

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG071016\  
 Data File : BG022994.D  
 Acq On : 10 Jul 2016 10:48  
 Operator : UM/SJ  
 Sample : H3876-01  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 1A-LOCATION-1-0-5FT

Quant Time: Jul 11 02:36:11 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG070816.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 07 16:51:07 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.15  | 152  | 105896   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.98 | 136  | 533591   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 14.80 | 164  | 385821   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.56 | 188  | 859761   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 21.85 | 240  | 940100   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 25.21 | 264  | 976170   | 20.00 | ng    | 0.02     |

|                             |       |     |         |       |    |      |
|-----------------------------|-------|-----|---------|-------|----|------|
| System Monitoring Compounds |       |     |         |       |    |      |
| 5) 2-Fluorophenol           | 5.69  | 112 | 452645  | 69.91 | ng | 0.00 |
| 7) Phenol-d6                | 7.30  | 99  | 789455  | 77.85 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 9.32  | 82  | 592636  | 47.56 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 16.29 | 330 | 387081  | 55.82 | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 13.41 | 172 | 1242551 | 50.73 | ng | 0.00 |
| 78) Terphenyl-d14           | 20.15 | 244 | 1708660 | 48.47 | ng | 0.00 |

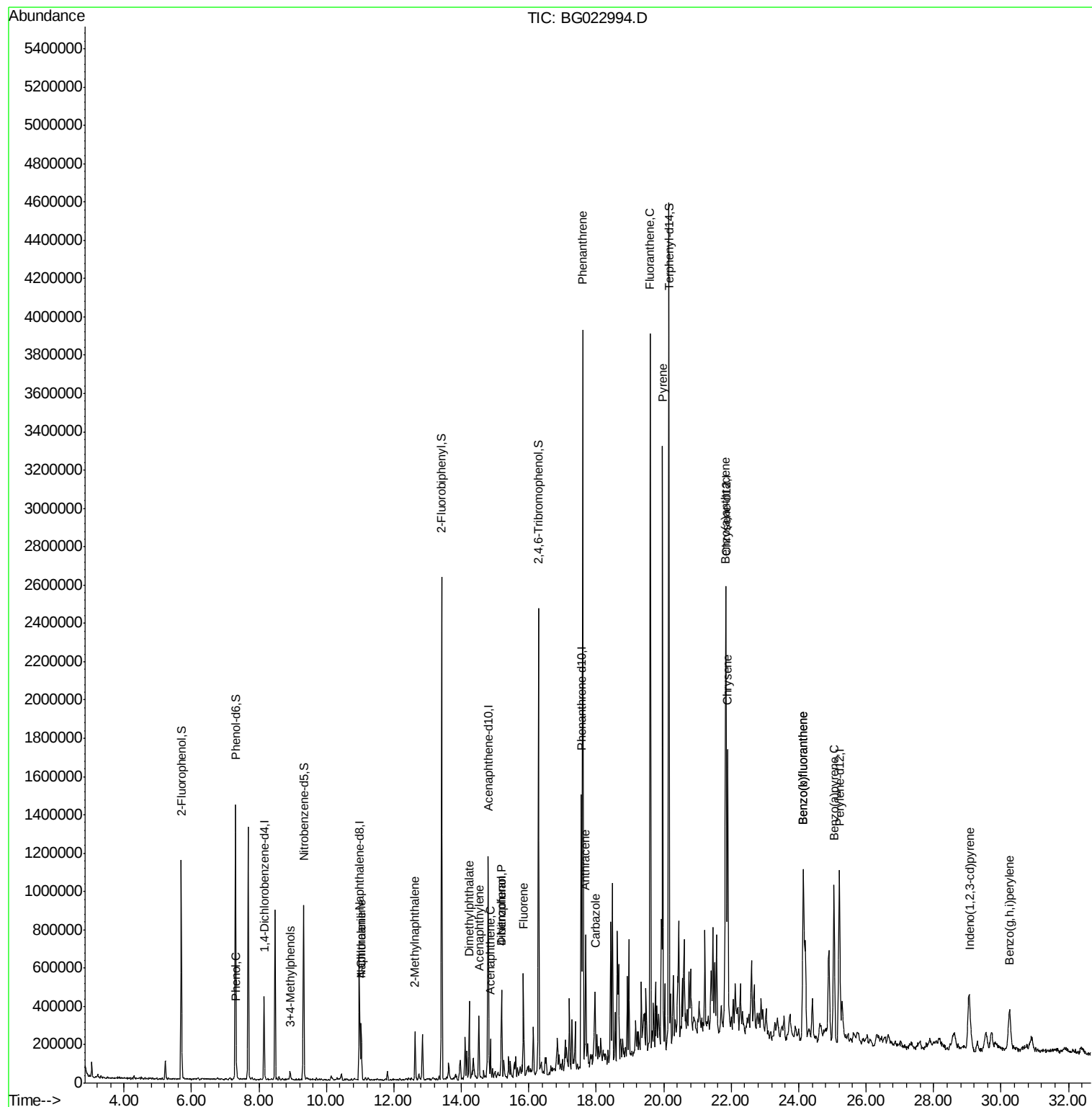
|                            |       |     |         |        |    |       |
|----------------------------|-------|-----|---------|--------|----|-------|
| Target Compounds           |       |     |         | Qvalue |    |       |
| 10) Phenol                 | 7.33  | 94  | 24871   | 2.38   | ng | 90    |
| 20) 3+4-Methylphenols      | 8.92  | 107 | 19139   | 2.02   | ng | 89    |
| 31) Naphthalene            | 11.03 | 128 | 236156  | 8.69   | ng | 99    |
| 33) 4-Chloroaniline        | 11.03 | 127 | 31765   | 2.39   | ng | # 28  |
| 37) 2-Methylnaphthalene    | 12.63 | 142 | 113514  | 5.29   | ng | 91    |
| 48) Acenaphthylene         | 14.52 | 152 | 214393  | 6.09   | ng | 98    |
| 49) Dimethylphthalate      | 14.24 | 163 | 248617  | 7.89   | ng | 98    |
| 51) Acenaphthene           | 14.86 | 154 | 67063   | 2.91   | ng | # 83  |
| 54) Dibenzofuran           | 15.19 | 168 | 248652  | 7.22   | ng | 92    |
| 55) 4-Nitrophenol          | 15.19 | 139 | 100931  | 17.05  | ng | # 1   |
| 57) Fluorene               | 15.84 | 166 | 234472  | 7.91   | ng | 100   |
| 70) Phenanthrene           | 17.60 | 178 | 2265147 | 53.76  | ng | 95    |
| 71) Anthracene             | 17.69 | 178 | 431524  | 10.11  | ng | 95    |
| 72) Carbazole              | 17.96 | 167 | 240397  | 6.52   | ng | 99    |
| 74) Fluoranthene           | 19.60 | 202 | 2231792 | 43.16  | ng | 97    |
| 77) Pyrene                 | 19.97 | 202 | 1918011 | 36.31  | ng | 98    |
| 80) Benzo(a)anthracene     | 21.83 | 228 | 1182739 | 22.49  | ng | 95    |
| 82) Chrysene               | 21.89 | 228 | 1062051 | 21.53  | ng | 94    |
| 85) Indeno(1,2,3-cd)pyrene | 29.06 | 276 | 534076  | 8.49   | ng | # 100 |
| 87) Benzo(b)fluoranthene   | 24.14 | 252 | 1289091 | 22.89  | ng | # 99  |
| 88) Benzo(k)fluoranthene   | 24.14 | 252 | 1289091 | 24.12  | ng | # 98  |
| 89) Benzo(a)pyrene         | 25.05 | 252 | 940447  | 17.42  | ng | 94    |
| 91) Benzo(g,h,i)perylene   | 30.25 | 276 | 466894  | 8.70   | ng | # 95  |

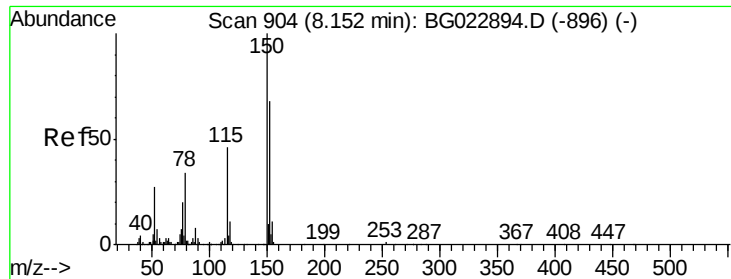
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jul 07 16:51:07 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.15 min Scan# 904

Delta R.T. -0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Instrument :

BNA\_G

ClientSampleId :

1A-LOCATION-1-0-5FT

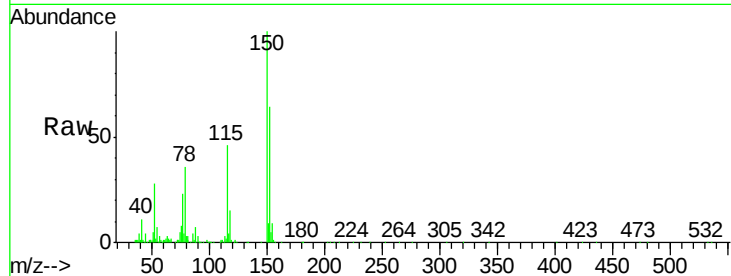
Tgt Ion:152 Resp: 105896

Ion Ratio Lower Upper

152 100

150 155.7 144.7 217.1

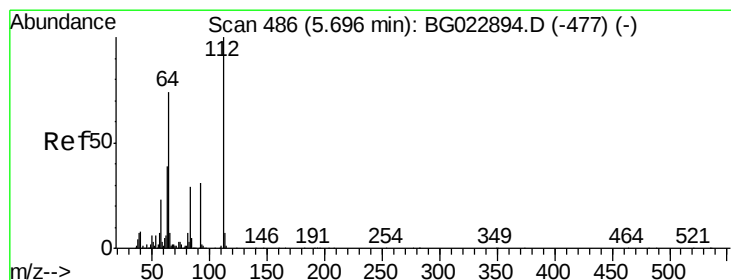
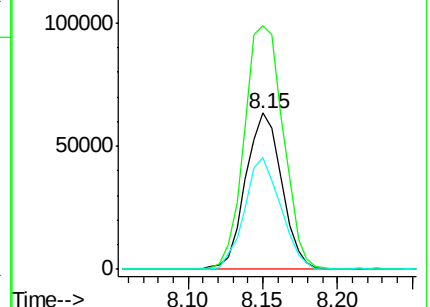
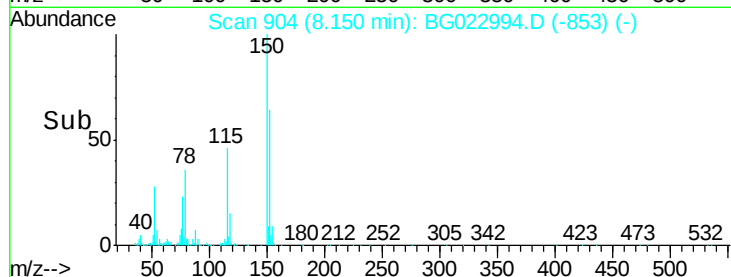
115 71.3 64.0 96.0



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



#5

2-Fluorophenol

Concen: 69.91 ng

RT: 5.69 min Scan# 486

Delta R.T. -0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

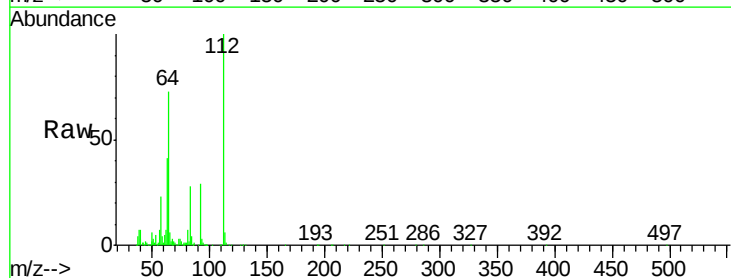
Tgt Ion:112 Resp: 452645

Ion Ratio Lower Upper

112 100

64 72.9 59.0 88.4

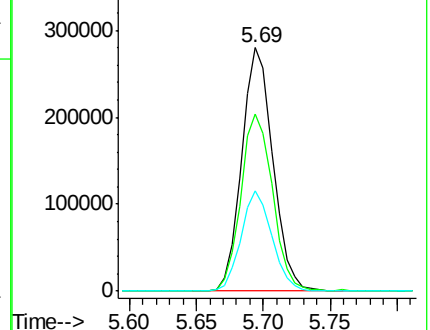
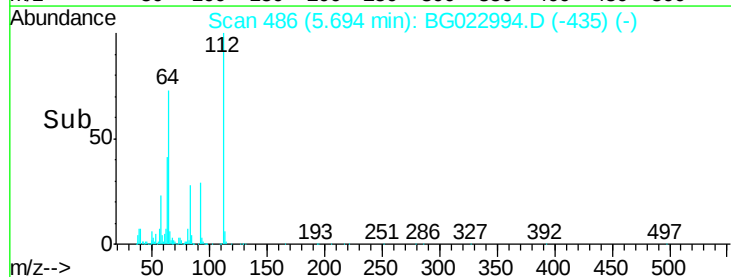
63 40.9 37.8 56.8

