

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE111918\  
 Data File : BE098245.D  
 Acq On : 19 Nov 2018 9:51  
 Operator : SJ/JU  
 Sample : PB114879BS  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Nov 19 10:25:36 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE111618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 16 19:05:33 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.86  | 152  | 1249     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.67 | 136  | 4690     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.53 | 164  | 2528     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.28 | 188  | 6884     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.46 | 240  | 8975     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 24.02 | 264  | 8426     | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.45  | 112 | 1017  | 0.30 | ng | 0.00 |
| 5) Phenol-d6                | 7.04  | 99  | 1328  | 0.25 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 9.03  | 82  | 1446  | 0.33 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.27 | 152 | 2321  | 0.28 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 16.03 | 330 | 249   | 0.31 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.15 | 172 | 3222  | 0.29 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.31 | 212 | 31090 | 0.37 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.91 | 244 | 5738  | 0.28 | ng | 0.00 |

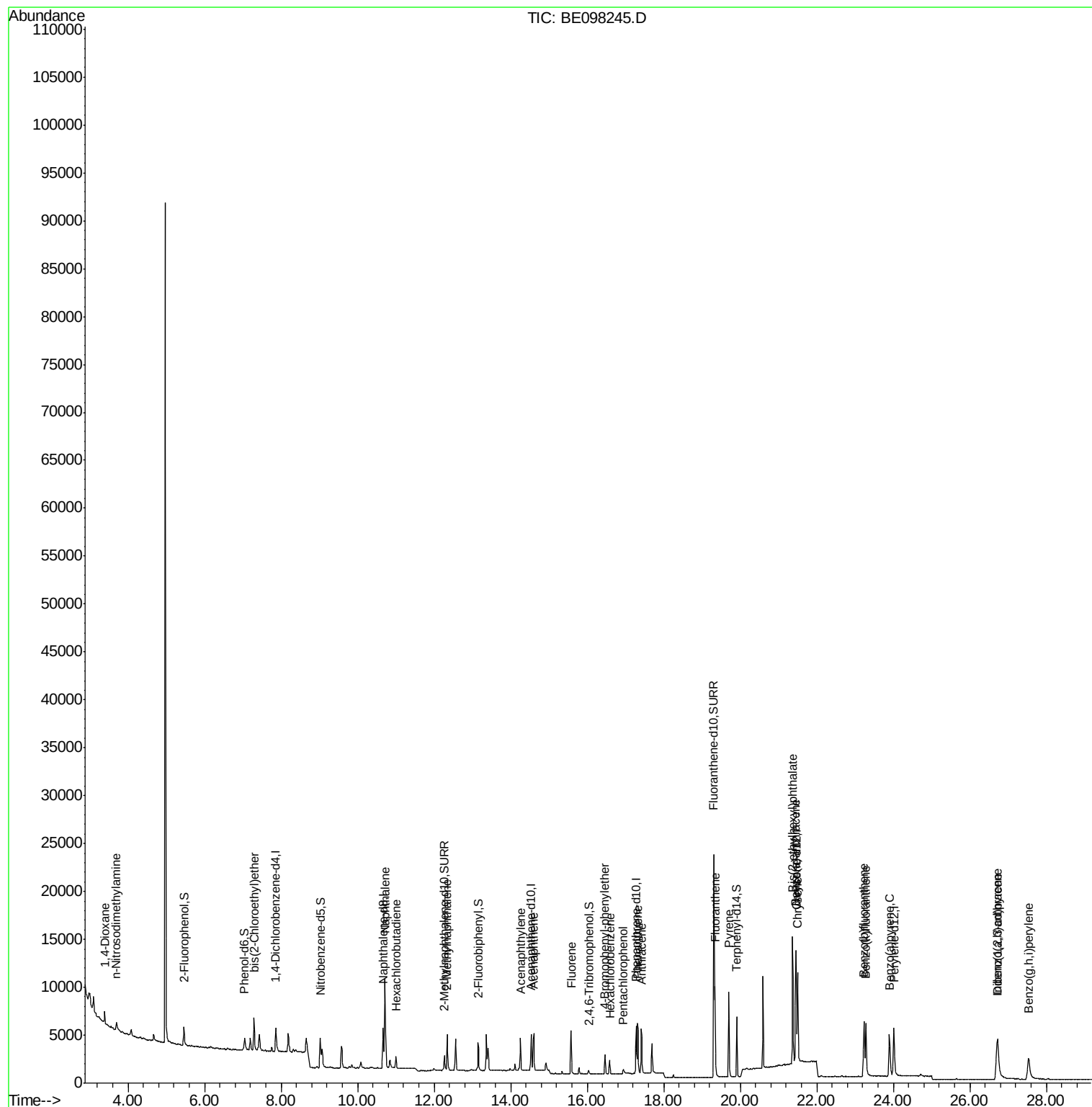
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.38  | 88  | 509   | 0.260  | ng | # 49 |
| 3) n-Nitrosodimethylamine      | 3.69  | 42  | 784   | 0.356  | ng | # 85 |
| 6) bis(2-Chloroethyl)ether     | 7.29  | 93  | 1298  | 0.288  | ng | 95   |
| 9) Naphthalene                 | 10.72 | 128 | 15917 | 0.333  | ng | 100  |
| 10) Hexachlorobutadiene        | 11.00 | 225 | 900   | 0.321  | ng | 99   |
| 12) 2-Methylnaphthalene        | 12.34 | 142 | 2637  | 0.313  | ng | 97   |
| 16) Acenaphthylene             | 14.25 | 152 | 4024  | 0.334  | ng | 98   |
| 17) Acenaphthene               | 14.60 | 154 | 2303  | 0.320  | ng | 99   |
| 18) Fluorene                   | 15.58 | 166 | 3182  | 0.347  | ng | 100  |
| 20) 4-Bromophenyl-phenylether  | 16.46 | 248 | 1194  | 0.280  | ng | 93   |
| 21) Hexachlorobenzene          | 16.59 | 284 | 1187  | 0.270  | ng | 97   |
| 22) Pentachlorophenol          | 16.94 | 266 | 391   | 0.556  | ng | 98   |
| 23) Phenanthrene               | 17.31 | 178 | 6042  | 0.341  | ng | 100  |
| 24) Anthracene                 | 17.41 | 178 | 5519  | 0.343  | ng | 99   |
| 26) Fluoranthene               | 19.34 | 202 | 8311  | 0.391  | ng | 99   |
| 28) Pyrene                     | 19.70 | 202 | 8451  | 0.322  | ng | 100  |
| 30) Benzo(a)anthracene         | 21.45 | 228 | 8957  | 0.345  | ng | 97   |
| 31) Chrysene                   | 21.50 | 228 | 9126  | 0.342  | ng | 100  |
| 32) Bis(2-ethylhexyl)phthalate | 21.37 | 149 | 15261 | 0.377  | ng | 100  |
| 33) Indeno(1,2,3-cd)pyrene     | 26.71 | 276 | 8173  | 0.357  | ng | # 90 |
| 35) Benzo(b)fluoranthene       | 23.23 | 252 | 8498  | 0.357  | ng | 99   |
| 36) Benzo(k)fluoranthene       | 23.28 | 252 | 8929  | 0.332  | ng | 98   |
| 37) Benzo(a)pyrene             | 23.90 | 252 | 8269  | 0.354  | ng | # 96 |
| 38) Dibenzo(a,h)anthracene     | 26.73 | 278 | 6303  | 0.337  | ng | 95   |
| 39) Benzo(g,h,i)perylene       | 27.54 | 276 | 7079  | 0.351  | ng | # 94 |

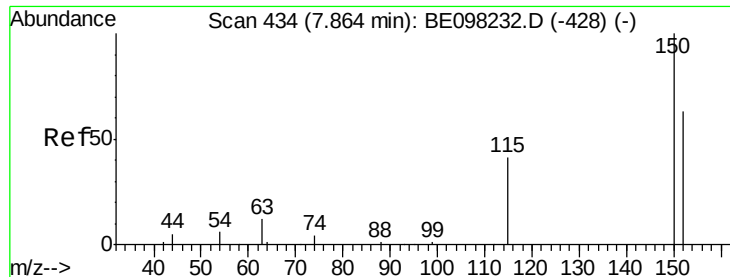
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
BNA\_E  
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Quant Time: Nov 19 10:25:36 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE111618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 16 19:05:33 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.86 min Scan# 434

Delta R.T. -0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

Instrument :  
BNA\_E  
ClientSampled :

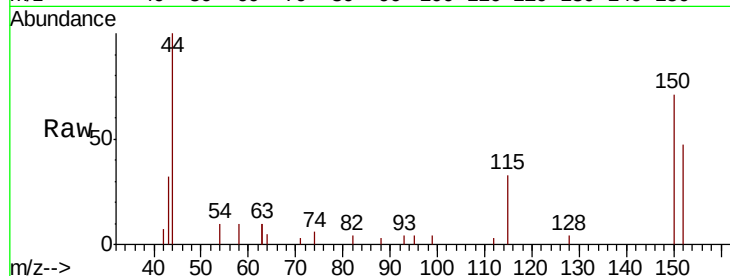
Tot Ion:152 Resp: 1249

Ion Ratio Lower Upper

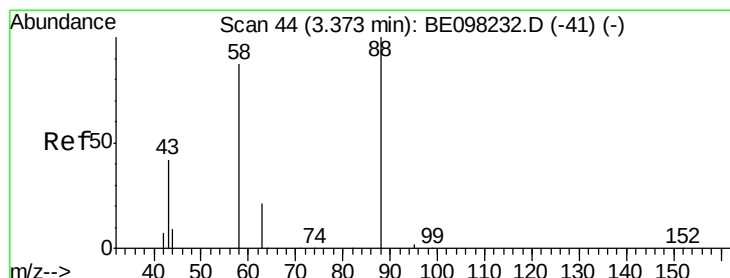
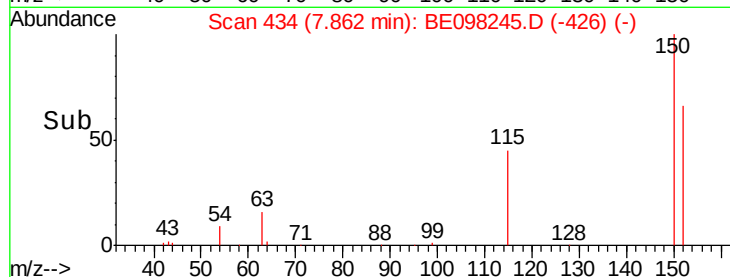
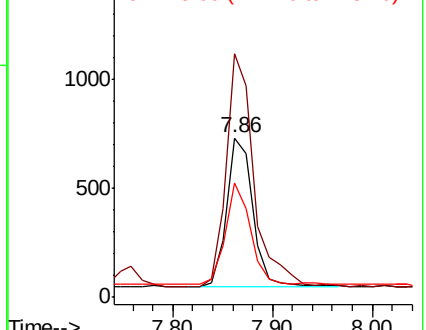
152 100

150 152.9 127.5 191.3

115 71.6 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: 0.260 ng

RT: 3.38 min Scan# 45

Delta R.T. 0.01 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

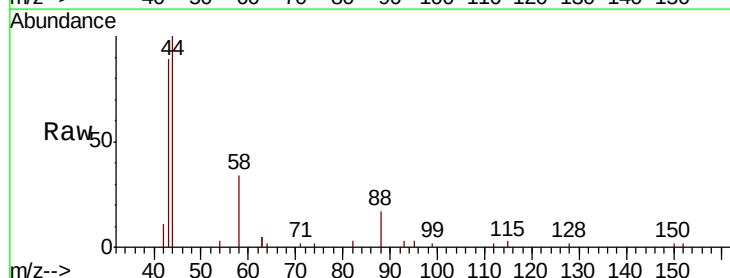
Tgt Ion: 88 Resp: 509

Ion Ratio Lower Upper

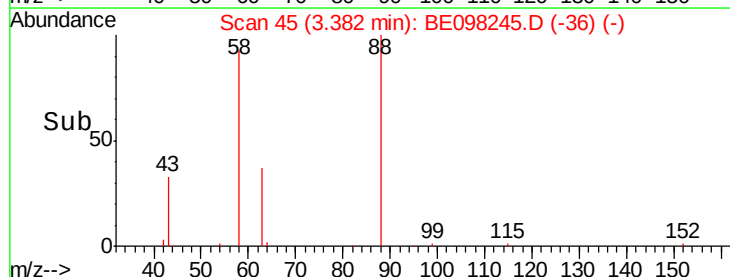
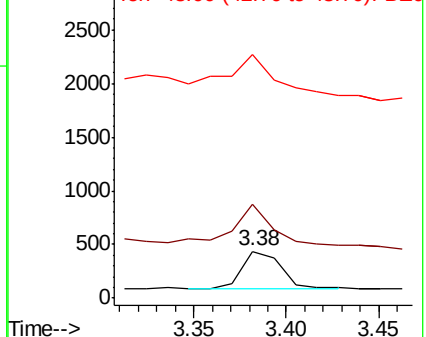
88 100

