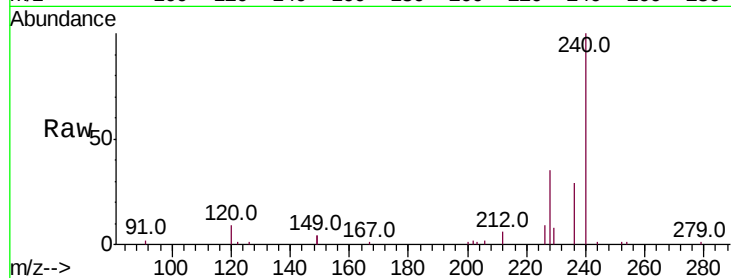




#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.46 min Scan# 1671  
 Delta R.T. 0.00 min  
 Lab File: BE098209.D  
 Acq: 13 Nov 2018 11:11

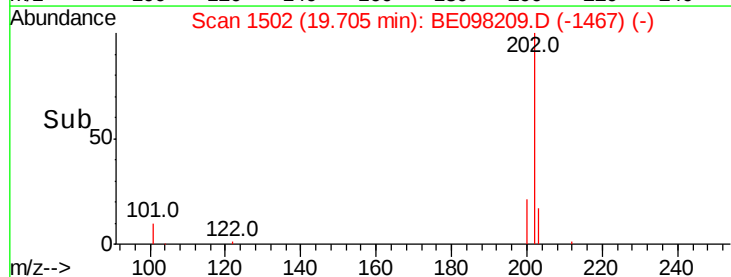
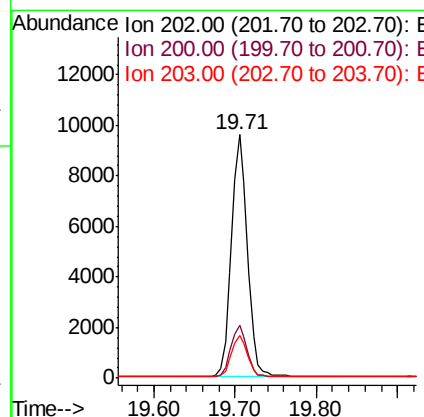
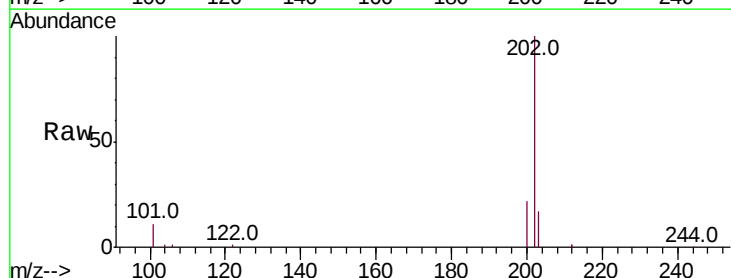
Instrument :  
 BNA\_E  
 ClientSampled :

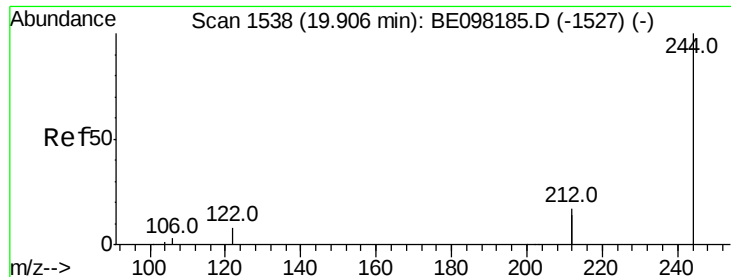
Tot Ion:240 Resp: 12256  
 Ion Ratio Lower Upper  
 240 100  
 120 9.3 4.8 7.2#  
 236 28.5 21.4 32.0



#28  
 Pyrene  
 Concen: 0.389 ng  
 RT: 19.71 min Scan# 1502  
 Delta R.T. -0.00 min  
 Lab File: BE098209.D  
 Acq: 13 Nov 2018 11:11

Tgt Ion:202 Resp: 13109  
 Ion Ratio Lower Upper  
 202 100  
 200 21.5 17.2 25.8  
 203 17.3 14.2 21.4





#29

Terphenyl-d14

Concen: 0.370 ng

RT: 19.91 min Scan# 1537

Delta R.T. -0.00 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

Instrument :

