

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE061419\  
 Data File : BE100030.D  
 Acq On : 14 Jun 2019 19:20  
 Operator : JU/SJ  
 Sample : K3270-04MS  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 GW-02MS

Quant Time: Jun 15 00:50:12 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE061019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 10 14:57:20 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.78  | 152  | 820      | 0.40 | ng    | -0.01    |
| 7) Naphthalene-d8         | 10.59 | 136  | 2980     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.46 | 164  | 2302     | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.21 | 188  | 7412     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.39 | 240  | 10248    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.92 | 264  | 11672    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.36  | 112  | 384      | 0.17 | ng    | 0.00     |
| 5) Phenol-d6                | 6.96  | 99   | 313      | 0.11 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.96  | 82   | 1084     | 0.38 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.20 | 152  | 2759     | 0.53 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol    | 15.96 | 330  | 600      | 0.35 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl        | 13.09 | 172  | 3433     | 0.39 | ng    | -0.01    |
| 25) Fluoranthene-d10        | 19.24 | 212  | 34608    | 0.32 | ng    | -0.01    |
| 29) Terphenyl-d14           | 19.84 | 244  | 10363    | 0.56 | ng    | -0.01    |

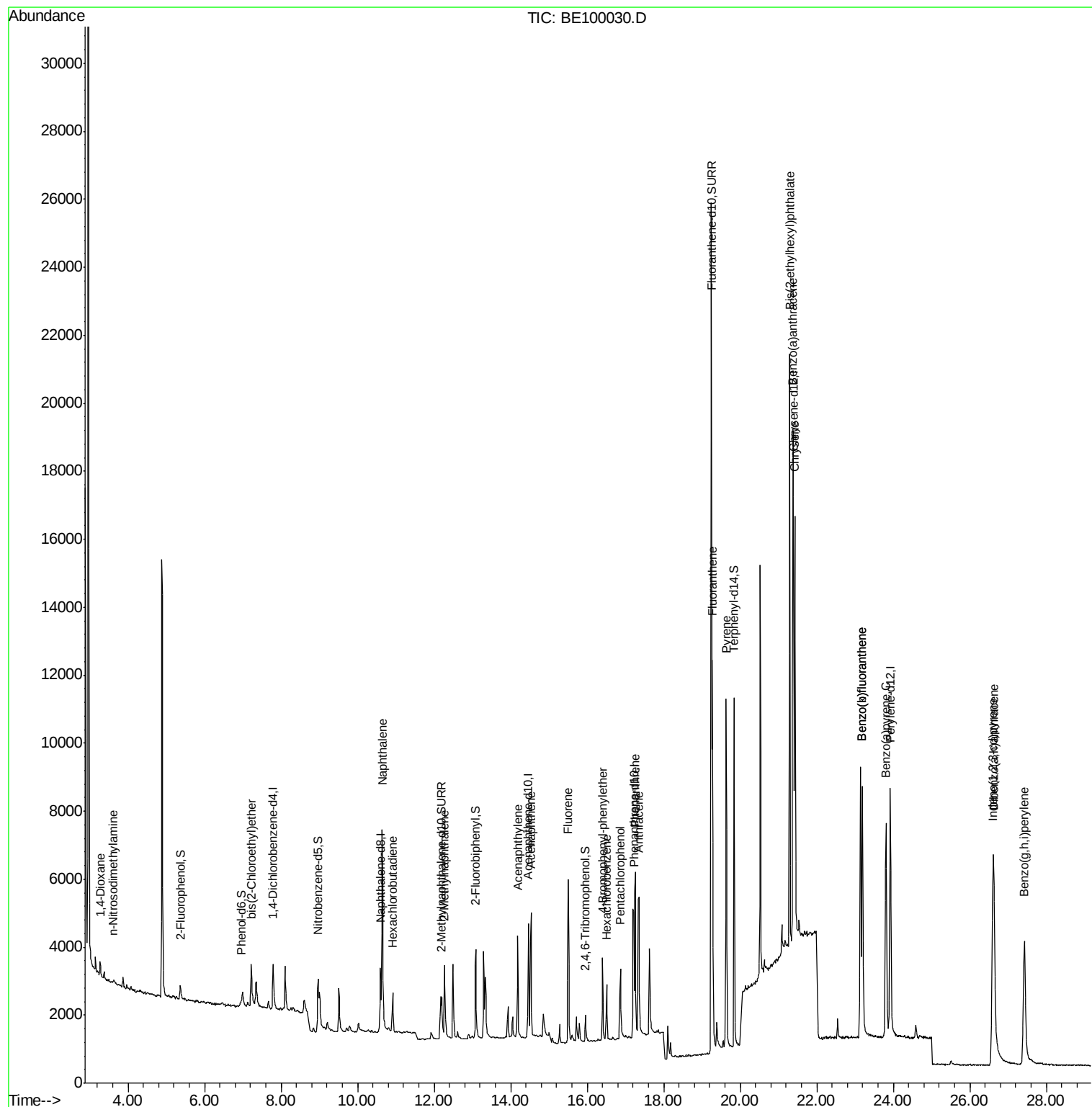
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.27  | 88   | 272      | 0.224 | ng    | # 64   |
| 3) n-Nitrosodimethylamine      | 3.61  | 42   | 111      | 0.159 | ng    | # 100  |
| 6) bis(2-Chloroethyl)ether     | 7.22  | 93   | 702      | 0.301 | ng    | # 91   |
| 9) Naphthalene                 | 10.64 | 128  | 11775    | 0.366 | ng    | 100    |
| 10) Hexachlorobutadiene        | 10.91 | 225  | 818      | 0.333 | ng    | 98     |
| 12) 2-Methylnaphthalene        | 12.27 | 142  | 1859     | 0.356 | ng    | 97     |
| 16) Acenaphthylene             | 14.18 | 152  | 3815     | 0.333 | ng    | 99     |
| 17) Acenaphthene               | 14.53 | 154  | 2094     | 0.336 | ng    | 99     |
| 18) Fluorene                   | 15.50 | 166  | 3206     | 0.342 | ng    | 100    |
| 20) 4-Bromophenyl-phenylether  | 16.40 | 248  | 1474     | 0.351 | ng    | 97     |
| 21) Hexachlorobenzene          | 16.50 | 284  | 1438     | 0.335 | ng    | 97     |
| 22) Pentachlorophenol          | 16.87 | 266  | 1399     | 0.977 | ng    | 83     |
| 23) Phenanthrene               | 17.25 | 178  | 6214     | 0.346 | ng    | 99     |
| 24) Anthracene                 | 17.35 | 178  | 5933     | 0.360 | ng    | 100    |
| 26) Fluoranthene               | 19.27 | 202  | 10298    | 0.337 | ng    | 98     |
| 28) Pyrene                     | 19.63 | 202  | 10882    | 0.404 | ng    | 99     |
| 30) Benzo(a)anthracene         | 21.38 | 228  | 12010    | 0.392 | ng    | 98     |
| 31) Chrysene                   | 21.43 | 228  | 12219    | 0.386 | ng    | 98     |
| 32) Bis(2-ethylhexyl)phthalate | 21.29 | 149  | 19584    | 0.446 | ng    | 100    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.60 | 276  | 13151    | 0.350 | ng    | 98     |
| 35) Benzo(b)fluoranthene       | 23.19 | 252  | 12603    | 0.385 | ng    | 96     |
| 36) Benzo(k)fluoranthene       | 23.19 | 252  | 12603    | 0.368 | ng    | 96     |
| 37) Benzo(a)pyrene             | 23.81 | 252  | 11709    | 0.363 | ng    | # 91   |
| 38) Dibenzo(a,h)anthracene     | 26.63 | 278  | 10540    | 0.325 | ng    | # 95   |
| 39) Benzo(g,h,i)perylene       | 27.43 | 276  | 11291    | 0.337 | ng    | 97     |

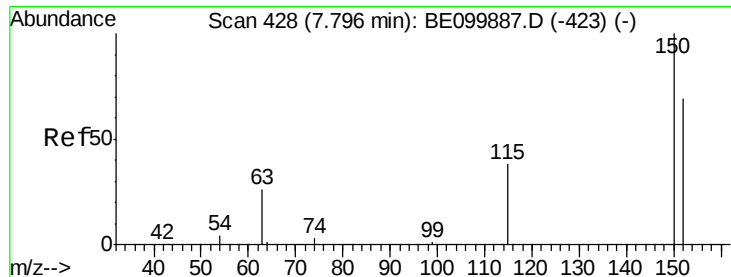
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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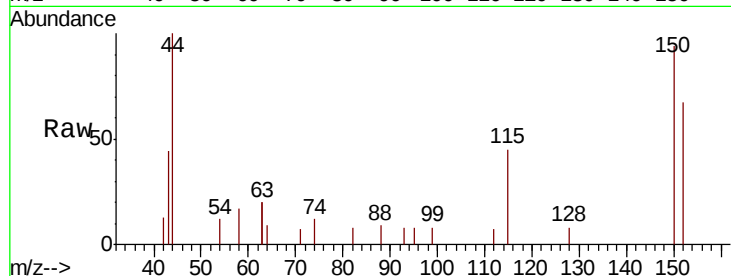


#1

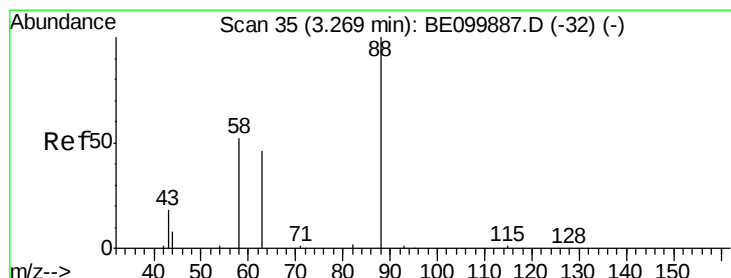
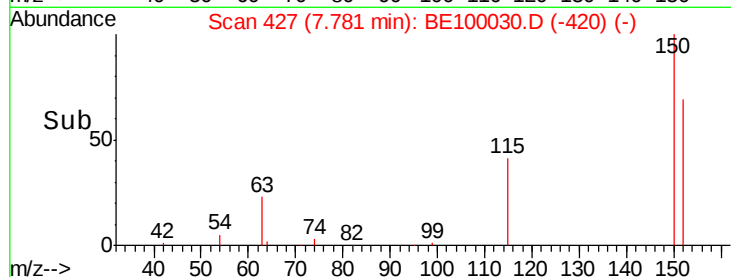
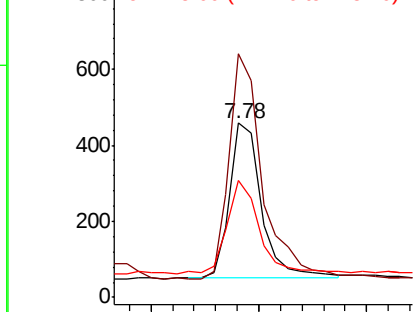
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.78 min Scan# 427  
Delta R.T. -0.01 min  
Lab File: BE100030.D  
Acq: 14 Jun 2019 19:20

Instrument :  
BNA\_E  
ClientSampleId :  
GW-02MS

Tgt Ion: 152 Resp: 820  
Ion Ratio Lower Upper  
152 100  
150 139.7 111.0 166.6  
115 67.1 50.7 76.1



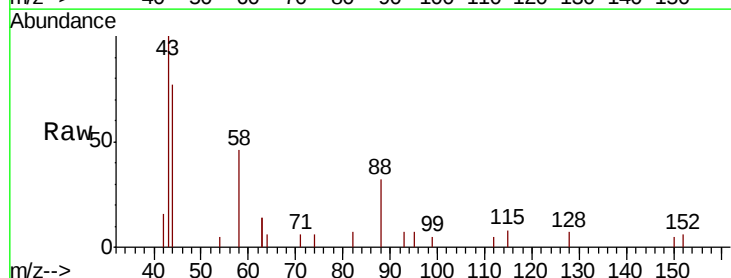
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



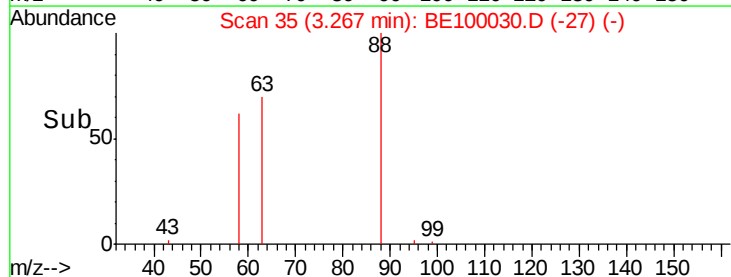
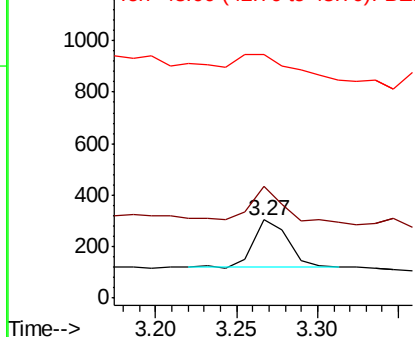
#2

1,4-Dioxane  
Concen: 0.224 ng  
RT: 3.27 min Scan# 35  
Delta R.T. -0.00 min  
Lab File: BE100030.D  
Acq: 14 Jun 2019 19:20

