

Data Path : Z:\HPCHEM1\BNA G\Data\BG060916\RAW\  
 Data File : BG022263.D  
 Acq On : 9 Jun 2016 11:14  
 Operator : UM/SJ  
 Sample : H3402-10 2X  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SS-44

Quant Time: Jun 09 13:48:21 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG060616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 06 16:12:45 2016  
 Response via : Initial Calibration

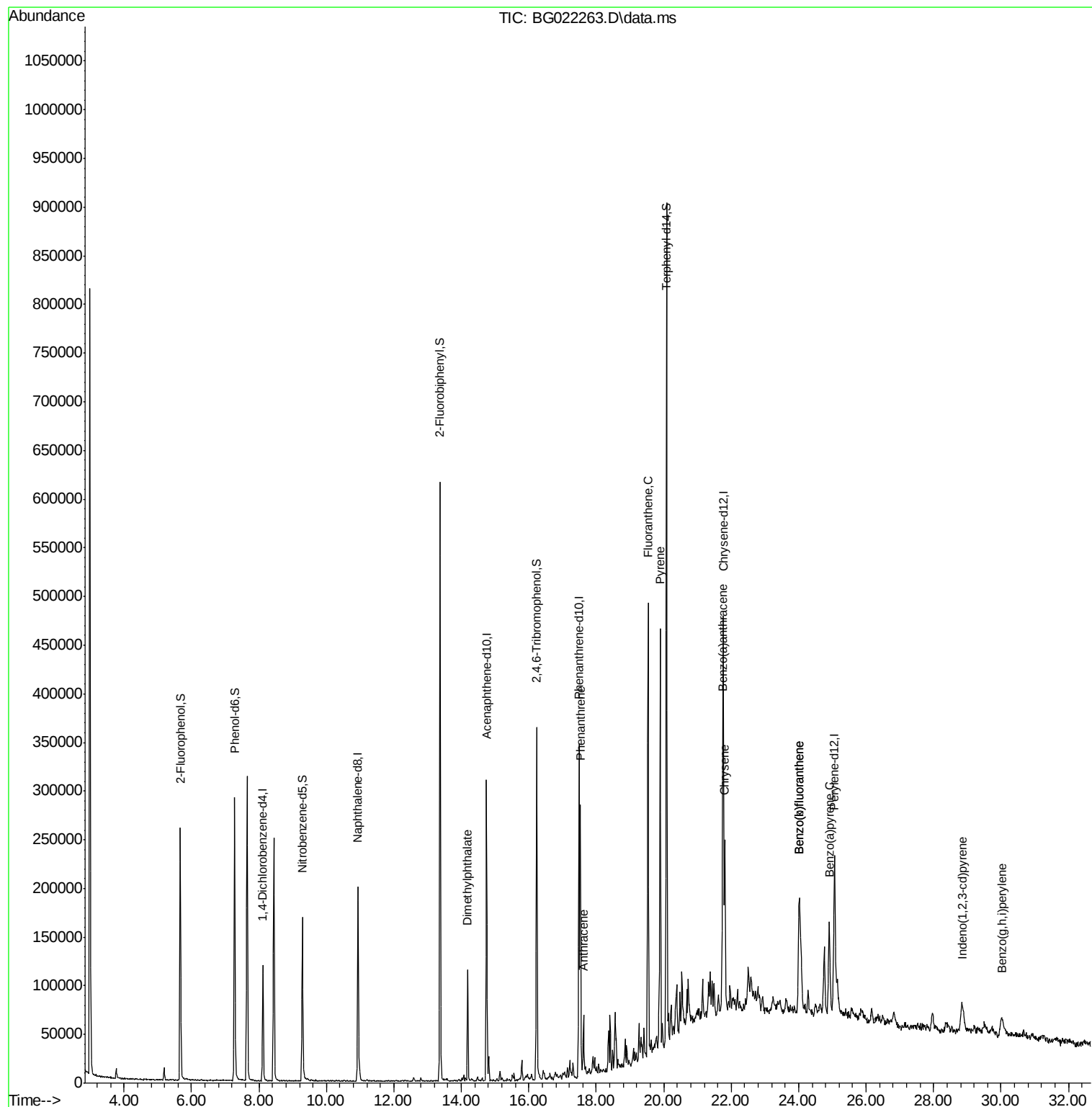
| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.114  | 152  | 43911    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.934 | 136  | 220081   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.742 | 164  | 123870   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.491 | 188  | 239408   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 21.763 | 240  | 205602   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 25.059 | 264  | 196565   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.664  | 112  | 175005   | 77.06 | ng    | 0.00     |
| 7) Phenol-d6                | 7.274  | 99   | 263490   | 73.79 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.289  | 82   | 138303   | 43.81 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.234 | 330  | 82415    | 58.88 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.367 | 172  | 380445   | 46.81 | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.083 | 244  | 392461   | 45.32 | ng    | 0.00     |
| Target Compounds            |        |      |          |       |       |          |
|                             |        |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate       | 14.184 | 163  | 97177    | 9.46  | ng    | 100      |
| 70) Phenanthrene            | 17.533 | 178  | 196764   | 15.13 | ng    | 97       |
| 71) Anthracene              | 17.621 | 178  | 45583    | 3.53  | ng    | 97       |
| 74) Fluoranthene            | 19.536 | 202  | 311597   | 20.84 | ng    | 98       |
| 77) Pyrene                  | 19.895 | 202  | 292211   | 22.86 | ng    | 99       |
| 80) Benzo(a)anthracene      | 21.745 | 228  | 144639   | 12.55 | ng    | 98       |
| 82) Chrysene                | 21.810 | 228  | 124709   | 11.12 | ng    | 98       |
| 85) Indeno(1,2,3-cd)pyrene  | 28.843 | 276  | 53363    | 4.24  | ng    | # 67     |
| 87) Benzo(b)fluoranthene    | 24.019 | 252  | 206515   | 18.01 | ng    | # 95     |
| 88) Benzo(k)fluoranthene    | 24.019 | 252  | 206515   | 18.30 | ng    | # 95     |
| 89) Benzo(a)pyrene          | 24.906 | 252  | 109626   | 10.00 | ng    | # 95     |
| 91) Benzo(a,h,i)perylene    | 30.024 | 276  | 46516    | 4.33  | ng    | # 89     |
| -----                       |        |      |          |       |       |          |

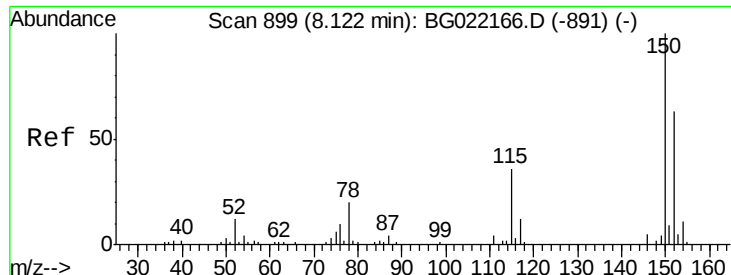
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\Data\BG060916\RAW\  
Data File : BG022263.D  
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ALS Vial : 10 Sample Multiplier: 1

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QLast Update : Mon Jun 06 16:12:45 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.114 min Scan# 89

Delta R.T. -0.008 min

Lab File: BG022263.D

Acq: 9 Jun 2016 11:14

Instrument :

BNA\_G

ClientSampleId :

SS-44

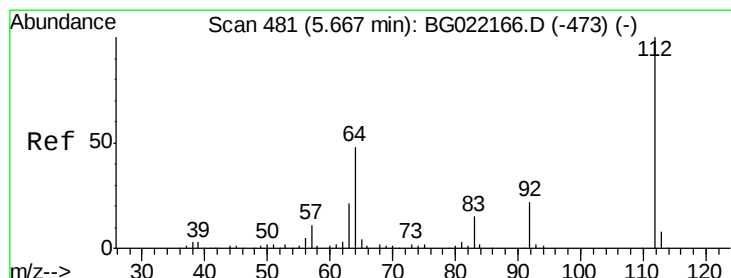
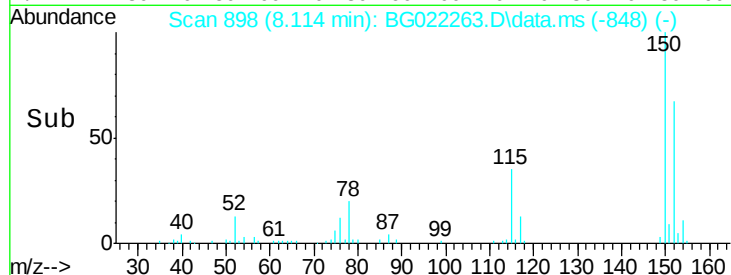
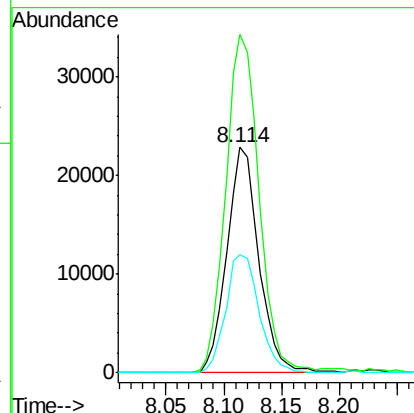
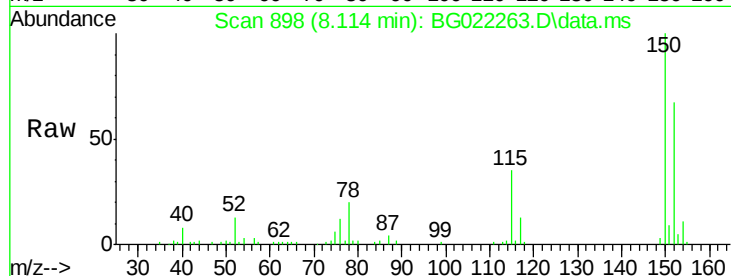
Tot Ion:152 Resp: 43911