BNA\_E

ClientSampleId :

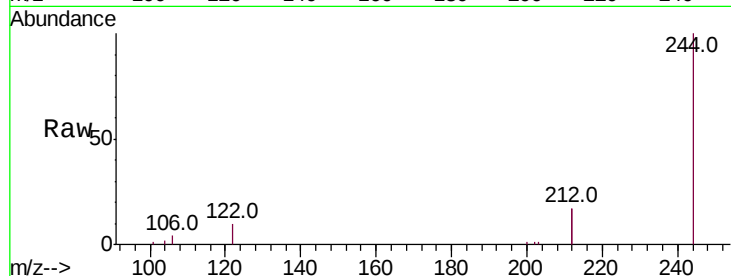
Tot Ion:244 Resp: 10301

Ion Ratio Lower Upper

244 100

212 34.5 26.8 40.2

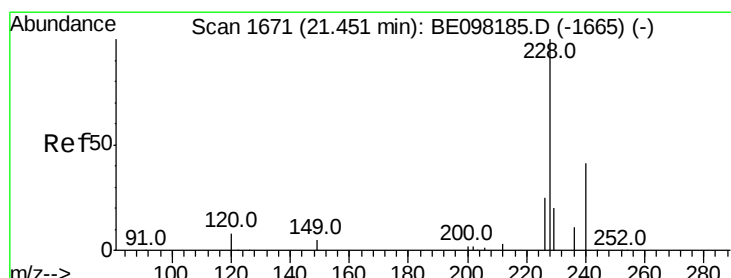
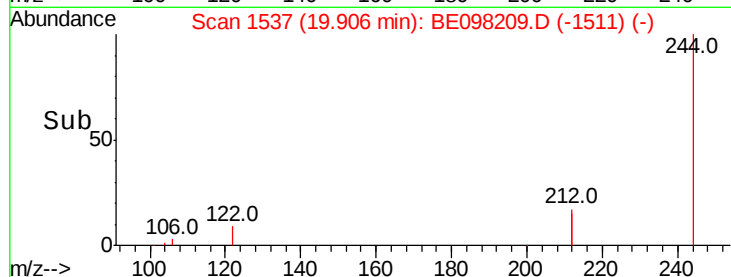
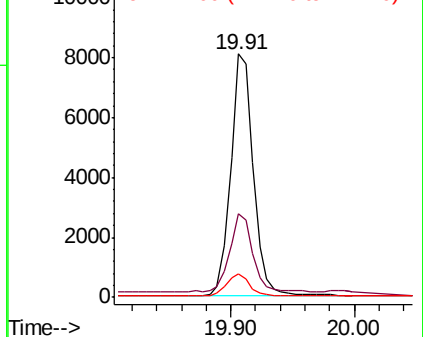
122 9.8 7.0 10.6



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: 0.378 ng

RT: 21.45 min Scan# 1670

Delta R.T. 0.00 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

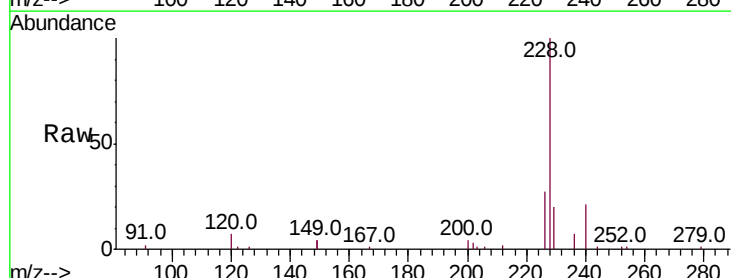
Tgt Ion:228 Resp: 13156

Ion Ratio Lower Upper

228 100

226 27.2 20.7 31.1

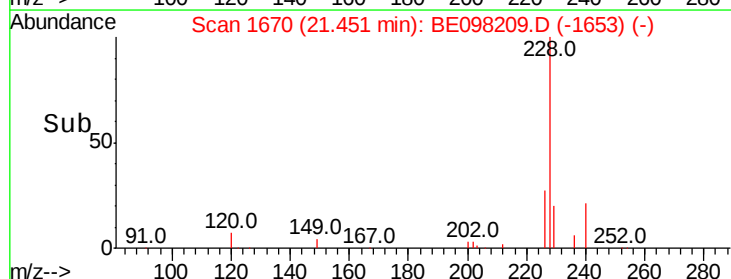
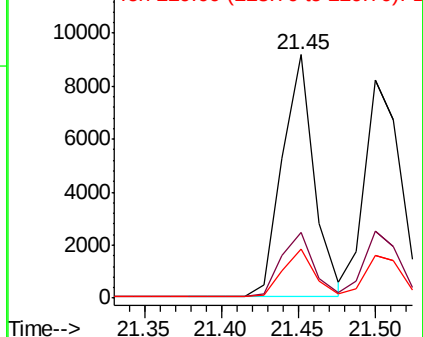
229 20.4 16.2 24.4