Tgt Ion: 88 Resp: 272  
Ion Ratio Lower Upper  
88 100  
58 65.4 48.8 73.2  
43 78.7 19.0 28.6#



Abundance Ion 88.00 (87.70 to 88.70): BE1  
Ion 58.00 (57.70 to 58.70): BE1  
Ion 43.00 (42.70 to 43.70): BE1





#3

n-Nitrosodimethylamine

Concen: 0.159 ng

RT: 3.61 min Scan# 65

Delta R.T. 0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

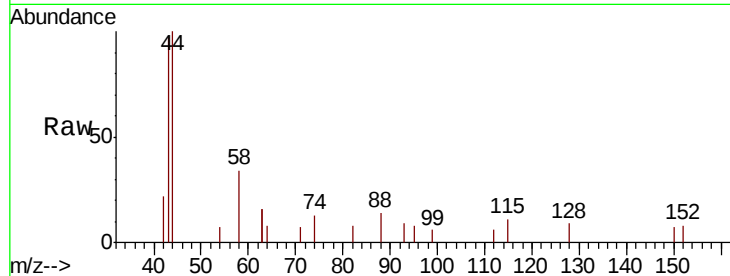
Instrument :

BNA\_E

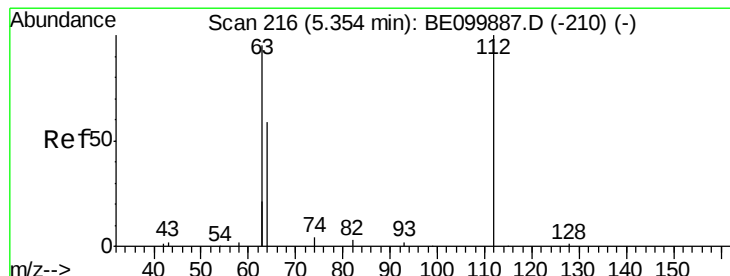
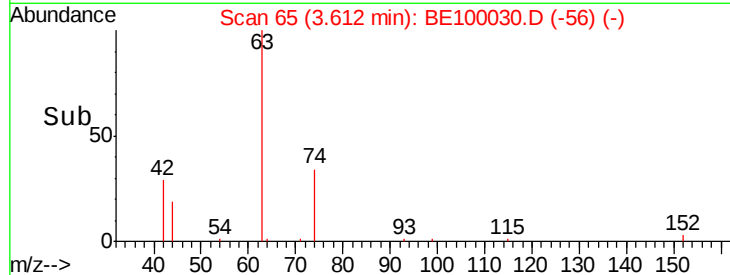
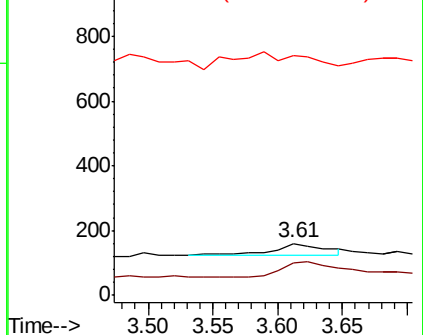
ClientSampleId :

GW-02MS

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 111   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 114.4 | 0.0   | 0.0#  |
| 44       | 0.0   | 0.0   | 0.0   |



Abundance Ion 42.00 (41.70 to 42.70): BE1  
Ion 74.00 (73.70 to 74.70): BE1  
Ion 44.00 (43.70 to 44.70): BE1



#4

2-Fluorophenol

Concen: 0.173 ng

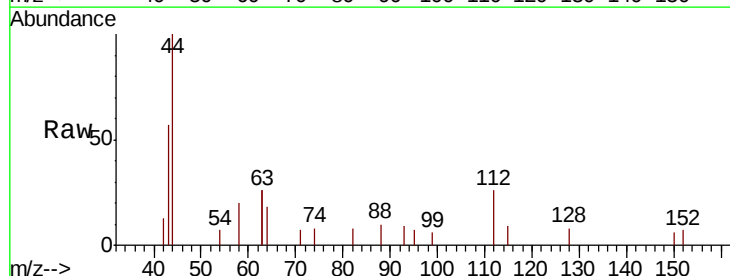
RT: 5.36 min Scan# 217

Delta R.T. 0.01 min

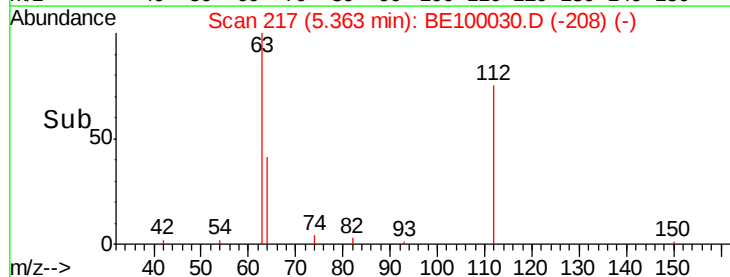
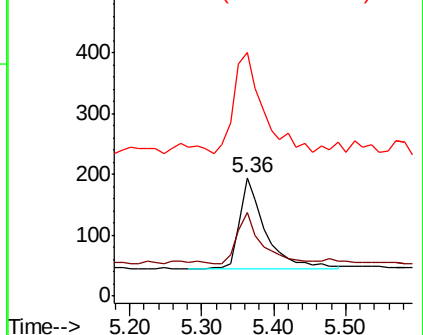
Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 384   |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 49.2  | 44.1  | 66.1  |
| 63       | 123.4 | 87.8  | 131.6 |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BE1  
Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.110 ng

RT: 6.96 min Scan# 356

Delta R.T. -0.00 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

GW-02MS

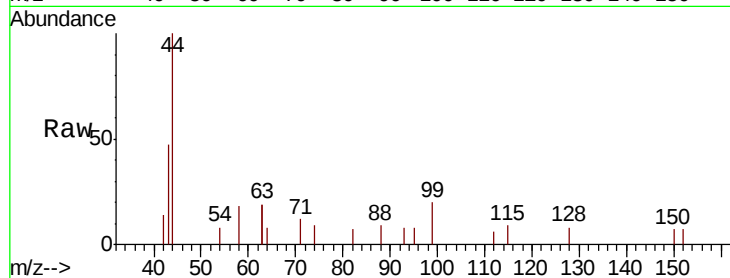
Tgt Ion: 99 Resp: 313

Ion Ratio Lower Upper

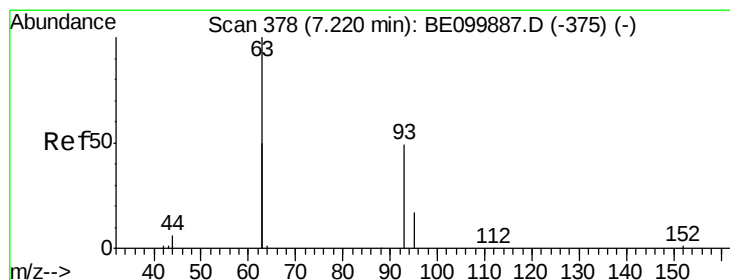
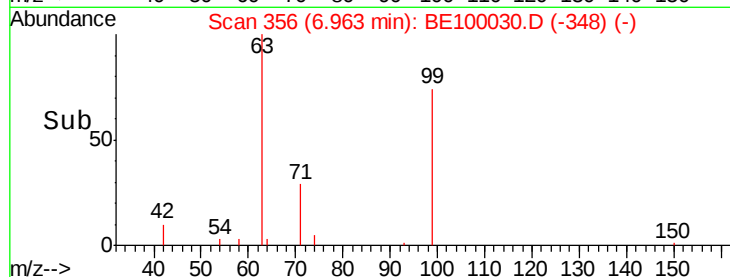
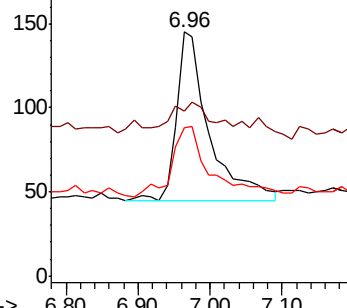
99 100

42 17.3 15.9 23.9

71 51.1 34.6 52.0



Abundance Ion 99.00 (98.70 to 99.70): BE1  
Ion 42.00 (41.70 to 42.70): BE1  
Ion 71.00 (70.70 to 71.70): BE1



#6

bis(2-Chloroethyl)ether

Concen: 0.301 ng

RT: 7.22 min Scan# 378

Delta R.T. -0.00 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

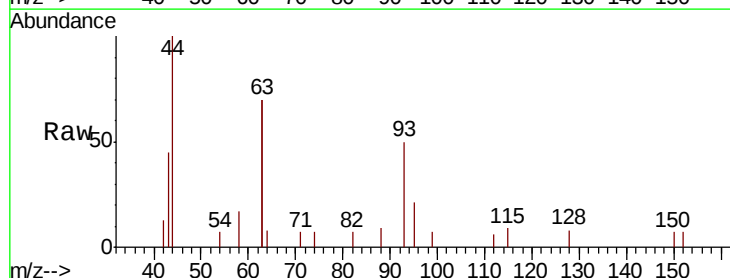
Tgt Ion: 93 Resp: 702

Ion Ratio Lower Upper

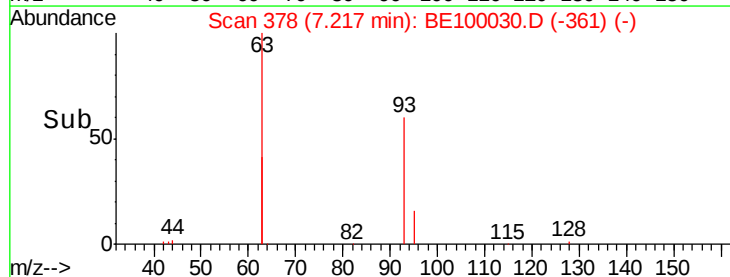
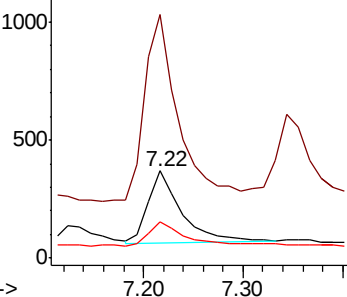
93 100

63 268.8 202.8 304.2

95 35.6 23.7 35.5#



Abundance Ion 93.00 (92.70 to 93.70): BE1  
Ion 63.00 (62.70 to 63.70): BE1  
Ion 95.00 (94.70 to 95.70): BE1





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.59 min Scan# 648

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

GW-02MS

Tgt Ion: 136 Resp: 2980

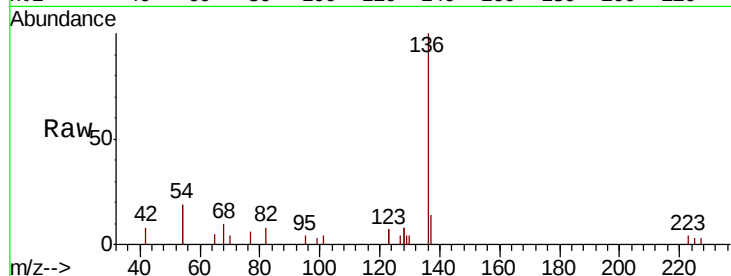
Ion Ratio Lower Upper

136 100

137 13.7 12.3 18.5

54 38.2 28.2 42.4

68 9.7 7.8 11.8

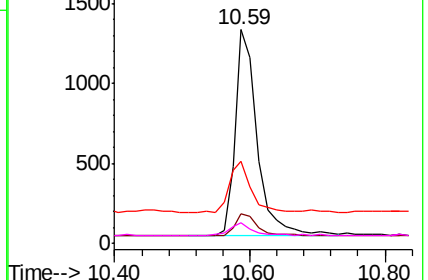
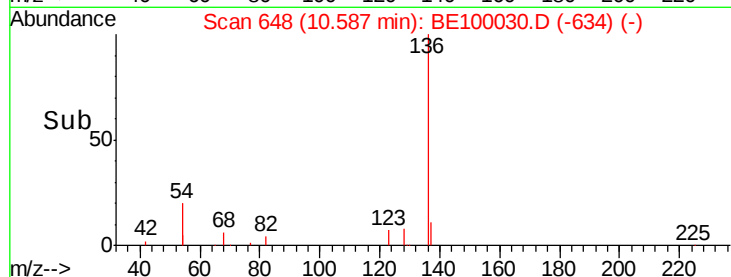