Ion Ratio Lower Upper

152 100

150 150.3 130.1 195.1

115 52.6 62.2 93.2#



#5

2-Fluorophenol

Concen: 77.06 ng

RT: 5.664 min Scan# 481

Delta R.T. -0.002 min

Lab File: BG022263.D

Acq: 9 Jun 2016 11:14

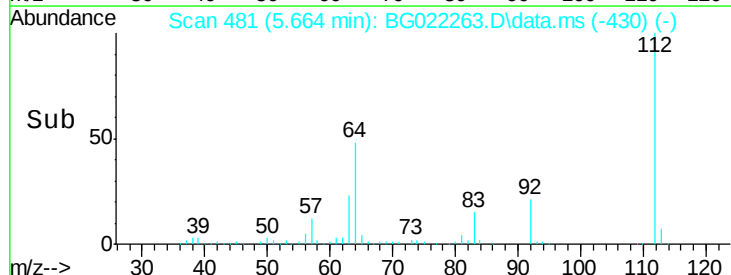
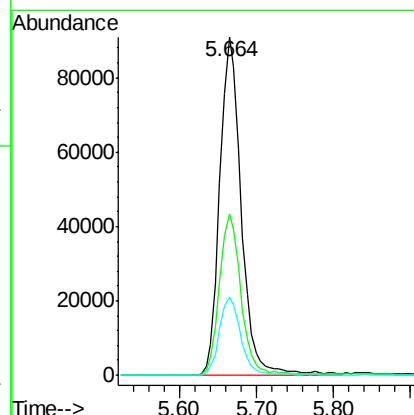
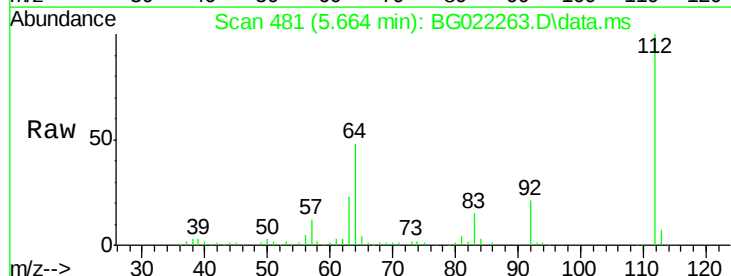
Tgt Ion:112 Resp: 175005

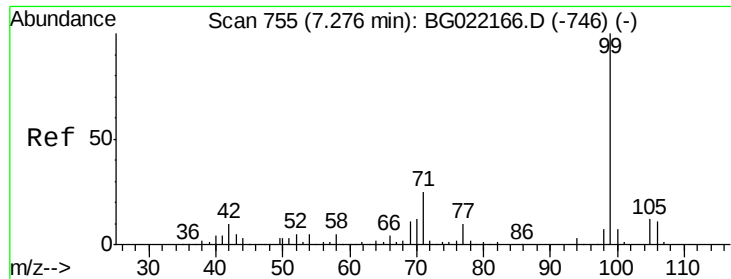
Ion Ratio Lower Upper

112 100

64 47.6 51.1 76.7#

63 23.0 24.6 37.0#





#7

Phenol-d6

Concen: 73.79 ng

RT: 7.274 min Scan# 755

Delta R.T. -0.002 min

Lab File: BG022263.D

Acq: 9 Jun 2016 11:14

Instrument :

BNA\_G

ClientSampleId :

SS-44

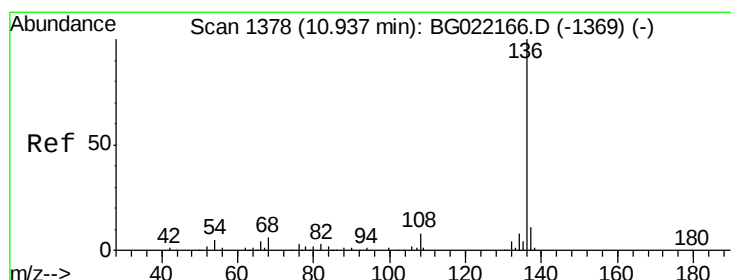
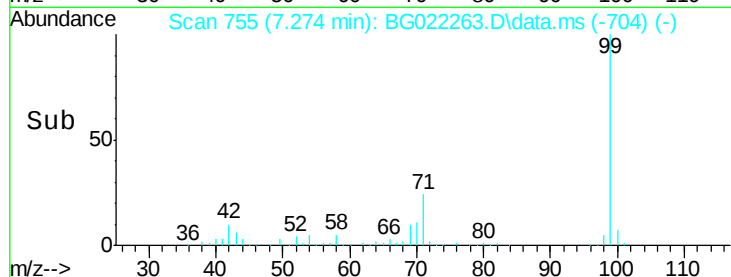
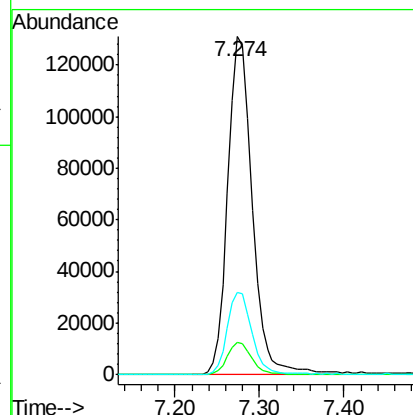
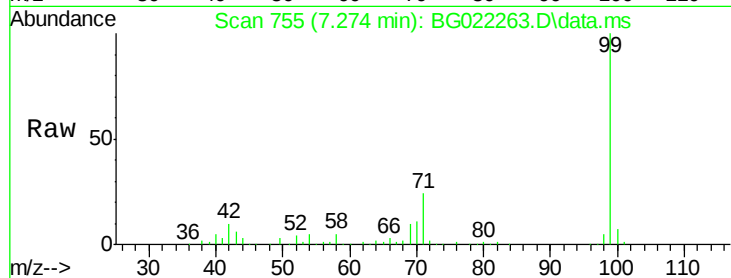
Tot Ion: 99 Resp: 263490

Ion Ratio Lower Upper

99 100

42 9.5 16.4 24.6#

71 24.2 25.0 37.4#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.934 min Scan# 1378

Delta R.T. -0.002 min

Lab File: BG022263.D

Acq: 9 Jun 2016 11:14

Tgt Ion: 136 Resp: 220081

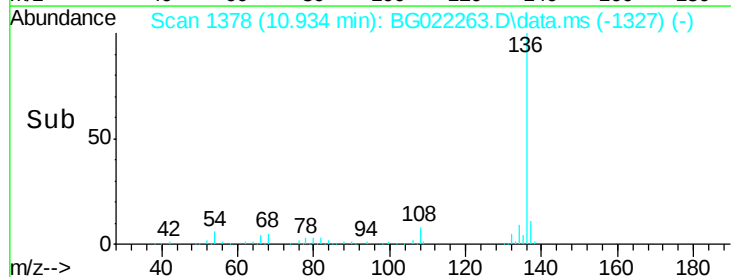
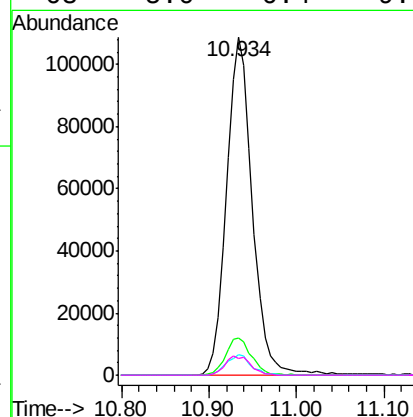
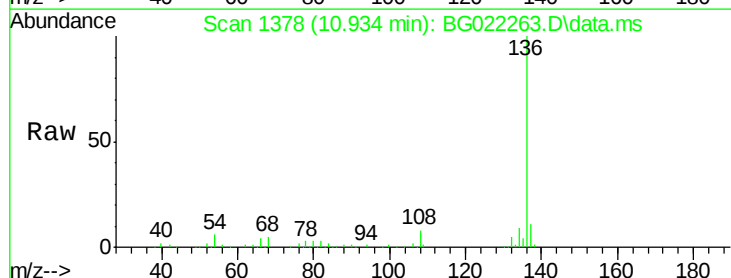
Ion Ratio Lower Upper