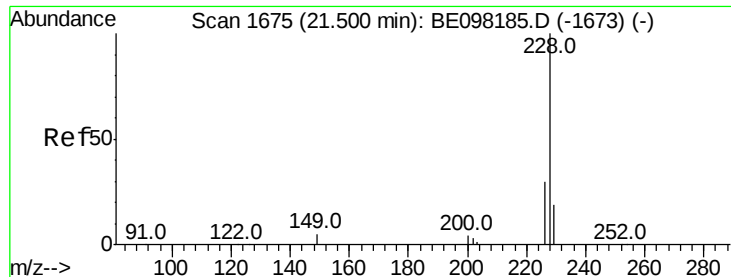


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.374 ng

RT: 21.50 min Scan# 1674

Delta R.T. 0.00 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

Instrument :

BNA\_E

ClientSampleId :

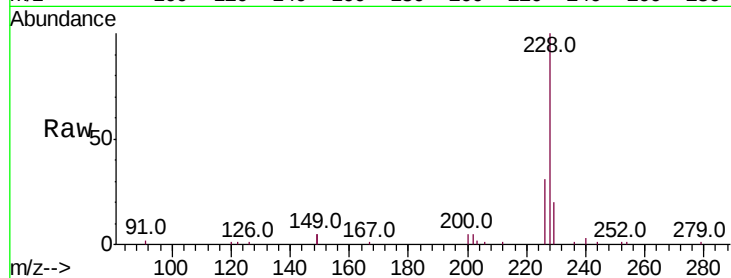
Tot Ion:228 Resp: 13235

Ion Ratio Lower Upper

228 100

226 30.9 24.6 36.8

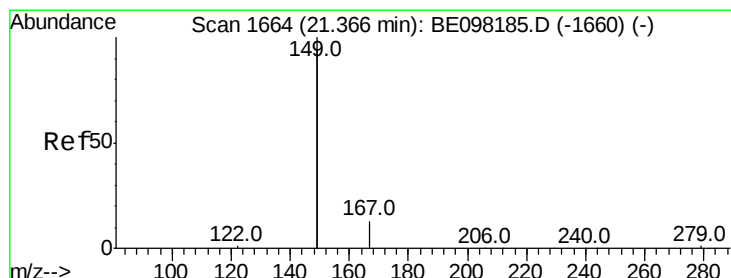
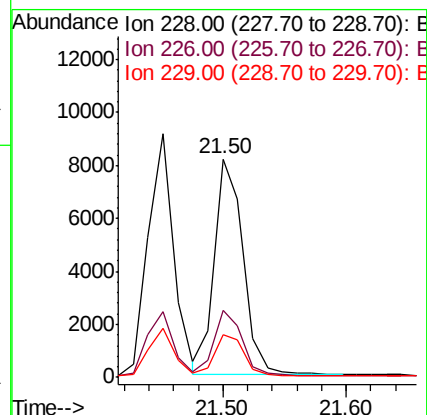
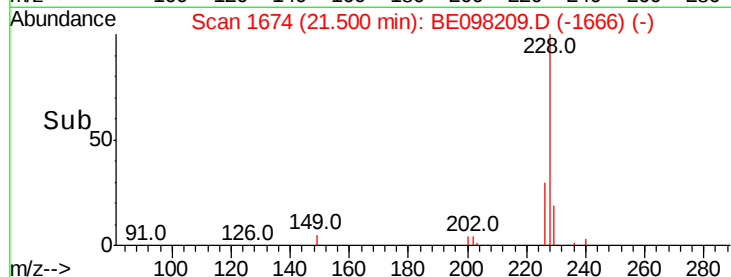
229 19.7 16.0 24.0