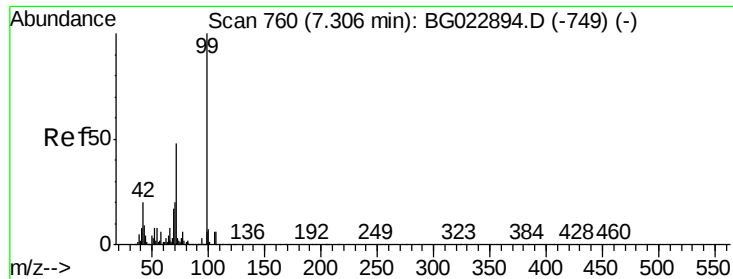


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 77.85 ng

RT: 7.30 min Scan# 760

Delta R.T. -0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Instrument :

BNA\_G

ClientSampleId :

1A-LOCATION-1-0-5FT

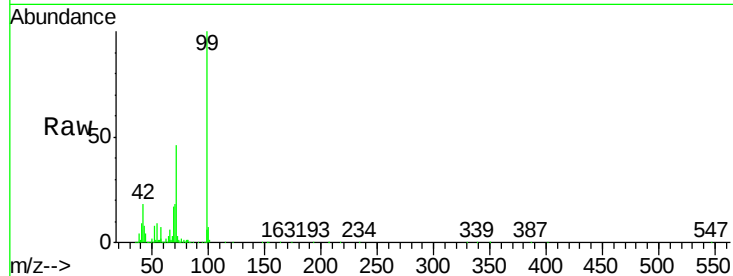
Tgt Ion: 99 Resp: 789455

Ion Ratio Lower Upper

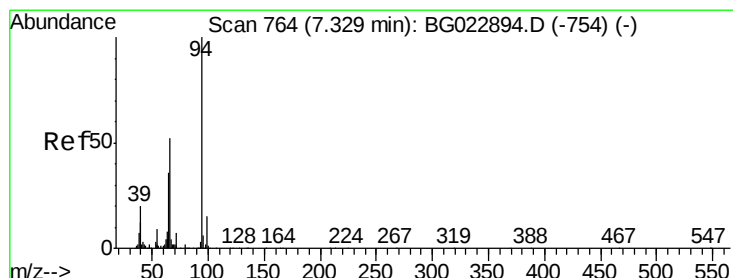
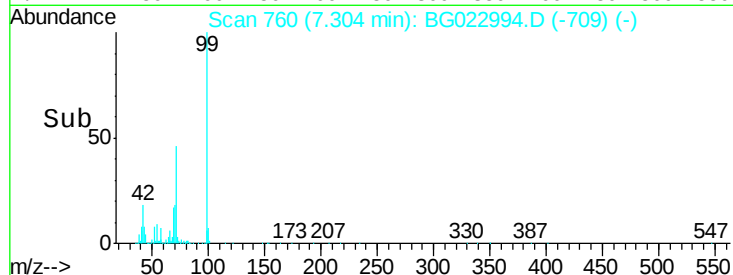
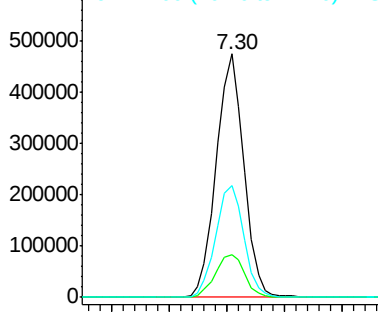
99 100

42 17.7 17.8 26.6#

71 46.2 41.5 62.3



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



#10

Phenol

Concen: 2.38 ng

RT: 7.33 min Scan# 765

Delta R.T. 0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

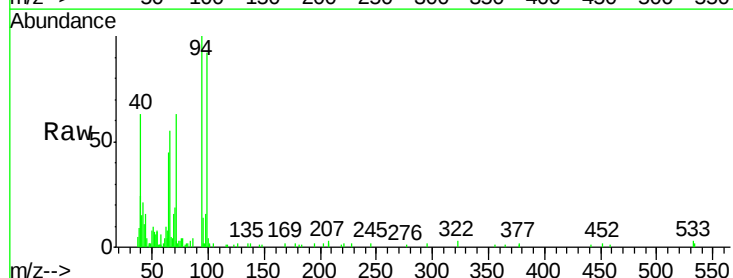
Tgt Ion: 94 Resp: 24871

Ion Ratio Lower Upper

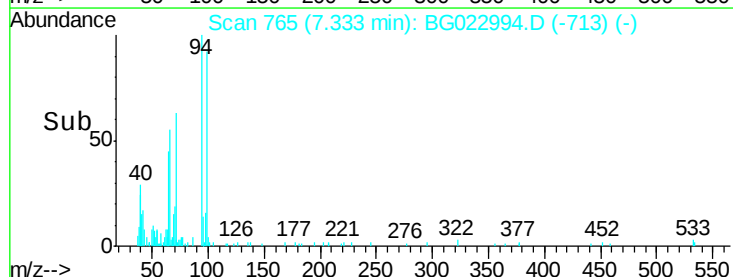
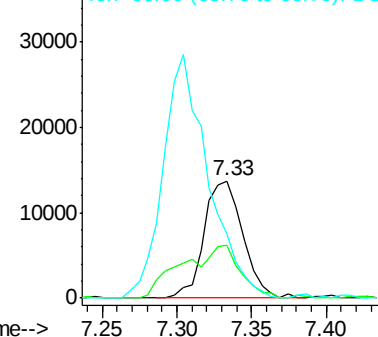
94 100

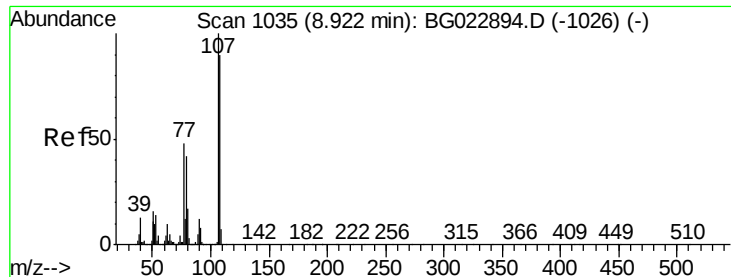
65 44.8 18.1 58.1

66 54.7 42.1 82.1



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC

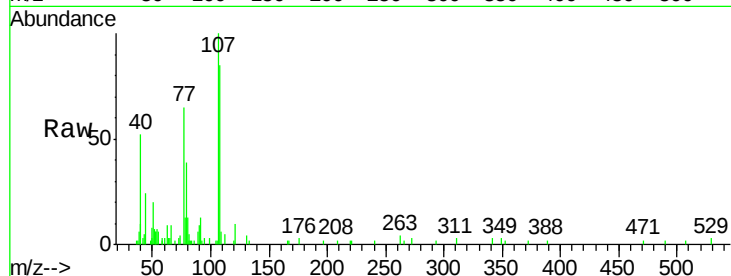




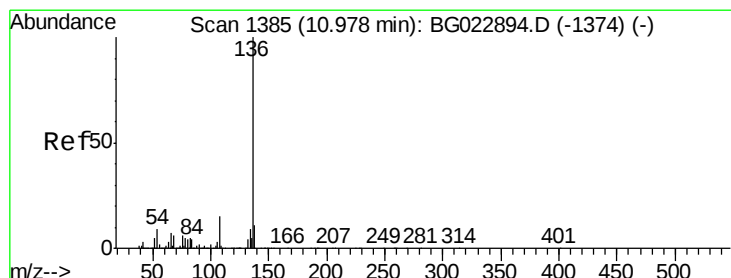
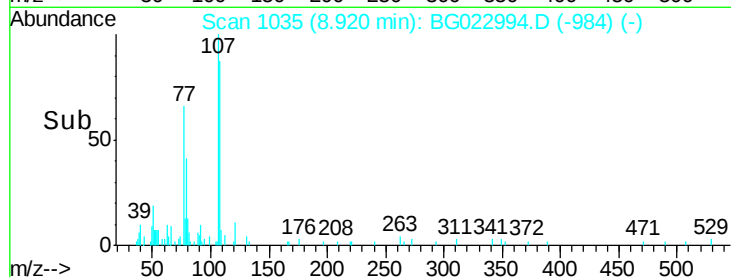
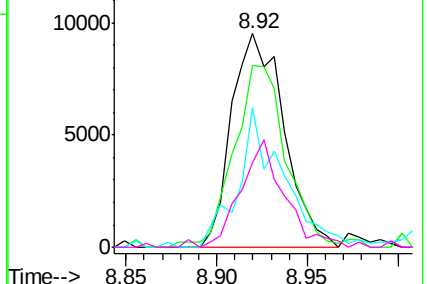
#20  
3+4-Methylphenols  
Concen: 2.02 ng  
RT: 8.92 min Scan# 1035  
Delta R.T. -0.00 min  
Lab File: BG022994.D  
Acq: 10 Jul 2016 10:48

Instrument :  
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1A-LOCATION-1-0-5FT

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 19139 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 85.4  | 72.5  | 112.5 |
| 77       | 65.3  | 30.1  | 70.1  |
| 79       | 39.4  | 24.2  | 64.2  |

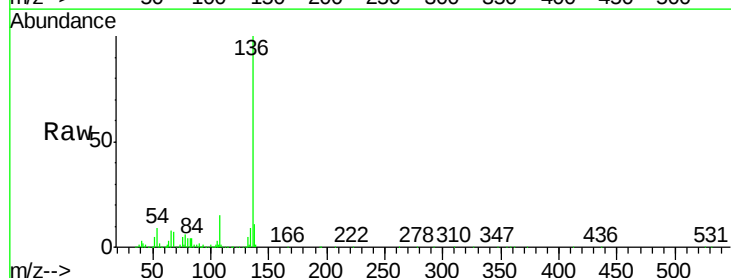


Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BG  
Ion 79.00 (78.70 to 79.70): BG

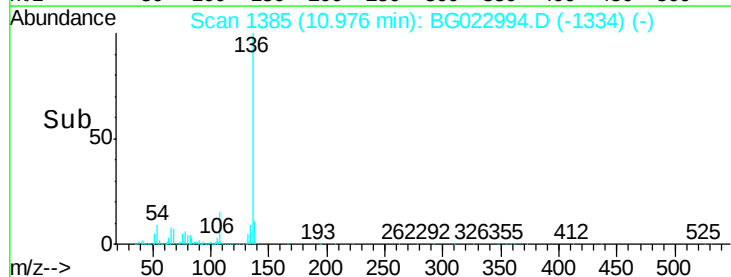
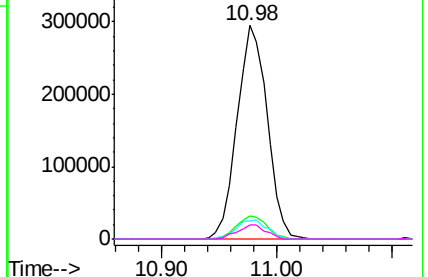


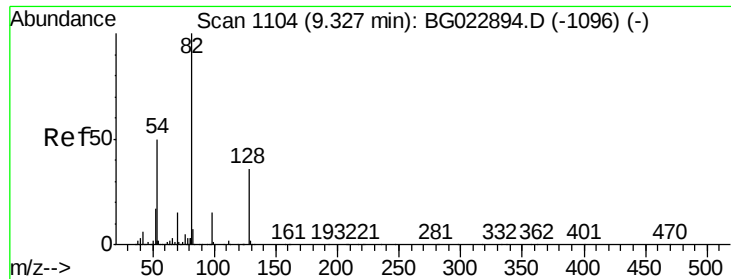
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.98 min Scan# 1385  
Delta R.T. -0.00 min  
Lab File: BG022994.D  
Acq: 10 Jul 2016 10:48

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 533591 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 9.6   | 14.4   |
| 54       | 8.7   | 7.3   | 10.9   |
| 68       | 6.6   | 5.3   | 7.9    |



Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BG  
Ion 68.00 (67.70 to 68.70): BG