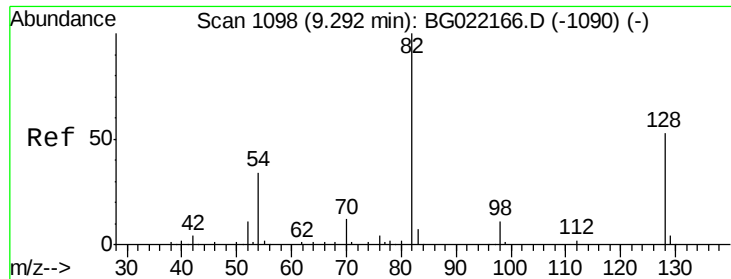
136 100

137 11.1 9.0 13.4

54 5.9 9.6 14.4#

68 5.0 6.4 9.6#

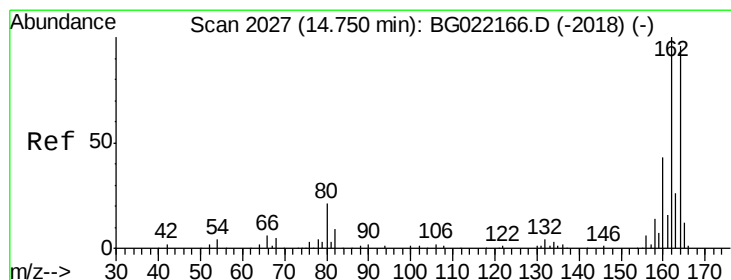
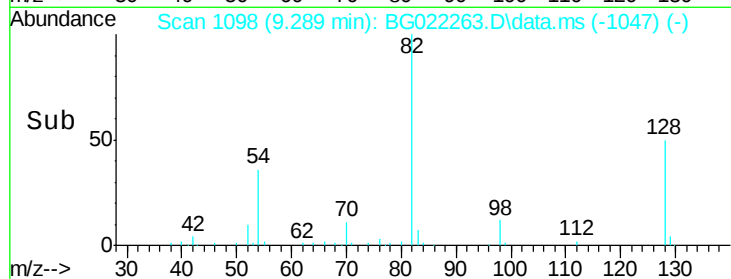
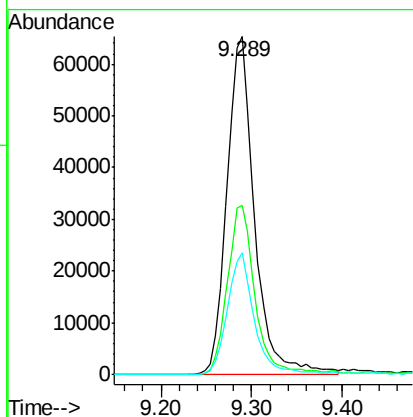
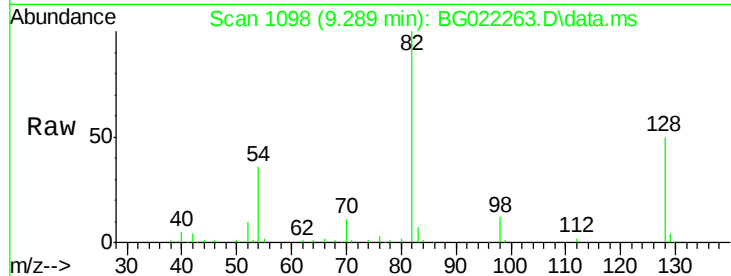




#23  
 Nitrobenzene-d5  
 Concen: 43.81 ng  
 RT: 9.289 min Scan# 10  
 Delta R.T. -0.002 min  
 Lab File: BG022263.D  
 Acq: 9 Jun 2016 11:14

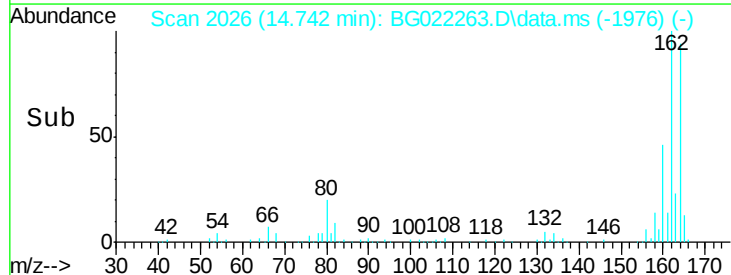
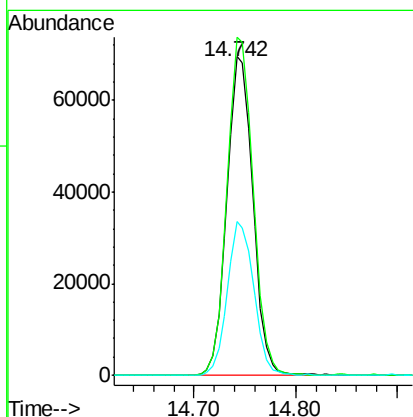
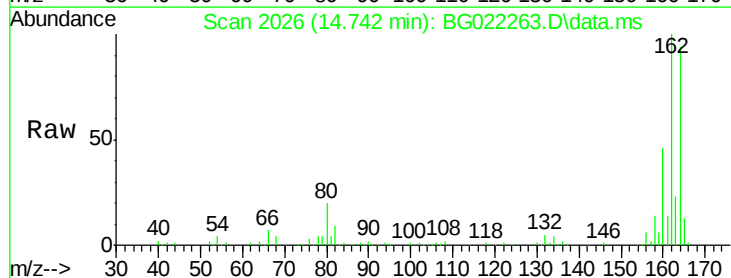
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SS-44

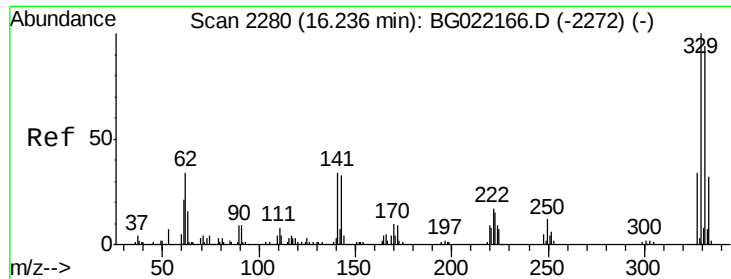
| Tot Ion   | 82   | Resp  | 138303 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 50.0 | 33.4  | 50.0   |
| 54        | 36.0 | 46.1  | 69.1#  |



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.742 min Scan# 2026  
 Delta R.T. -0.008 min  
 Lab File: BG022263.D  
 Acq: 9 Jun 2016 11:14

| Tgt Ion   | 164   | Resp  | 123870 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 162       | 106.1 | 78.0  | 117.0  |
| 160       | 48.3  | 32.9  | 49.3   |

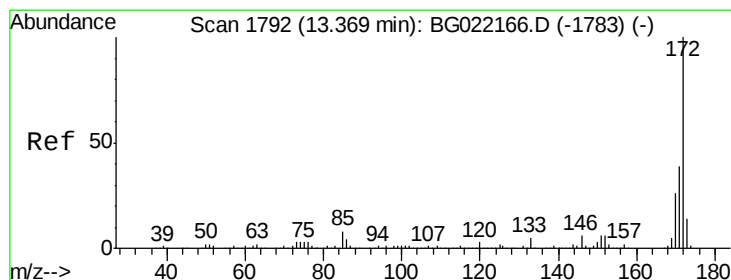
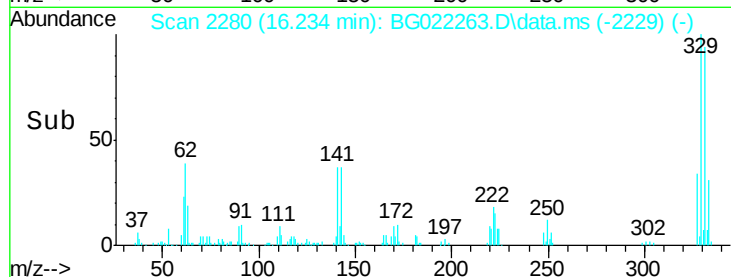
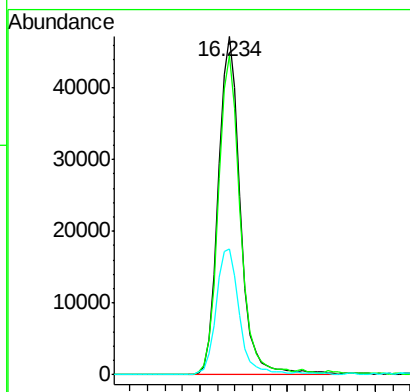
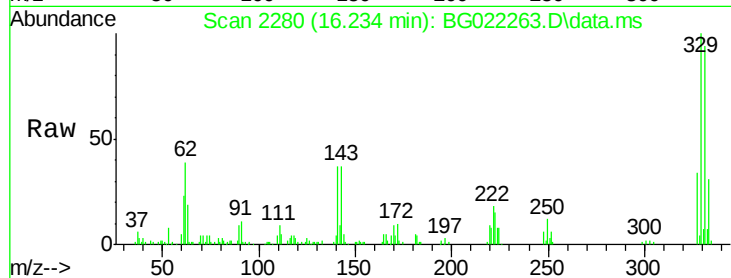




#41  
 2,4,6-Tribromophenol  
 Concen: 58.88 ng  
 RT: 16.234 min Scan# 2280  
 Delta R.T. -0.002 min  
 Lab File: BG022263.D  
 Acq: 9 Jun 2016 11:14