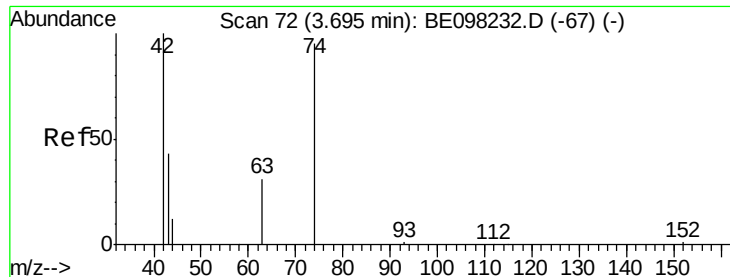
58 113.0 79.0 118.4

43 132.8 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



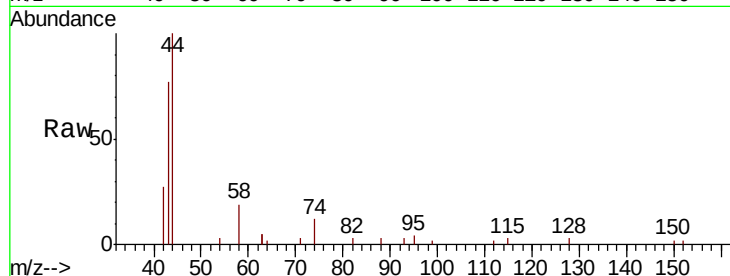


#3

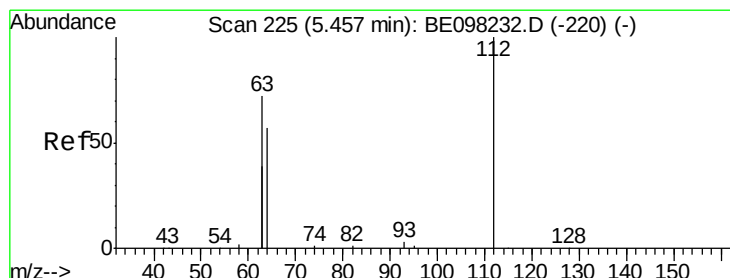
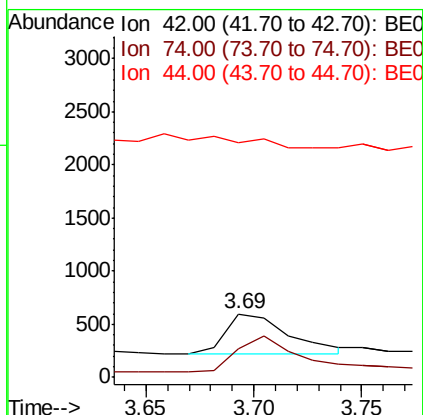
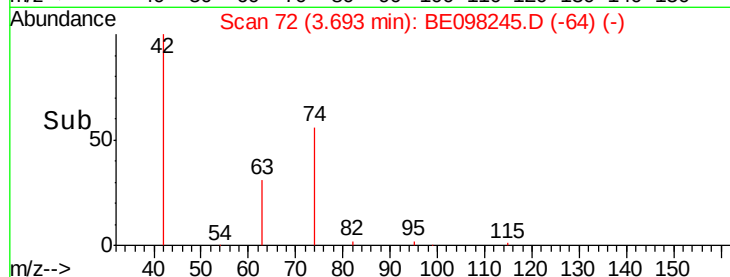
n-Nitrosodimethylamine  
 Concen: 0.356 ng  
 RT: 3.69 min Scan# 72  
 Delta R.T. -0.00 min  
 Lab File: BE098245.D  
 Acq: 19 Nov 2018 9:51

Instrument :  
 BNA\_E  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 74      | 85.6  | 61.7  | 92.5  |
| 44      | 0.0   | 14.0  | 21.0# |



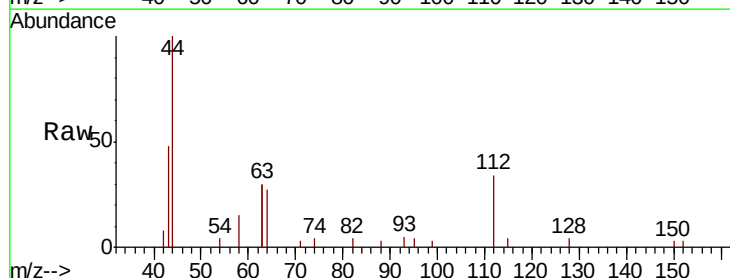
Abundance Ion 42.00 (41.70 to 42.70): BE0  
 Ion 74.00 (73.70 to 74.70): BE0  
 Ion 44.00 (43.70 to 44.70): BE0



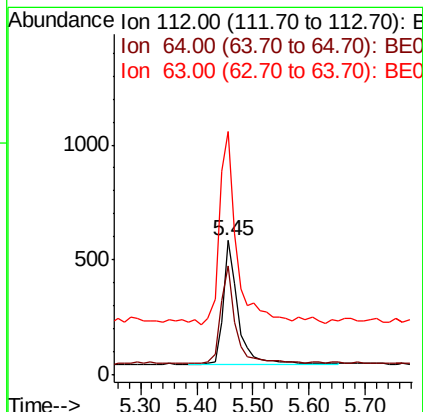
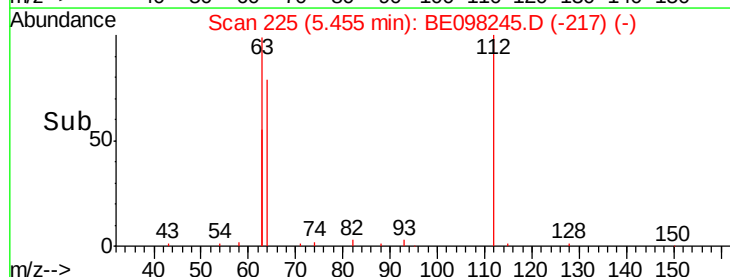
#4

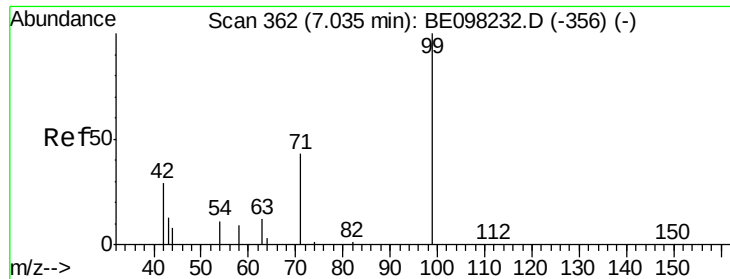
2-Fluorophenol  
 Concen: 0.304 ng  
 RT: 5.45 min Scan# 225  
 Delta R.T. -0.00 min  
 Lab File: BE098245.D  
 Acq: 19 Nov 2018 9:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 77.2  | 61.7  | 92.5  |
| 63      | 179.3 | 136.2 | 204.2 |



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: 0.252 ng

RT: 7.04 min Scan# 363

Delta R.T. 0.01 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

Instrument :

BNA\_E

ClientSampleId :

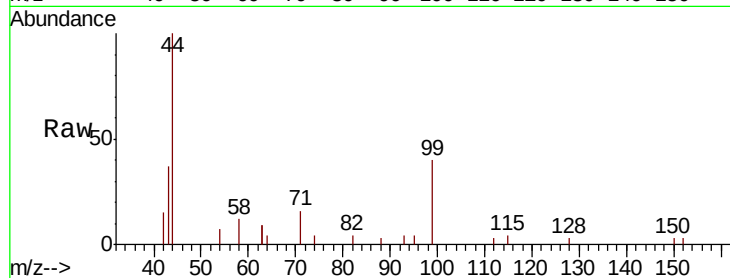
Tot Ion: 99 Resp: 1328

Ion Ratio Lower Upper

99 100

42 29.5 27.1 40.7

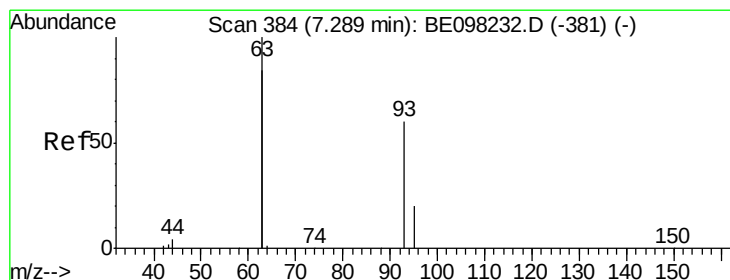
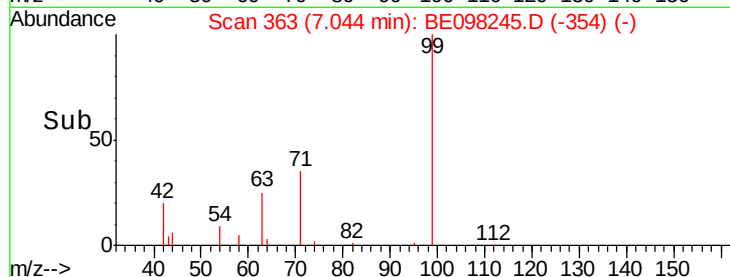
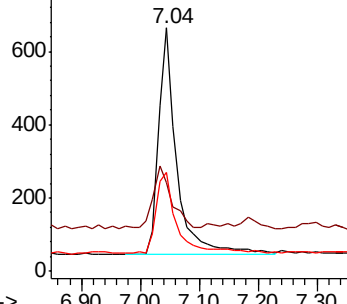
71 40.7 37.0 55.6



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: 0.288 ng

RT: 7.29 min Scan# 384

Delta R.T. -0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

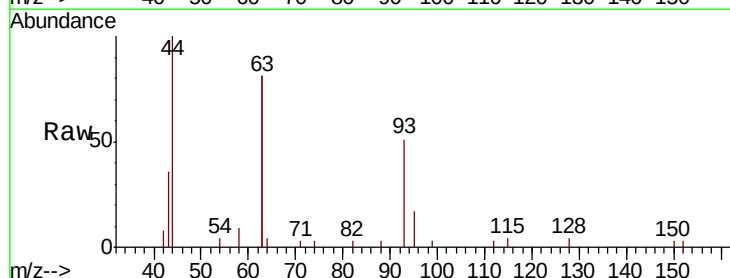
Tgt Ion: 93 Resp: 1298

Ion Ratio Lower Upper

93 100

63 329.1 272.6 409.0

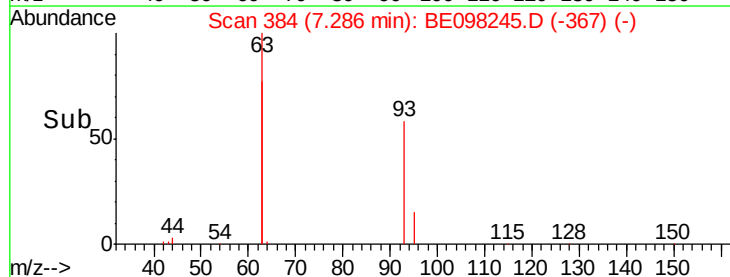
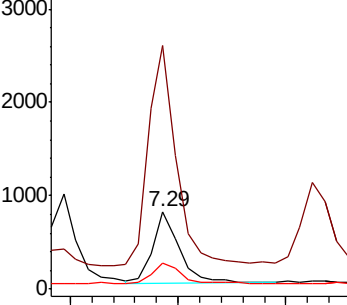
95 34.2 27.1 40.7

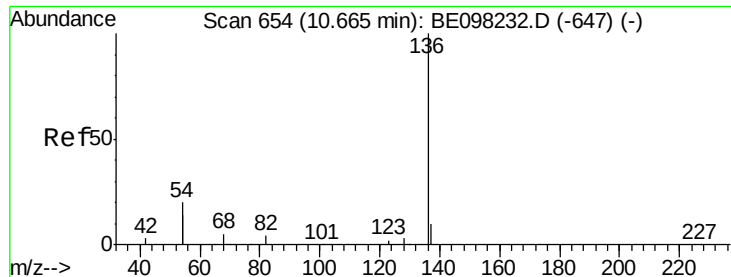


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: BE098245.D

Acq: 19 Nov 2018 9:51

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 4690

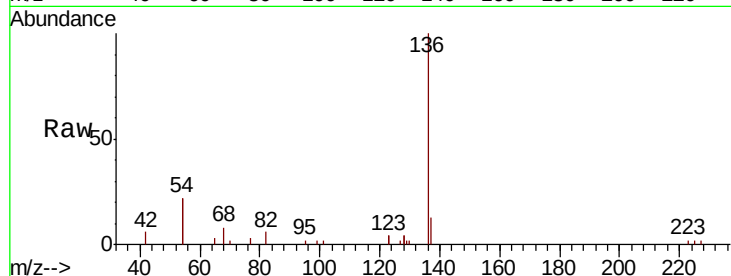
Ion Ratio Lower Upper

136 100

137 12.6 9.5 14.3

54 44.4 31.3 46.9

68 7.9 4.8 7.2#

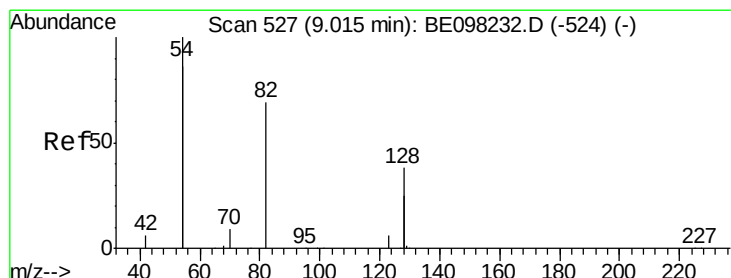
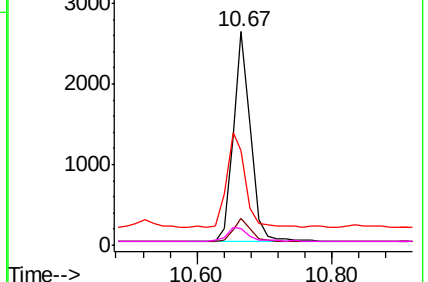
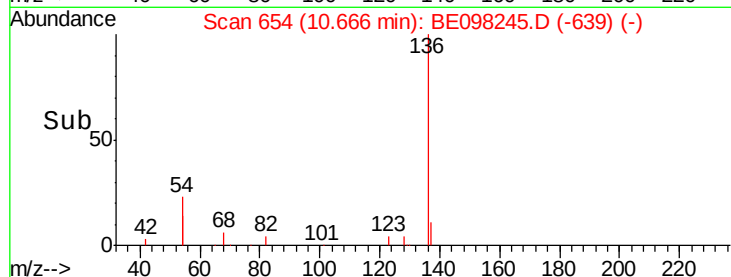


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.327 ng

RT: 9.03 min Scan# 528

Delta R.T. 0.01 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

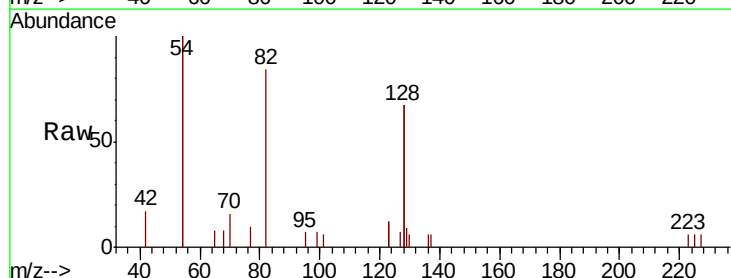
Tgt Ion: 82 Resp: 1446

Ion Ratio Lower Upper

82 100

128 158.9 96.1 144.1#

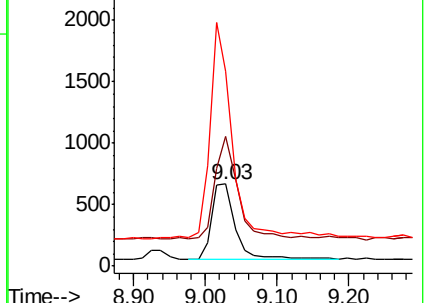
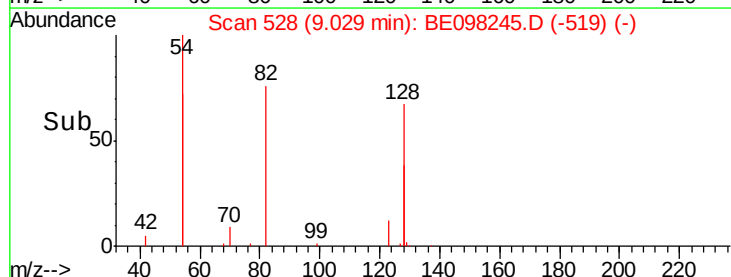
54 238.7 232.0 348.0