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1



#8

Nitrobenzene-d5

Concen: 0.384 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

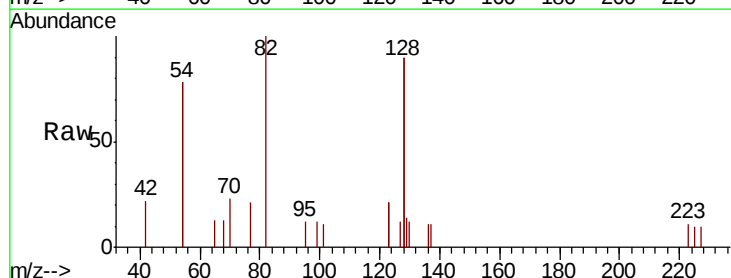
Tgt Ion: 82 Resp: 1084

Ion Ratio Lower Upper

82 100

128 180.4 137.3 205.9

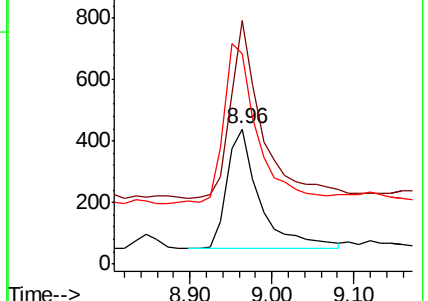
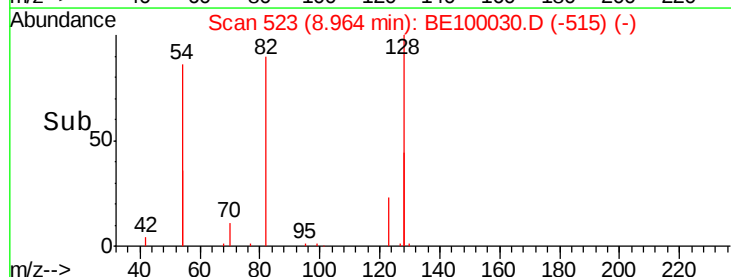
54 155.8 129.7 194.5

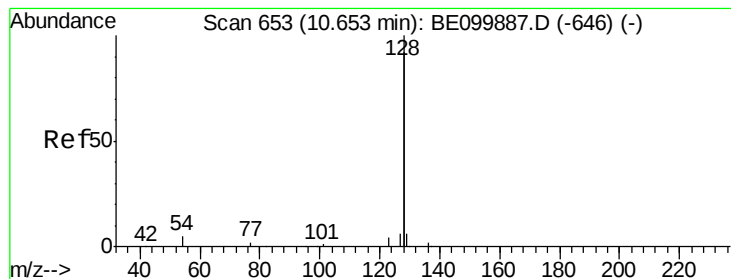


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1





#9

Naphthalene

Concen: 0.366 ng

RT: 10.64 min Scan# 652

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

Instrument :

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ClientSampleId :

GW-02MS

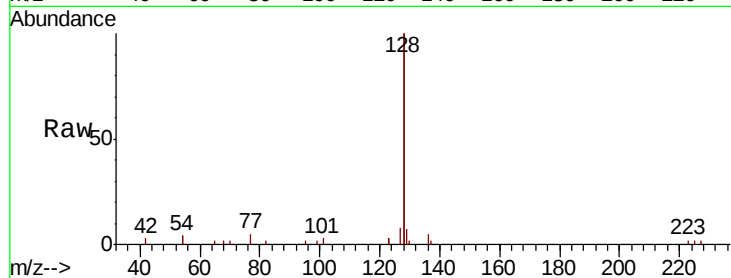
Tgt Ion:128 Resp: 11775

Ion Ratio Lower Upper

128 100

129 3.5 3.0 4.6

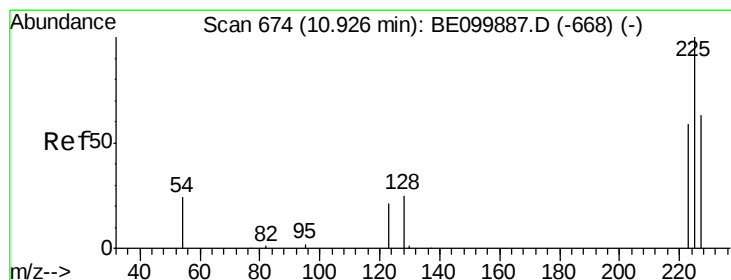
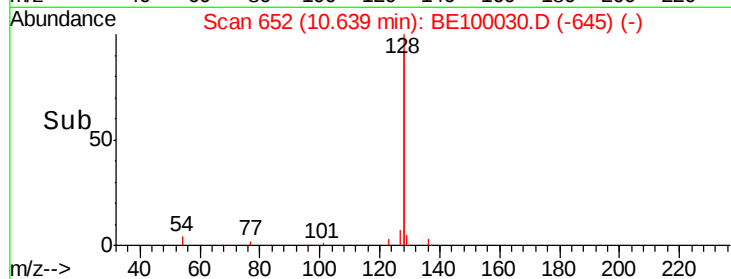
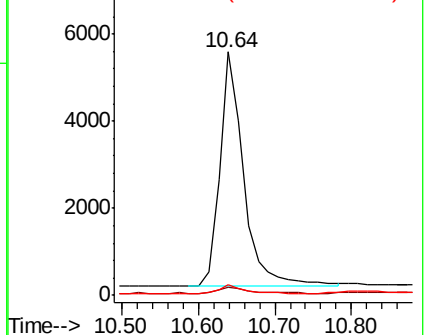
127 4.2 3.4 5.0



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: 0.333 ng

RT: 10.91 min Scan# 673

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

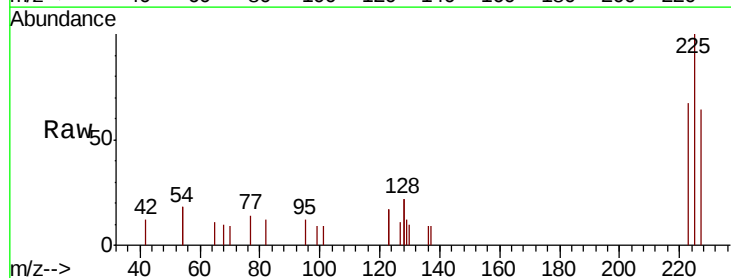
Tgt Ion:225 Resp: 818

Ion Ratio Lower Upper

225 100

223 63.7 51.6 77.4

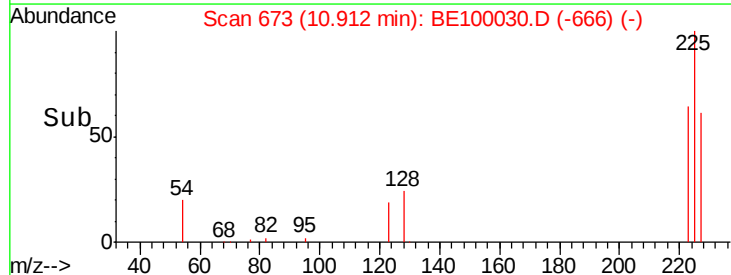
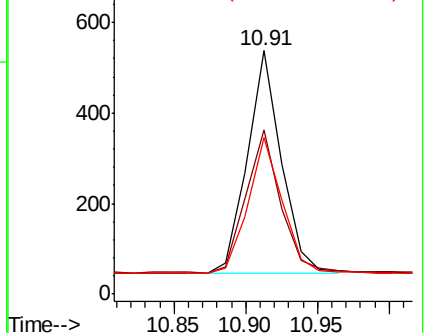
227 61.5 50.6 76.0



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: 0.531 ng

RT: 12.20 min Scan# 762

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

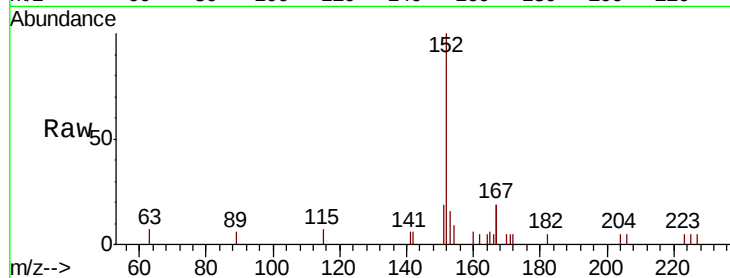
GW-02MS

Tgt Ion:152 Resp: 2759

Ion Ratio Lower Upper

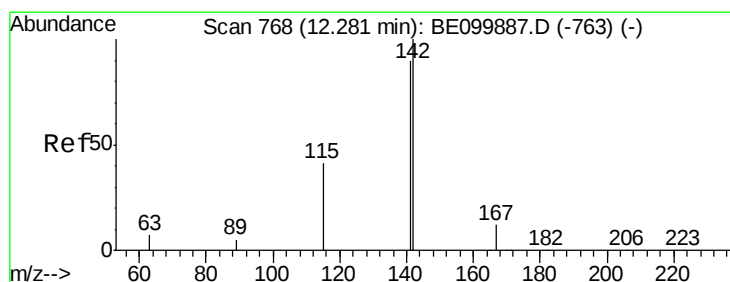
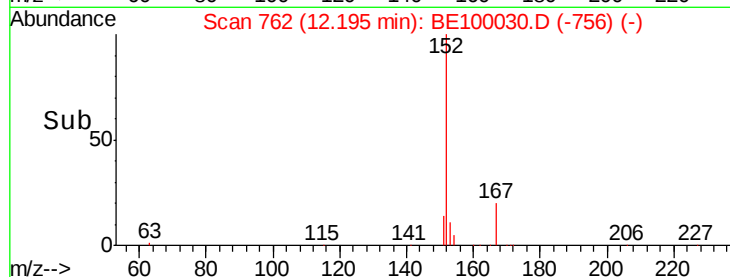
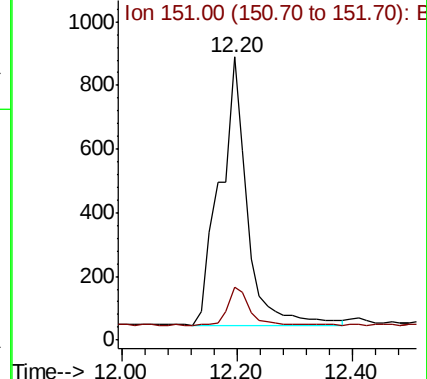
152 100

151 11.6 15.2 22.8#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.356 ng

RT: 12.27 min Scan# 767

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

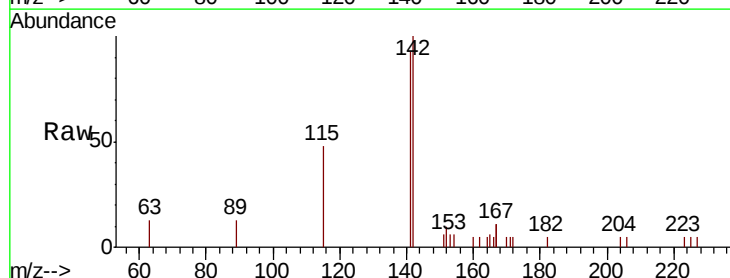
Tgt Ion:142 Resp: 1859

Ion Ratio Lower Upper

142 100

141 92.9 72.3 108.5

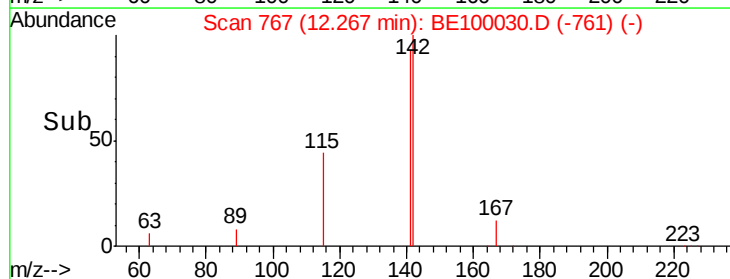
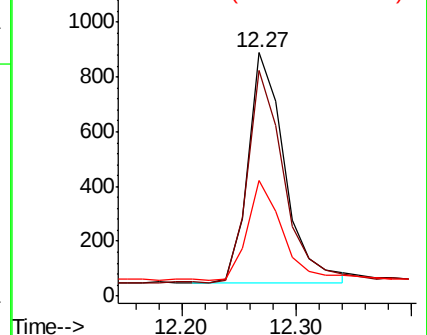
115 47.7 36.4 54.6

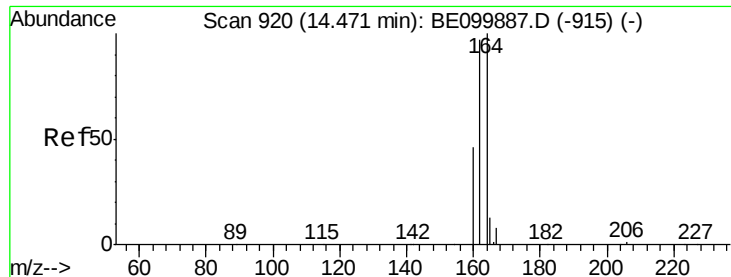


Abundance Ion 142.00 (141.70 to 142.70): E

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: 14.46 min Scan# 919

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

GW-02MS

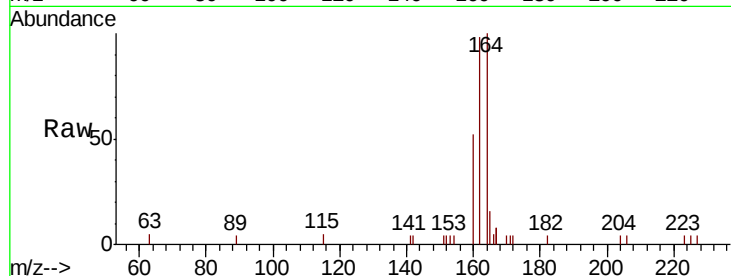
Tgt Ion:164 Resp: 2302

Ion Ratio Lower Upper

164 100

162 98.0 77.8 116.8

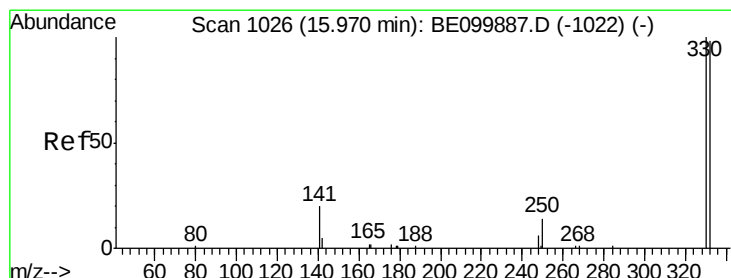
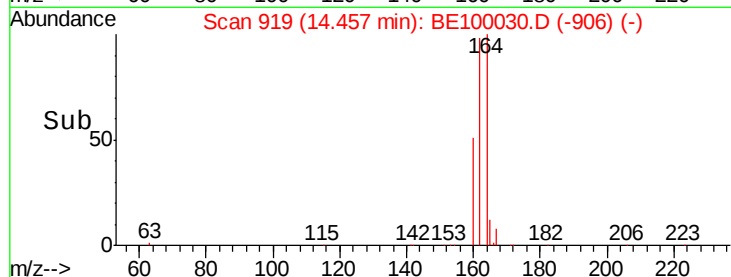
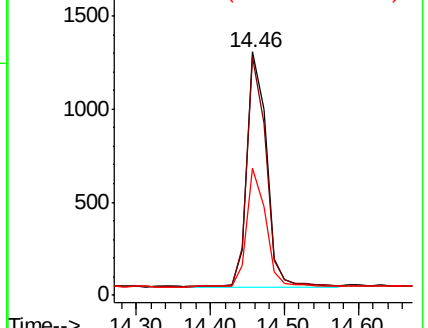
160 52.3 38.2 57.4