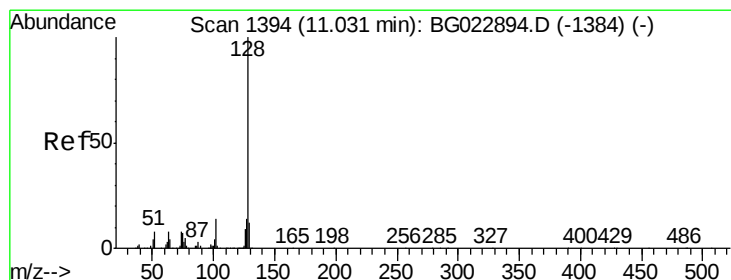
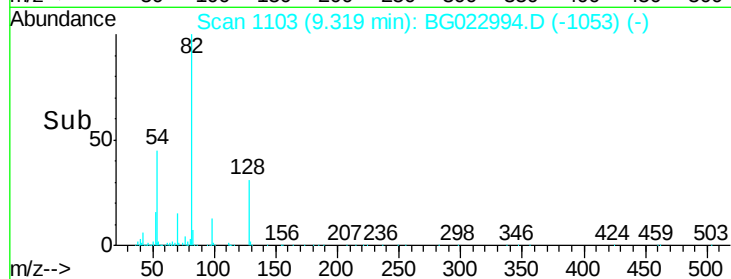
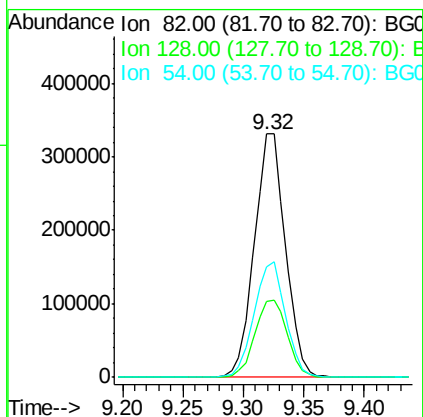
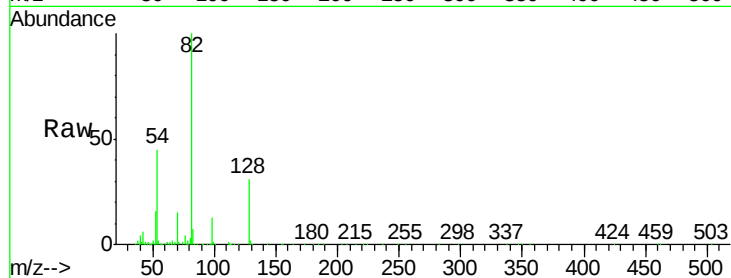




#23  
Nitrobenzene-d5  
Concen: 47.56 ng  
RT: 9.32 min Scan# 1103  
Delta R.T. -0.01 min  
Lab File: BG022994.D  
Acq: 10 Jul 2016 10:48

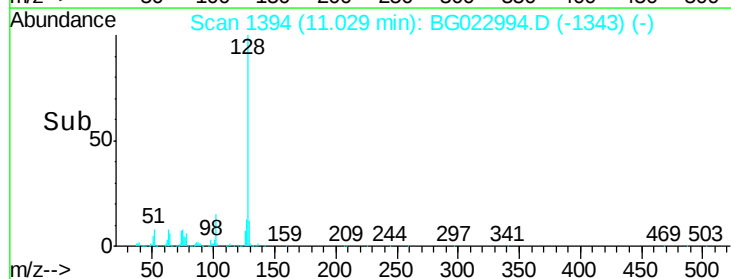
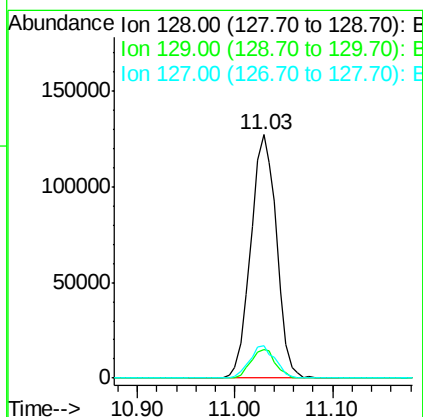
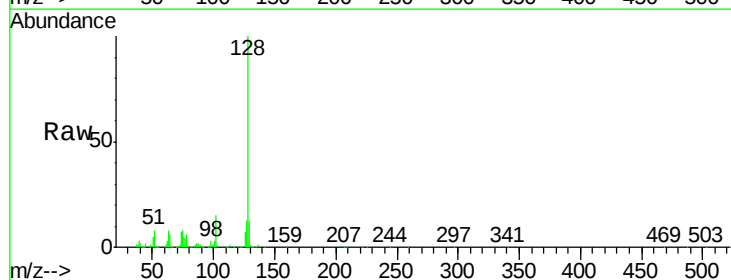
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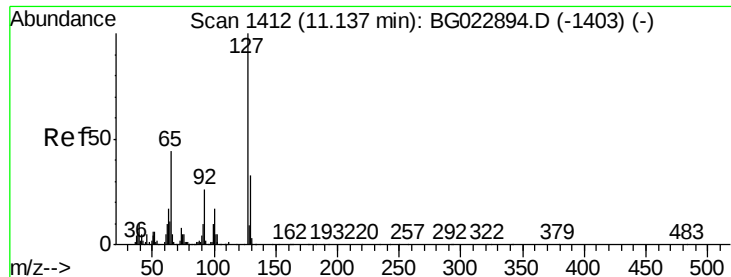
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 31.3  | 24.4  | 36.6  |
| 54      | 45.5  | 41.4  | 62.0  |



#31  
Naphthalene  
Concen: 8.69 ng  
RT: 11.03 min Scan# 1394  
Delta R.T. -0.00 min  
Lab File: BG022994.D  
Acq: 10 Jul 2016 10:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.8  | 9.4   | 14.0  |
| 127     | 13.4  | 11.3  | 16.9  |

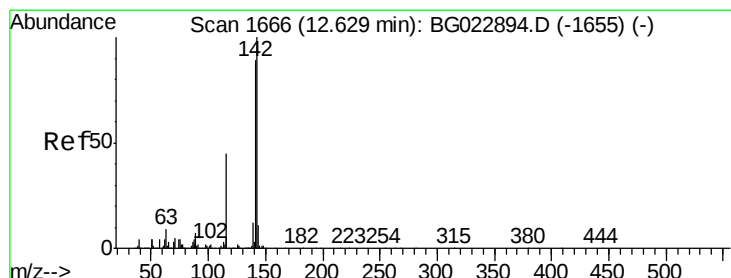
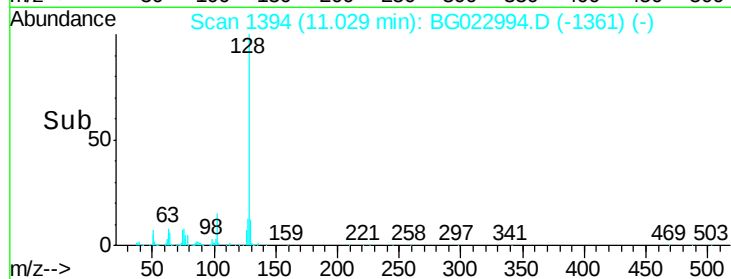
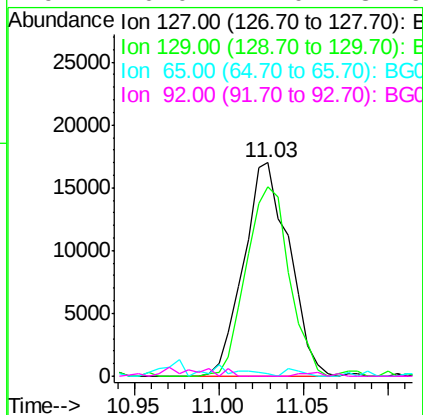
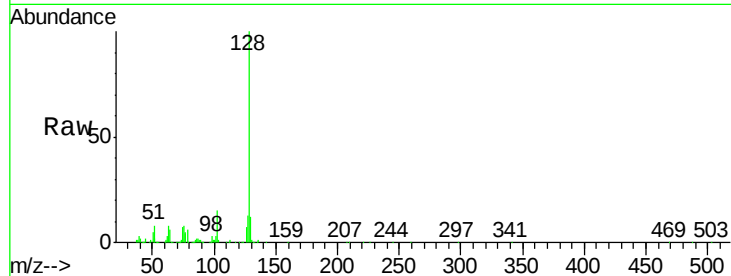




#33  
4-Chloroaniline  
Concen: 2.39 ng  
RT: 11.03 min Scan# 1394  
Delta R.T. -0.11 min  
Lab File: BG022994.D  
Acq: 10 Jul 2016 10:48

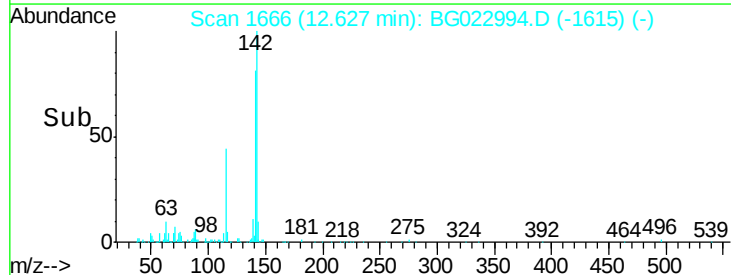
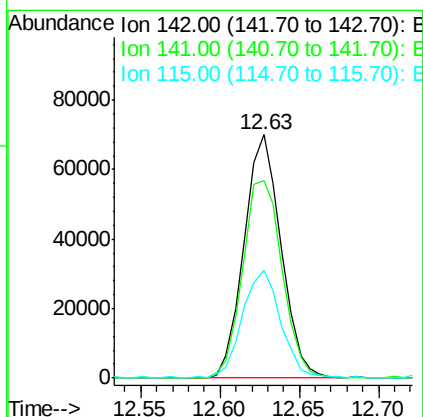
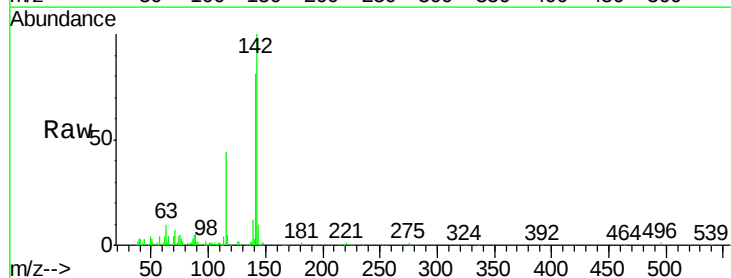
Instrument :  
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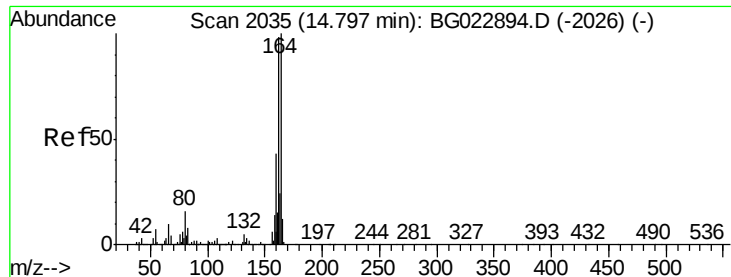
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 127     | 100   |       |       |
| 129     | 88.5  | 27.9  | 41.9# |
| 65      | 1.2   | 36.8  | 55.2# |
| 92      | 0.0   | 21.0  | 31.6# |



#37  
2-Methylnaphthalene  
Concen: 5.29 ng  
RT: 12.63 min Scan# 1666  
Delta R.T. -0.00 min  
Lab File: BG022994.D  
Acq: 10 Jul 2016 10:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 81.1  | 70.2  | 105.2 |
| 115     | 44.3  | 41.7  | 62.5  |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.80 min Scan# 2035

Delta R.T. -0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Instrument :

BNA\_G

ClientSampleId :

1A-LOCATION-1-0-5FT

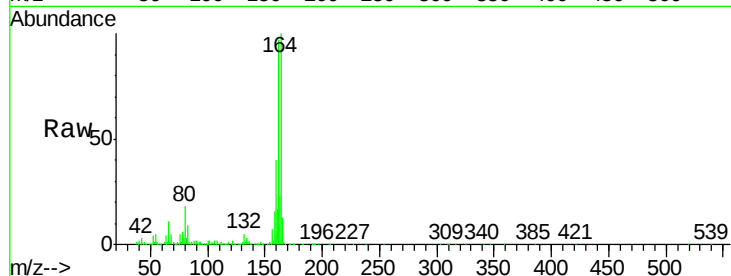
Tgt Ion:164 Resp: 385821

Ion Ratio Lower Upper

164 100

162 97.0 87.7 131.5

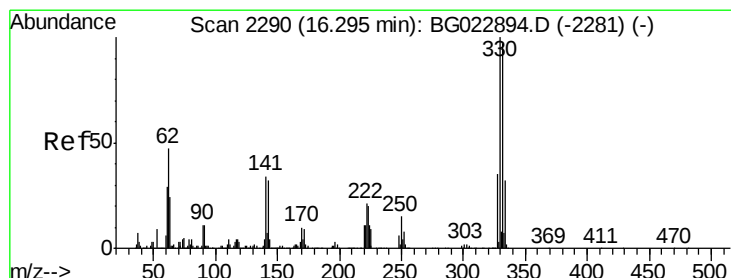
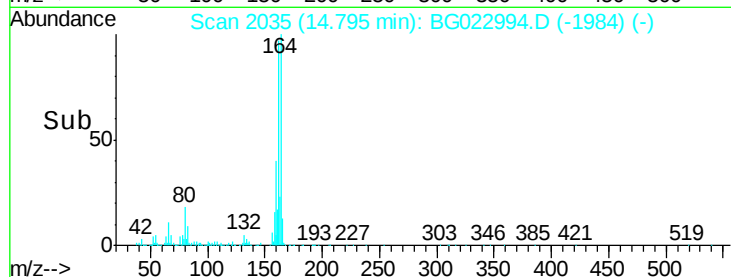
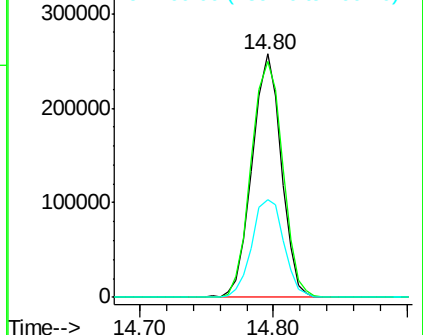
160 40.3 37.2 55.8