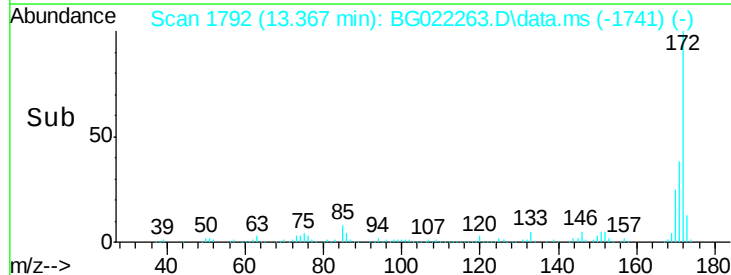
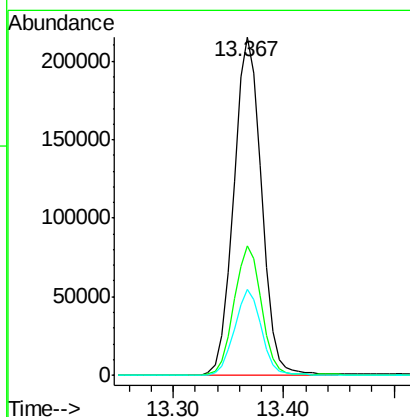
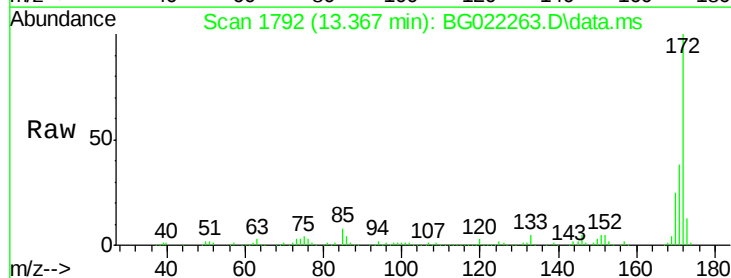
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SS-44

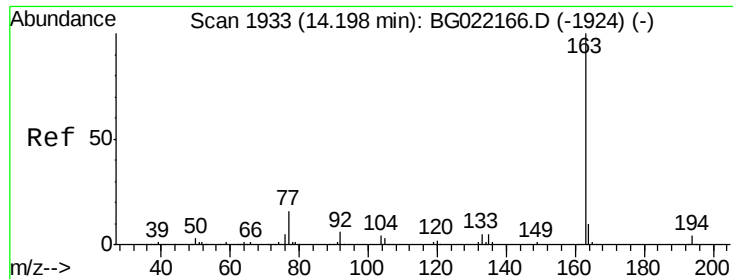
Tot Ion:330 Resp: 82415  
 Ion Ratio Lower Upper  
 330 100  
 332 93.5 78.0 117.0  
 141 38.5 33.8 50.8



#44  
 2-Fluorobiphenyl  
 Concen: 46.81 ng  
 RT: 13.367 min Scan# 1792  
 Delta R.T. -0.002 min  
 Lab File: BG022263.D  
 Acq: 9 Jun 2016 11:14

Tgt Ion:172 Resp: 380445  
 Ion Ratio Lower Upper  
 172 100  
 171 38.3 27.8 41.6  
 170 25.5 19.6 29.4





#49

Dimethylphthalate

Concen: 9.46 ng

RT: 14.184 min Scan# 19

Delta R.T. -0.014 min

Lab File: BG022263.D

Acq: 9 Jun 2016 11:14

Instrument :

BNA\_G

ClientSampleId :

SS-44

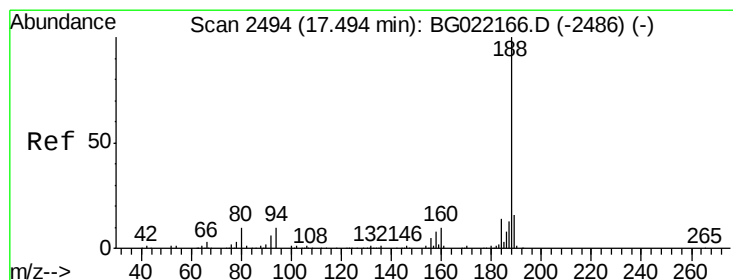
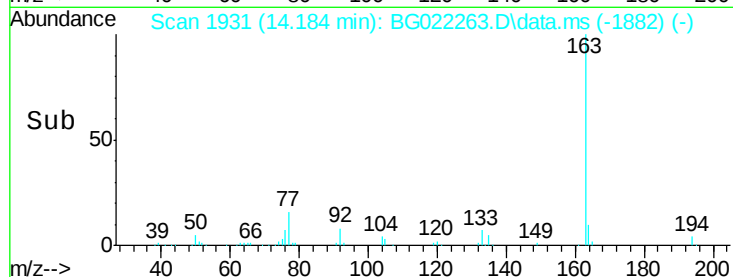
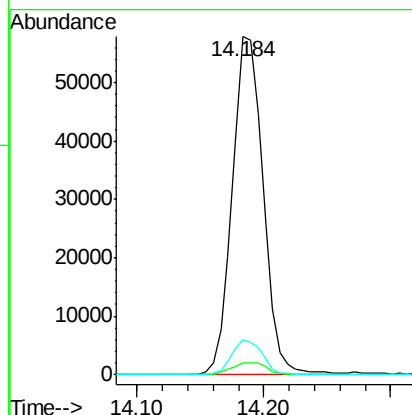
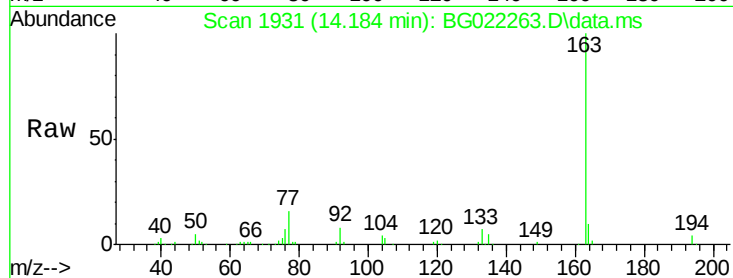
Tot Ion:163 Resp: 97177

Ion Ratio Lower Upper

163 100

194 3.6 3.0 4.6

164 10.3 8.1 12.1



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.491 min Scan# 2494

Delta R.T. -0.002 min

Lab File: BG022263.D

Acq: 9 Jun 2016 11:14

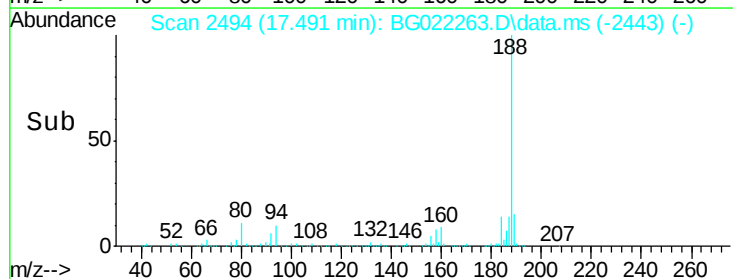
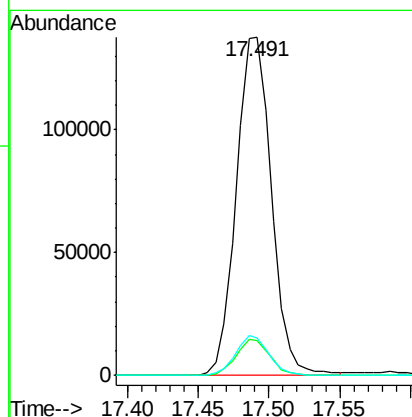
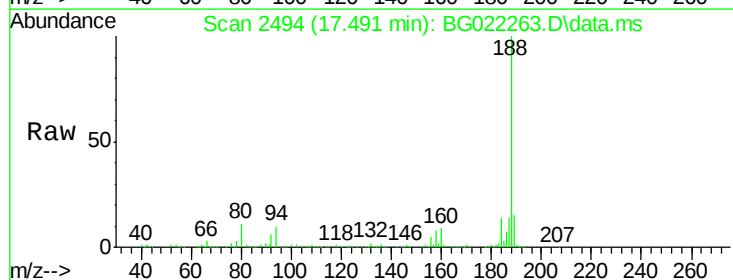
Tgt Ion:188 Resp: 239408

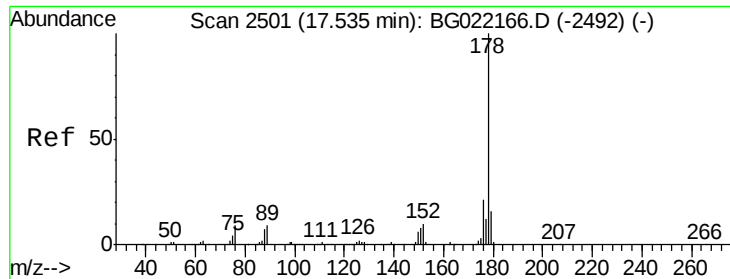
Ion Ratio Lower Upper

188 100

94 10.4 7.5 11.3

80 11.0 8.6 13.0





#70

Phenanthrene

Concen: 15.13 ng

RT: 17.533 min Scan# 25

Delta R.T. -0.002 min

Lab File: BG022263.D

Acq: 9 Jun 2016 11:14

Instrument :

BNA\_G

ClientSampleId :