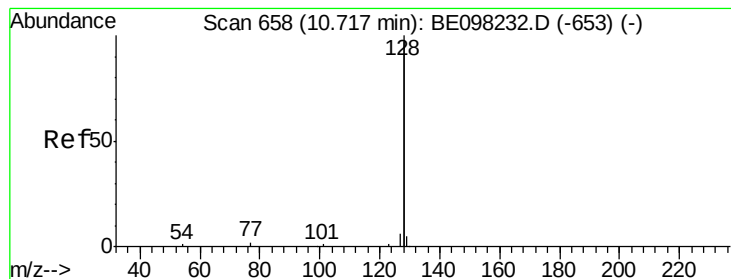


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.333 ng

RT: 10.72 min Scan# 658

Delta R.T. 0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

Instrument :

BNA\_E

ClientSampleId :

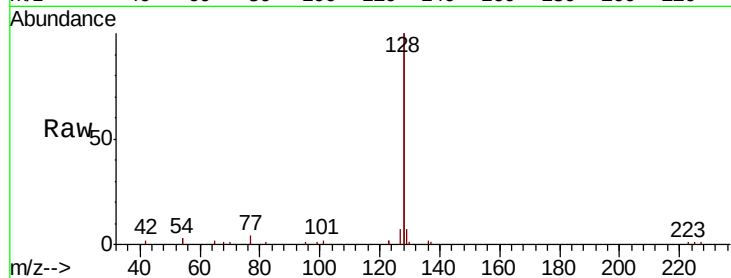
Tot Ion:128 Resp: 15917

Ion Ratio Lower Upper

128 100

129 3.3 2.6 4.0

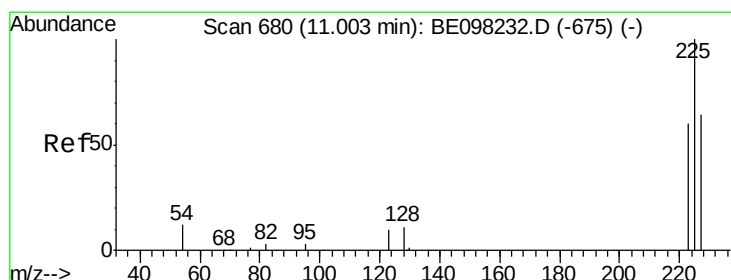
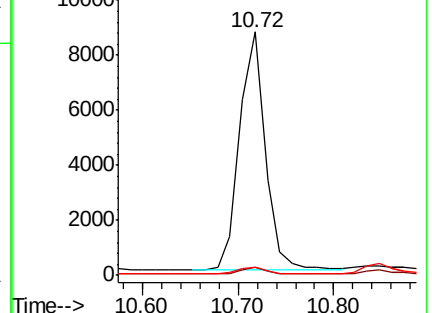
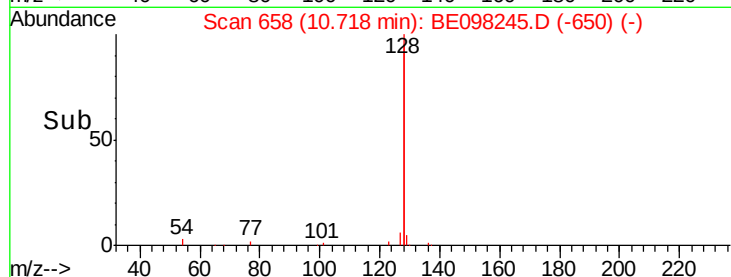
127 3.5 2.8 4.2



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: 0.321 ng

RT: 11.00 min Scan# 680

Delta R.T. 0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

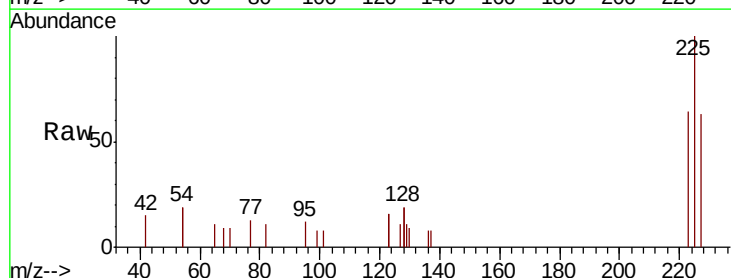
Tgt Ion:225 Resp: 900

Ion Ratio Lower Upper

225 100

223 63.0 50.5 75.7

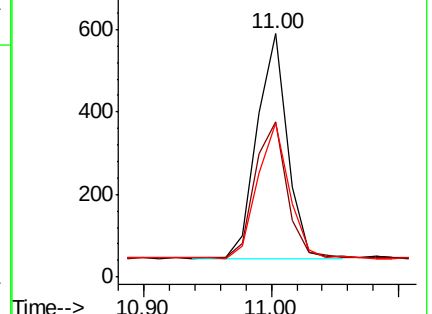
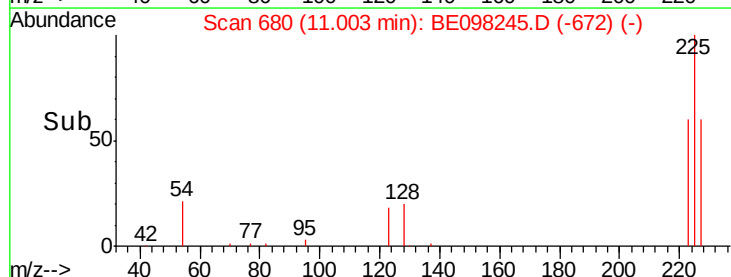
227 61.9 50.3 75.5

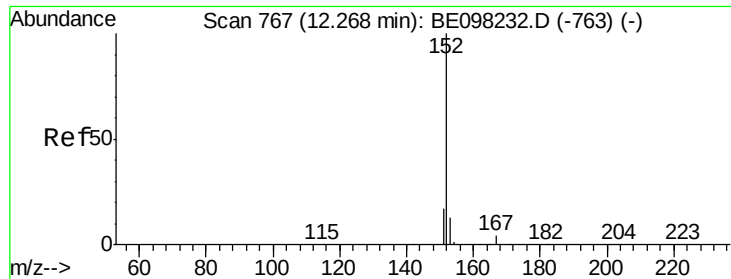


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

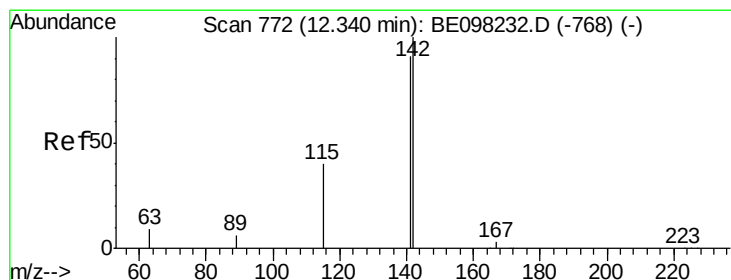
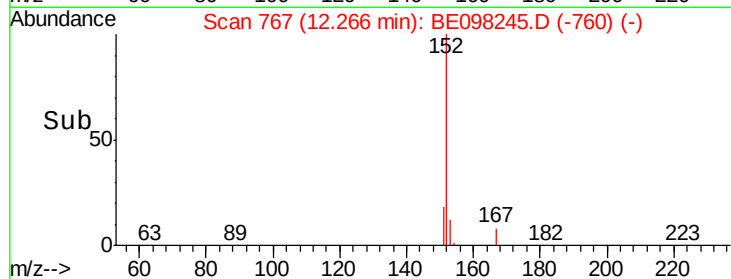
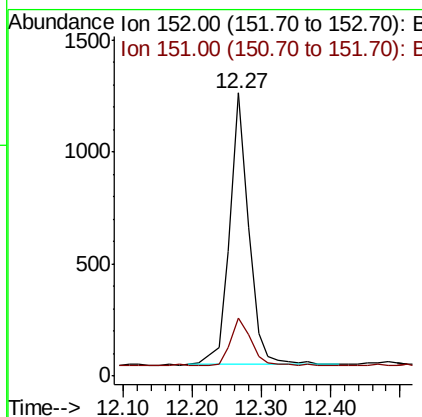
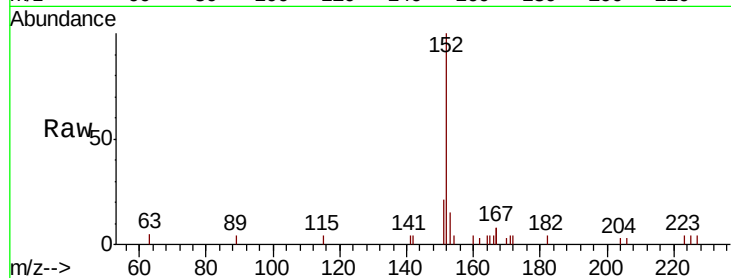




#11  
 2-Methylnaphthalene-d10  
 Concen: 0.282 ng  
 RT: 12.27 min Scan# 767  
 Delta R.T. -0.00 min  
 Lab File: BE098245.D  
 Acq: 19 Nov 2018 9:51

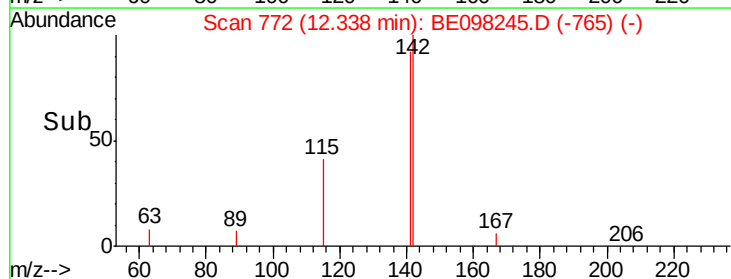
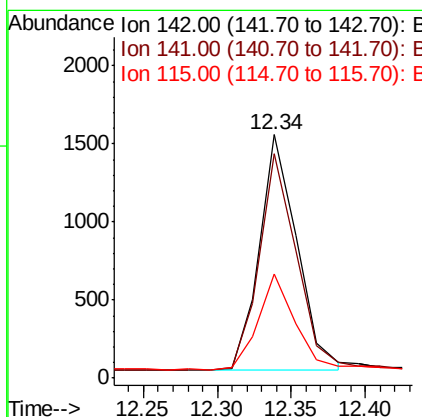
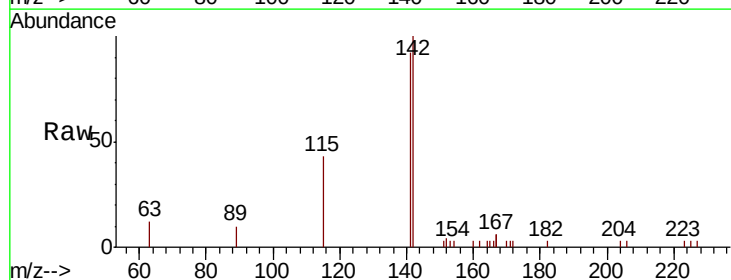
Instrument :  
 BNA\_E  
 ClientSampled :

Tot Ion:152 Resp: 2321  
 Ion Ratio Lower Upper  
 152 100  
 151 19.8 15.4 23.2

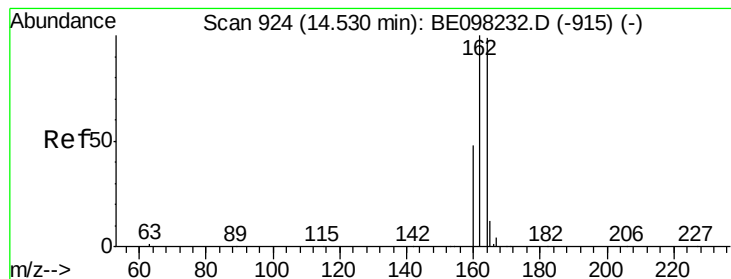


#12  
 2-Methylnaphthalene  
 Concen: 0.313 ng  
 RT: 12.34 min Scan# 772  
 Delta R.T. -0.00 min  
 Lab File: BE098245.D  
 Acq: 19 Nov 2018 9:51

Tgt Ion:142 Resp: 2637  
 Ion Ratio Lower Upper  
 142 100  
 141 92.4 76.3 114.5  
 115 43.0 35.8 53.8







#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.53 min Scan# 924

Delta R.T. -0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

Instrument :

BNA\_E

ClientSampleId :

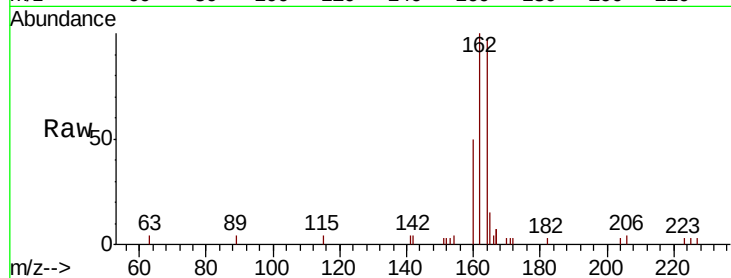
Tot Ion:164 Resp: 2528

Ion Ratio Lower Upper

164 100

162 102.6 81.8 122.6

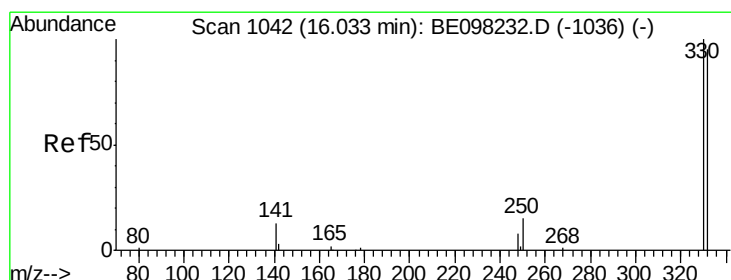
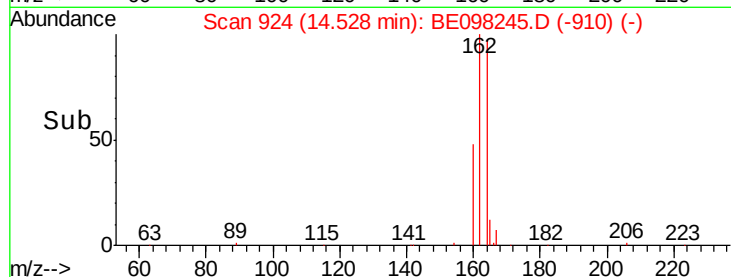
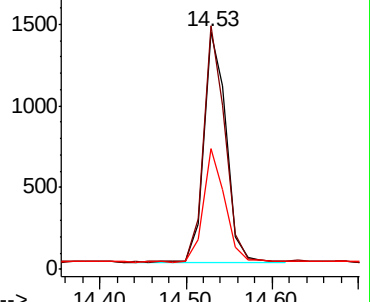
160 50.9 39.4 59.0