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



#41

2,4,6-Tribromophenol

Concen: 55.82 ng

RT: 16.29 min Scan# 2289

Delta R.T. -0.01 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

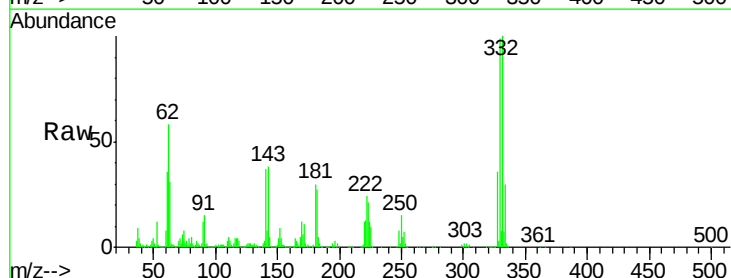
Tgt Ion:330 Resp: 387081

Ion Ratio Lower Upper

330 100

332 97.3 77.4 116.2

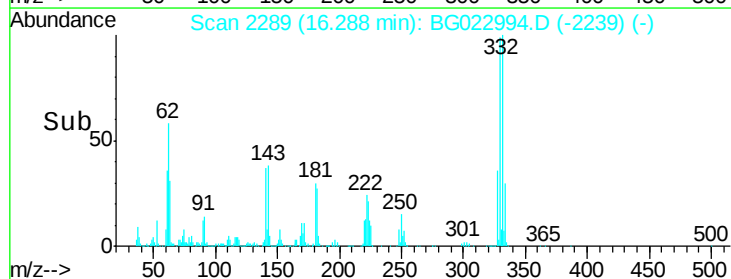
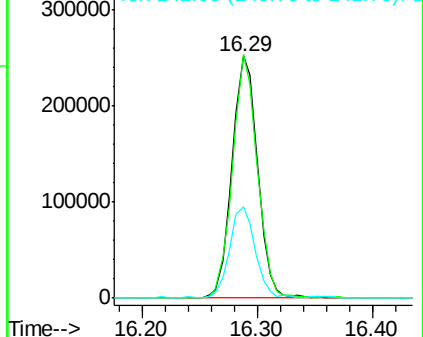
141 37.2 31.7 47.5

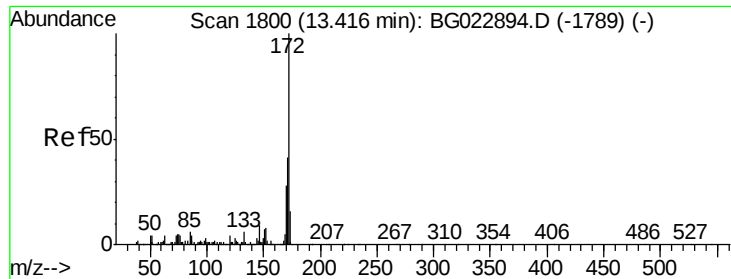


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

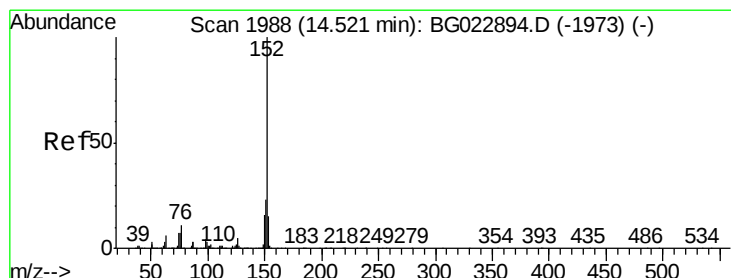
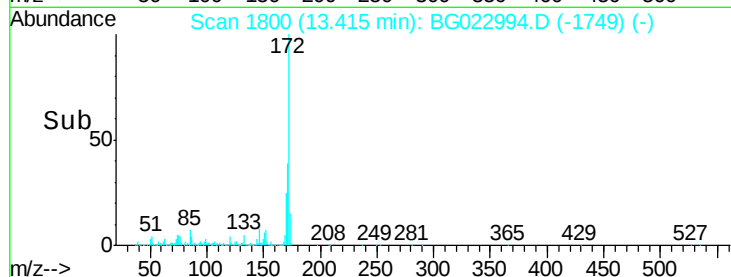
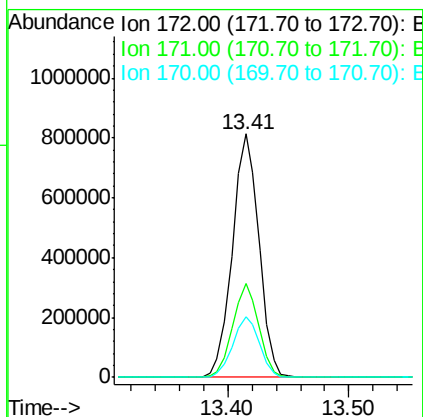
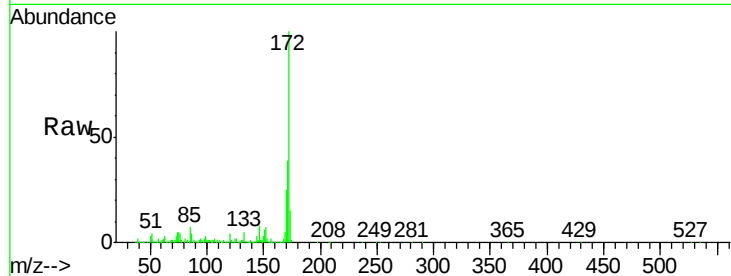




#44  
2-Fluorobiphenyl  
Concen: 50.73 ng  
RT: 13.41 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: BG022994.D  
Acq: 10 Jul 2016 10:48

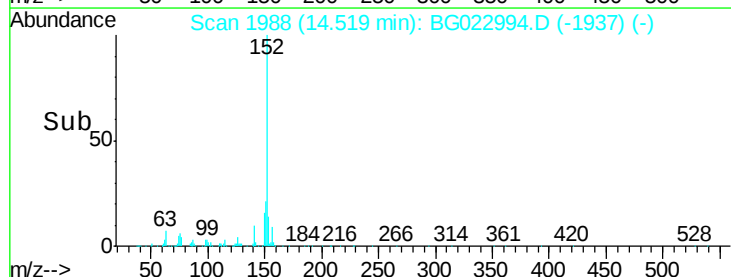
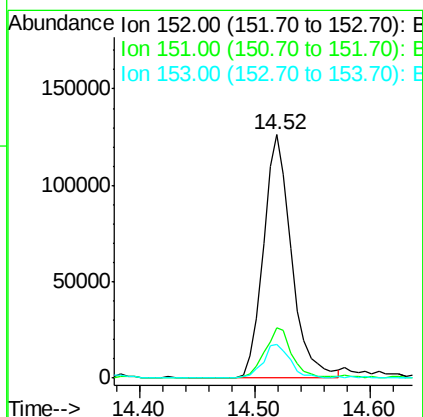
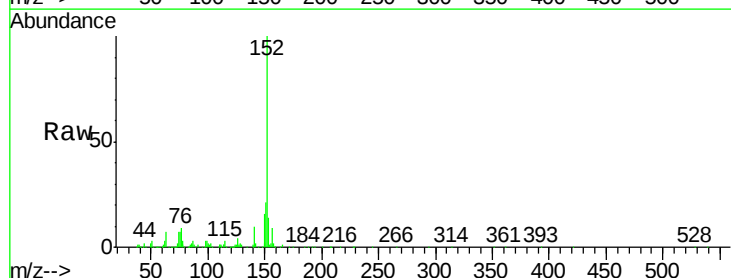
Instrument :  
BNA\_G  
ClientSampleId :  
1A-LOCATION-1-0-5FT

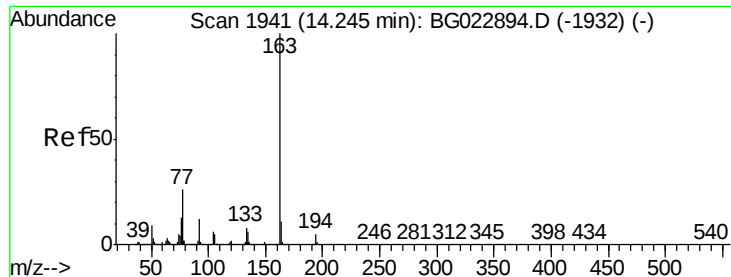
Tgt Ion:172 Resp: 1242551  
Ion Ratio Lower Upper  
172 100  
171 38.6 31.6 47.4  
170 25.1 21.3 31.9



#48  
Acenaphthylene  
Concen: 6.09 ng  
RT: 14.52 min Scan# 1988  
Delta R.T. -0.00 min  
Lab File: BG022994.D  
Acq: 10 Jul 2016 10:48

Tgt Ion:152 Resp: 214393  
Ion Ratio Lower Upper  
152 100  
151 20.6 17.6 26.4  
153 13.9 11.4 17.2

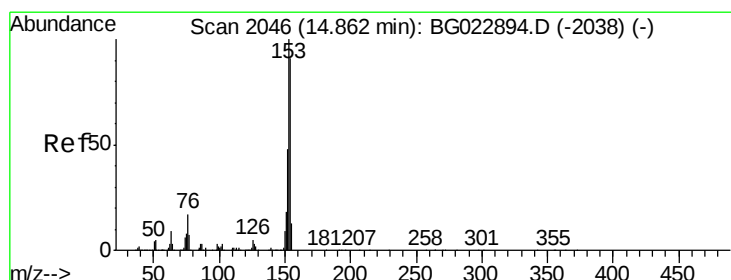
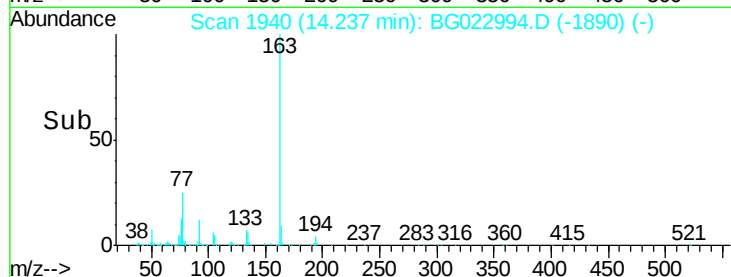
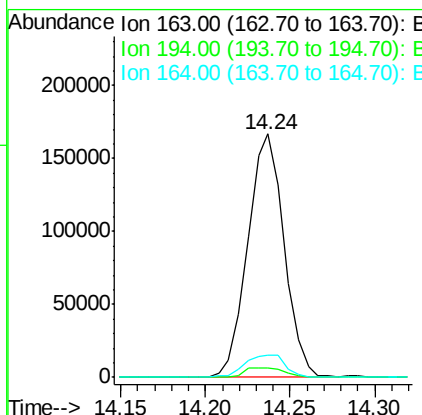
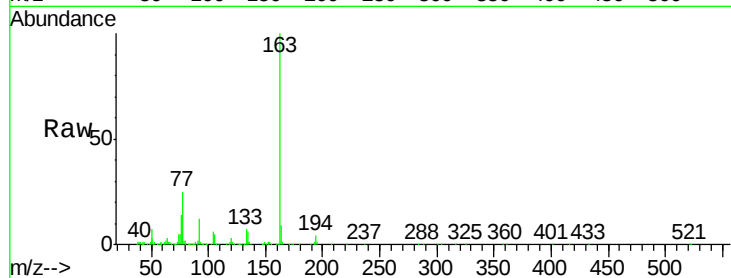




#49  
Dimethylphthalate  
Concen: 7.89 ng  
RT: 14.24 min Scan# 1940  
Delta R.T. -0.01 min  
Lab File: BG022994.D  
Acq: 10 Jul 2016 10:48

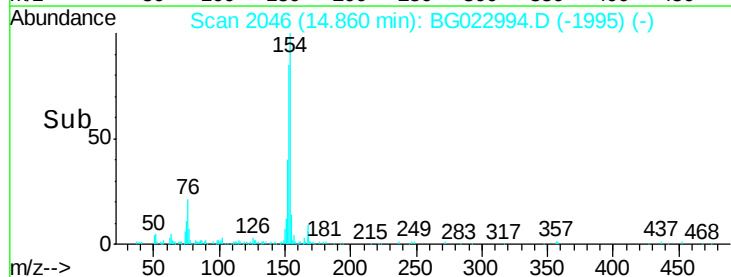
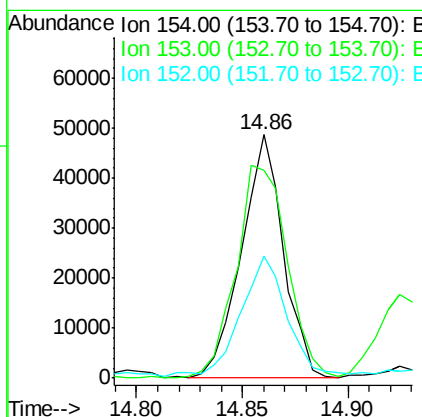
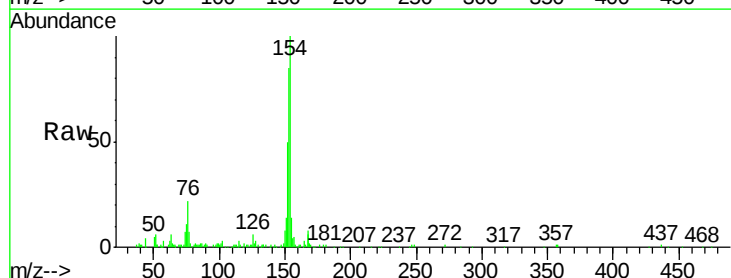
Instrument :  
BNA\_G  
ClientSampleId :  
1A-LOCATION-1-0-5FT