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: 0.396 ng

RT: 21.37 min Scan# 1663

Delta R.T. 0.00 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

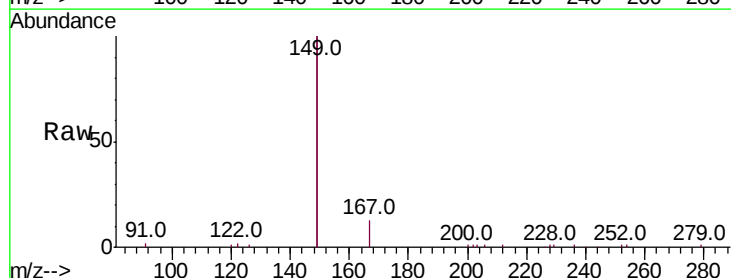
Tgt Ion:149 Resp: 28651

Ion Ratio Lower Upper

149 100

167 6.8 5.6 8.4

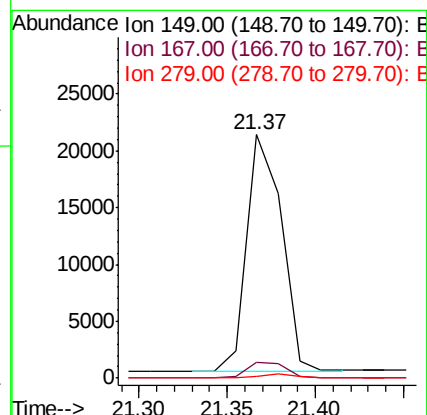
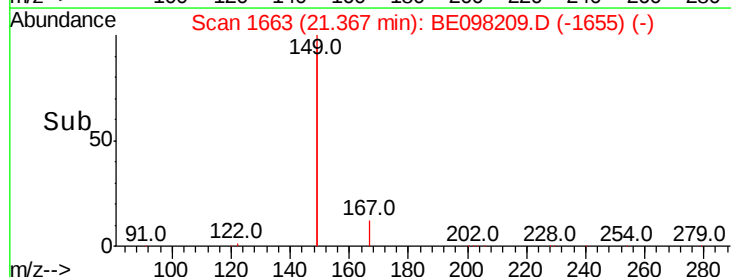
279 1.1 0.9 1.3

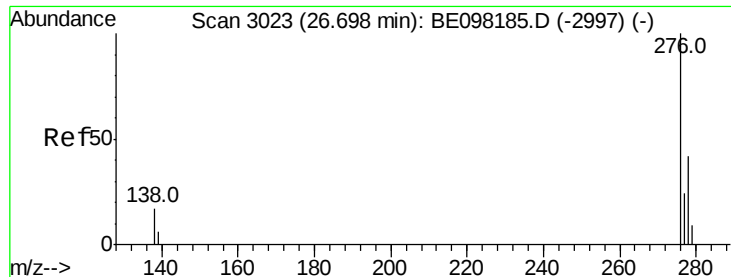


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.383 ng

RT: 26.72 min Scan# 3027

Delta R.T. 0.02 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

Instrument :

BNA\_E

ClientSampleId :