Abundance Ion 164.00 (163.70 to 164.70): E

2000 Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.306 ng

RT: 16.03 min Scan# 1042

Delta R.T. 0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

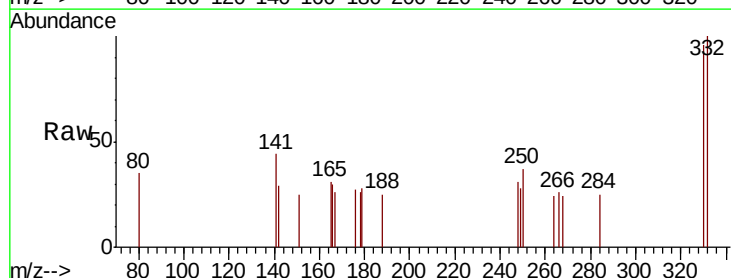
Tgt Ion:330 Resp: 249

Ion Ratio Lower Upper

330 100

332 106.0 77.7 116.5

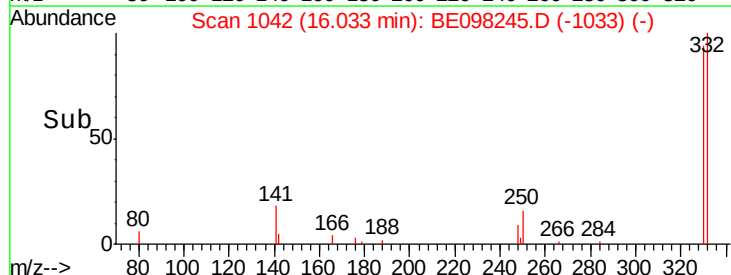
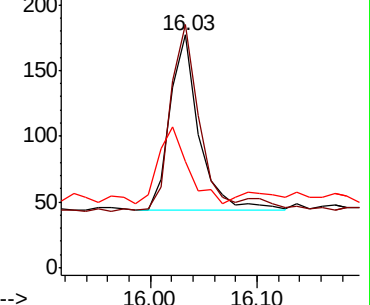
141 43.8 33.6 50.4

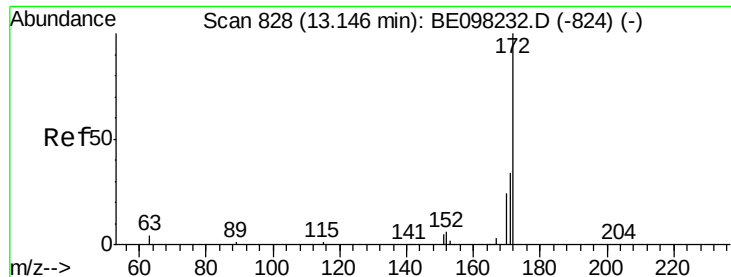


Abundance Ion 330.00 (329.70 to 330.70): E

250 Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

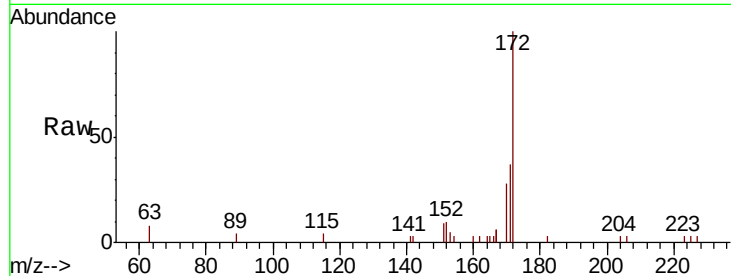




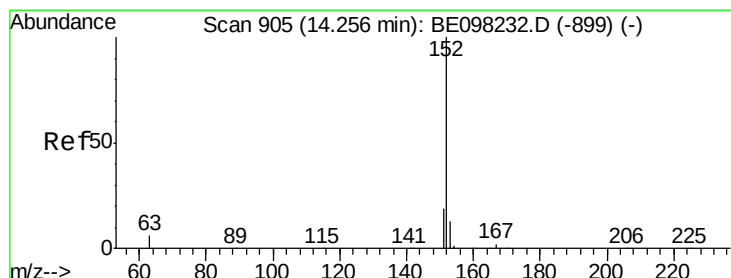
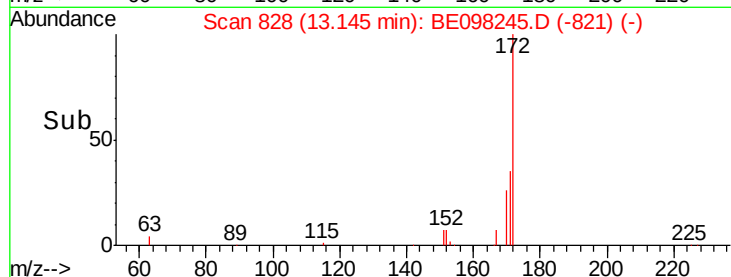
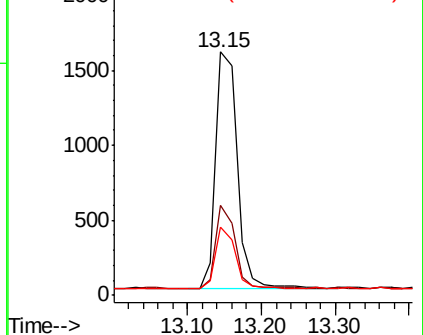
#15  
2-Fluorobiphenyl  
Concen: 0.293 ng  
RT: 13.15 min Scan# 828  
Delta R.T. -0.00 min  
Lab File: BE098245.D  
Acq: 19 Nov 2018 9:51

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:172 Resp: 3222  
Ion Ratio Lower Upper  
172 100  
171 37.0 27.3 40.9  
170 27.8 19.4 29.0

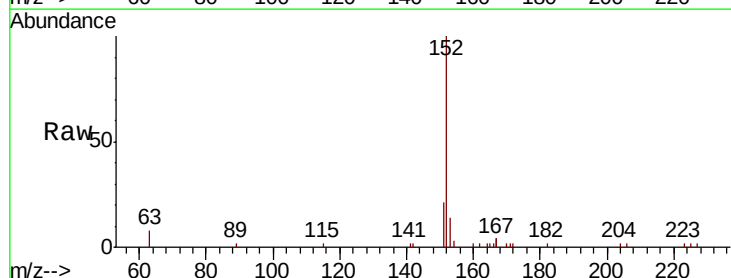


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

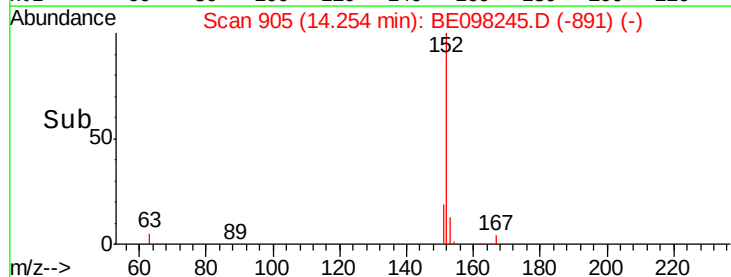
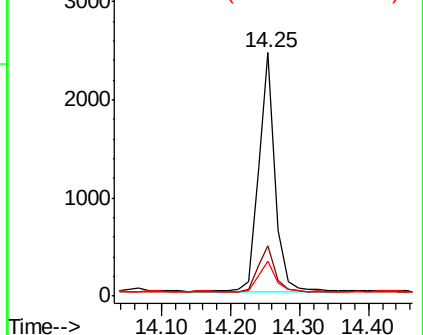


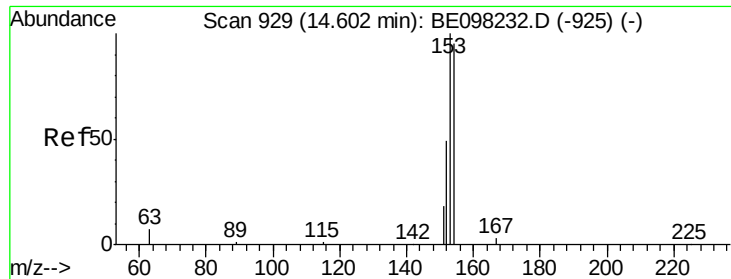
#16  
Acenaphthylene  
Concen: 0.334 ng  
RT: 14.25 min Scan# 905  
Delta R.T. -0.00 min  
Lab File: BE098245.D  
Acq: 19 Nov 2018 9:51

Tgt Ion:152 Resp: 4024  
Ion Ratio Lower Upper  
152 100  
151 19.6 16.4 24.6  
153 13.5 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

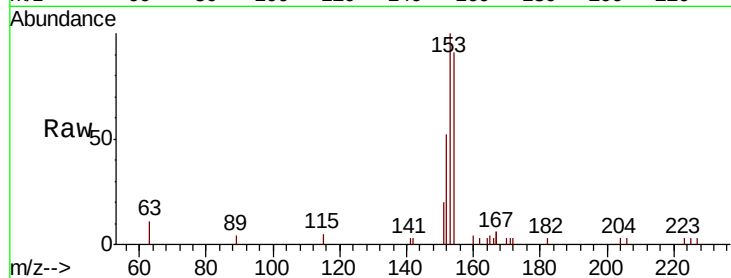




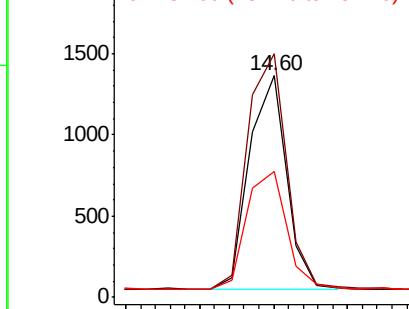
#17  
Acenaphthene  
Concen: 0.320 ng  
RT: 14.60 min Scan# 929  
Delta R.T. -0.00 min  
Lab File: BE098245.D  
Acq: 19 Nov 2018 9:51

Instrument :  
BNA\_E  
ClientSampleId :

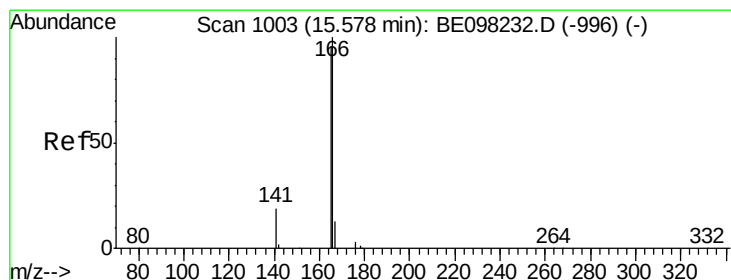
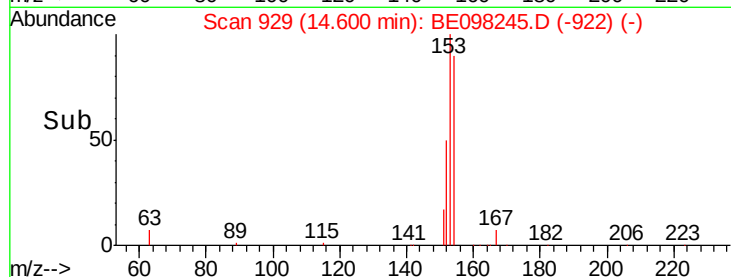
Tot Ion:154 Resp: 2303  
Ion Ratio Lower Upper  
154 100  
153 115.6 92.1 138.1  
152 59.6 46.2 69.2



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

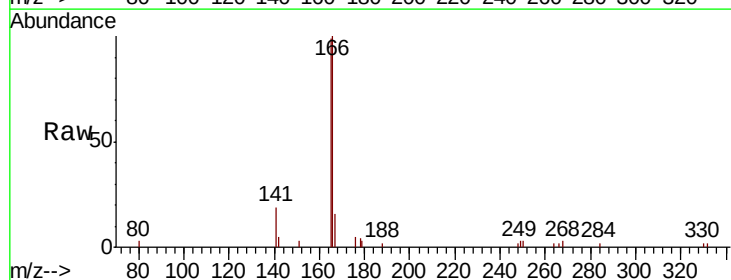


Time--> 14.50 14.55 14.60 14.65

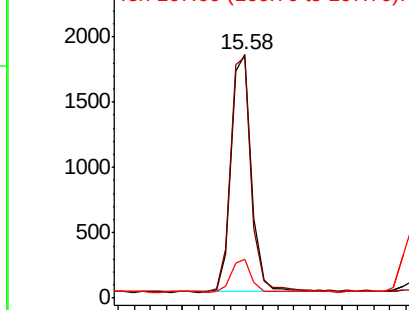


#18  
Fluorene  
Concen: 0.347 ng  
RT: 15.58 min Scan# 1003  
Delta R.T. 0.00 min  
Lab File: BE098245.D  
Acq: 19 Nov 2018 9:51

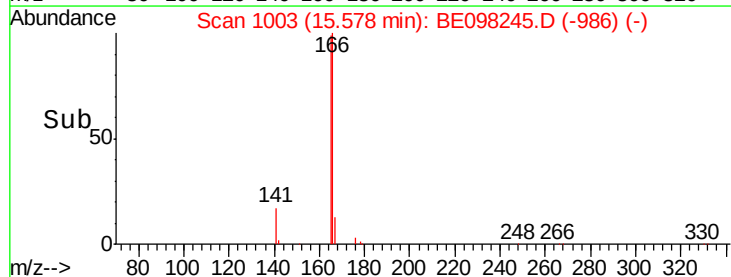
Tgt Ion:166 Resp: 3182  
Ion Ratio Lower Upper  
166 100  
165 99.8 80.1 120.1  
167 13.9 10.8 16.2