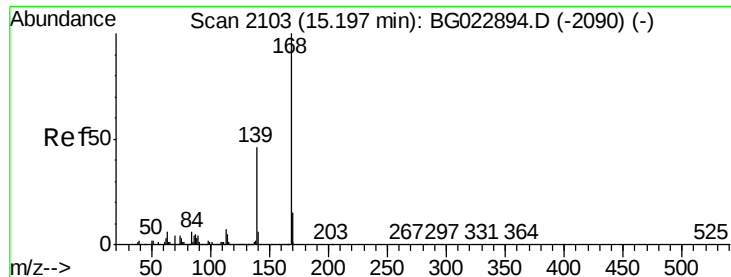
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.0   | 3.6   | 5.4   |
| 164     | 9.2   | 8.1   | 12.1  |



#51  
Acenaphthene  
Concen: 2.91 ng  
RT: 14.86 min Scan# 2046  
Delta R.T. -0.00 min  
Lab File: BG022994.D  
Acq: 10 Jul 2016 10:48

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 154     | 100   |       |        |
| 153     | 85.3  | 87.5  | 131.3# |
| 152     | 50.4  | 42.7  | 64.1   |

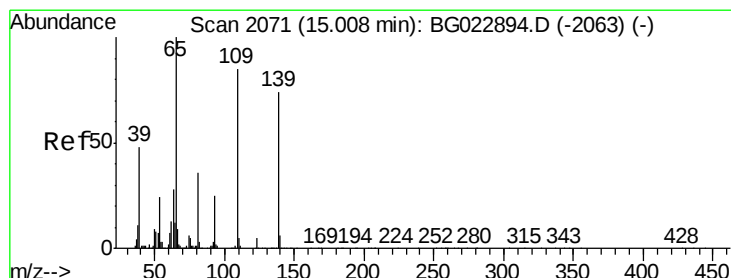
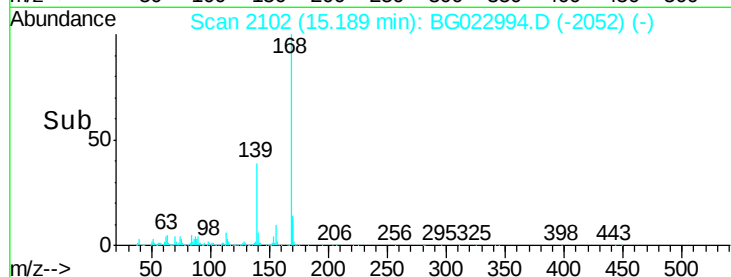
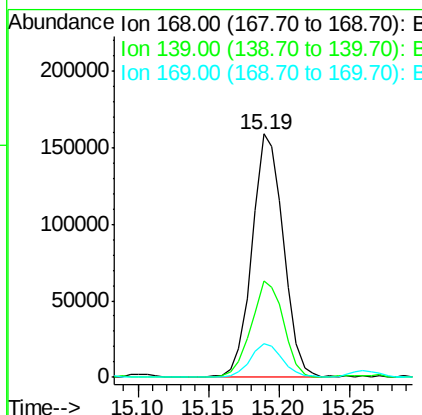
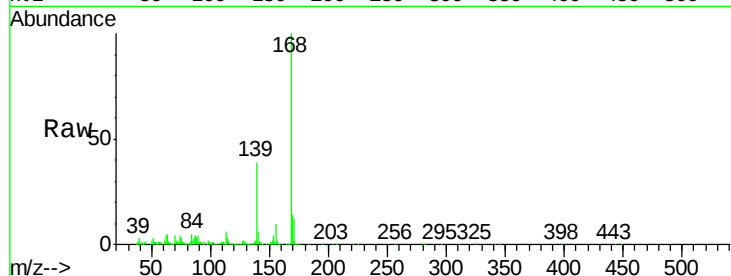




#54  
Dibenzenofuran  
Concen: 7.22 ng  
RT: 15.19 min Scan# 2102  
Delta R.T. -0.01 min  
Lab File: BG022994.D  
Acq: 10 Jul 2016 10:48

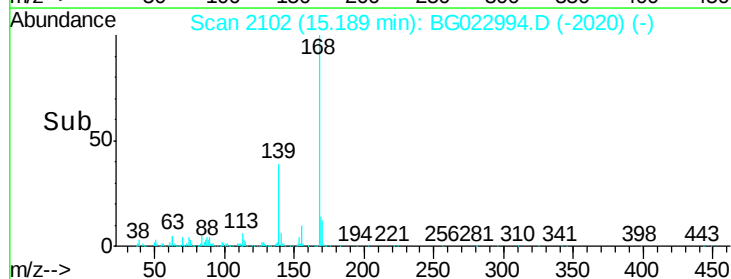
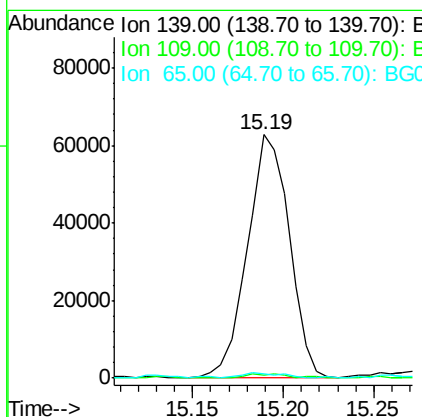
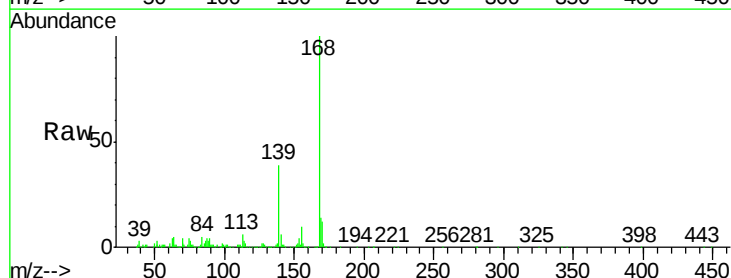
Instrument :  
BNA\_G  
ClientSampleId :  
1A-LOCATION-1-0-5FT

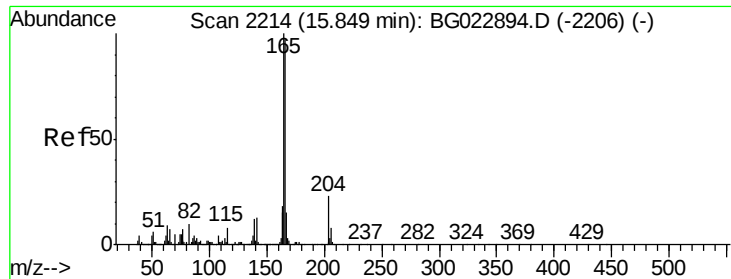
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 39.5  | 36.4  | 54.6  |
| 169     | 13.8  | 11.9  | 17.9  |



#55  
4-Nitrophenol  
Concen: 17.05 ng  
RT: 15.19 min Scan# 2102  
Delta R.T. 0.18 min  
Lab File: BG022994.D  
Acq: 10 Jul 2016 10:48

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 139     | 100   |       |        |
| 109     | 1.4   | 103.0 | 143.0# |
| 65      | 1.7   | 112.7 | 152.7# |

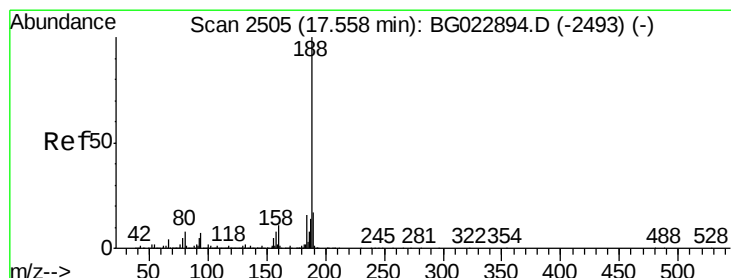
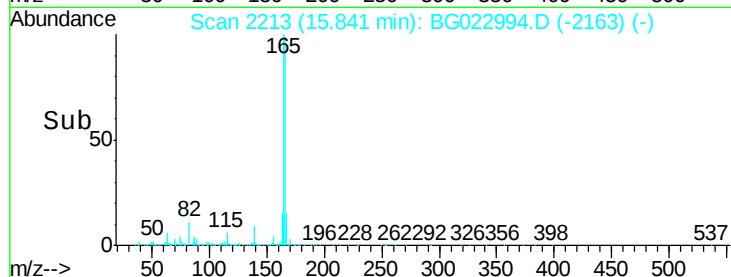
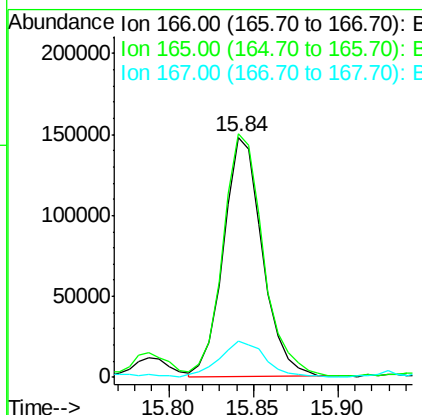
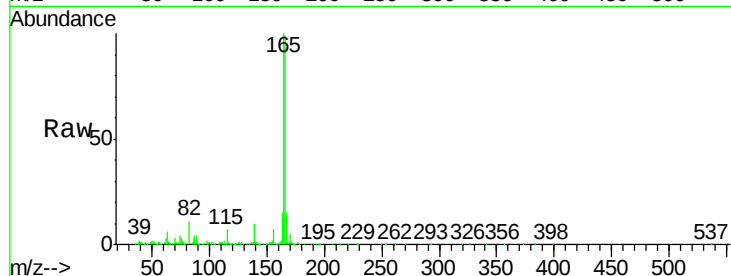




#57  
**Fluorene**  
 Concen: 7.91 ng  
 RT: 15.84 min Scan# 2213  
 Delta R.T. -0.01 min  
 Lab File: BG022994.D  
 Acq: 10 Jul 2016 10:48

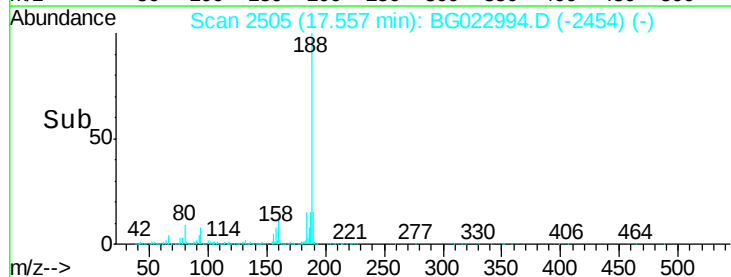
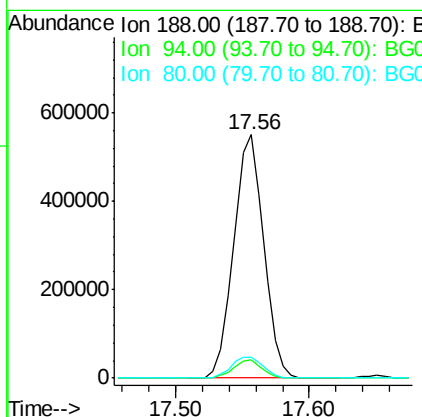
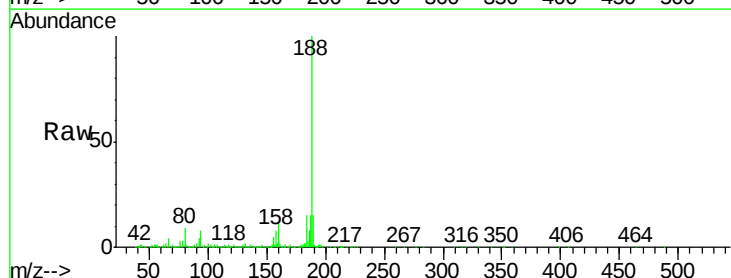
Instrument :  
 BNA\_G  
 ClientSampleId :  
 1A-LOCATION-1-0-5FT

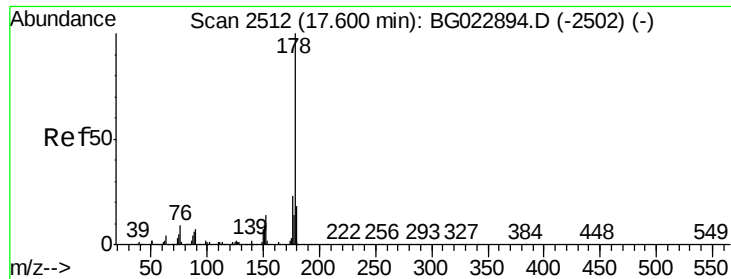
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 101.4 | 81.0  | 121.6 |
| 167     | 15.2  | 12.0  | 18.0  |