SS-44

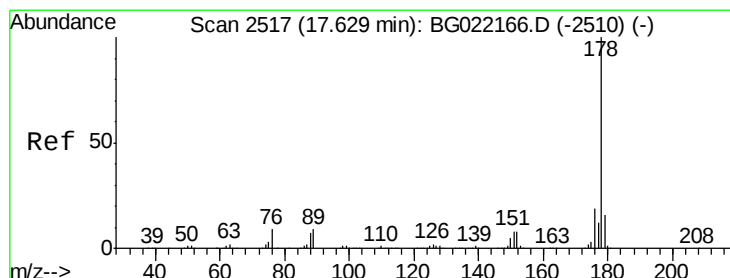
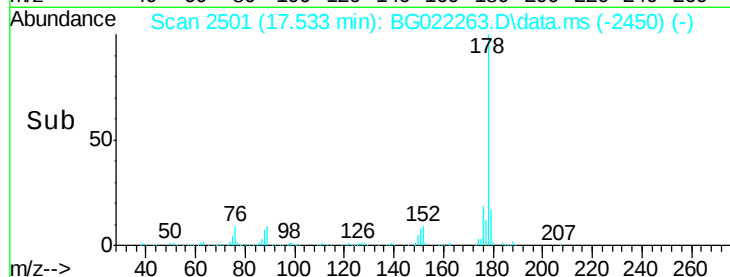
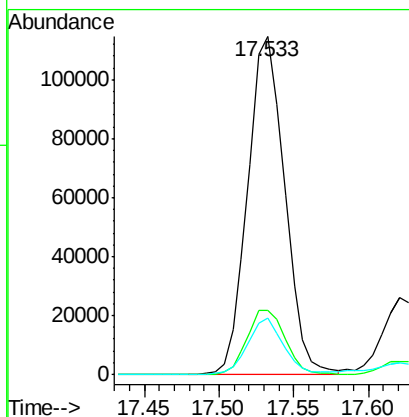
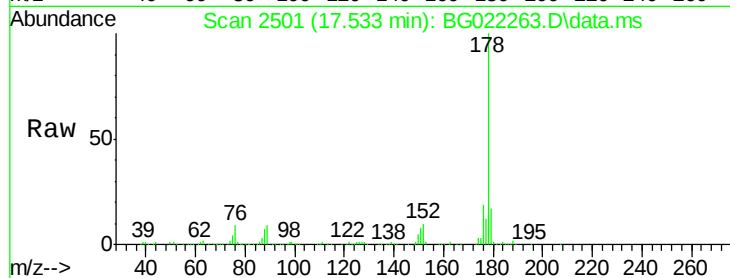
Tot Ion:178 Resp: 196764

Ion Ratio Lower Upper

178 100

176 19.0 16.2 24.4

179 16.5 12.0 18.0



#71

Anthracene

Concen: 3.53 ng

RT: 17.621 min Scan# 2516

Delta R.T. -0.008 min

Lab File: BG022263.D

Acq: 9 Jun 2016 11:14

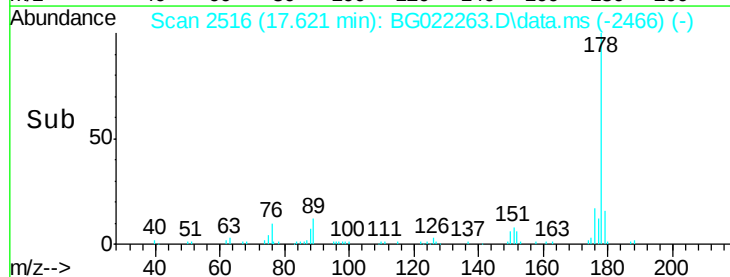
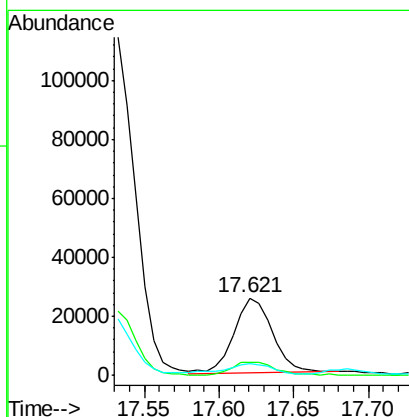
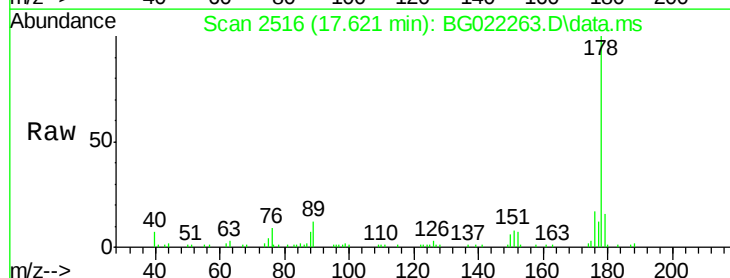
Tgt Ion:178 Resp: 45583

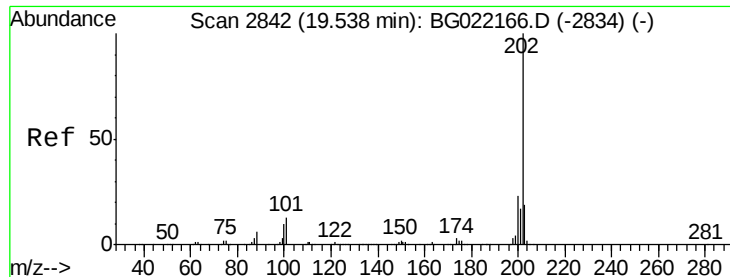
Ion Ratio Lower Upper

178 100

176 17.0 15.0 22.4

179 15.7 12.2 18.4





#74

Fluoranthene

Concen: 20.84 ng

RT: 19.536 min Scan# 28

Delta R.T. -0.002 min

Lab File: BG022263.D

Acq: 9 Jun 2016 11:14

Instrument :

BNA\_G

ClientSampleId :

SS-44

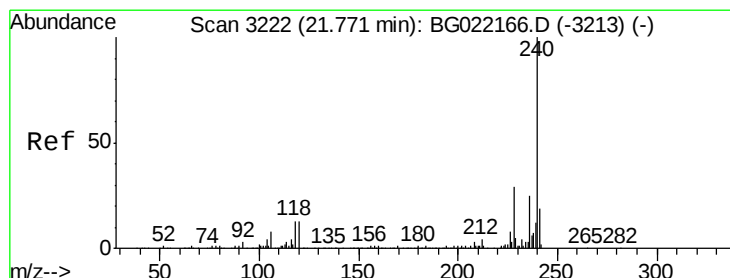
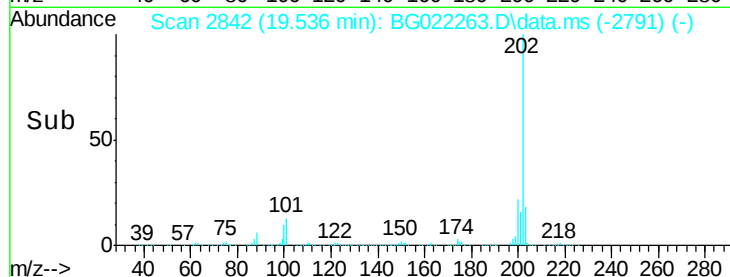
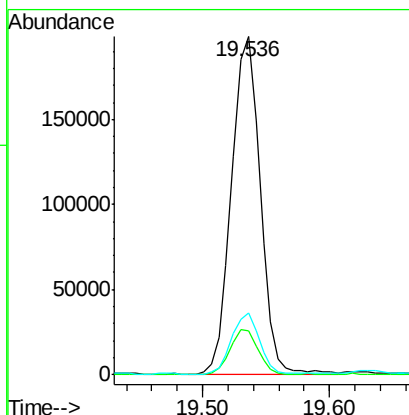
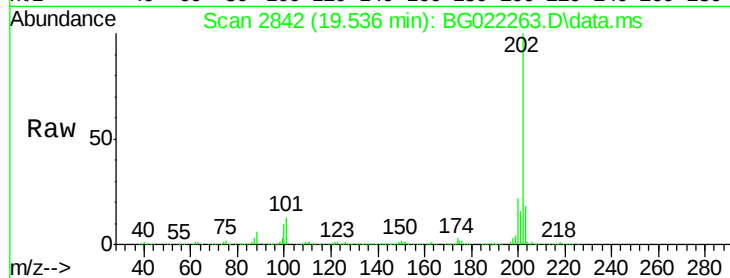
Tot Ion:202 Resp: 311597

Ion Ratio Lower Upper

202 100

101 13.0 0.0 31.0

203 18.2 0.0 37.9



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.763 min Scan# 3221

Delta R.T. -0.008 min

Lab File: BG022263.D

Acq: 9 Jun 2016 11:14

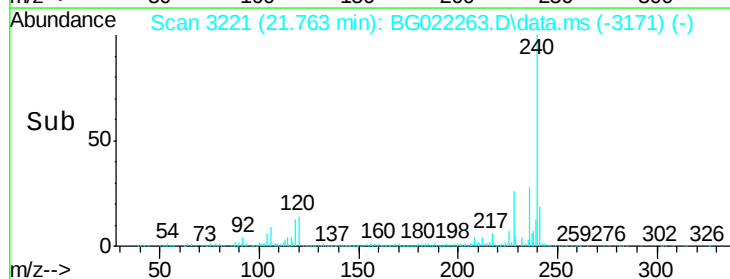
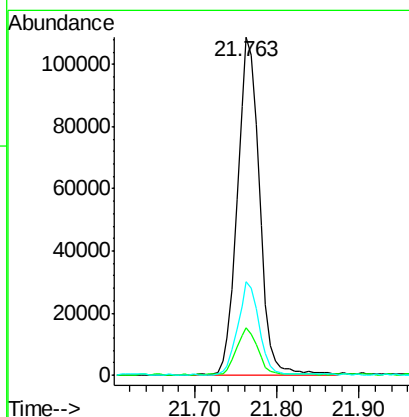
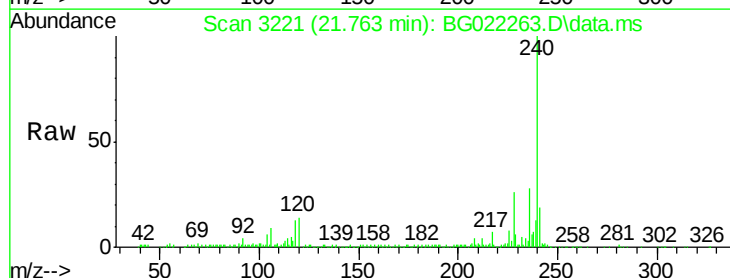
Tgt Ion:240 Resp: 205602