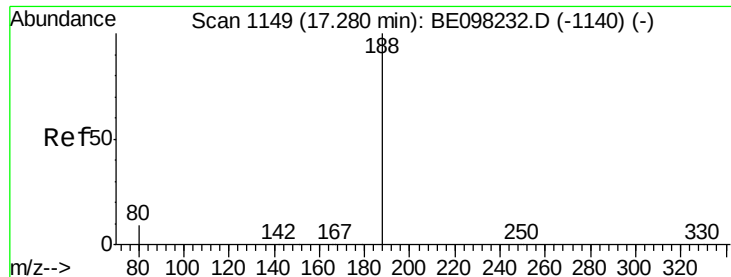


Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E



Time--> 15.50 15.60 15.70





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.28 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

Instrument :

BNA\_E

ClientSampleId :

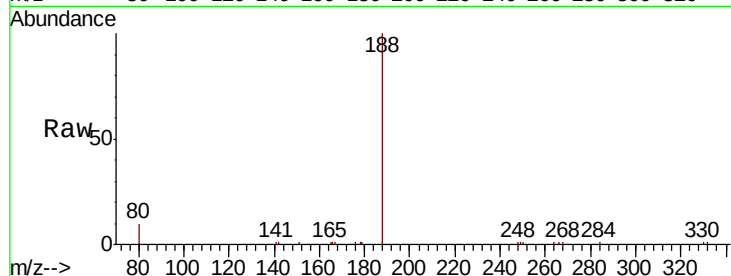
Tot Ion:188 Resp: 6884

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

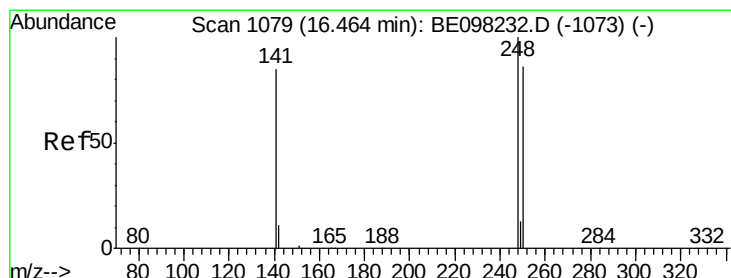
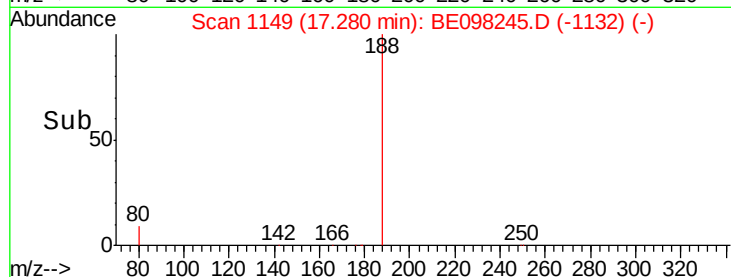
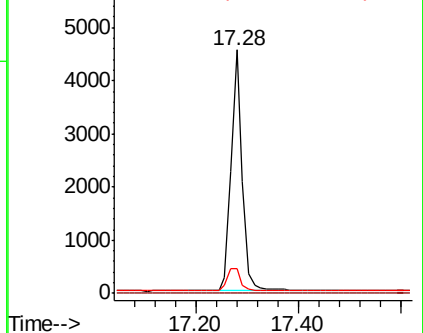
80 10.0 6.7 10.1



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: 0.280 ng

RT: 16.46 min Scan# 1079

Delta R.T. 0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

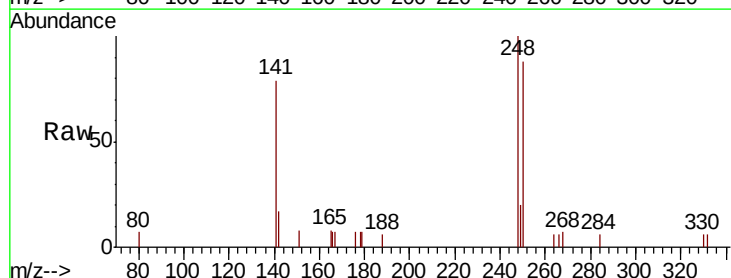
Tgt Ion:248 Resp: 1194

Ion Ratio Lower Upper

248 100

250 87.6 77.6 116.4

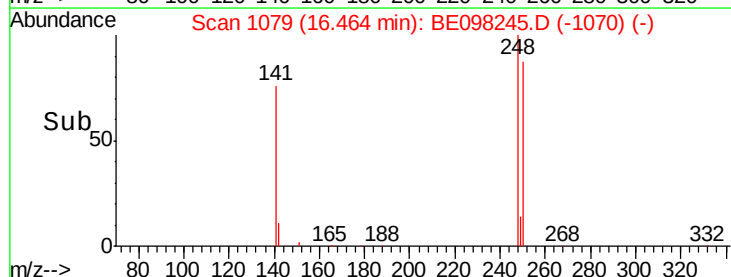
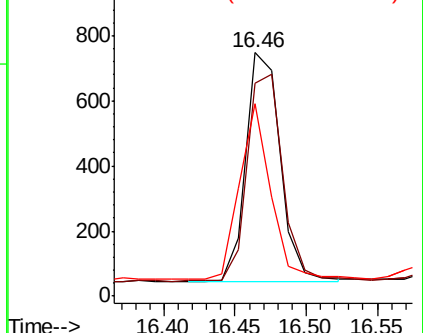
141 79.0 65.8 98.8

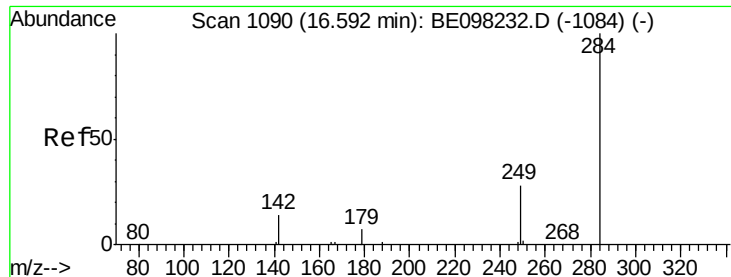


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.270 ng

RT: 16.59 min Scan# 1090

Delta R.T. 0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

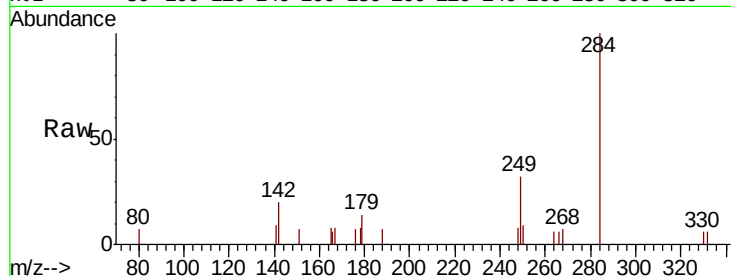
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:284 Resp: 1187

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 284 | 100   |       |       |
| 142 | 35.3  | 26.5  | 39.7  |
| 249 | 34.8  | 28.4  | 42.6  |

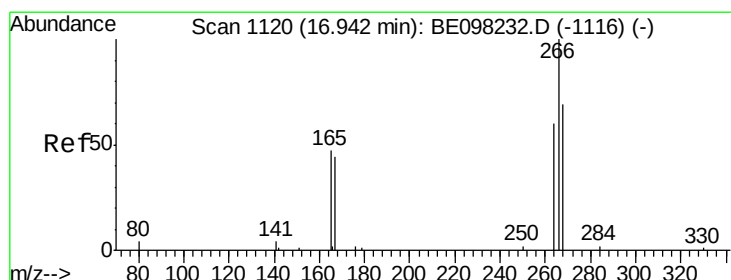
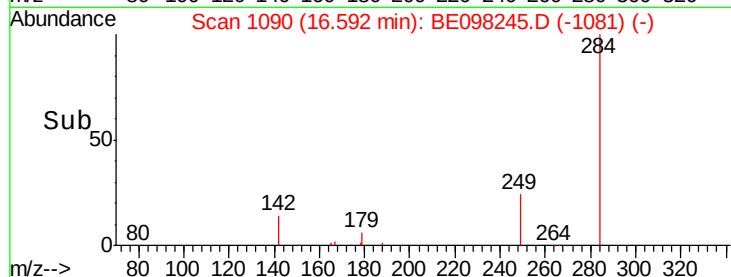
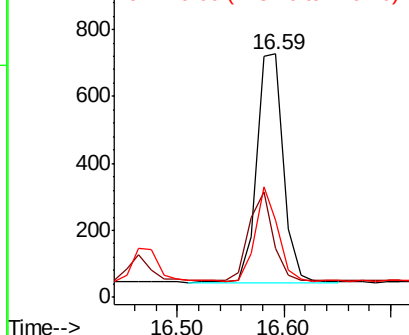


Abundance

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: 0.556 ng

RT: 16.94 min Scan# 1120

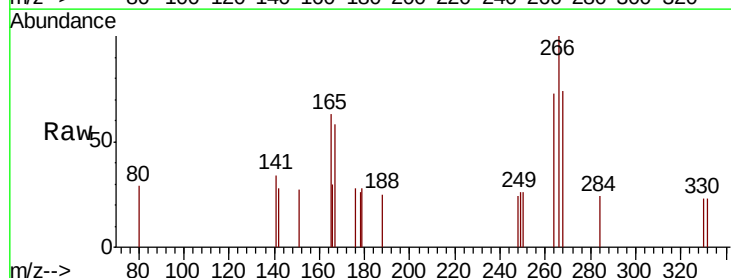
Delta R.T. 0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

Tgt Ion:266 Resp: 391

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 266 | 100   |       |       |
| 264 | 73.0  | 57.6  | 86.4  |
| 268 | 73.5  | 56.8  | 85.2  |

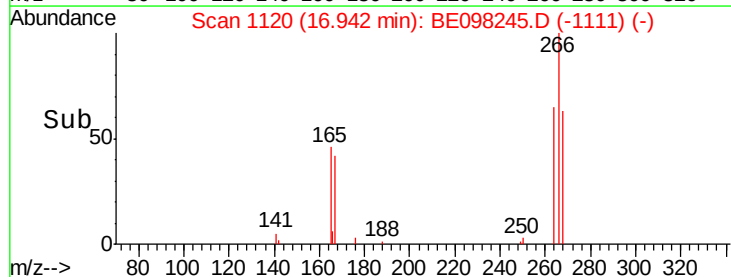
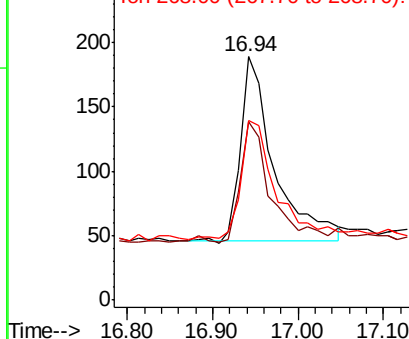


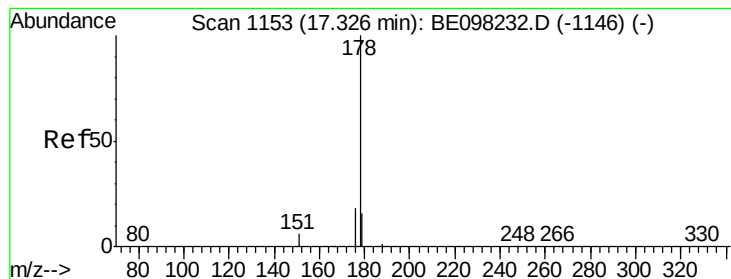
Abundance

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: 0.341 ng

RT: 17.31 min Scan# 1152

Delta R.T. -0.01 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

Instrument :

BNA\_E

ClientSampled :

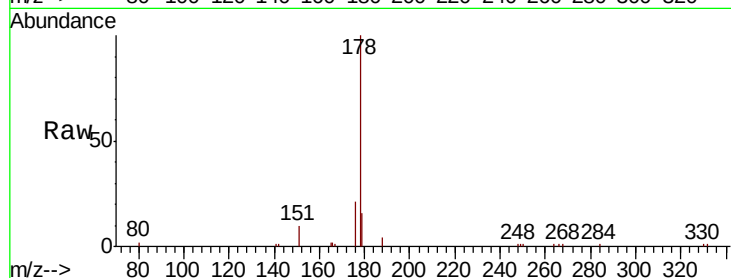
Tot Ion:178 Resp: 6042

Ion Ratio Lower Upper

178 100

176 19.6 15.8 23.8

179 15.6 12.3 18.5

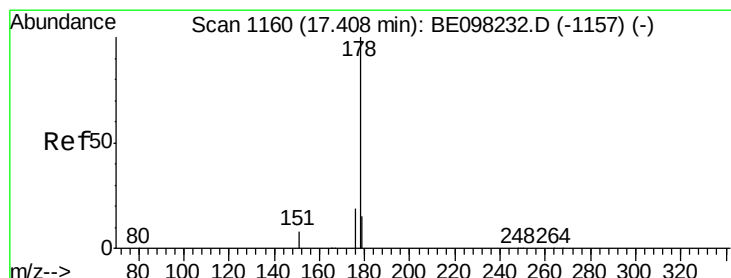
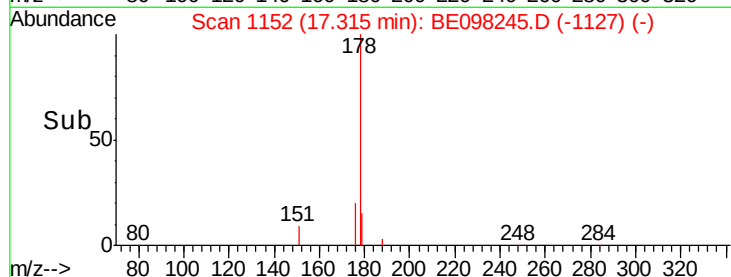
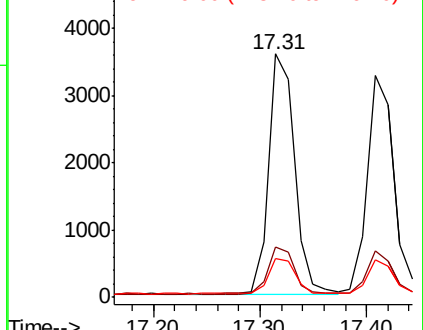