#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 17.56 min Scan# 2505  
 Delta R.T. -0.00 min  
 Lab File: BG022994.D  
 Acq: 10 Jul 2016 10:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.7   | 5.2   | 7.8   |
| 80      | 8.7   | 7.2   | 10.8  |





#70

Phenanthrene

Concen: 53.76 ng

RT: 17.60 min Scan# 2512

Delta R.T. -0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Instrument :

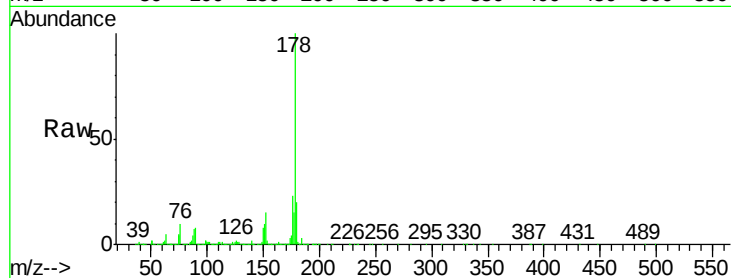
BNA\_G

ClientSampleId :

1A-LOCATION-1-0-5FT

Tgt Ion:178 Resp: 2265147

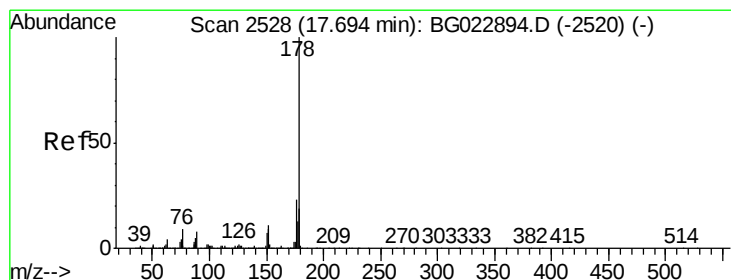
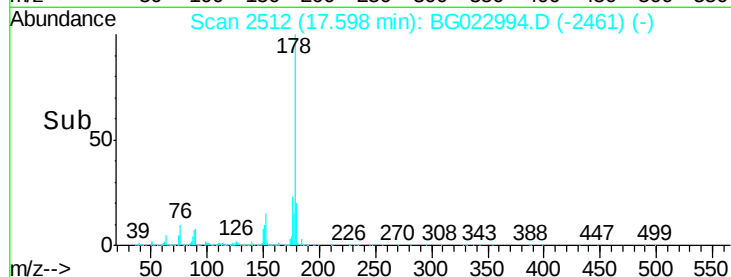
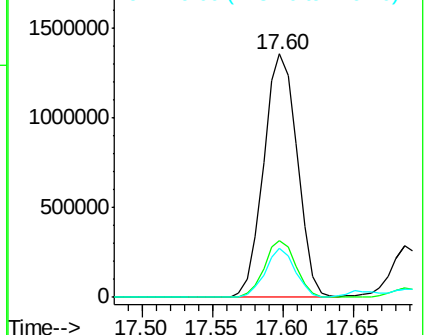
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 23.2  | 16.8  | 25.2  |
| 179 | 20.1  | 14.3  | 21.5  |



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



#71

Anthracene

Concen: 10.11 ng

RT: 17.69 min Scan# 2527

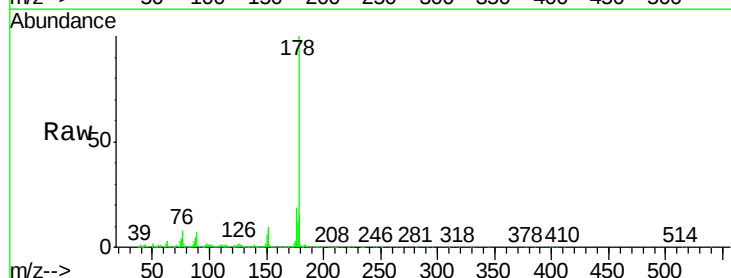
Delta R.T. -0.01 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Tgt Ion:178 Resp: 431524

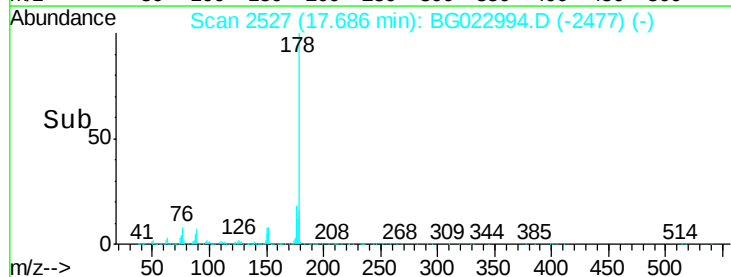
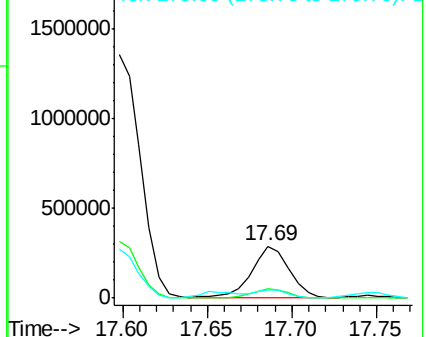
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.7  | 17.3  | 25.9  |
| 179 | 16.2  | 14.0  | 21.0  |

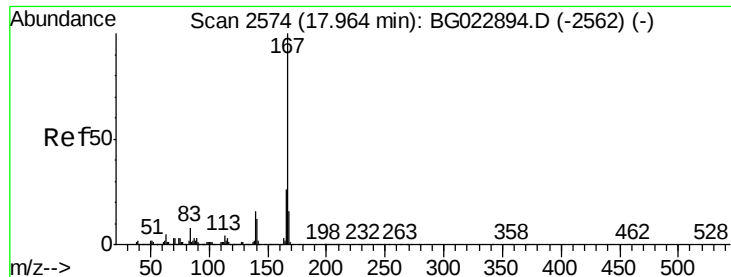


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 6.52 ng

RT: 17.96 min Scan# 2574

Delta R.T. -0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

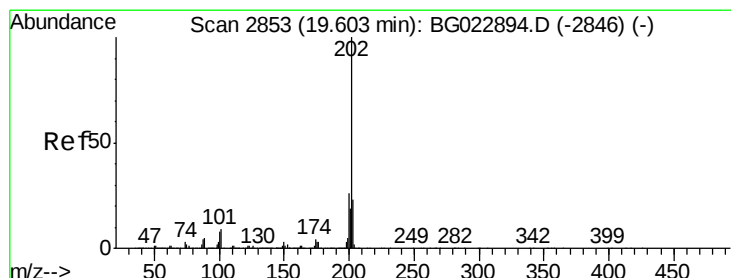
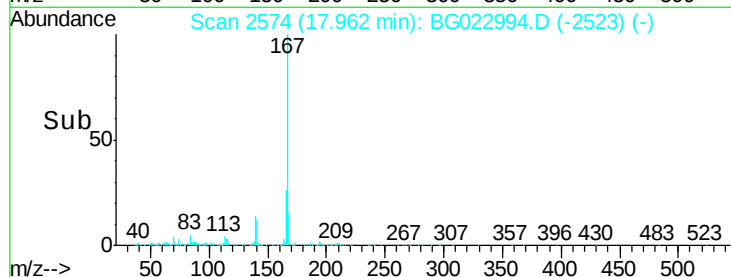
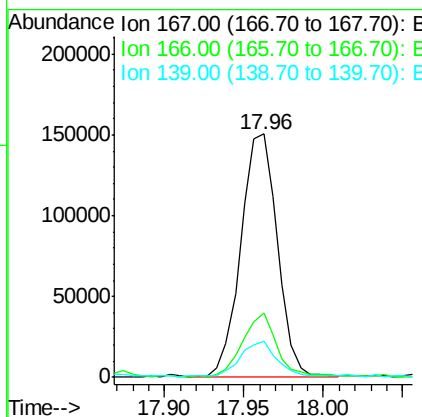
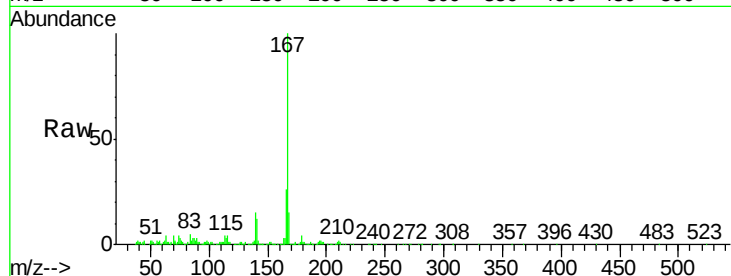
Instrument :

BNA\_G

ClientSampleId :

1A-LOCATION-1-0-5FT

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 167   | Resp: | 240397 |
| Ion      | Ratio | Lower | Upper  |
| 167      | 100   |       |        |
| 166      | 26.4  | 20.7  | 31.1   |
| 139      | 14.6  | 11.9  | 17.9   |



#74

Fluoranthene

Concen: 43.16 ng

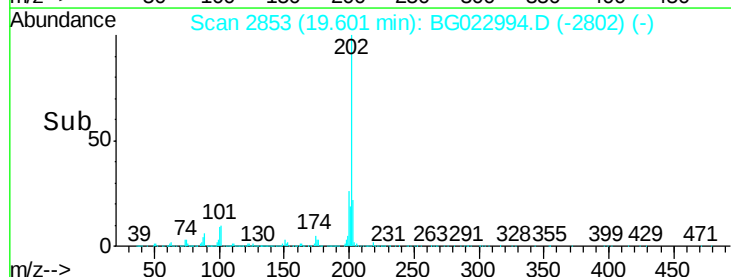
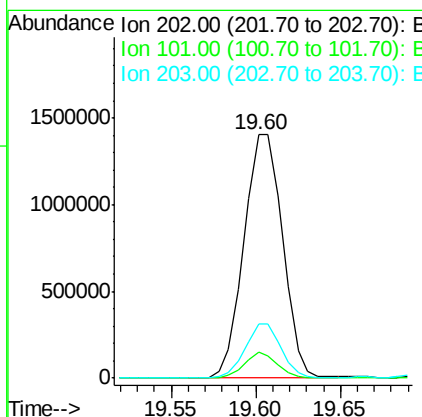
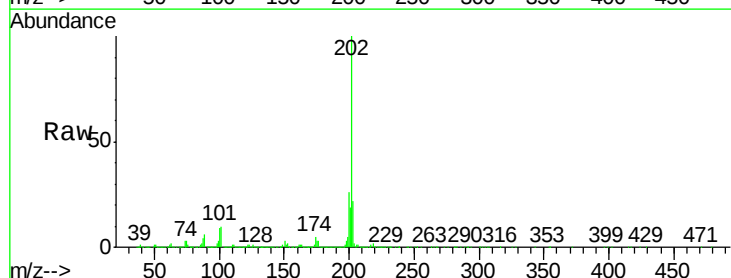
RT: 19.60 min Scan# 2853

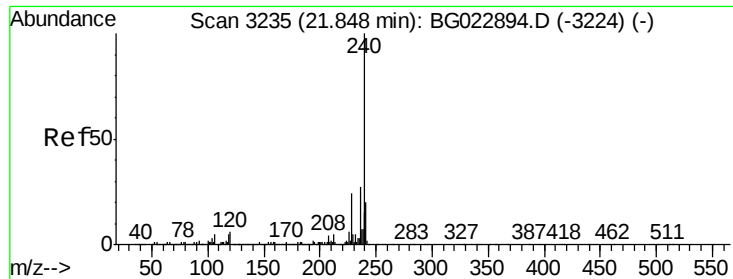
Delta R.T. -0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 202   | Resp: | 2231792 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 101      | 10.4  | 0.0   | 27.4    |
| 203      | 22.5  | 1.7   | 41.7    |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.85 min Scan# 3236

Delta R.T. 0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

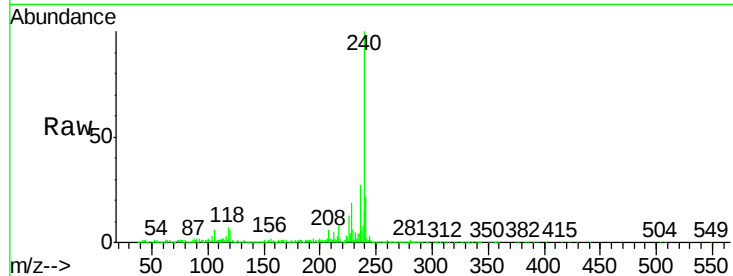
Instrument :

BNA\_G

ClientSampleId :