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: 0.353 ng

RT: 15.96 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

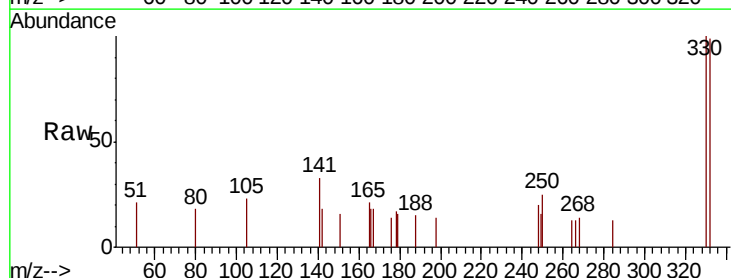
Tgt Ion:330 Resp: 600

Ion Ratio Lower Upper

330 100

332 96.8 76.7 115.1

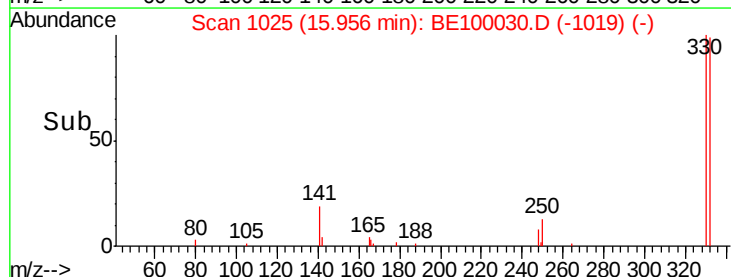
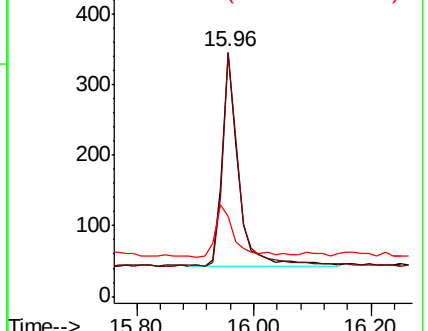
141 28.5 21.0 31.6

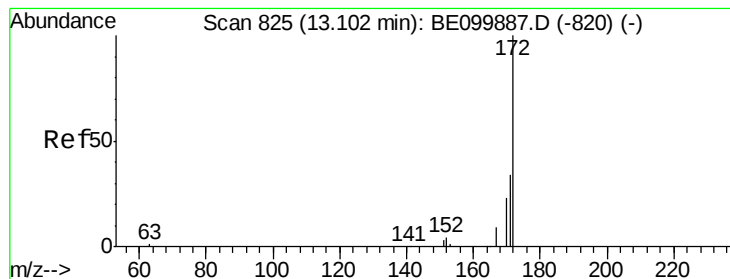


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.393 ng

RT: 13.09 min Scan# 824

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

GW-02MS

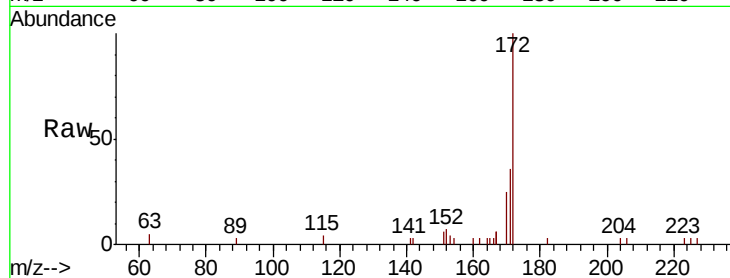
Tgt Ion:172 Resp: 3433

Ion Ratio Lower Upper

172 100

171 35.8 29.2 43.8

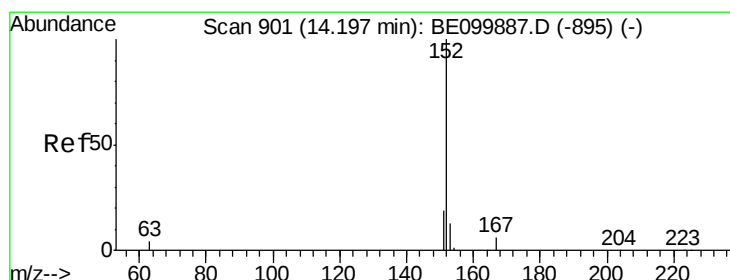
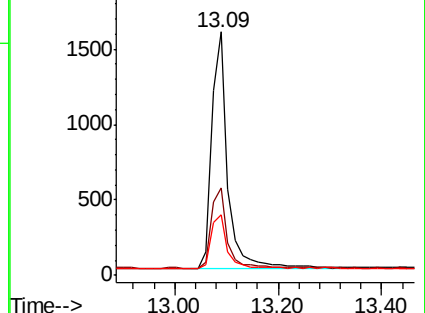
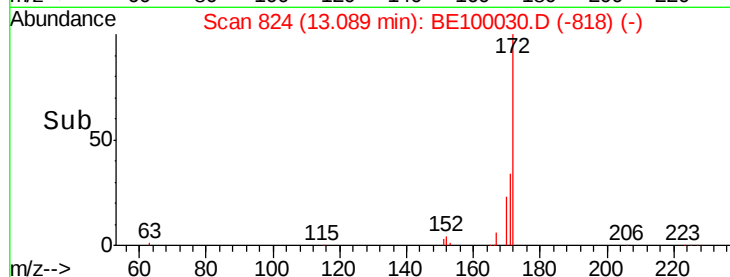
170 24.9 21.2 31.8



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: 0.333 ng

RT: 14.18 min Scan# 900

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

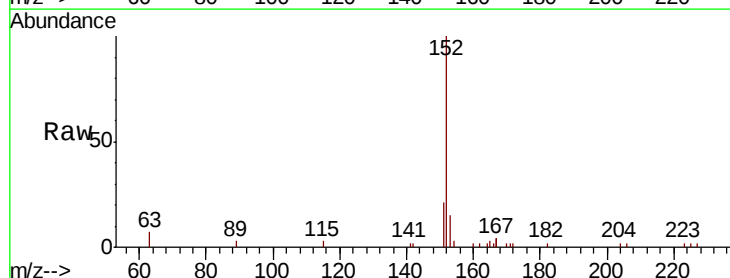
Tgt Ion:152 Resp: 3815

Ion Ratio Lower Upper

152 100

151 19.5 15.5 23.3

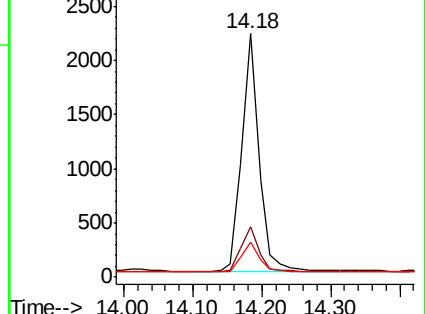
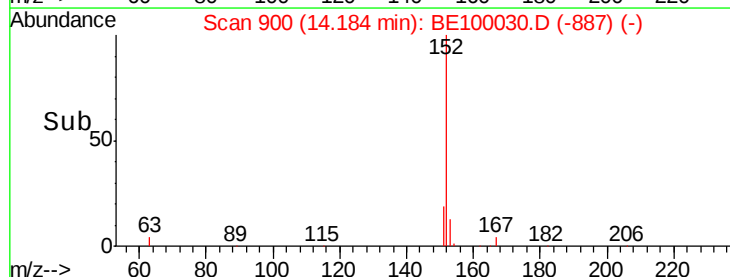
153 13.6 10.2 15.2



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

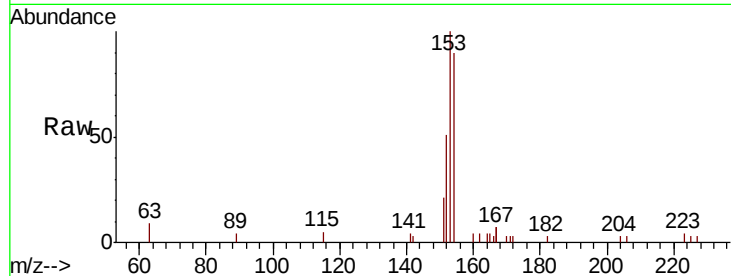




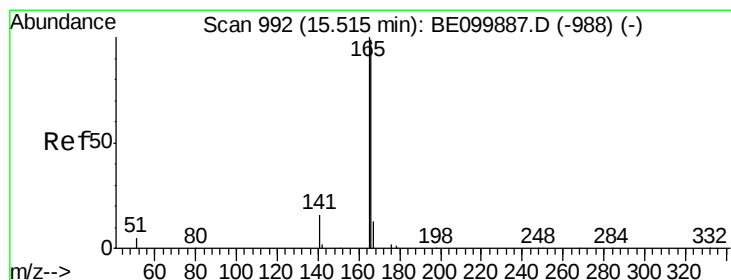
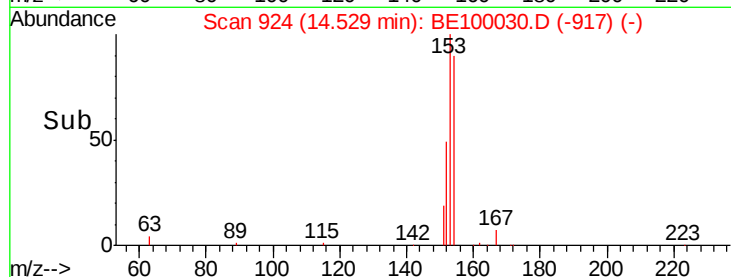
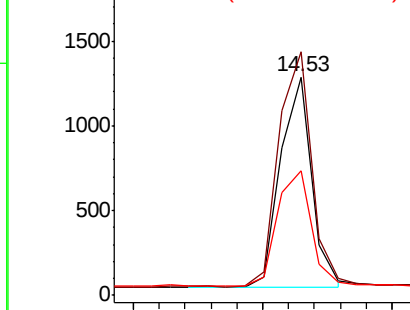
#17  
Acenaphthene  
Concen: 0.336 ng  
RT: 14.53 min Scan# 924  
Delta R.T. 0.00 min  
Lab File: BE100030.D  
Acq: 14 Jun 2019 19:20

Instrument :  
BNA\_E  
ClientSampleId :  
GW-02MS

Tgt Ion:154 Resp: 2094  
Ion Ratio Lower Upper  
154 100  
153 118.0 93.1 139.7  
152 58.9 47.0 70.4

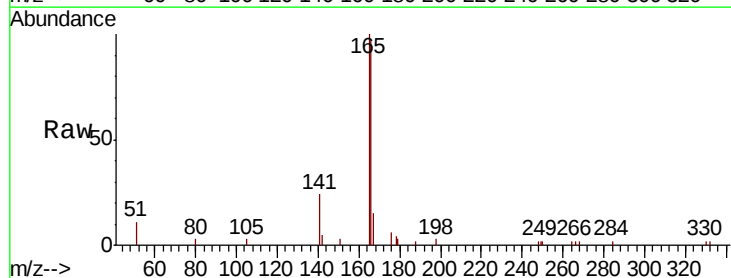


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

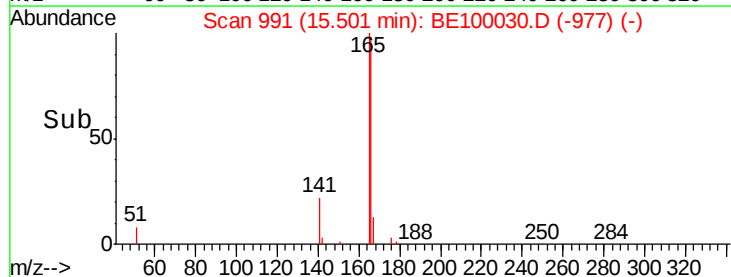
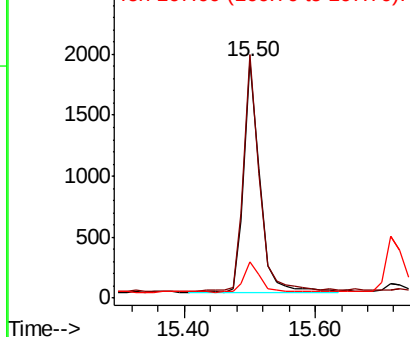