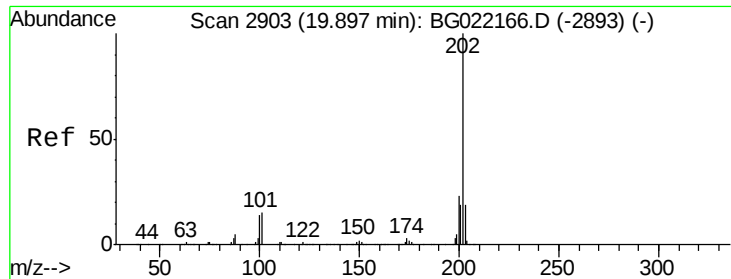
Ion Ratio Lower Upper

240 100

120 14.1 8.4 12.6#

236 27.8 19.6 29.4

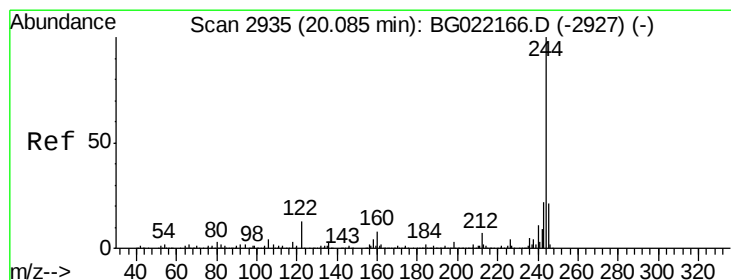
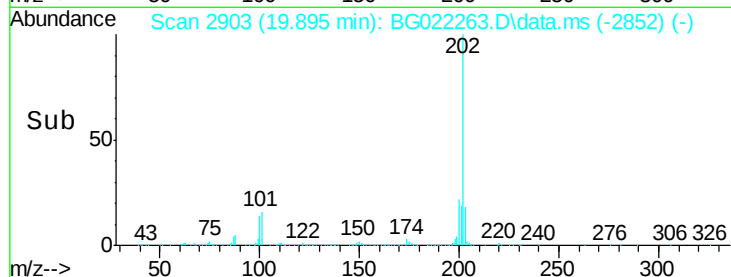
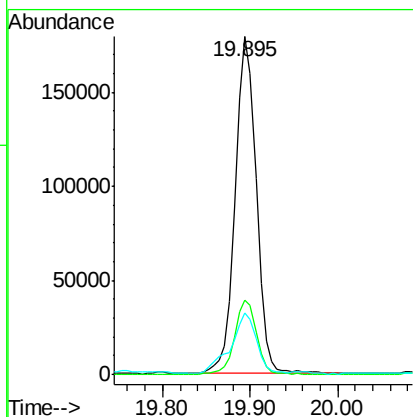
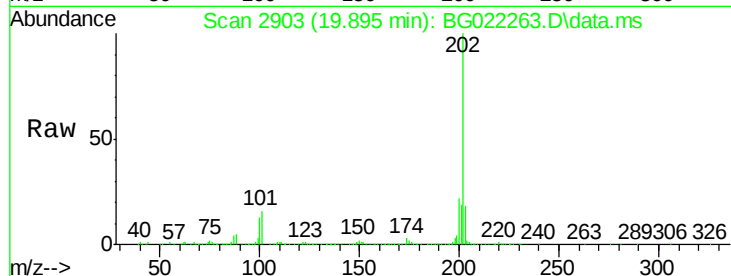




#77  
Pvrene  
Concen: 22.86 ng  
RT: 19.895 min Scan# 2903  
Delta R.T. -0.002 min  
Lab File: BG022263.D  
Acq: 9 Jun 2016 11:14

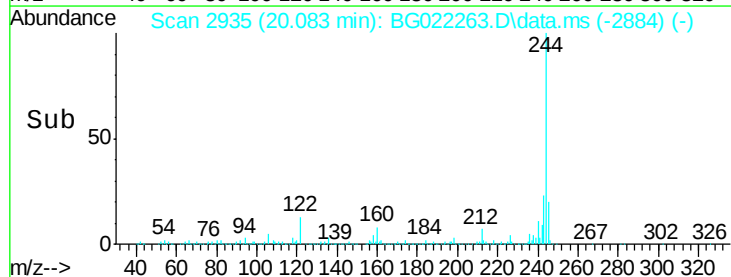
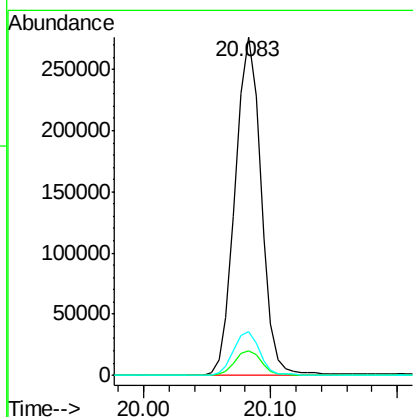
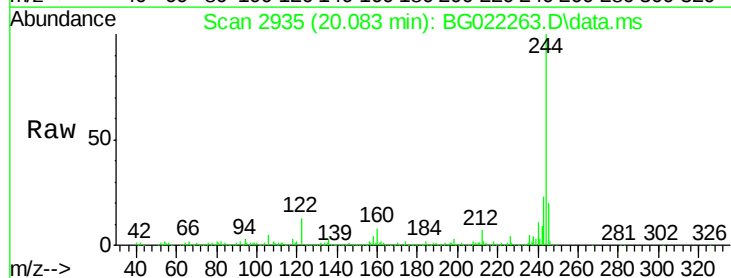
Instrument :  
BNA\_G  
ClientSampleId :  
SS-44

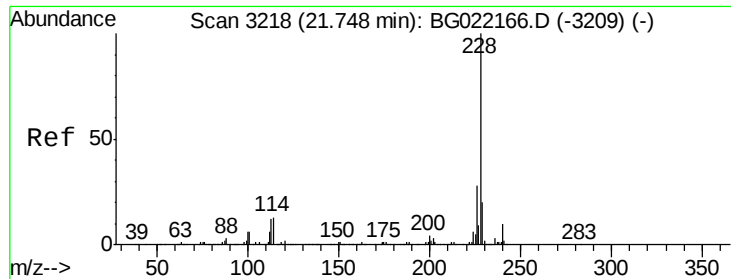
|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 202  | Resp: | 292211 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 200       | 22.1 | 18.2  | 27.2   |
| 203       | 18.3 | 15.0  | 22.4   |



#78  
Terphenyl-d14  
Concen: 45.32 ng  
RT: 20.083 min Scan# 2935  
Delta R.T. -0.002 min  
Lab File: BG022263.D  
Acq: 9 Jun 2016 11:14

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 244  | Resp: | 392461 |
| Ion Ratio |      | Lower | Upper  |
| 244       | 100  |       |        |
| 212       | 7.2  | 6.5   | 9.7    |
| 122       | 13.1 | 8.6   | 12.8#  |





#80

Benzo(a)anthracene

Concen: 12.55 ng

RT: 21.745 min Scan# 3218

Delta R.T. -0.002 min

Lab File: BG022263.D

Acq: 9 Jun 2016 11:14

Instrument :

BNA\_G

ClientSampleId :

SS-44

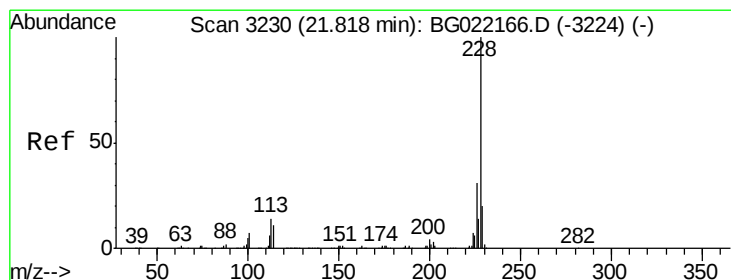
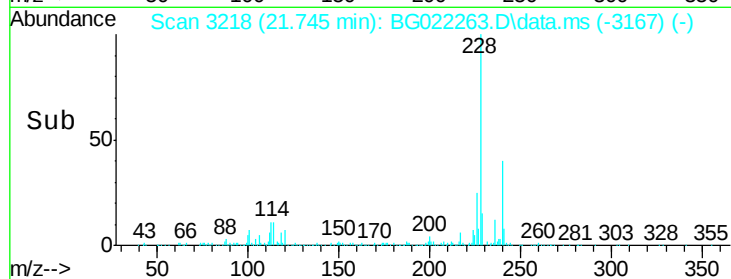
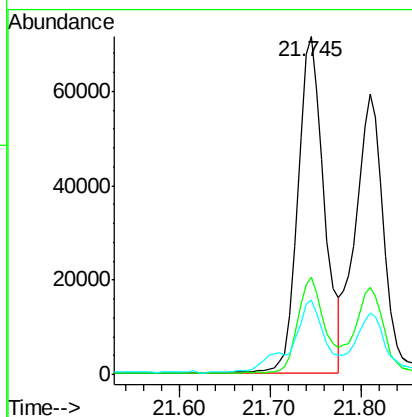
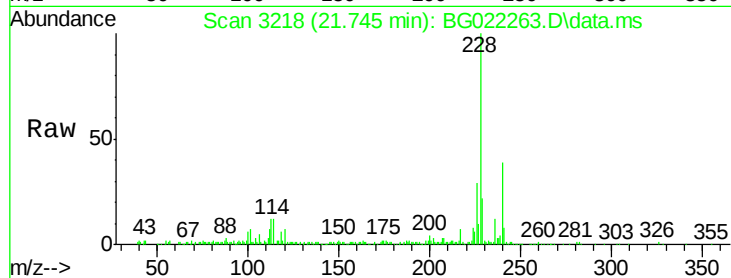
Tot Ion:228 Resp: 144639