Abundance

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: 0.343 ng

RT: 17.41 min Scan# 1160

Delta R.T. 0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

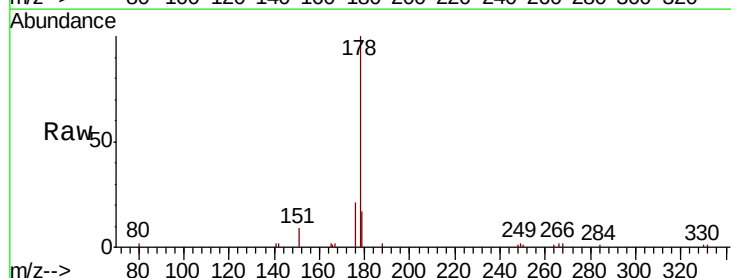
Tgt Ion:178 Resp: 5519

Ion Ratio Lower Upper

178 100

176 19.2 15.7 23.5

179 15.7 12.1 18.1

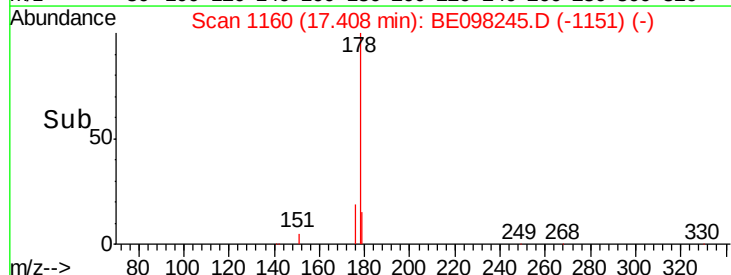
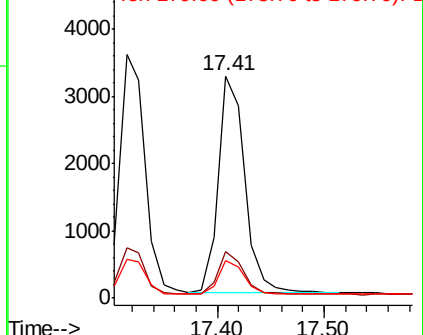


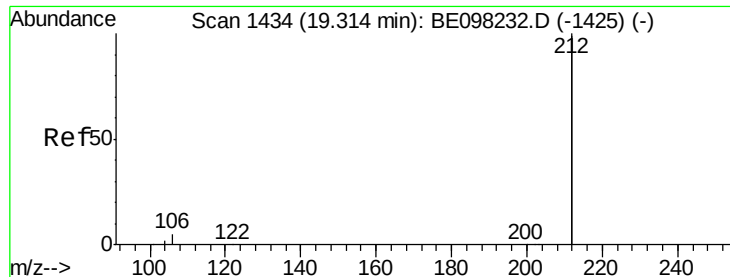
Abundance

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: 0.371 ng

RT: 19.31 min Scan# 1433

Delta R.T. -0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

Instrument :

BNA\_E

ClientSampleId :

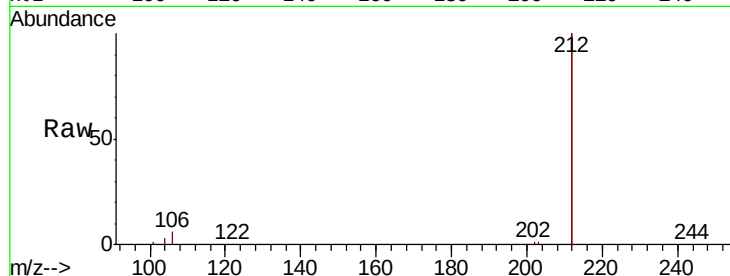
Tot Ion:212 Resp: 31090

Ion Ratio Lower Upper

212 100

106 2.7 1.8 2.8

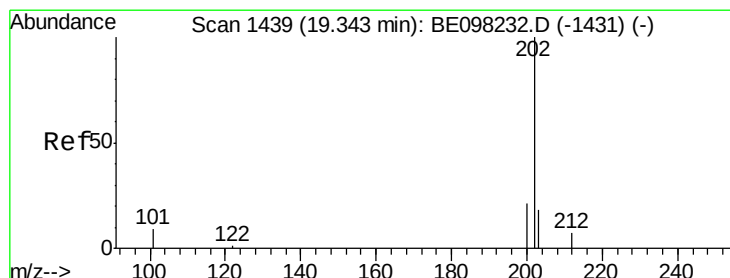
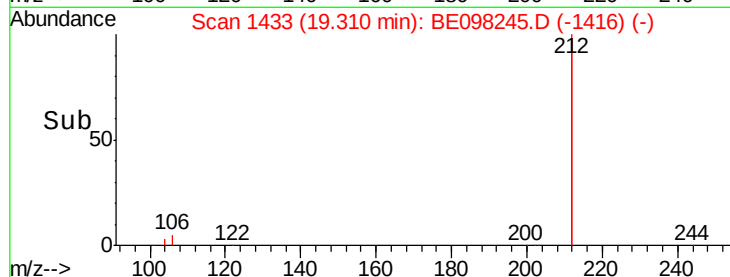
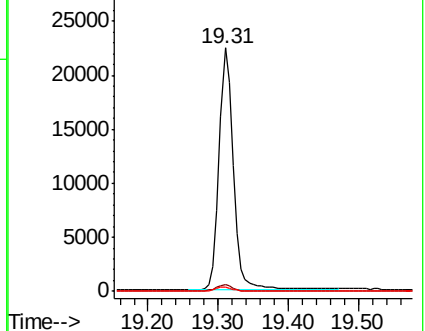
104 1.5 1.1 1.7



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: 0.391 ng

RT: 19.34 min Scan# 1438

Delta R.T. -0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

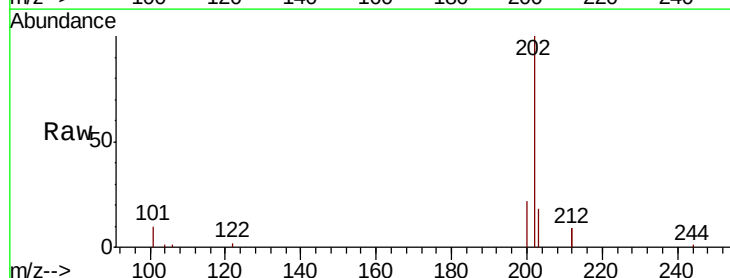
Tgt Ion:202 Resp: 8311

Ion Ratio Lower Upper

202 100

101 9.6 7.0 10.6

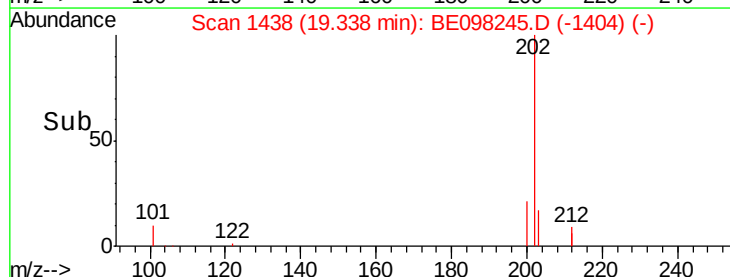
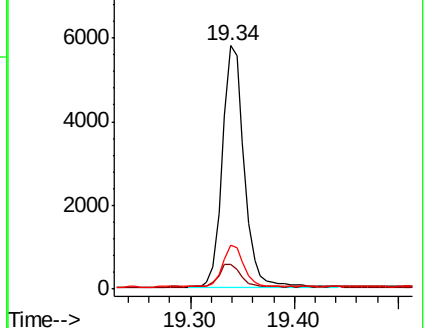
203 17.1 13.7 20.5

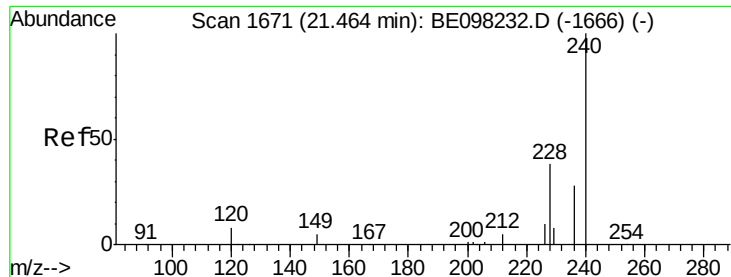


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE098245.D

Acq: 19 Nov 2018 9:51

Instrument :

BNA\_E

ClientSampleId :

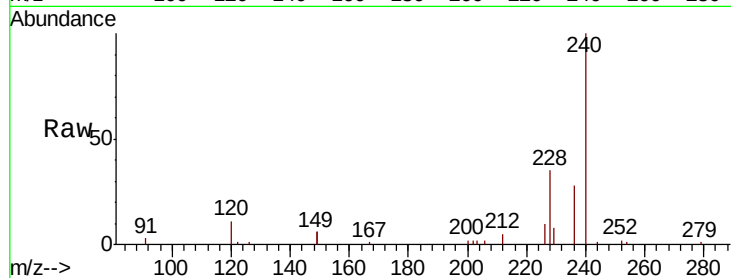
Tot Ion:240 Resp: 8975

Ion Ratio Lower Upper

240 100

120 10.7 4.8 7.2#

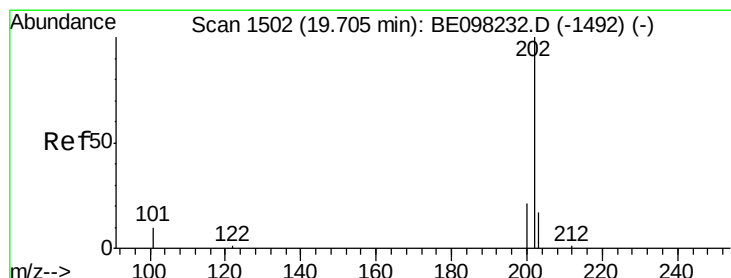
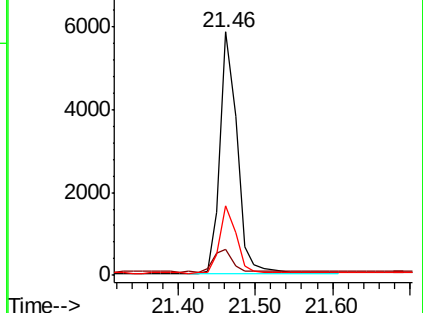
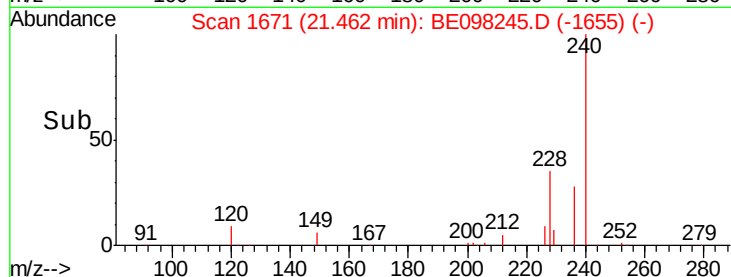
236 28.5 21.4 32.0



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: 0.322 ng

RT: 19.70 min Scan# 1501

Delta R.T. -0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

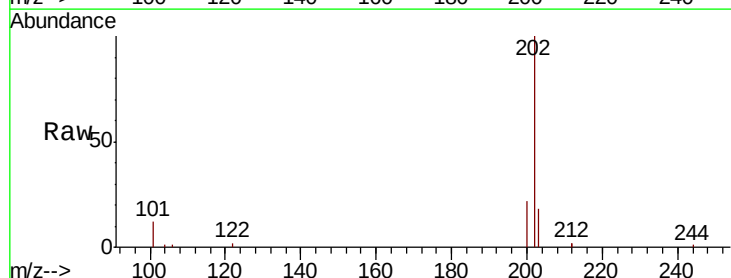
Tgt Ion:202 Resp: 8451

Ion Ratio Lower Upper

202 100

200 21.6 17.2 25.8

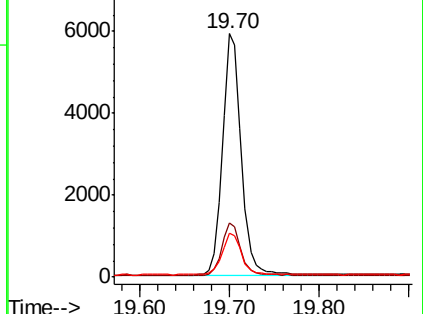
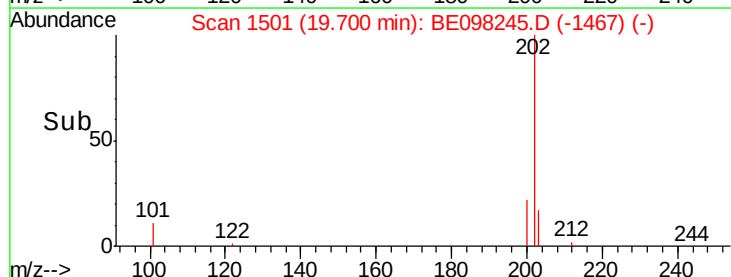
203 17.8 14.2 21.4



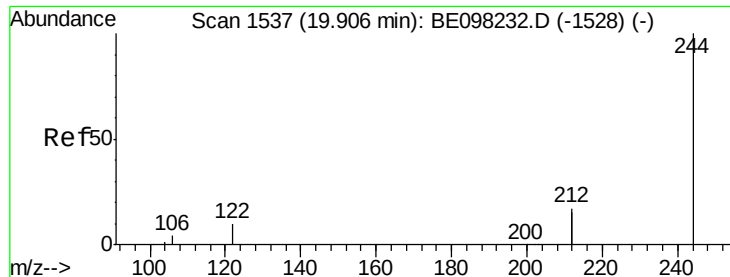
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 0.278 ng

RT: 19.91 min Scan# 1537

Delta R.T. 0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

Instrument :

BNA\_E

ClientSampleId :