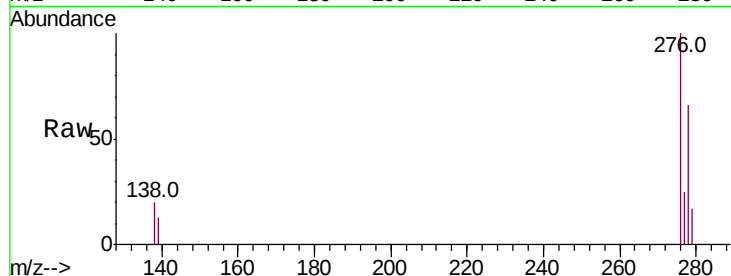
Tot Ion:276 Resp: 12413

Ion Ratio Lower Upper

276 100

138 22.0 6.4 9.6#

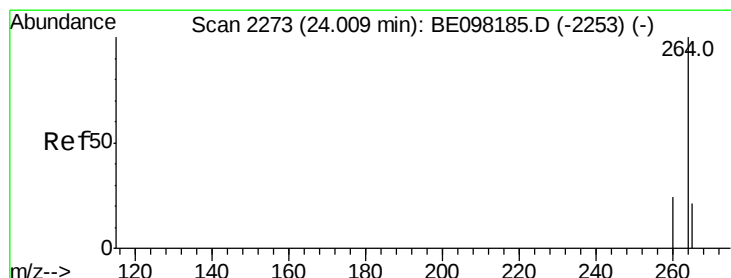
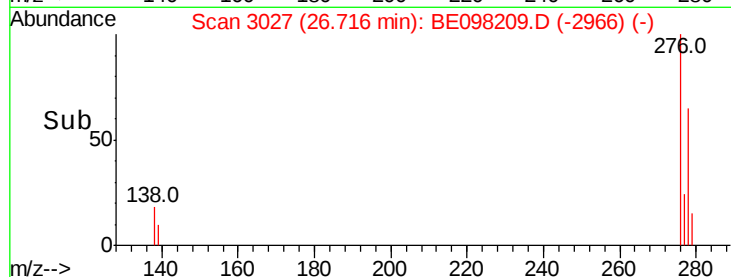
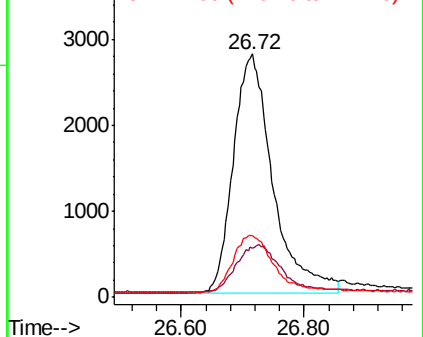
277 25.0 18.9 28.3



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 24.02 min Scan# 2274

Delta R.T. 0.01 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

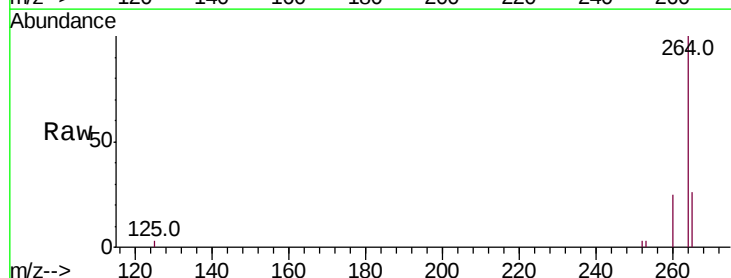
Tgt Ion:264 Resp: 11598

Ion Ratio Lower Upper

264 100

260 25.4 19.9 29.9

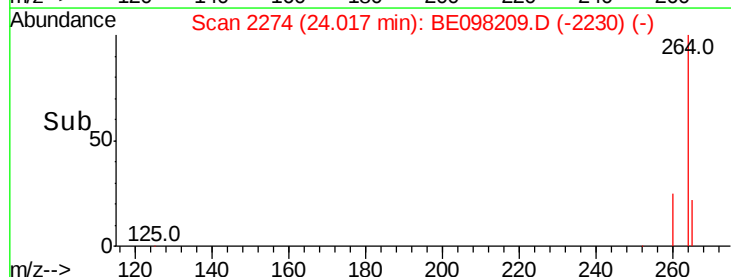
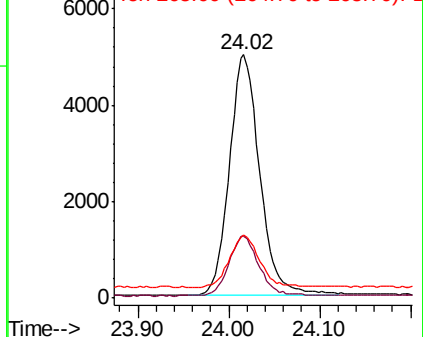
265 25.7 21.3 31.9

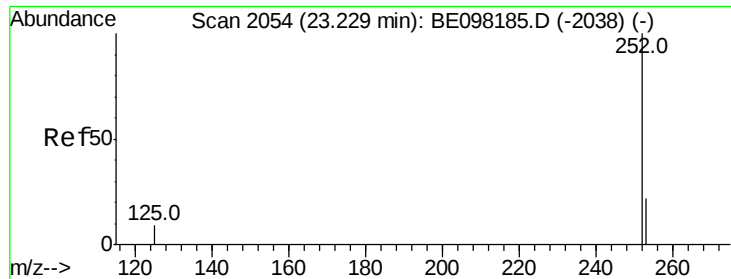


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.372 ng

RT: 23.23 min Scan# 2054

Delta R.T. 0.00 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

Instrument :