#18  
Fluorene  
Concen: 0.342 ng  
RT: 15.50 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: BE100030.D  
Acq: 14 Jun 2019 19:20

Tgt Ion:166 Resp: 3206  
Ion Ratio Lower Upper  
166 100  
165 102.3 81.8 122.8  
167 13.3 11.2 16.8



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: 17.21 min Scan# 1119

Delta R.T. -0.00 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

GW-02MS

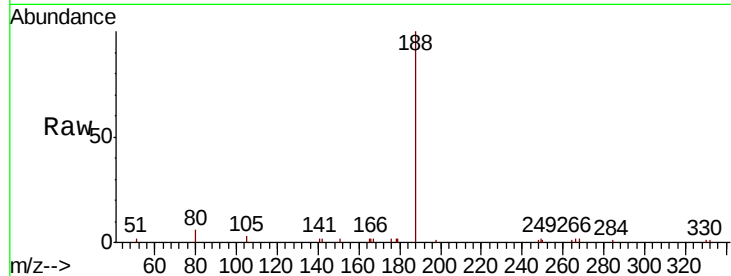
Tgt Ion:188 Resp: 7412

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

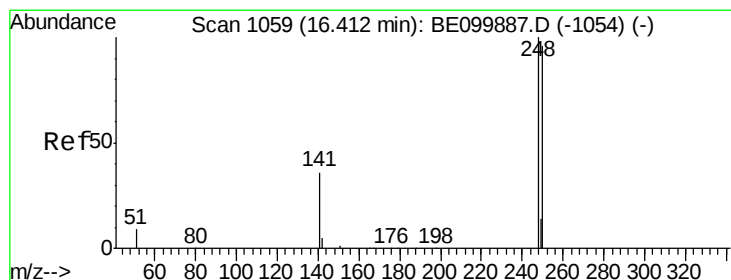
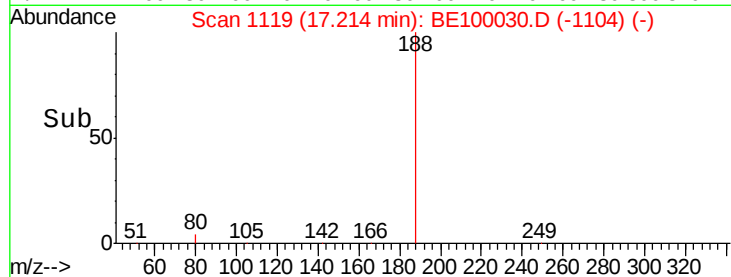
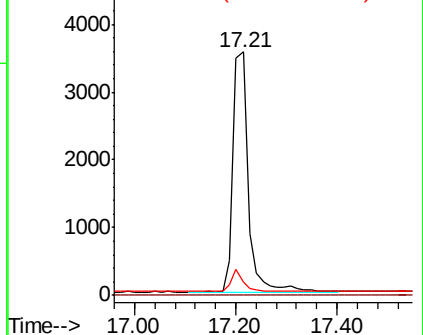
80 5.5 6.4 9.6#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1



#20

4-Bromophenyl-phenylether

Concen: 0.351 ng

RT: 16.40 min Scan# 1058

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

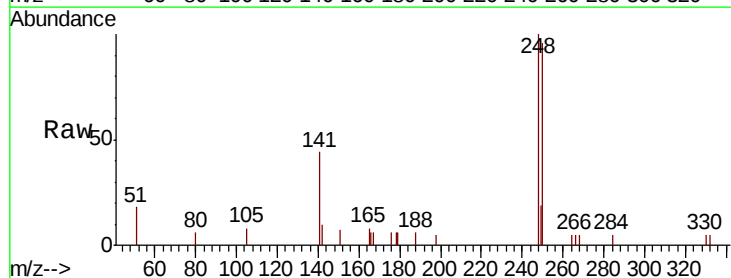
Tgt Ion:248 Resp: 1474

Ion Ratio Lower Upper

248 100

250 95.9 77.5 116.3

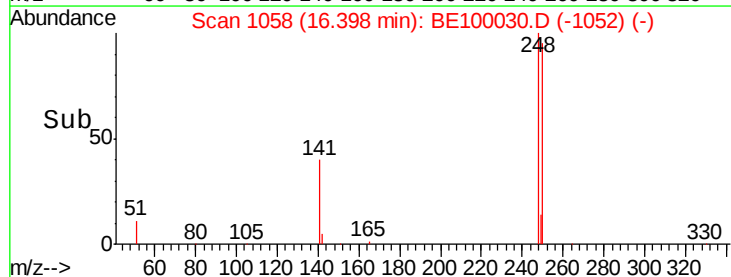
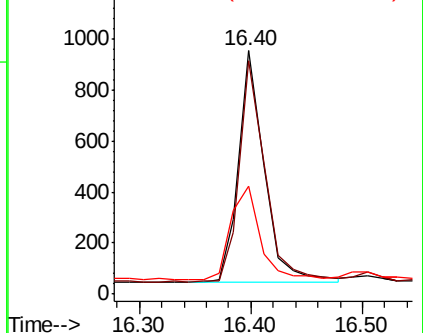
141 44.3 31.8 47.8

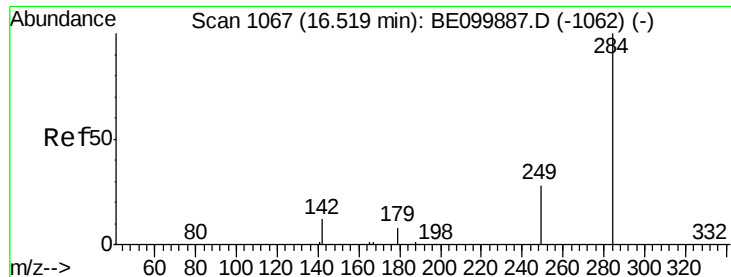


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.335 ng

RT: 16.50 min Scan# 1066

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

GW-02MS

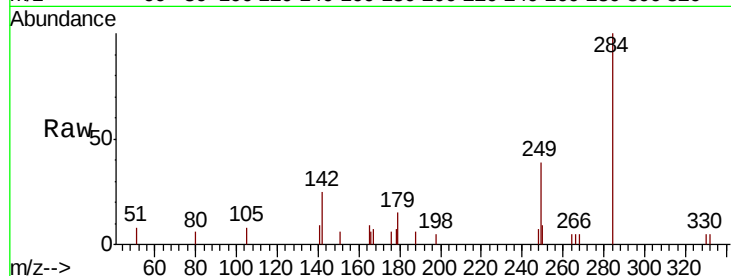
Tgt Ion:284 Resp: 1438

Ion Ratio Lower Upper

284 100

142 23.2 18.2 27.4

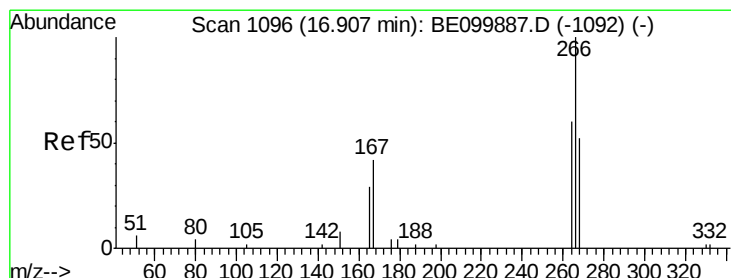
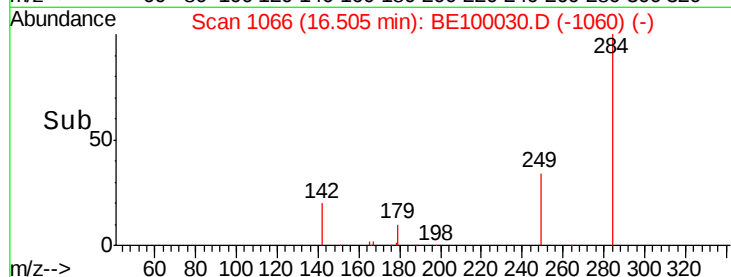
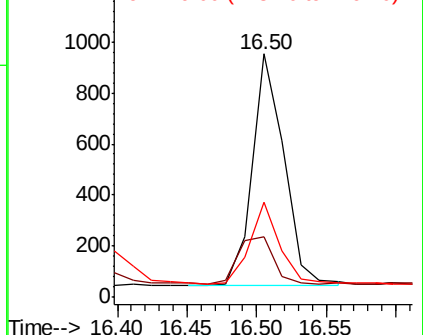
249 32.9 24.6 37.0



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: 0.977 ng

RT: 16.87 min Scan# 1093

Delta R.T. -0.04 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

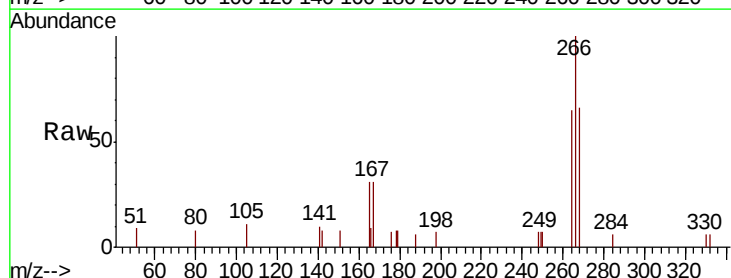
Tgt Ion:266 Resp: 1399

Ion Ratio Lower Upper

266 100

264 64.7 62.2 93.2

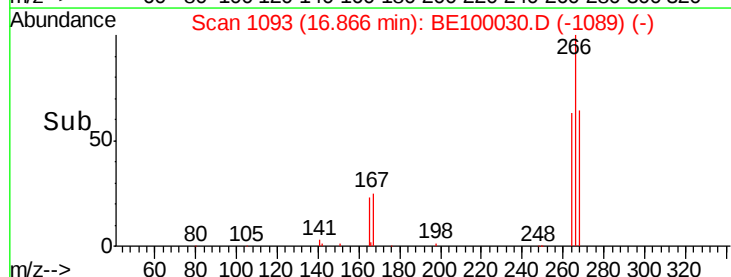
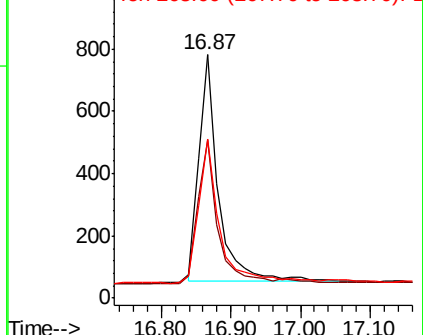
268 65.6 65.5 98.3

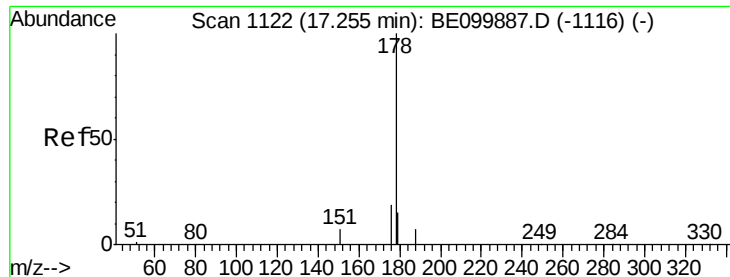


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.346 ng

RT: 17.25 min Scan# 1122

Delta R.T. -0.00 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

GW-02MS

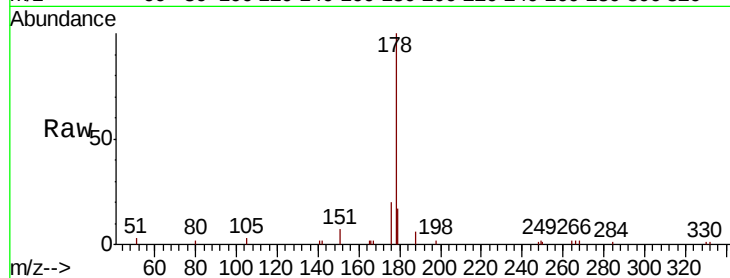
Tgt Ion:178 Resp: 6214

Ion Ratio Lower Upper

178 100

176 19.4 15.8 23.8

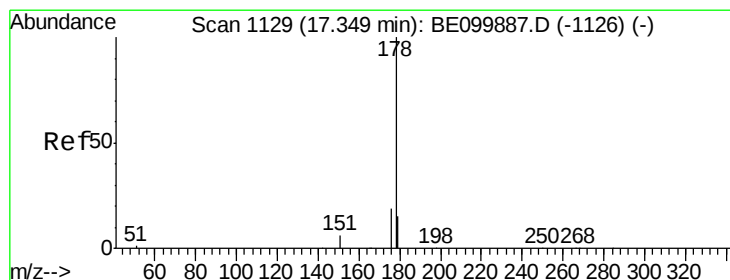
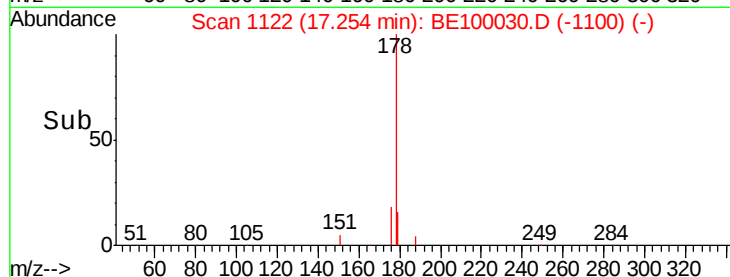
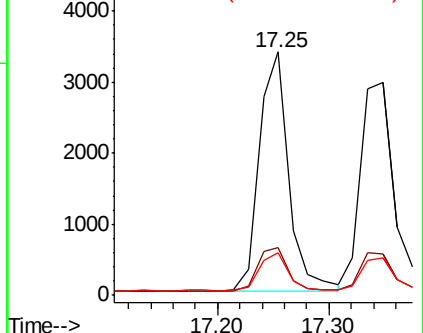
179 15.5 12.4 18.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.360 ng