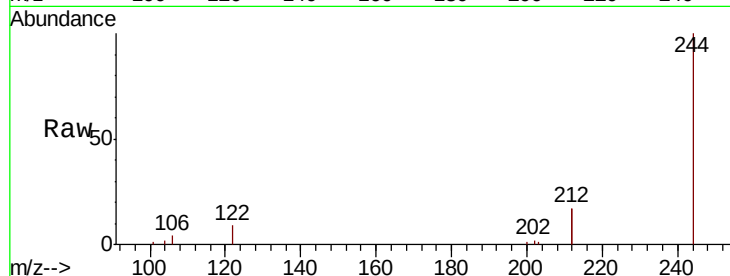
Tot Ion:244 Resp: 5738

Ion Ratio Lower Upper

244 100

212 34.3 26.8 40.2

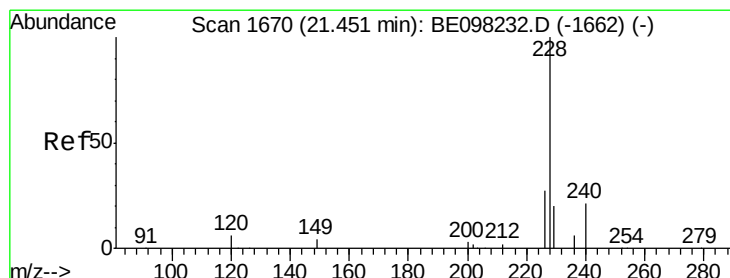
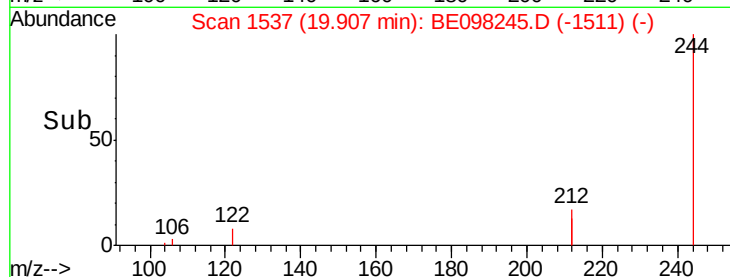
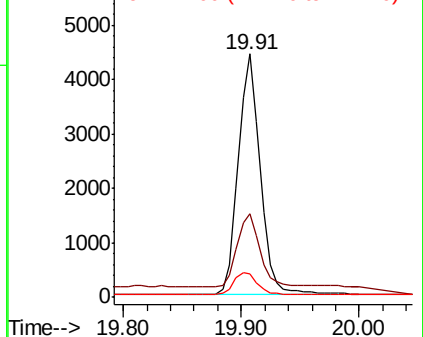
122 9.4 7.0 10.6



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: 0.345 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

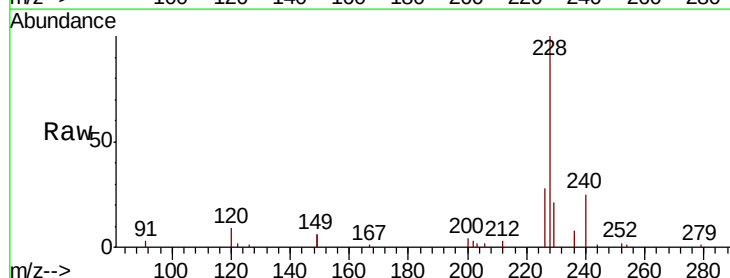
Tgt Ion:228 Resp: 8957

Ion Ratio Lower Upper

228 100

226 27.5 20.7 31.1

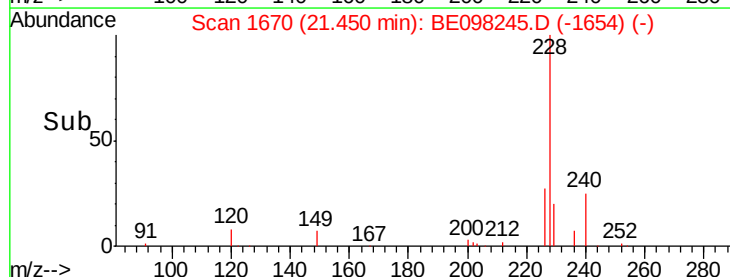
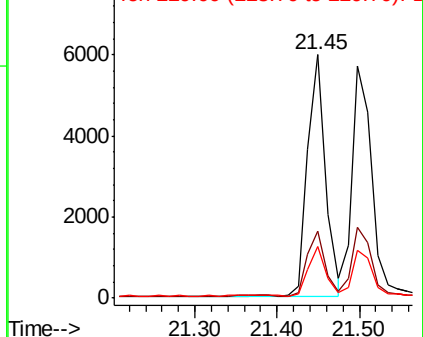
229 21.3 16.2 24.4

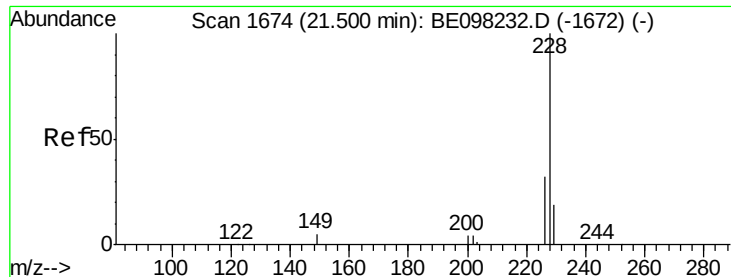


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.342 ng

RT: 21.50 min Scan# 1674

Delta R.T. -0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

Instrument :

BNA\_E

ClientSampleId :

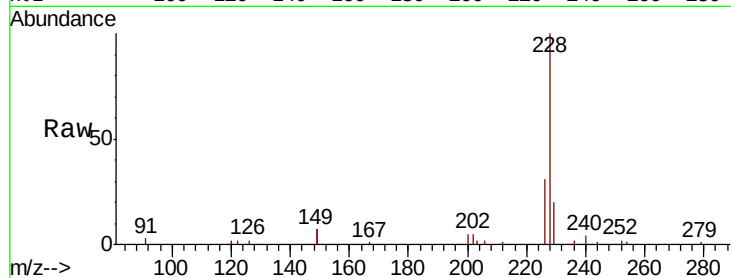
Tot Ion:228 Resp: 9126

Ion Ratio Lower Upper

228 100

226 30.7 24.6 36.8

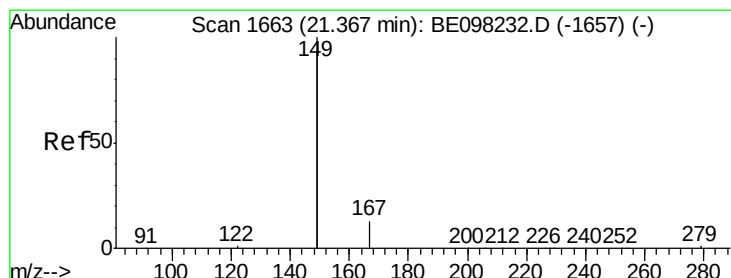
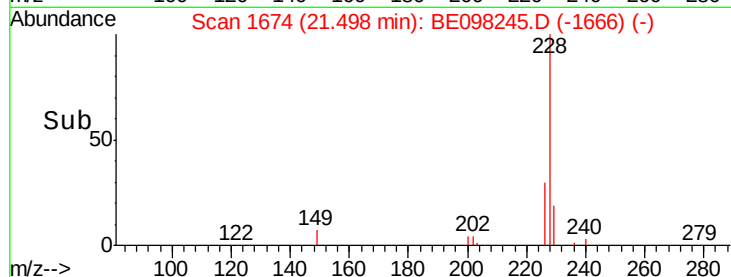
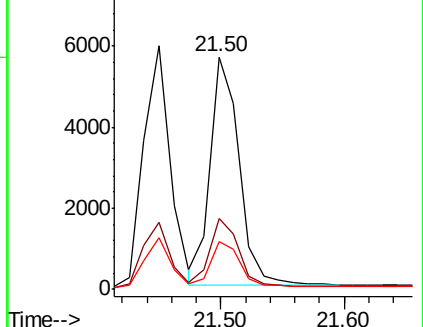
229 20.3 16.0 24.0



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: 0.377 ng

RT: 21.37 min Scan# 1663

Delta R.T. -0.00 min

Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

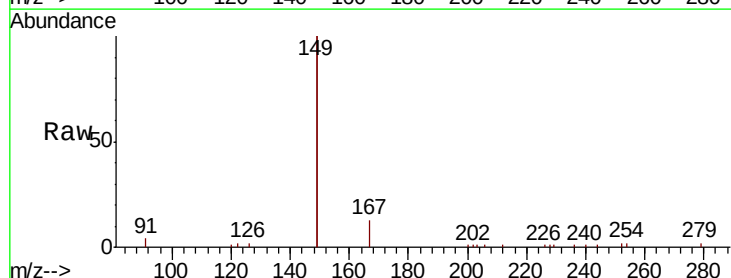
Tgt Ion:149 Resp: 15261

Ion Ratio Lower Upper

149 100

167 7.0 5.6 8.4

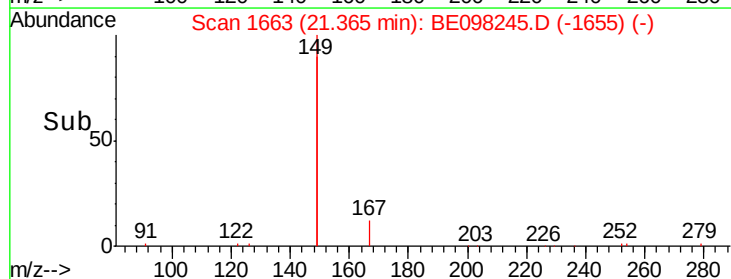
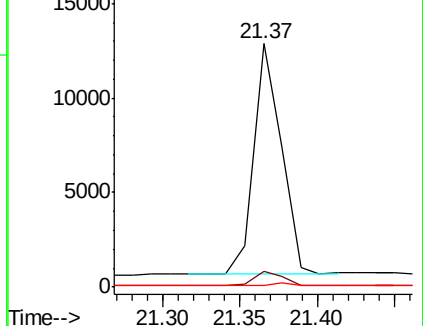
279 1.2 0.9 1.3

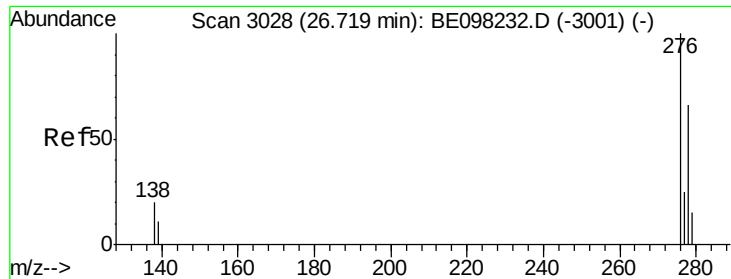


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

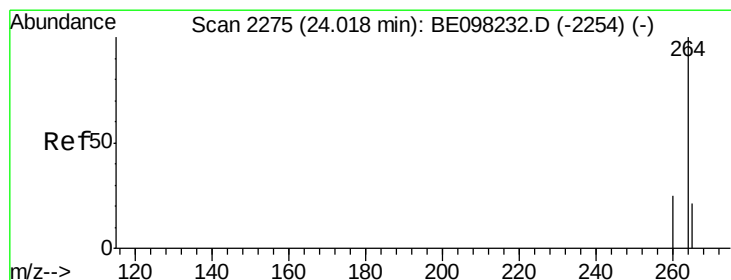
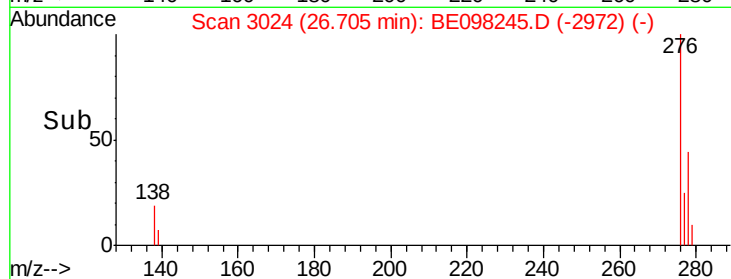
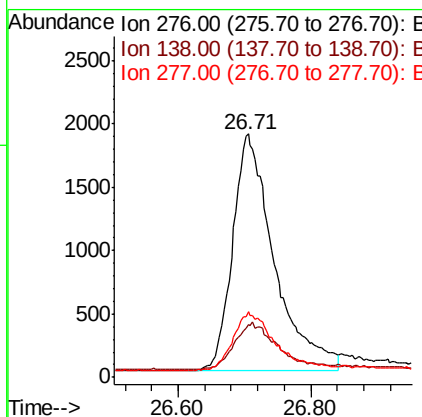
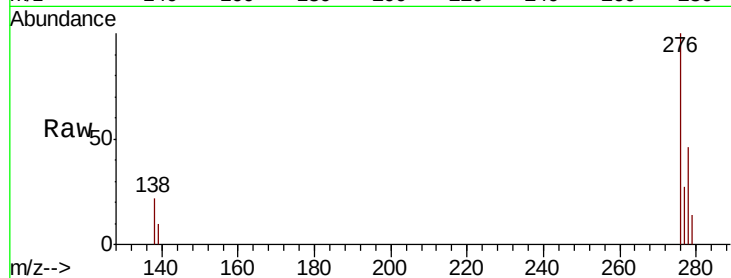




#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.357 ng  
 RT: 26.71 min Scan# 3024  
 Delta R.T. -0.01 min  
 Lab File: BE098245.D  
 Acq: 19 Nov 2018 9:51

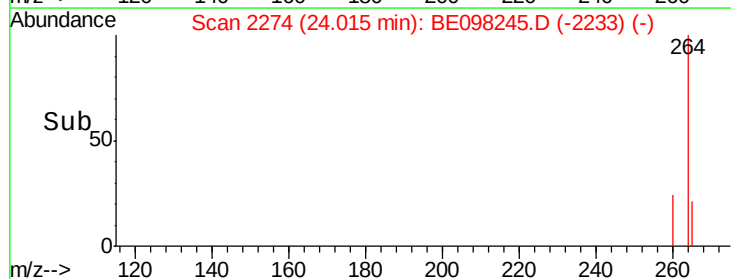
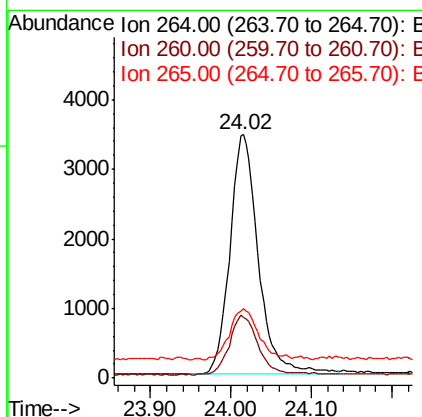
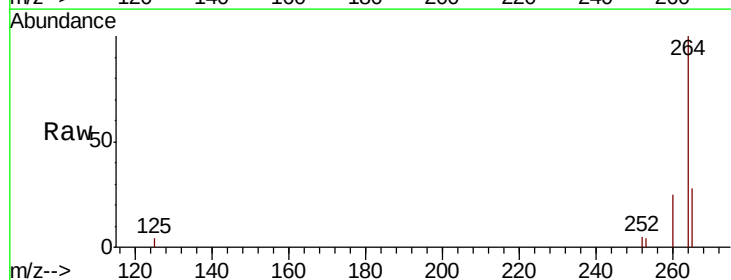
Instrument :  
 BNA\_E  
 ClientSampleId :