BNA\_E

ClientSampleId :

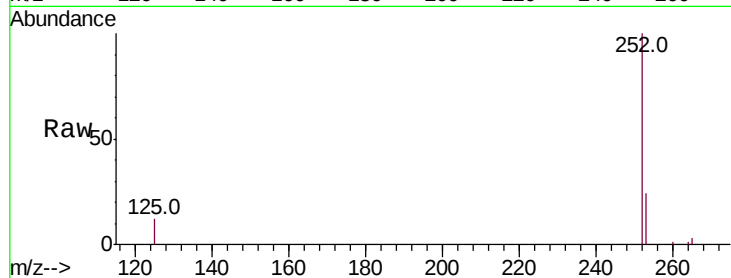
Tot Ion:252 Resp: 12250

Ion Ratio Lower Upper

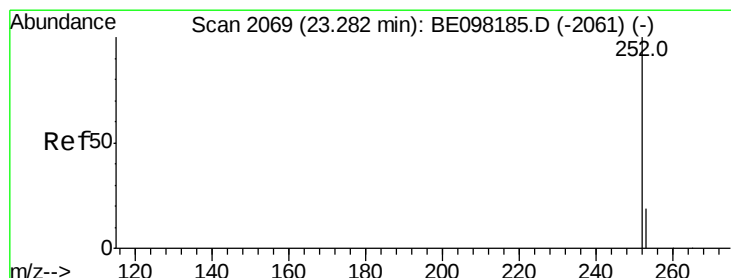
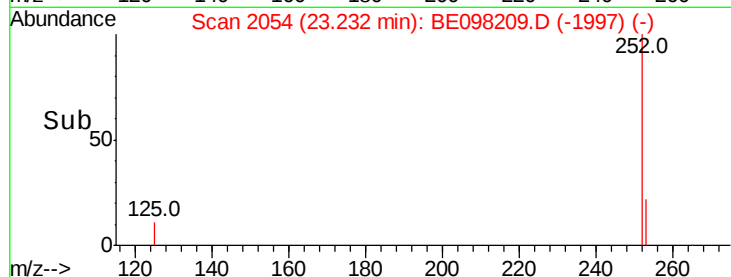
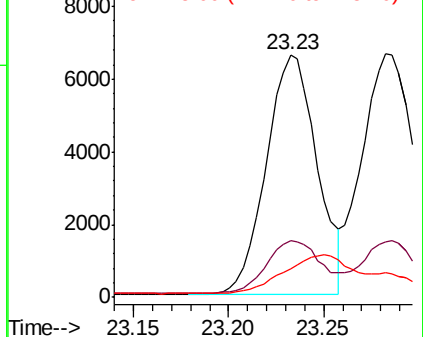
252 100

253 23.5 19.4 29.0

125 12.0 8.6 12.8



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



#36

Benzo(k)fluoranthene

Concen: 0.391 ng

RT: 23.28 min Scan# 2068

Delta R.T. 0.00 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

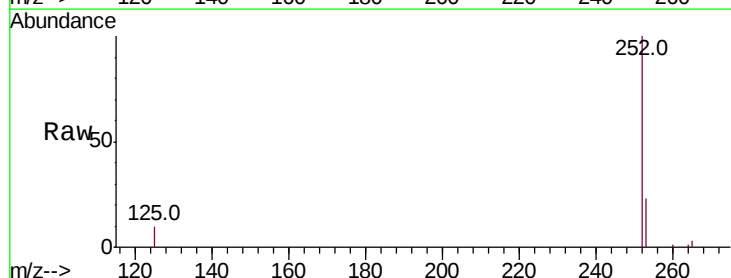
Tgt Ion:252 Resp: 13577

Ion Ratio Lower Upper

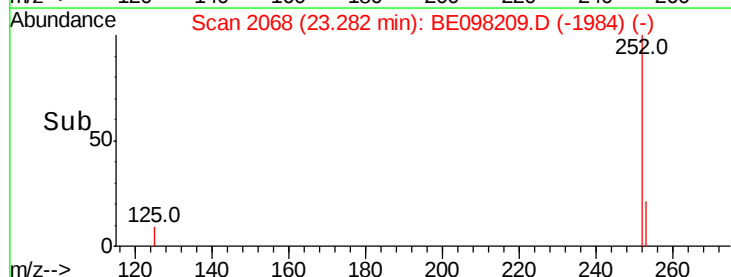
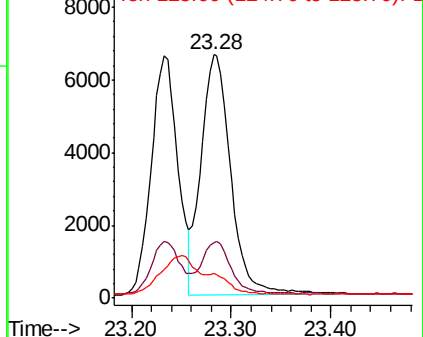
252 100