RT: 17.35 min Scan# 1129

Delta R.T. -0.00 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

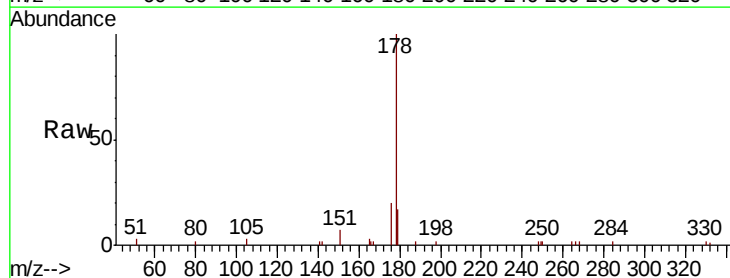
Tgt Ion:178 Resp: 5933

Ion Ratio Lower Upper

178 100

176 18.6 14.6 22.0

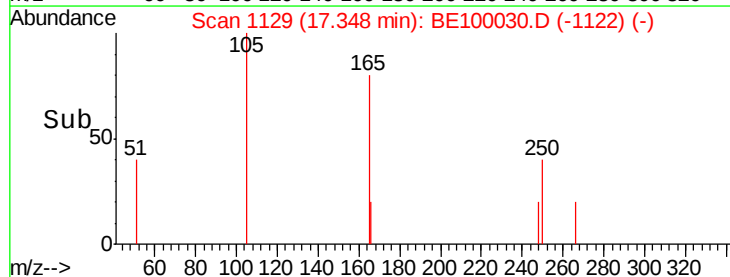
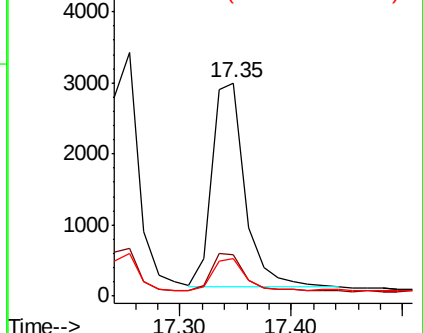
179 15.4 12.3 18.5

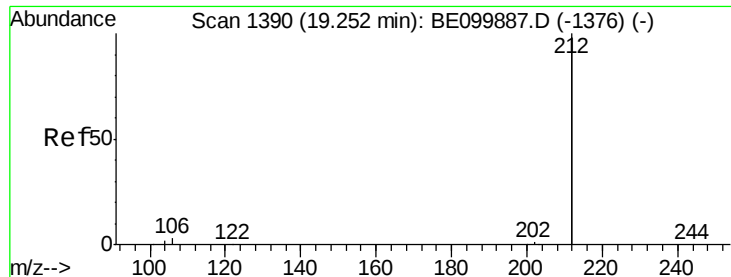


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.320 ng

RT: 19.24 min Scan# 1388

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

GW-02MS

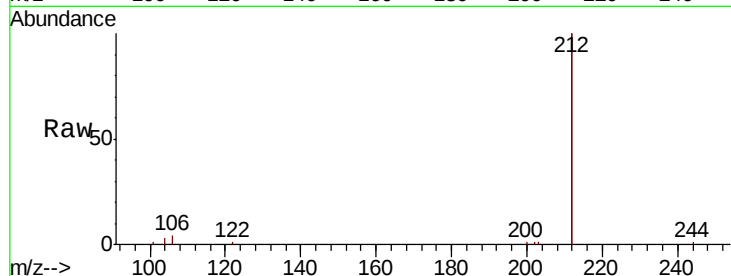
Tgt Ion:212 Resp: 34608

Ion Ratio Lower Upper

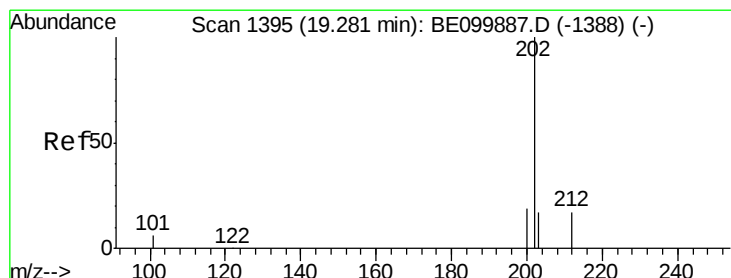
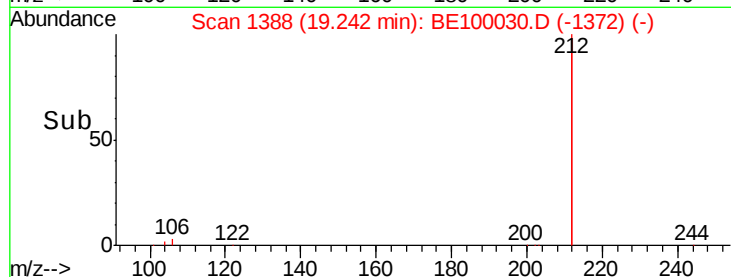
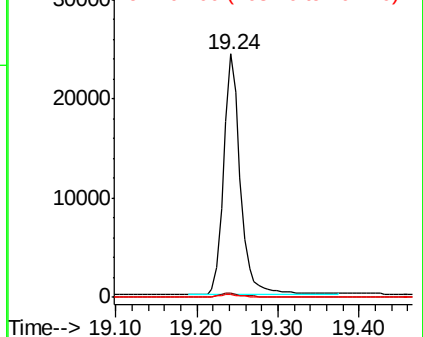
212 100

106 1.8 1.4 2.2

104 1.0 0.9 1.3



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: 0.337 ng

RT: 19.27 min Scan# 1393

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

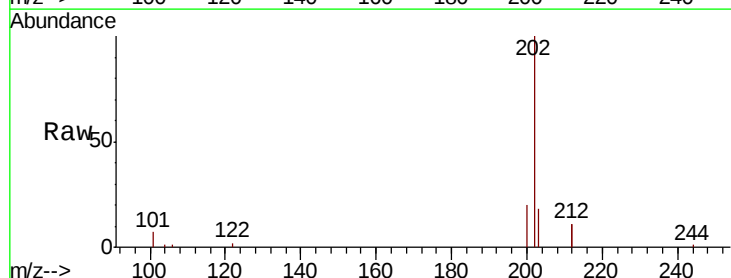
Tgt Ion:202 Resp: 10298

Ion Ratio Lower Upper

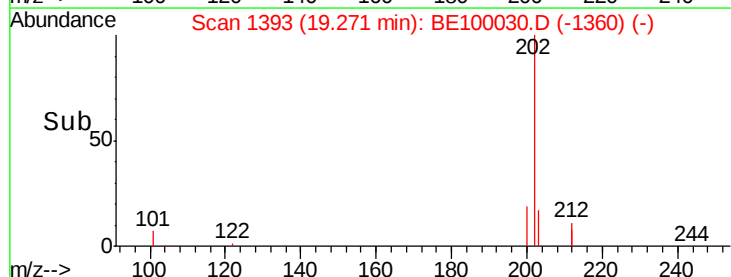
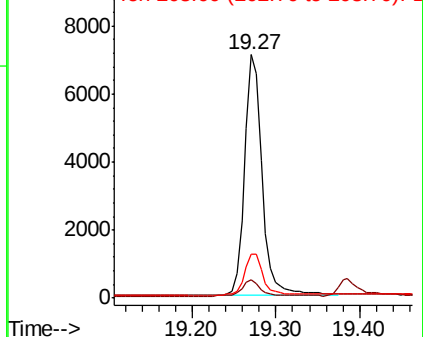
202 100

101 7.2 5.4 8.0

203 17.4 13.2 19.8



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

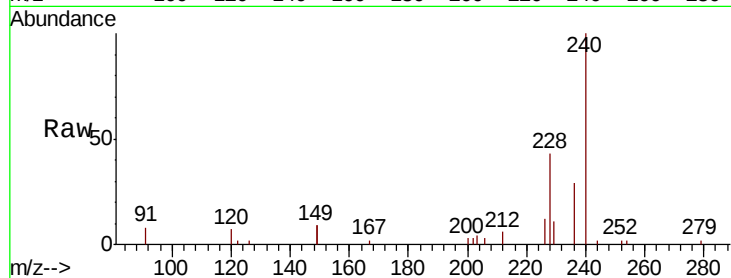




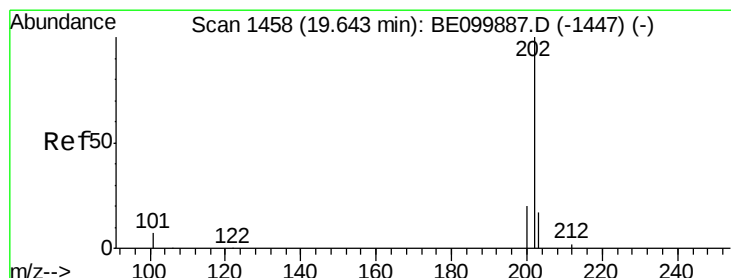
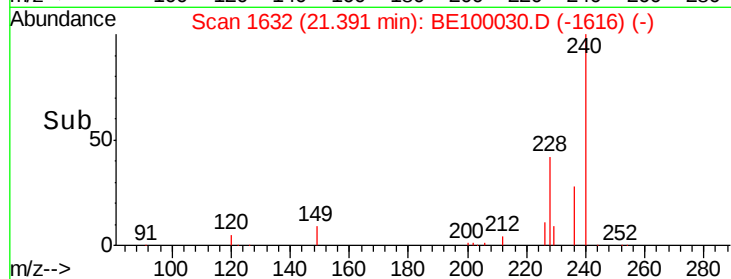
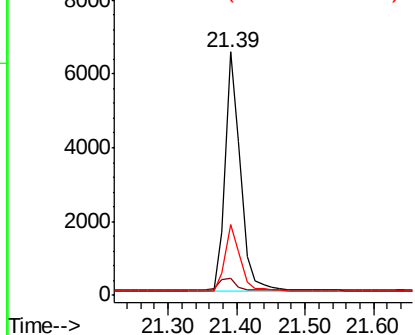
#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.39 min Scan# 1632  
 Delta R.T. -0.01 min  
 Lab File: BE100030.D  
 Acq: 14 Jun 2019 19:20

Instrument :  
 BNA\_E  
 ClientSampleId :  
 GW-02MS

Tgt Ion:240 Resp: 10248  
 Ion Ratio Lower Upper  
 240 100  
 120 6.7 3.8 5.6#  
 236 29.0 22.0 33.0

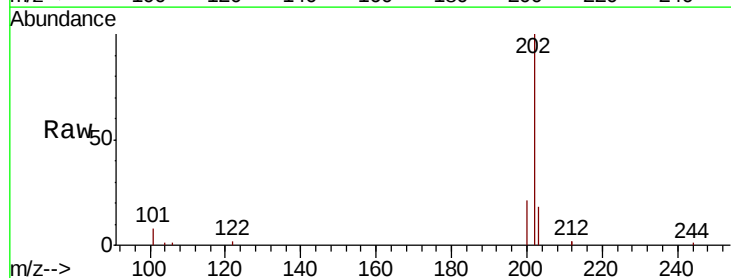


Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E

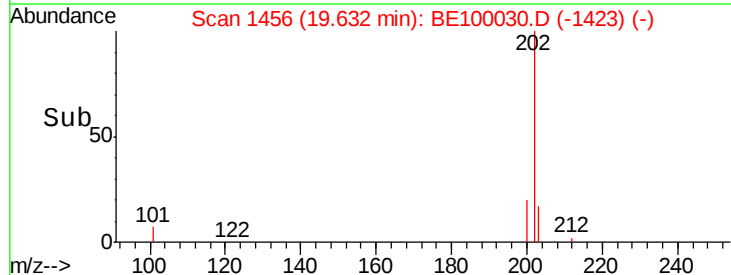
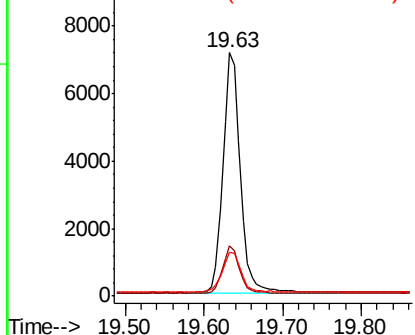