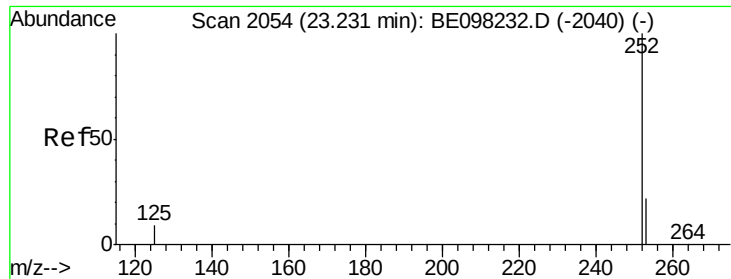
Tot Ion:276 Resp: 8173  
 Ion Ratio Lower Upper  
 276 100  
 138 19.8 6.4 9.6#  
 277 24.9 18.9 28.3



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 24.02 min Scan# 2274  
 Delta R.T. -0.00 min  
 Lab File: BE098245.D  
 Acq: 19 Nov 2018 9:51

Tgt Ion:264 Resp: 8426  
 Ion Ratio Lower Upper  
 264 100  
 260 25.0 19.9 29.9  
 265 28.3 21.3 31.9

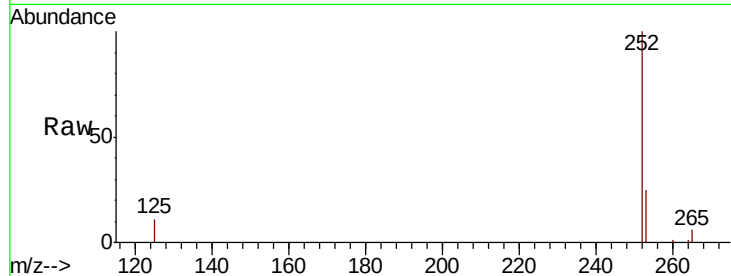




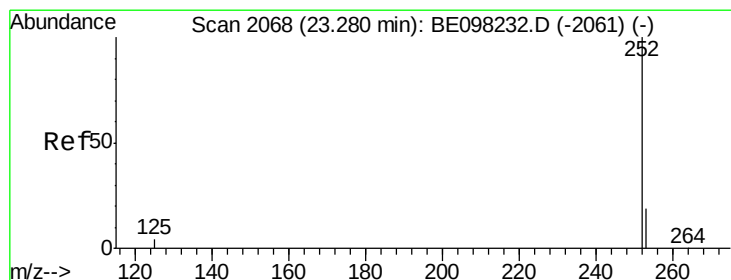
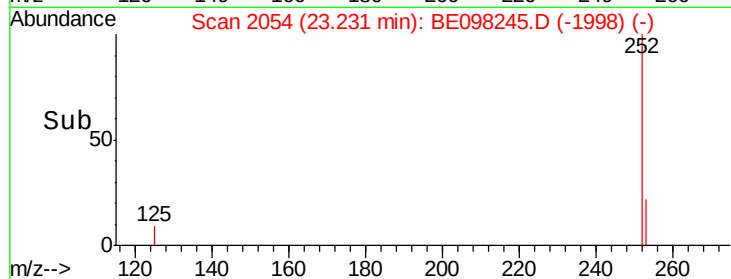
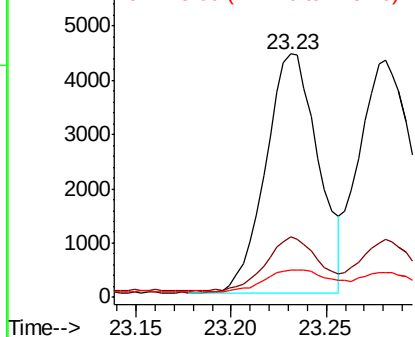
#35  
Benzo(b)fluoranthene  
Concen: 0.357 ng  
RT: 23.23 min Scan# 2054  
Delta R.T. 0.00 min  
Lab File: BE098245.D  
Acq: 19 Nov 2018 9:51

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:252 Resp: 8498  
Ion Ratio Lower Upper  
252 100  
253 24.7 19.4 29.0  
125 11.3 8.6 12.8

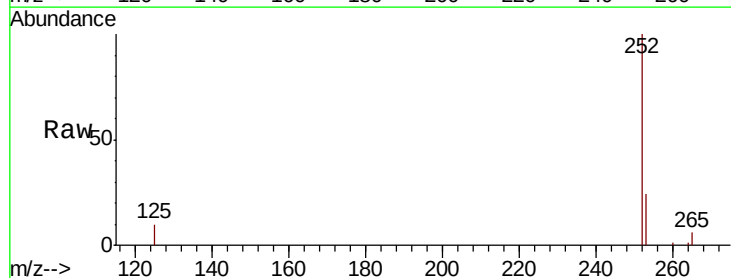


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

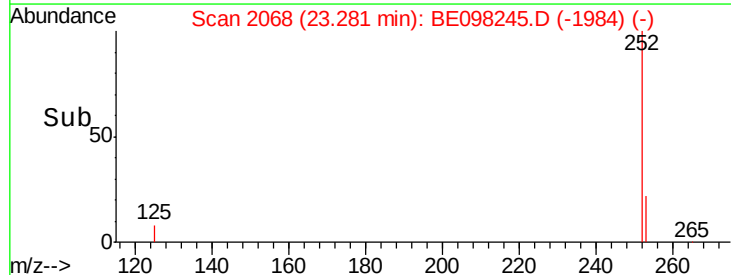
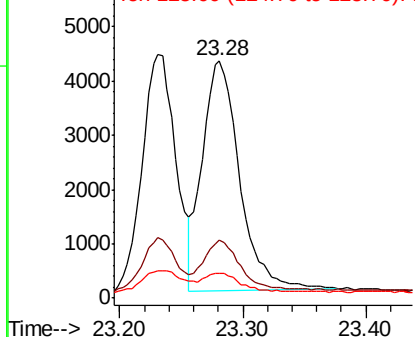


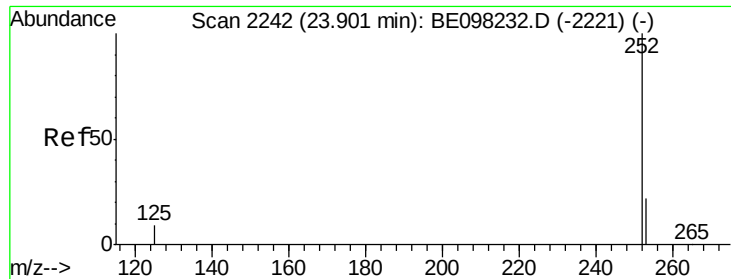
#36  
Benzo(k)fluoranthene  
Concen: 0.332 ng  
RT: 23.28 min Scan# 2068  
Delta R.T. 0.00 min  
Lab File: BE098245.D  
Acq: 19 Nov 2018 9:51

Tgt Ion:252 Resp: 8929  
Ion Ratio Lower Upper  
252 100  
253 24.3 18.6 28.0  
125 10.4 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

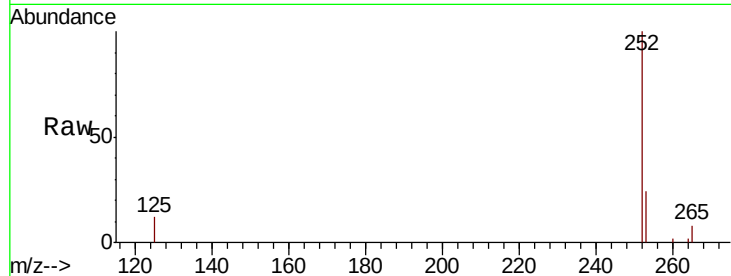




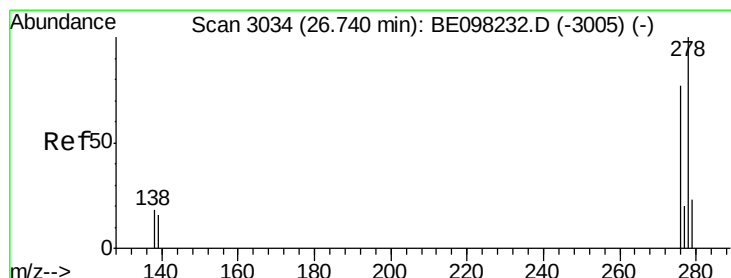
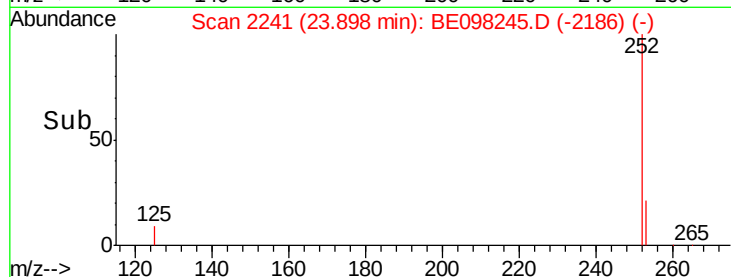
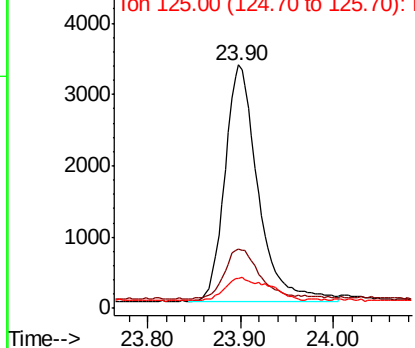
#37  
Benzo(a)pyrene  
Concen: 0.354 ng  
RT: 23.90 min Scan# 2241  
Delta R.T. -0.00 min  
Lab File: BE098245.D  
Acq: 19 Nov 2018 9:51

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:252 Resp: 8269  
Ion Ratio Lower Upper  
252 100  
253 24.5 18.6 27.8  
125 12.4 8.0 12.0#

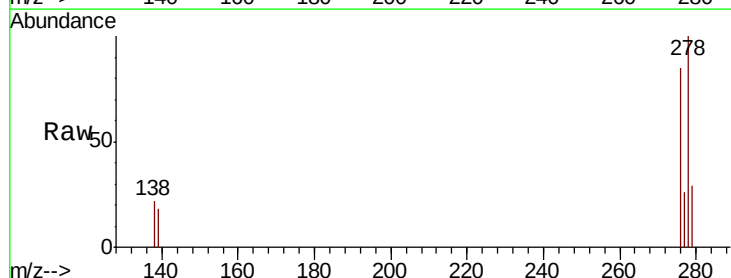


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

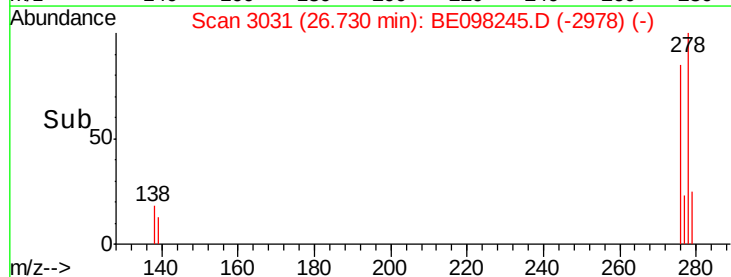
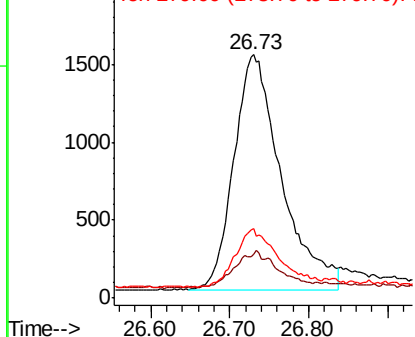


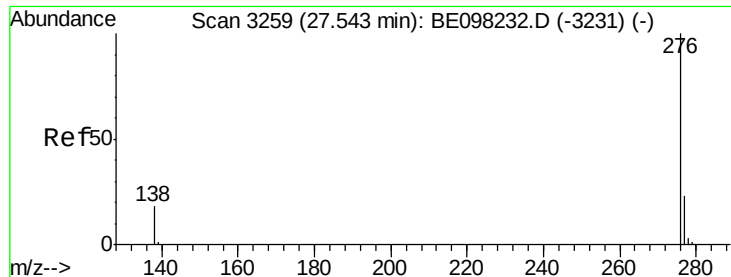
#38  
Dibenzo(a,h)anthracene  
Concen: 0.337 ng  
RT: 26.73 min Scan# 3031  
Delta R.T. -0.01 min  
Lab File: BE098245.D  
Acq: 19 Nov 2018 9:51

Tgt Ion:278 Resp: 6303  
Ion Ratio Lower Upper  
278 100  
139 17.8 16.4 24.6  
279 28.6 21.3 31.9



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: 0.351 ng

RT: 27.54 min Scan# 3257

Delta R.T. -0.01 min

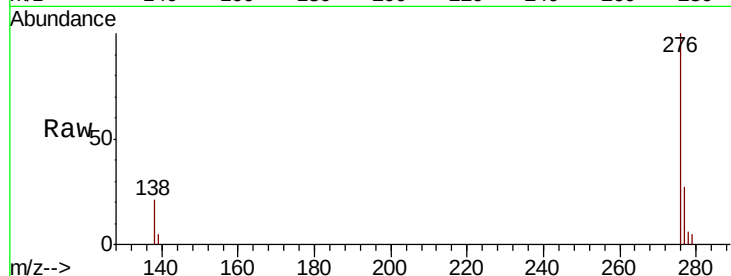
Lab File: BE098245.D

Acq: 19 Nov 2018 9:51

Instrument :

BNA\_E

ClientSampleId :



Tot Ion: 276 Resp: 7079

Ion Ratio Lower Upper

276 100

277 27.0 20.4 30.6

138 21.2 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