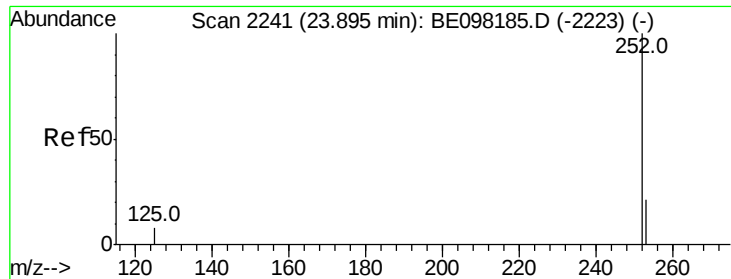
253 22.7 18.6 28.0

125 10.3 7.4 11.0



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

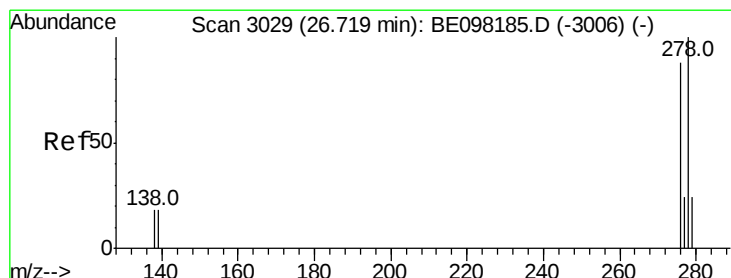
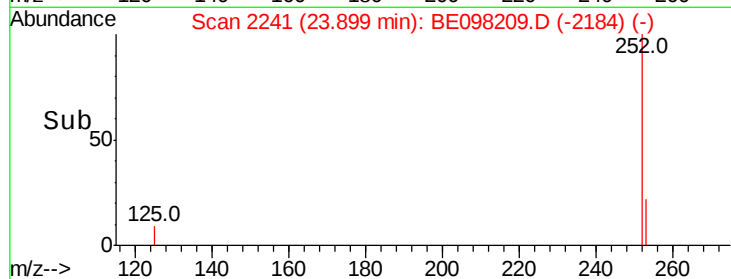
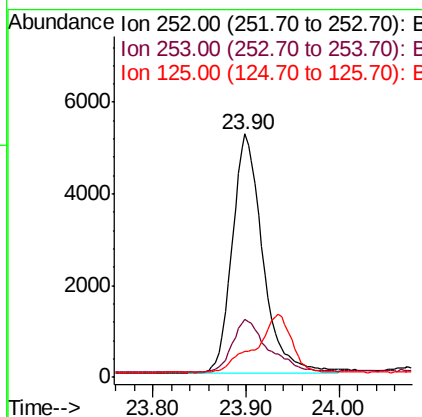
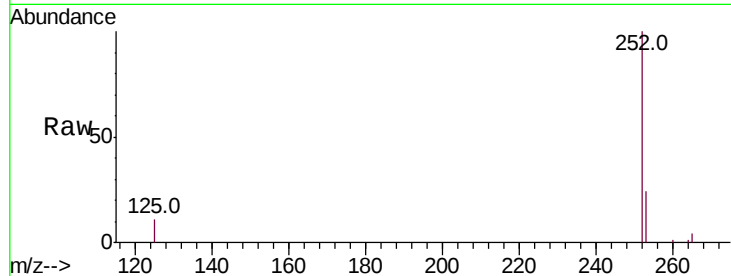




#37  
Benzo(a)pyrene  
Concen: 0.381 ng  
RT: 23.90 min Scan# 2241  
Delta R.T. 0.00 min  
Lab File: BE098209.D  
Acq: 13 Nov 2018 11:11