1A-LOCATION-1-0-5FT

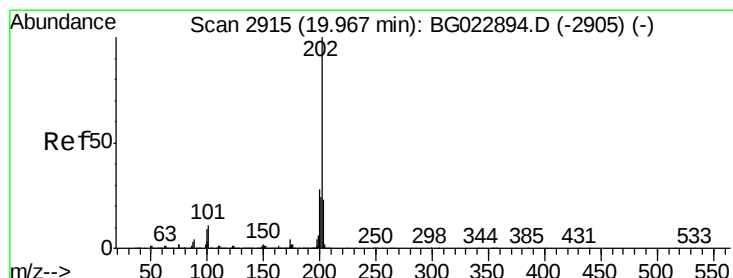
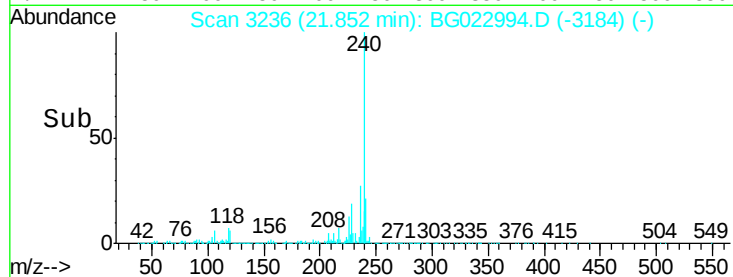
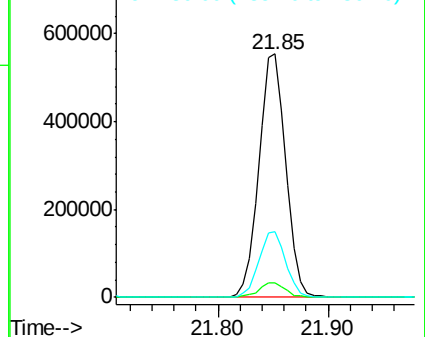
|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 240  | Resp: | 940100 |
| Ion Ratio |      | Lower | Upper  |
| 240       | 100  |       |        |
| 120       | 6.1  | 4.1   | 6.1    |
| 236       | 27.2 | 21.1  | 31.7   |



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



#77

Pyrene

Concen: 36.31 ng

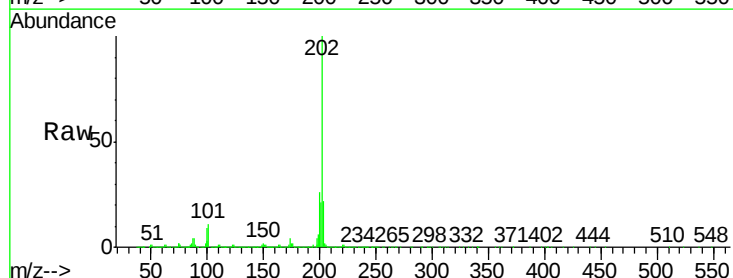
RT: 19.97 min Scan# 2915

Delta R.T. -0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

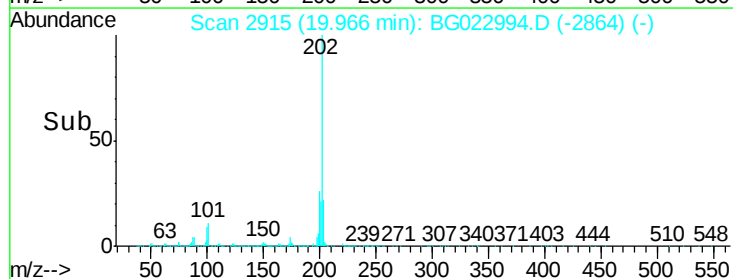
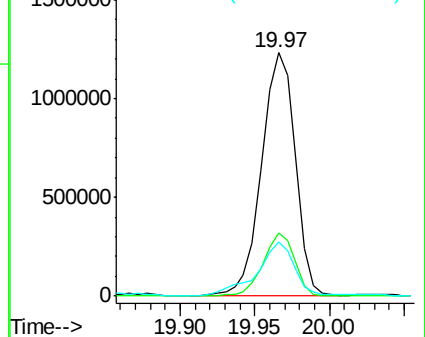
|           |      |       |         |
|-----------|------|-------|---------|
| Tgt Ion:  | 202  | Resp: | 1918011 |
| Ion Ratio |      | Lower | Upper   |
| 202       | 100  |       |         |
| 200       | 25.9 | 21.2  | 31.8    |
| 203       | 22.5 | 16.8  | 25.2    |

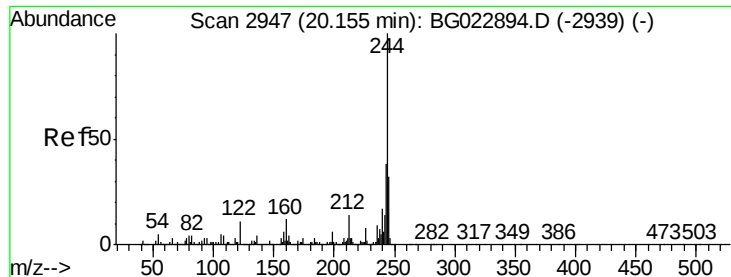


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 48.47 ng

RT: 20.15 min Scan# 2947

Delta R.T. -0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Instrument :

BNA\_G

ClientSampleId :

1A-LOCATION-1-0-5FT

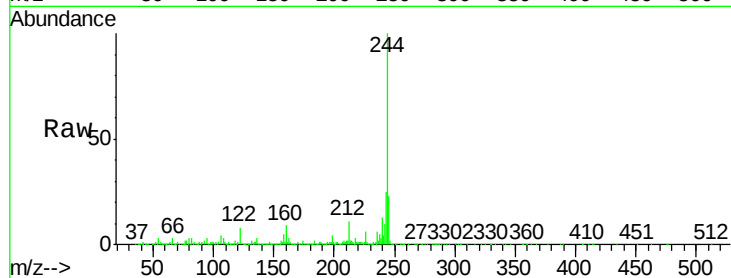
Tgt Ion:244 Resp: 1708660

Ion Ratio Lower Upper

244 100

212 10.8 10.8 16.2

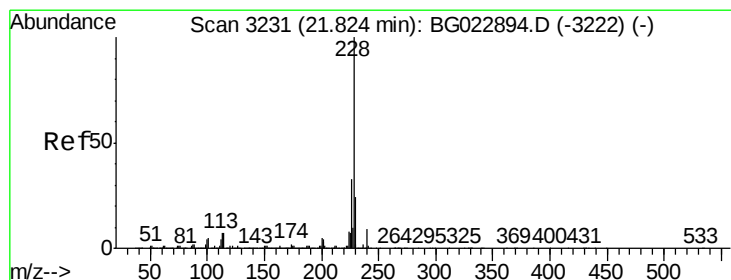
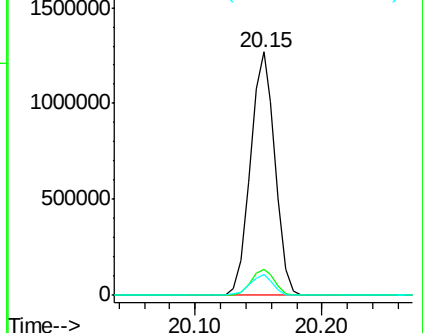
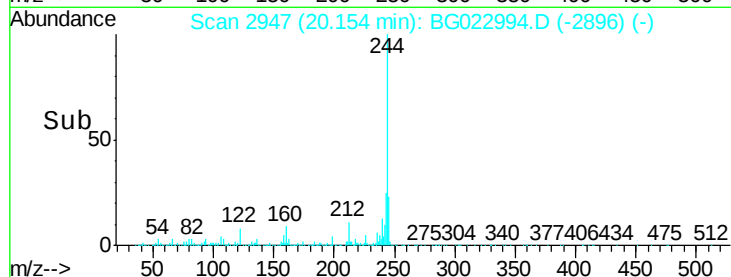
122 8.5 8.0 12.0



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



#80

Benzo(a)anthracene

Concen: 22.49 ng

RT: 21.83 min Scan# 3232

Delta R.T. 0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

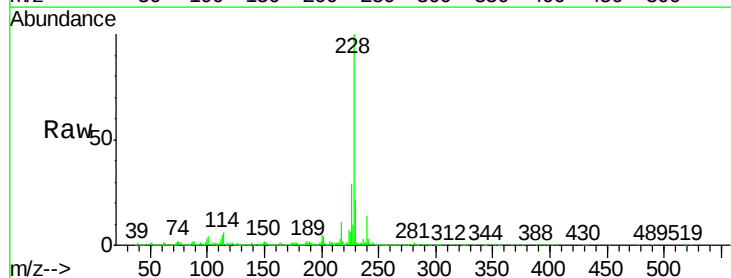
Tgt Ion:228 Resp: 1182739

Ion Ratio Lower Upper

228 100

226 29.5 25.3 37.9

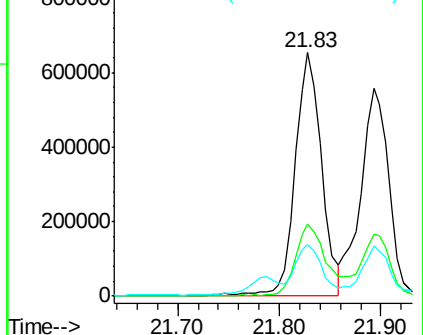
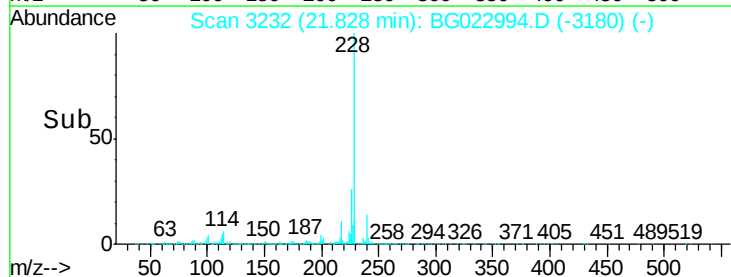
229 21.3 19.9 29.9

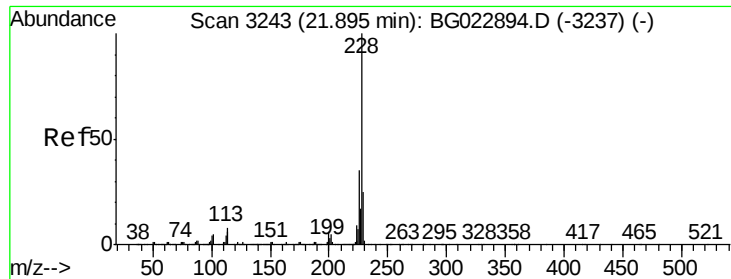


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 21.53 ng

RT: 21.89 min Scan# 3243

Delta R.T. -0.00 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Instrument :

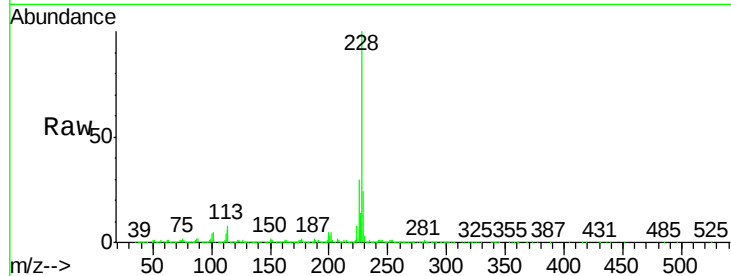
BNA\_G

ClientSampleId :

1A-LOCATION-1-0-5FT

Tgt Ion:228 Resp: 1062051

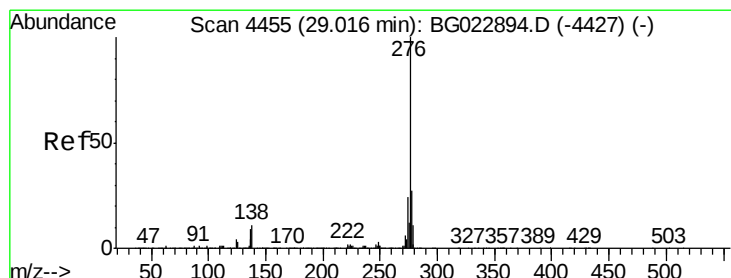
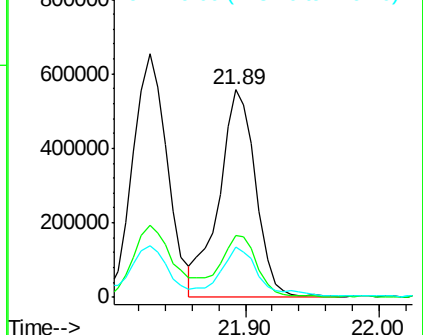
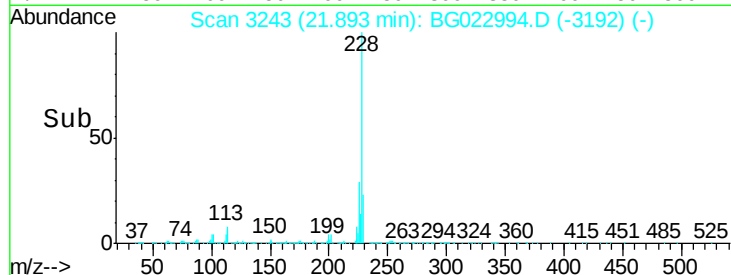
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.8  | 26.7  | 40.1  |
| 229 | 23.9  | 17.4  | 26.2  |