#28  
 Pyrene  
 Concen: 0.404 ng  
 RT: 19.63 min Scan# 1456  
 Delta R.T. -0.01 min  
 Lab File: BE100030.D  
 Acq: 14 Jun 2019 19:20

Tgt Ion:202 Resp: 10882  
 Ion Ratio Lower Upper  
 202 100  
 200 19.5 15.5 23.3  
 203 18.1 14.0 21.0



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: 0.562 ng

RT: 19.84 min Scan# 1492

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

GW-02MS

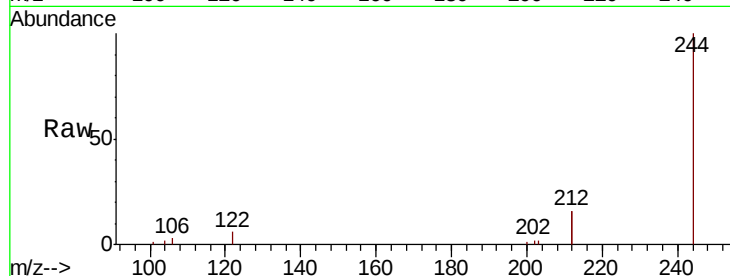
Tgt Ion:244 Resp: 10363

Ion Ratio Lower Upper

244 100

212 32.6 25.7 38.5

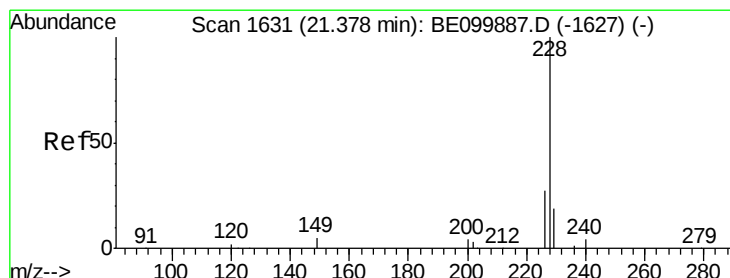
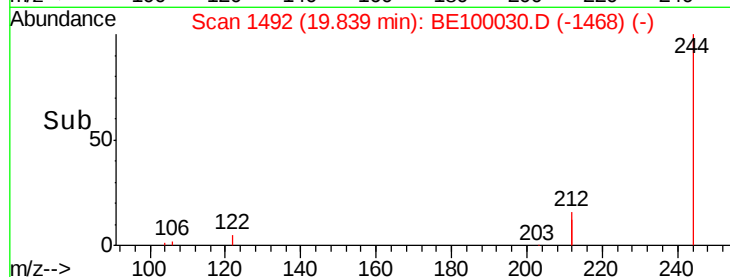
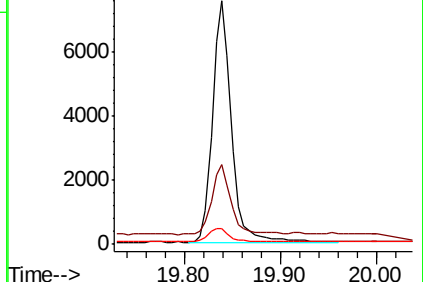
122 6.4 5.5 8.3



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: 0.392 ng

RT: 21.38 min Scan# 1631

Delta R.T. 0.00 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

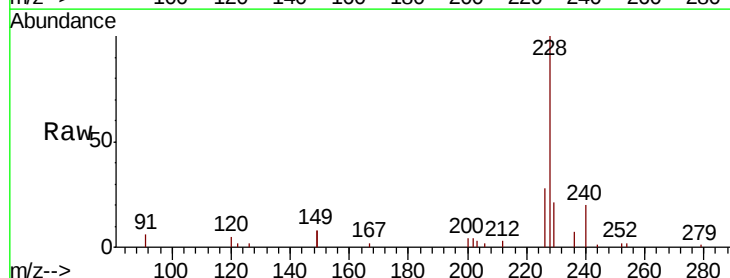
Tgt Ion:228 Resp: 12010

Ion Ratio Lower Upper

228 100

226 27.6 22.5 33.7

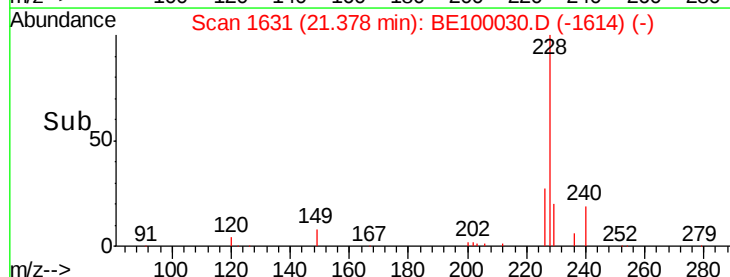
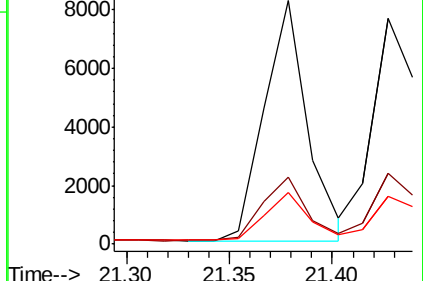
229 21.3 15.9 23.9



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





#31

Chrysene

Concen: 0.386 ng

RT: 21.43 min Scan# 1635

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

GW-02MS

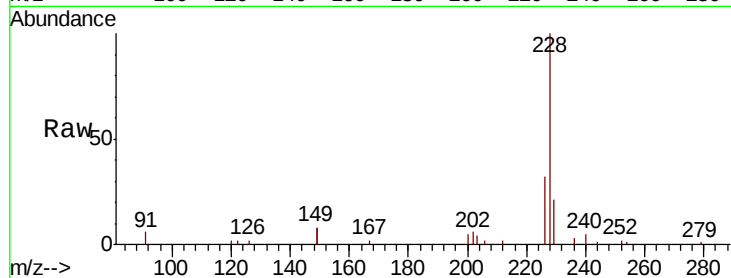
Tgt Ion: 228 Resp: 12219

Ion Ratio Lower Upper

228 100

226 31.6 24.1 36.1

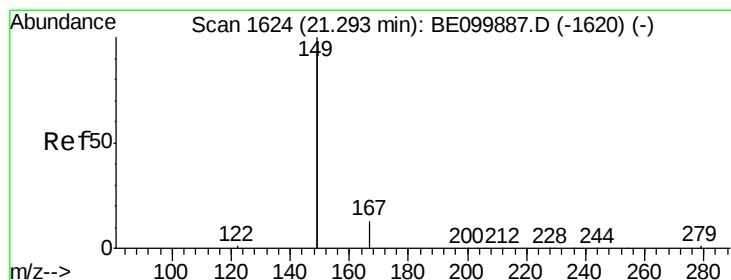
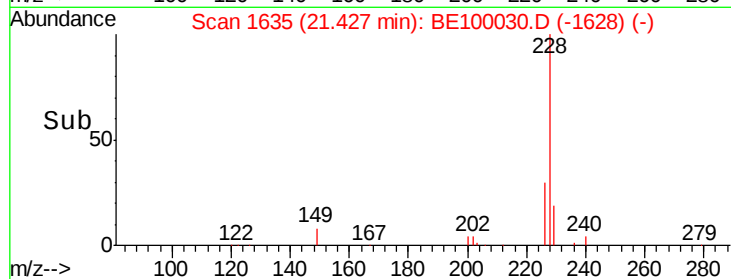
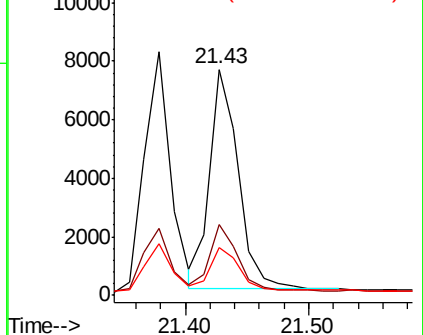
229 21.0 16.1 24.1



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: 0.446 ng

RT: 21.29 min Scan# 1624

Delta R.T. 0.00 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

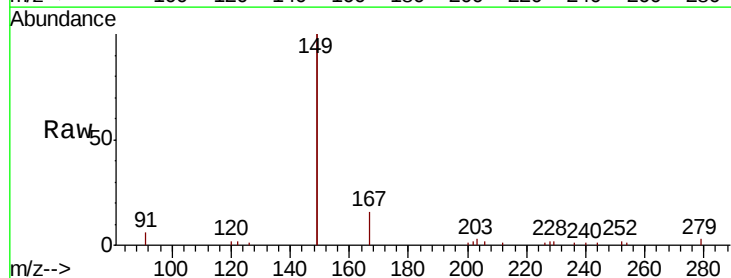
Tgt Ion: 149 Resp: 19584

Ion Ratio Lower Upper

149 100

167 7.4 5.9 8.9

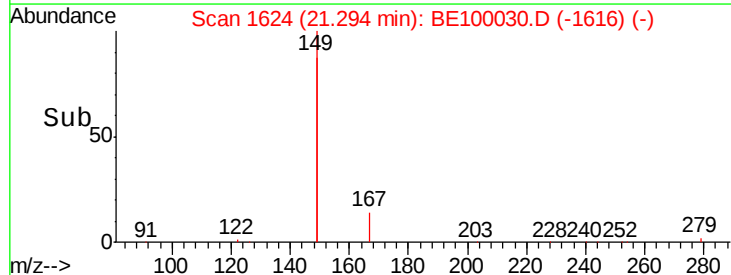
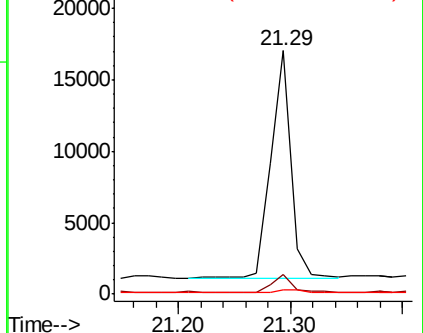
279 1.5 1.2 1.8

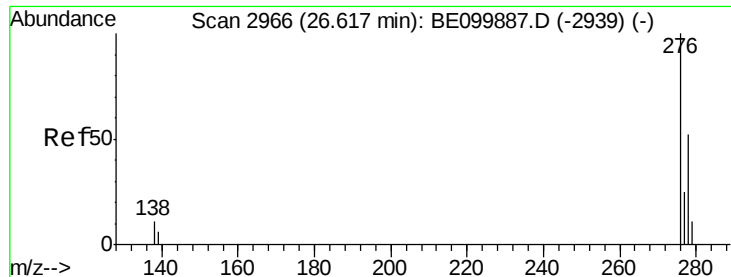


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.350 ng

RT: 26.60 min Scan# 2961

Delta R.T. -0.02 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

GW-02MS

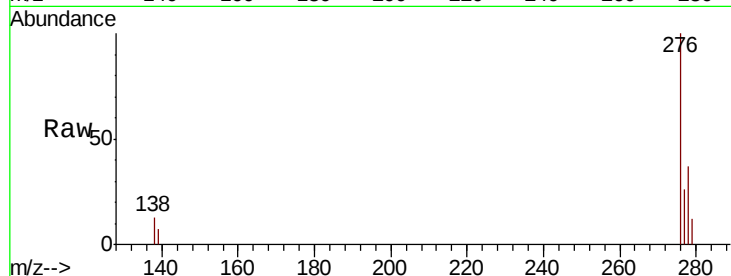
Tgt Ion:276 Resp: 13151

Ion Ratio Lower Upper

276 100

138 11.4 10.1 15.1

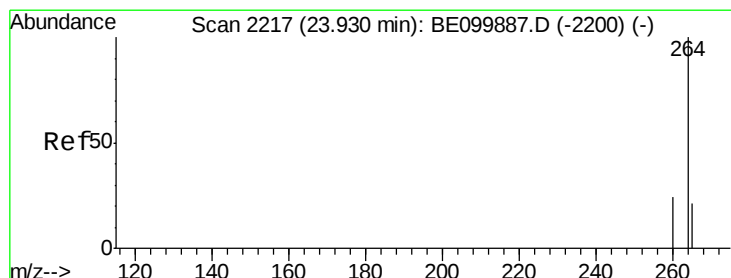
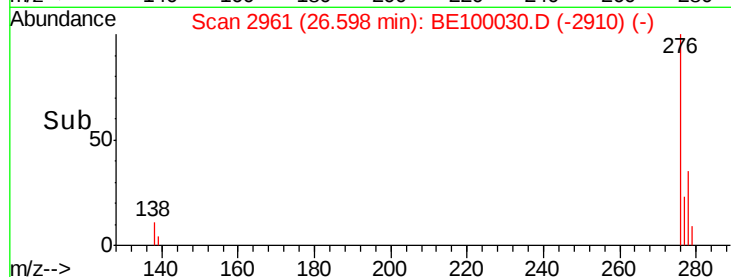
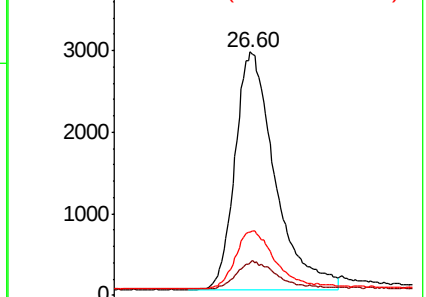
277 24.8 19.1 28.7