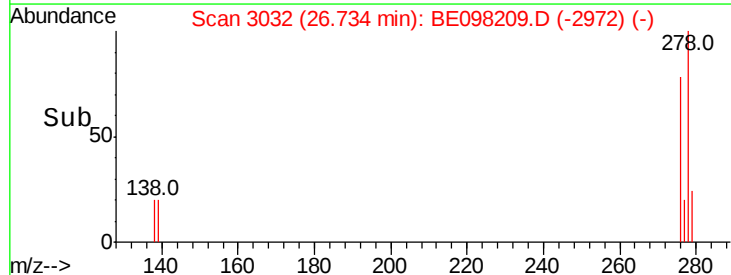
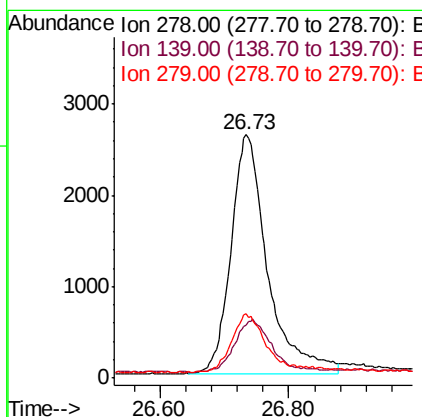
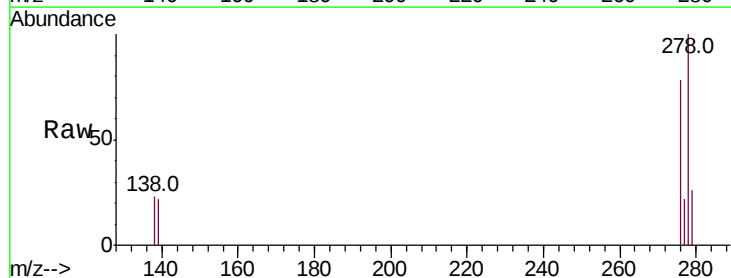
Instrument :  
BNA\_E  
ClientSampleId :

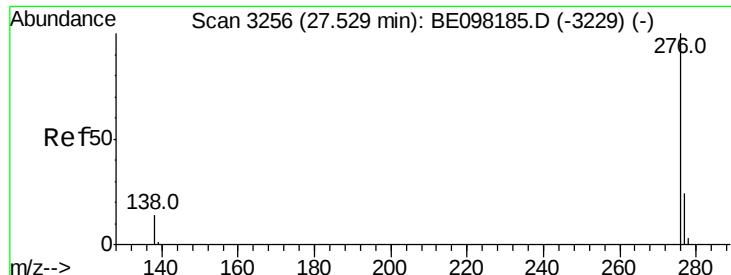
Tot Ion:252 Resp: 12040  
Ion Ratio Lower Upper  
252 100  
253 23.9 18.6 27.8  
125 10.8 8.0 12.0



#38  
Dibenzo(a,h)anthracene  
Concen: 0.384 ng  
RT: 26.73 min Scan# 3032  
Delta R.T. 0.01 min  
Lab File: BE098209.D  
Acq: 13 Nov 2018 11:11

Tgt Ion:278 Resp: 10328  
Ion Ratio Lower Upper  
278 100  
139 22.0 16.4 24.6  
279 26.4 21.3 31.9





#39

Benzo(a,h,i)perylene

Concen: 0.380 ng

RT: 27.54 min Scan# 3258

Delta R.T. 0.01 min

Lab File: BE098209.D

Acq: 13 Nov 2018 11:11

Instrument :

BNA\_E

ClientSampleId :

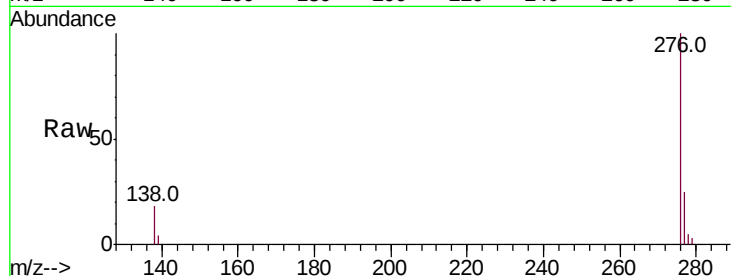
Tot Ion:276 Resp: 10668

Ion Ratio Lower Upper

276 100

277 25.1 20.4 30.6

138 18.3 13.2 19.8



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