Ion Ratio Lower Upper

228 100

226 29.0 22.6 34.0

229 22.0 16.1 24.1



#82

Chrysene

Concen: 11.12 ng

RT: 21.810 min Scan# 3229

Delta R.T. -0.008 min

Lab File: BG022263.D

Acq: 9 Jun 2016 11:14

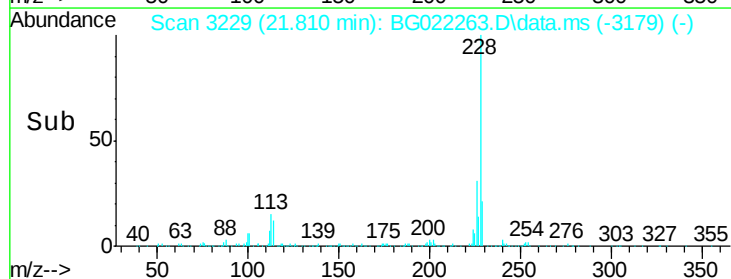
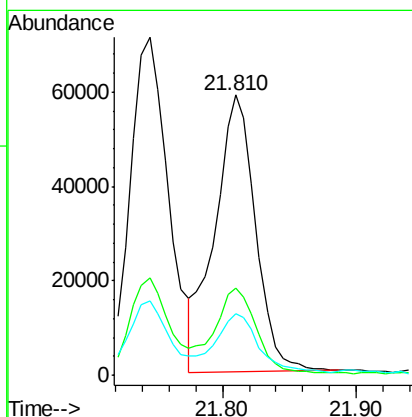
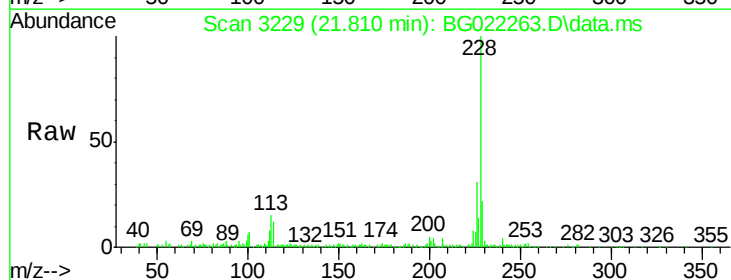
Tgt Ion:228 Resp: 124709

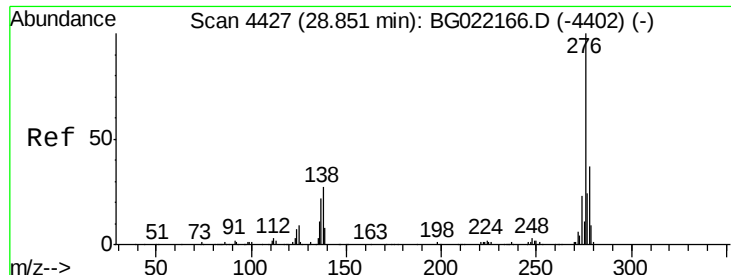
Ion Ratio Lower Upper

228 100

226 31.3 25.4 38.0

229 21.9 15.9 23.9

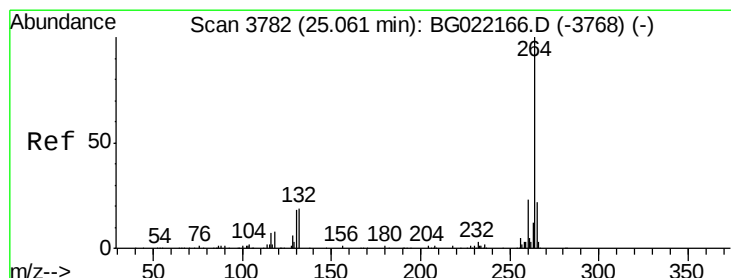
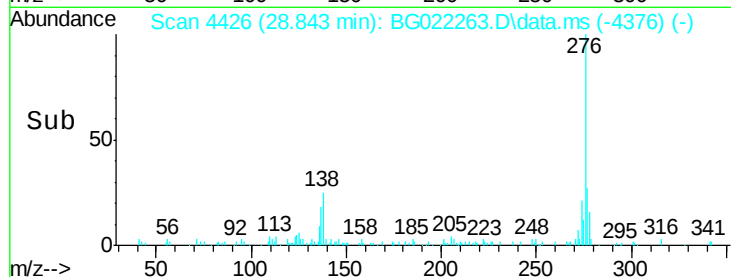
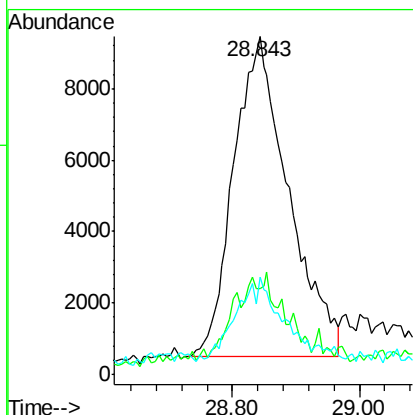
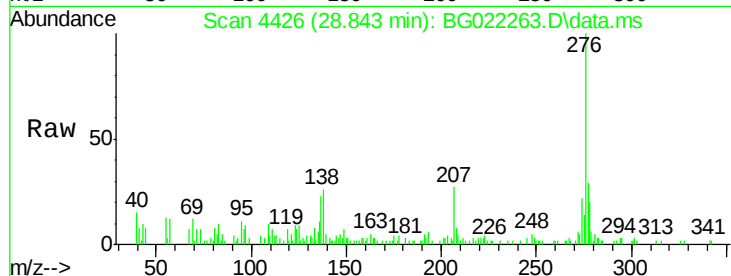




#85  
Indeno(1,2,3-cd)pyrene  
Concen: 4.24 ng  
RT: 28.843 min Scan# 44  
Delta R.T. -0.008 min  
Lab File: BG022263.D  
Acq: 9 Jun 2016 11:14

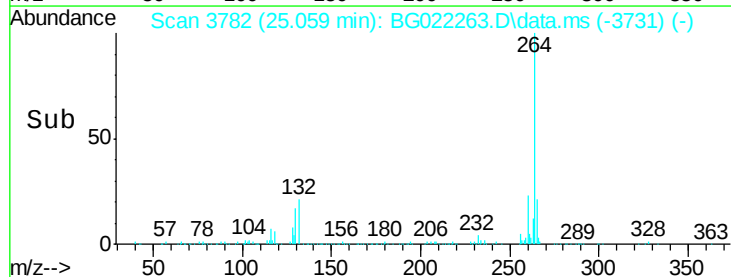
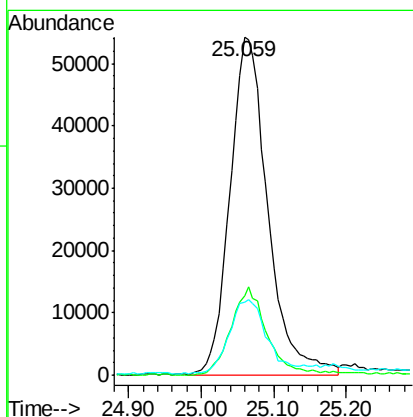
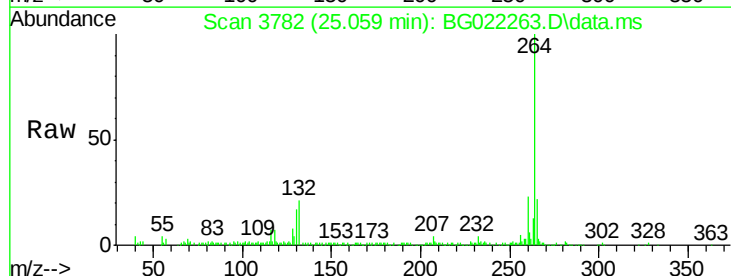
Instrument :  
BNA\_G  
ClientSampleId :  
SS-44

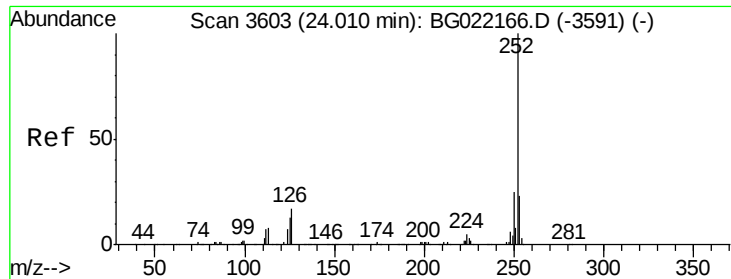
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 1.4   | 14.0  | 21.0# |
| 277     | 10.4  | 20.6  | 30.8# |



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 25.059 min Scan# 3782  
Delta R.T. -0.002 min  
Lab File: BG022263.D  
Acq: 9 Jun 2016 11:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 20.2  | 30.4  |
| 265     | 21.6  | 17.8  | 26.8  |