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: 23.92 min Scan# 2214

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

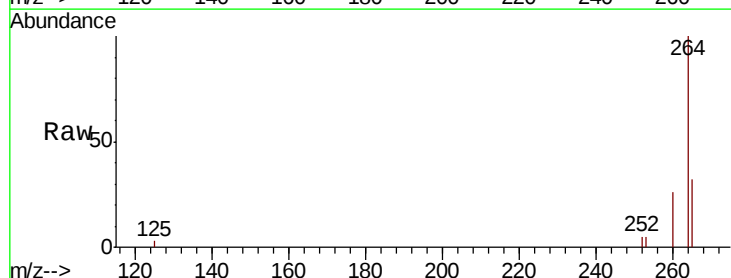
Tgt Ion:264 Resp: 11672

Ion Ratio Lower Upper

264 100

260 25.8 20.2 30.2

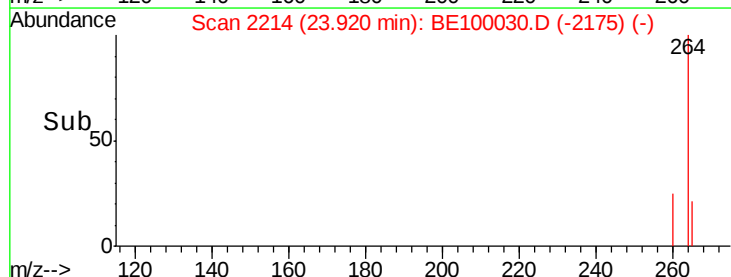
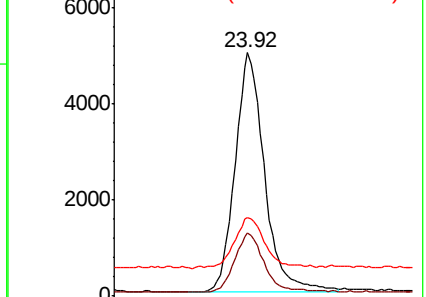
265 32.4 22.0 33.0



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: 0.385 ng

RT: 23.19 min Scan# 2009

Delta R.T. 0.04 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

GW-02MS

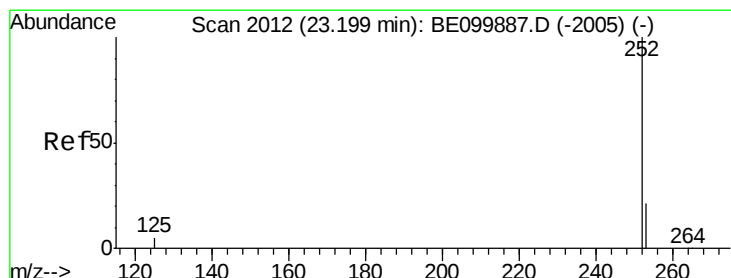
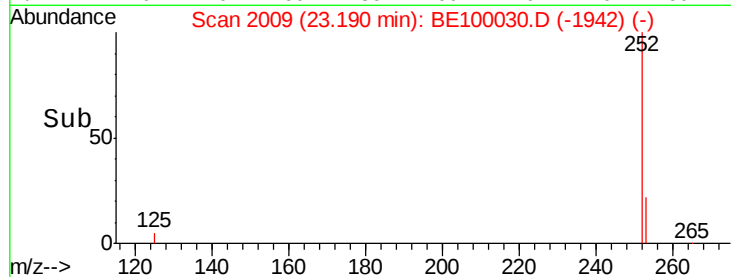
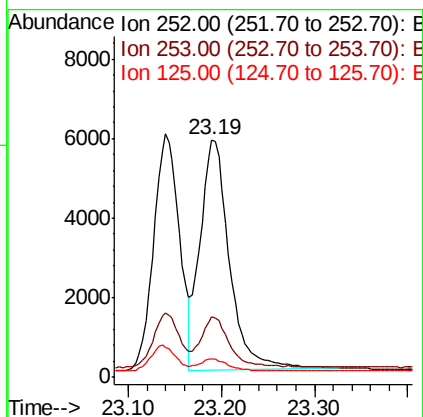
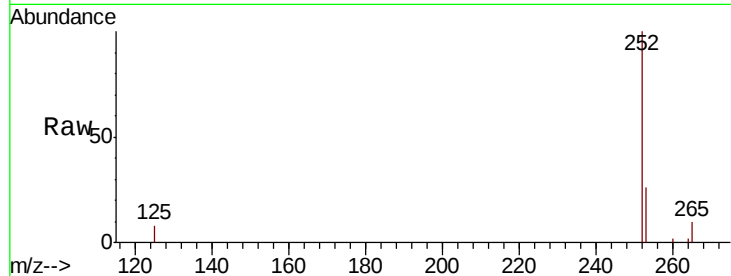
Tgt Ion:252 Resp: 12603

Ion Ratio Lower Upper

252 100

253 25.6 18.7 28.1

125 8.0 5.7 8.5



#36

Benzo(k)fluoranthene

Concen: 0.368 ng

RT: 23.19 min Scan# 2009

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

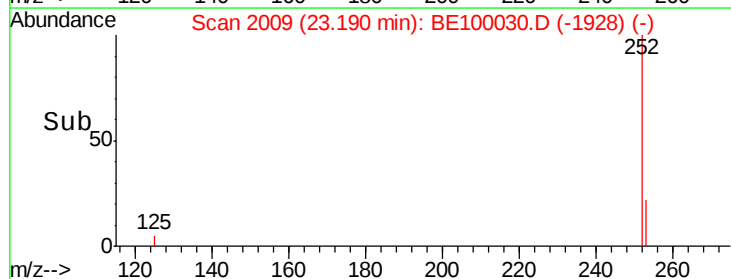
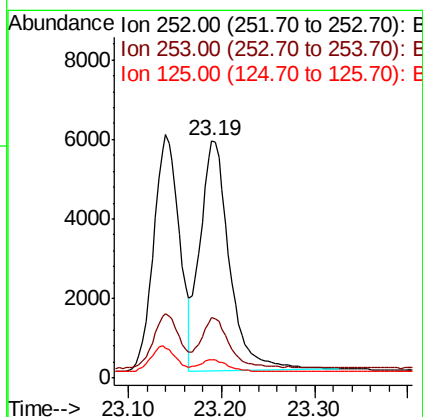
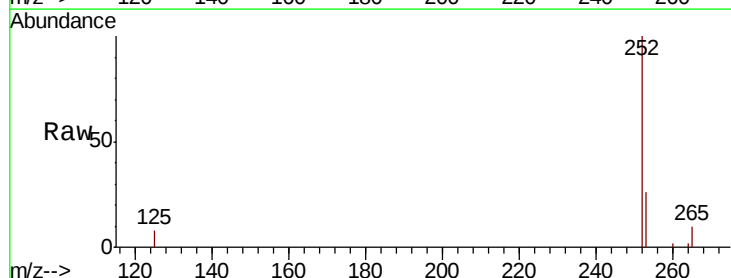
Tgt Ion:252 Resp: 12603

Ion Ratio Lower Upper

252 100

253 25.6 18.6 28.0

125 8.0 5.4 8.0





#37

Benzo(a)pyrene

Concen: 0.363 ng

RT: 23.81 min Scan# 2182

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

GW-02MS

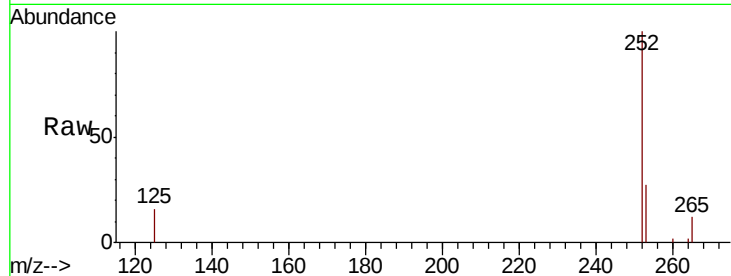
Tgt Ion: 252 Resp: 11709

Ion Ratio Lower Upper

252 100

253 27.0 19.6 29.4

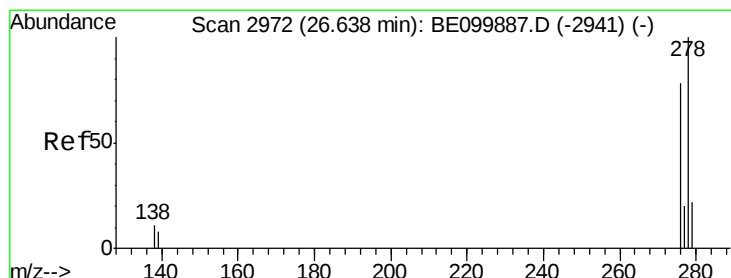
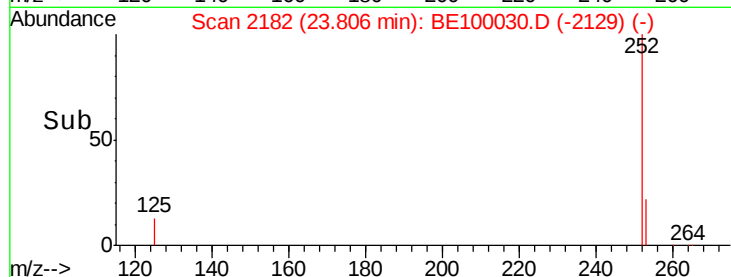
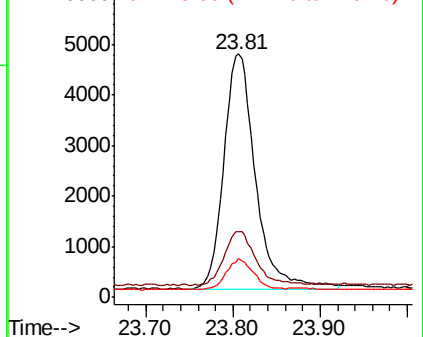
125 15.8 6.6 10.0#



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: 0.325 ng

RT: 26.63 min Scan# 2969

Delta R.T. -0.01 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

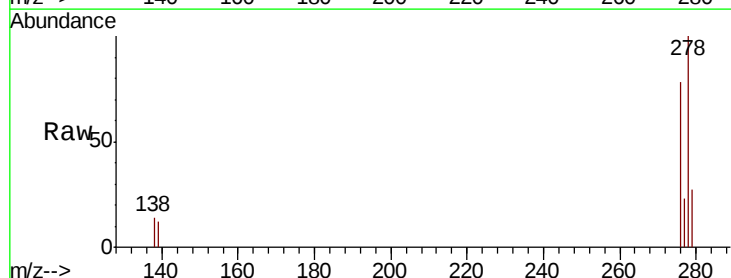
Tgt Ion: 278 Resp: 10540

Ion Ratio Lower Upper

278 100

139 12.3 7.8 11.8#

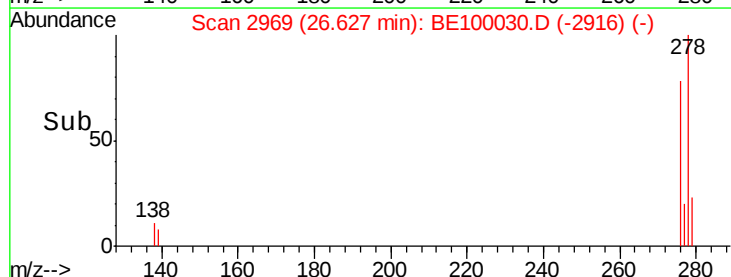
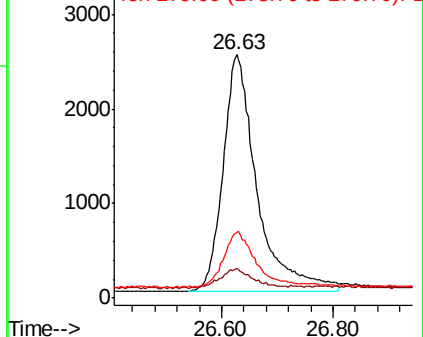
279 27.1 20.0 30.0



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(g,h,i)perylene

Concen: 0.337 ng

RT: 27.43 min Scan# 3194

Delta R.T. -0.00 min

Lab File: BE100030.D

Acq: 14 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

GW-02MS

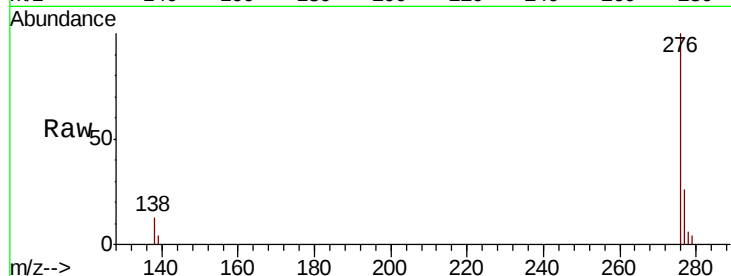
Tgt Ion: 276 Resp: 11291

Ion Ratio Lower Upper

276 100

277 25.9 19.5 29.3

138 12.8 9.5 14.3



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