#87

Benzo(b)fluoranthene

Concen: 18.01 ng

RT: 24.019 min Scan# 3605

Delta R.T. 0.009 min

Lab File: BG022263.D

Acq: 9 Jun 2016 11:14

Instrument :

BNA\_G

ClientSampleId :

SS-44

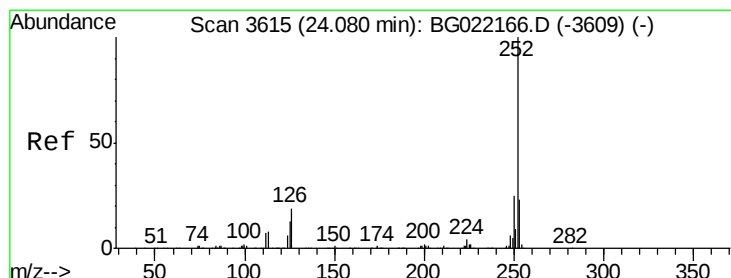
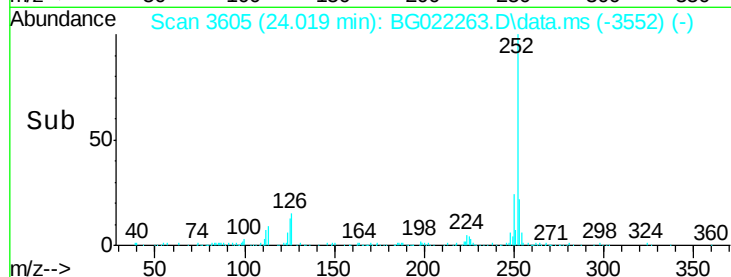
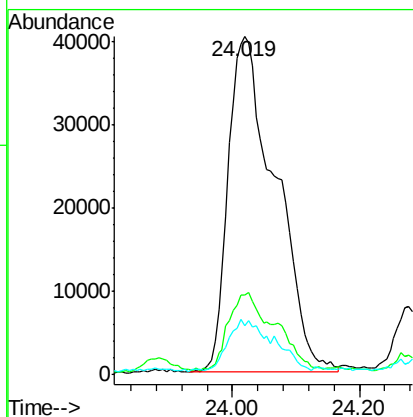
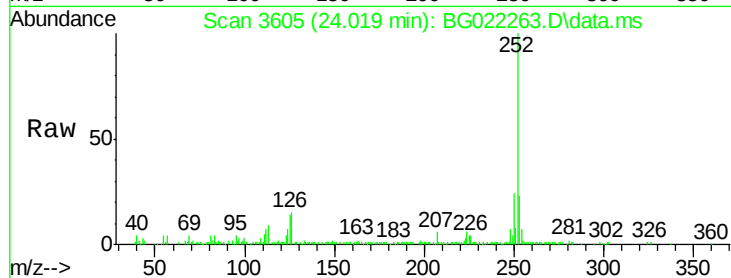
Tot Ion:252 Resp: 206515

Ion Ratio Lower Upper

252 100

253 23.5 17.5 26.3

125 14.3 8.6 13.0#



#88

Benzo(k)fluoranthene

Concen: 18.30 ng

RT: 24.019 min Scan# 3605

Delta R.T. -0.061 min

Lab File: BG022263.D

Acq: 9 Jun 2016 11:14

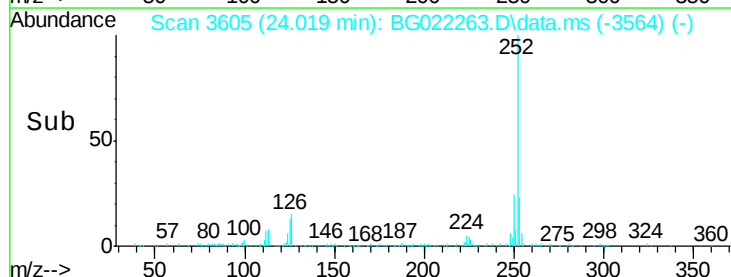
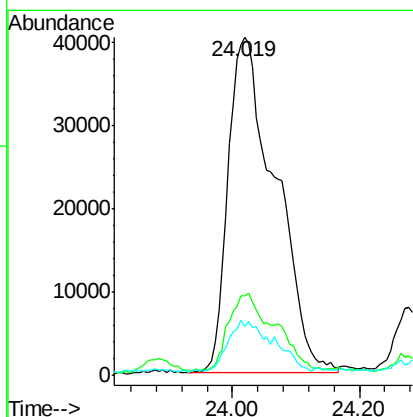
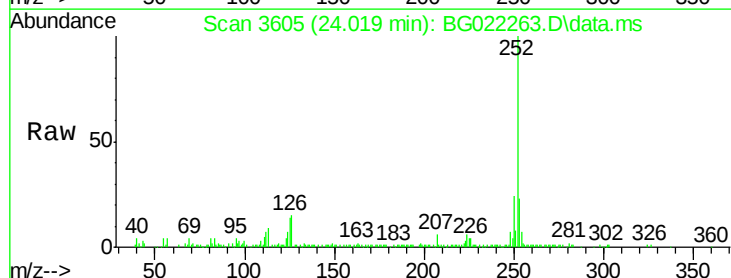
Tgt Ion:252 Resp: 206515

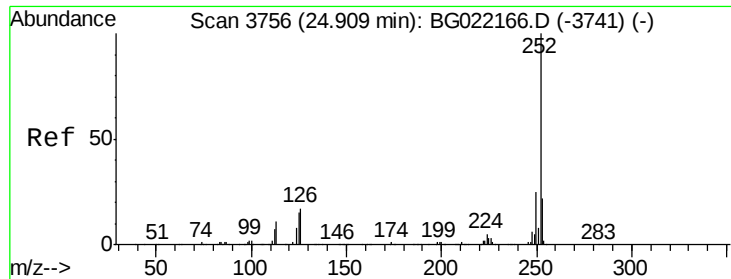
Ion Ratio Lower Upper

252 100

253 23.5 17.8 26.8

125 14.3 8.3 12.5#





#89

Benzo(a)pyrene

Concen: 10.00 ng

RT: 24.906 min Scan# 3756

Delta R.T. -0.002 min

Lab File: BG022263.D

Acq: 9 Jun 2016 11:14

Instrument :

BNA\_G

ClientSampleId :

SS-44

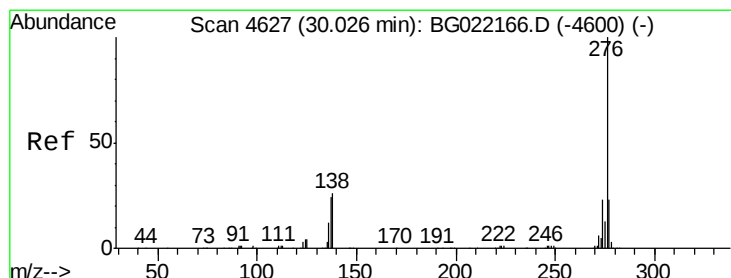
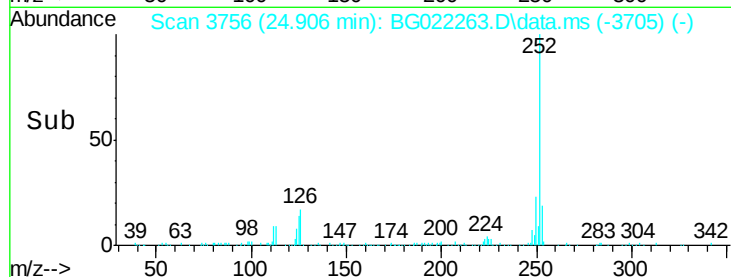
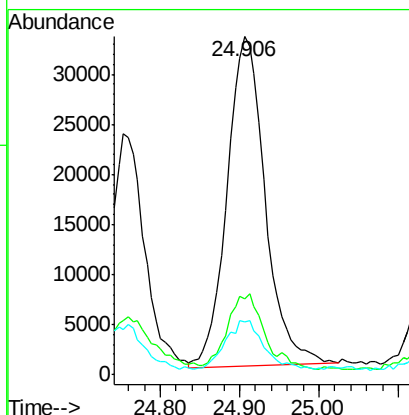
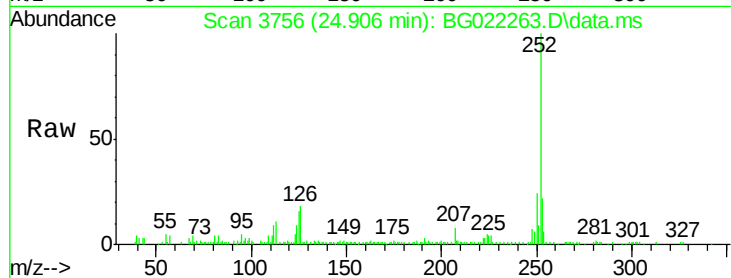
Tot Ion:252 Resp: 109626

Ion Ratio Lower Upper

252 100

253 22.3 17.1 25.7

125 15.6 9.6 14.4#



#91

Benzo(g,h,i)perylene

Concen: 4.33 ng

RT: 30.024 min Scan# 4627

Delta R.T. -0.002 min

Lab File: BG022263.D

Acq: 9 Jun 2016 11:14

Tgt Ion:276 Resp: 46516

Ion Ratio Lower Upper

276 100

277 19.9 19.4 29.2

138 28.0 17.4 26.0#