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 8.49 ng

RT: 29.06 min Scan# 4462

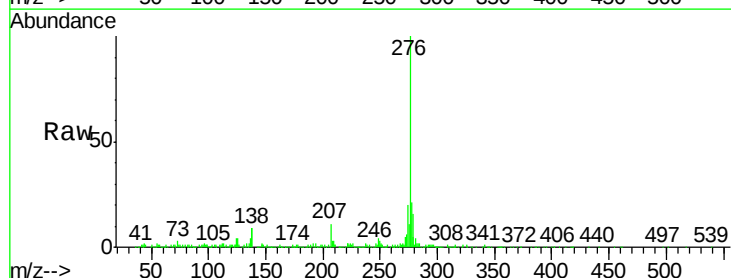
Delta R.T. 0.04 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Tgt Ion:276 Resp: 534076

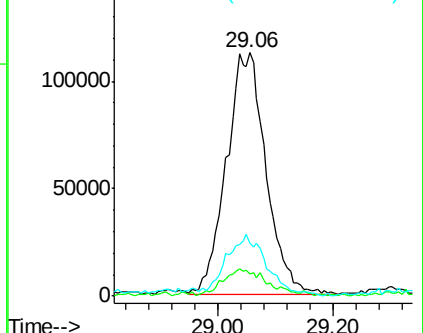
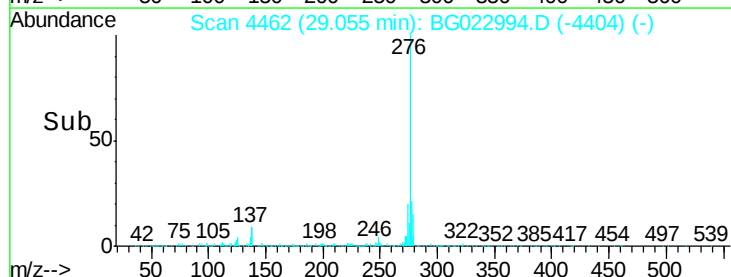
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 10.5  | 0.0   | 0.0#  |
| 277 | 25.7  | 0.0   | 0.0#  |

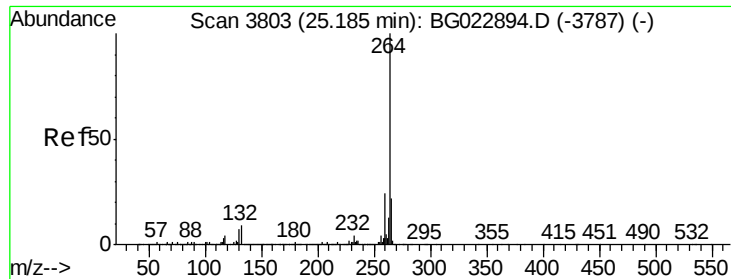


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



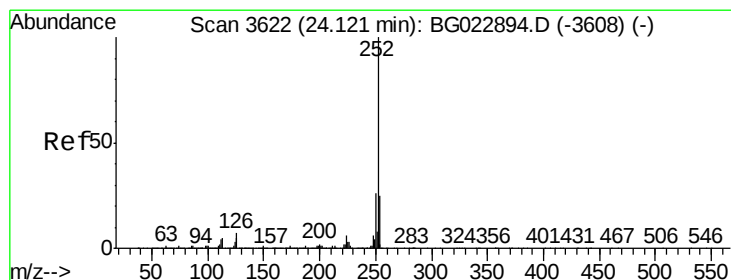
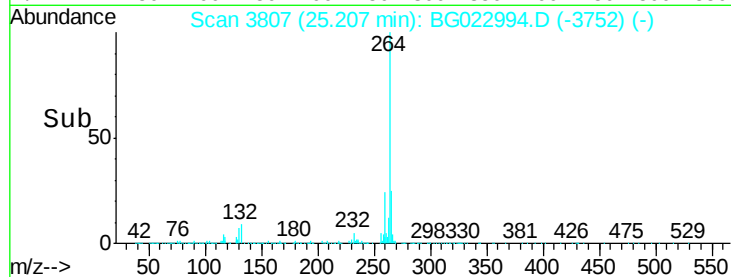
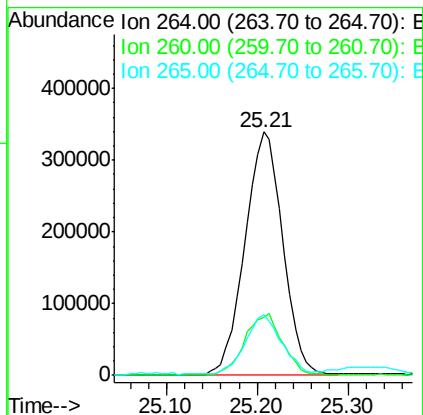
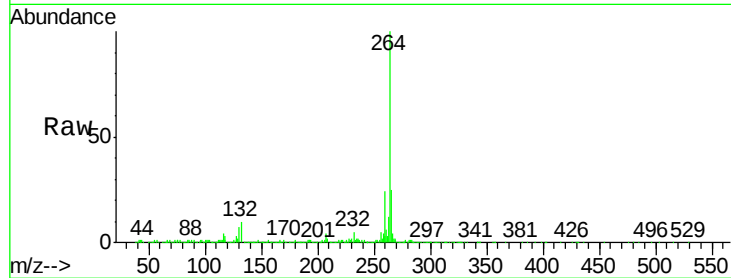


#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 25.21 min Scan# 3807  
Delta R.T. 0.02 min  
Lab File: BG022994.D  
Acq: 10 Jul 2016 10:48

Instrument :  
BNA\_G  
ClientSampleId :  
1A-LOCATION-1-0-5FT

Tgt Ion:264 Resp: 976170  

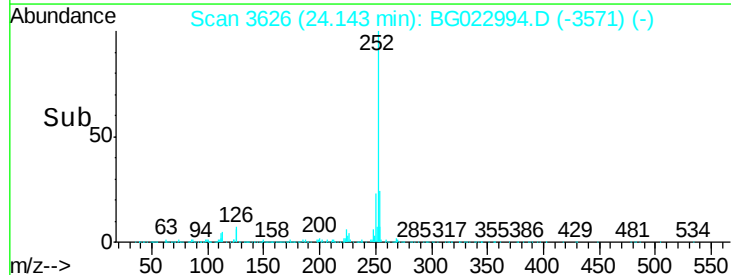
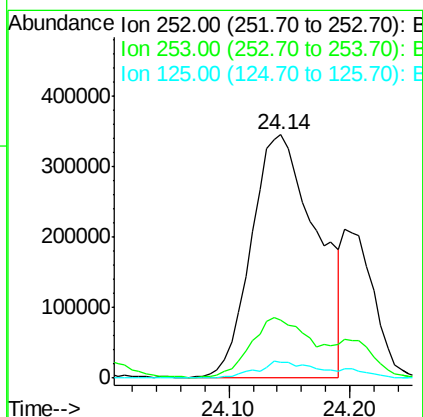
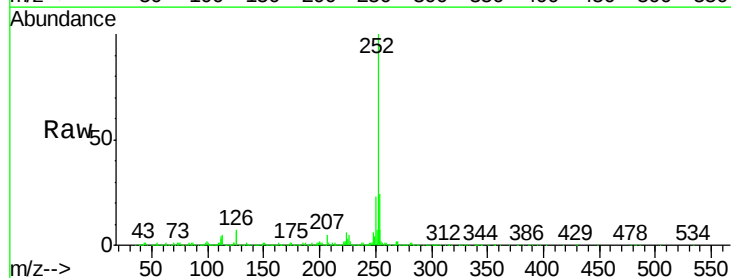
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.9  | 18.4  | 27.6  |
| 265 | 24.8  | 18.9  | 28.3  |

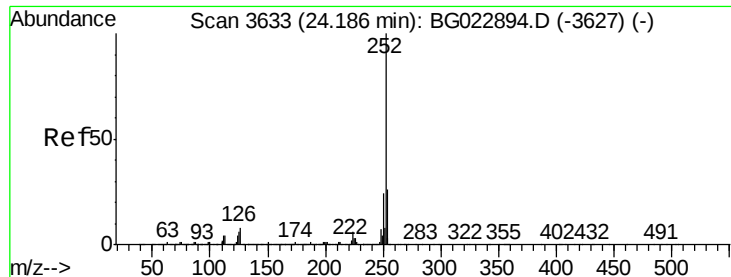


#87  
Benzo(b)fluoranthene  
Concen: 22.89 ng  
RT: 24.14 min Scan# 3626  
Delta R.T. 0.02 min  
Lab File: BG022994.D  
Acq: 10 Jul 2016 10:48

Tgt Ion:252 Resp: 1289091  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.8  | 18.9  | 28.3  |
| 125 | 6.2   | 3.9   | 5.9   |





#88

Benzo(k)fluoranthene

Concen: 24.12 ng

RT: 24.14 min Scan# 3626

Delta R.T. -0.04 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

Instrument :

BNA\_G

ClientSampleId :

1A-LOCATION-1-0-5FT

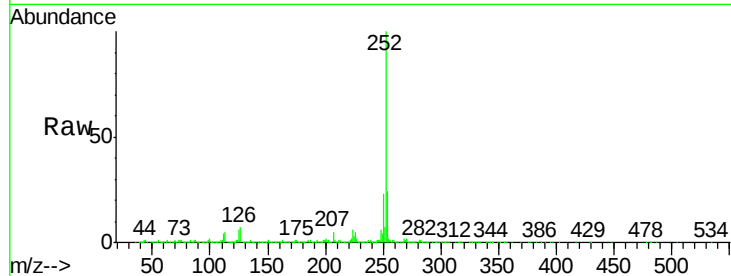
Tgt Ion:252 Resp: 1289091

Ion Ratio Lower Upper

252 100

253 23.8 18.8 28.2

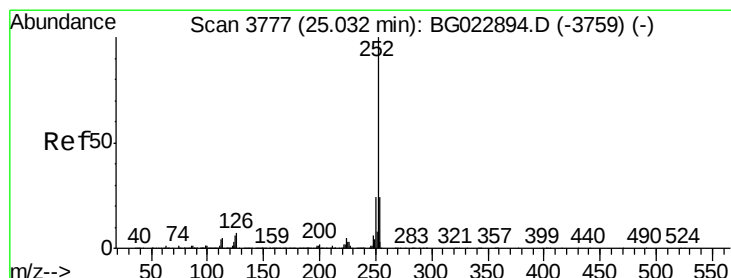
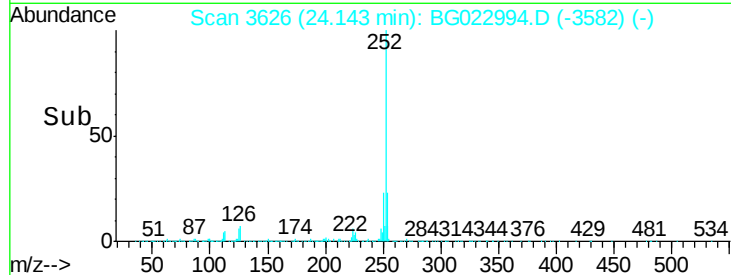
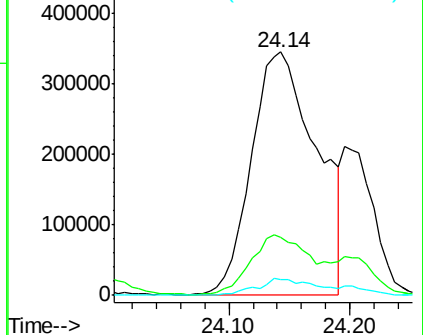
125 6.2 3.2 4.8#



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



#89

Benzo(a)pyrene

Concen: 17.42 ng

RT: 25.05 min Scan# 3780

Delta R.T. 0.02 min

Lab File: BG022994.D

Acq: 10 Jul 2016 10:48

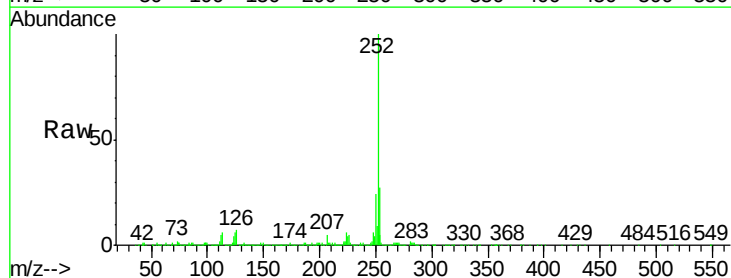
Tgt Ion:252 Resp: 940447

Ion Ratio Lower Upper

252 100

253 26.6 18.7 28.1

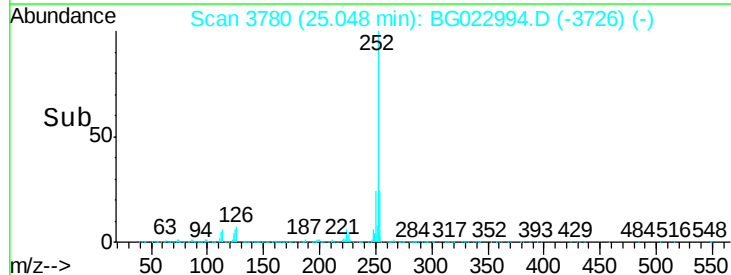
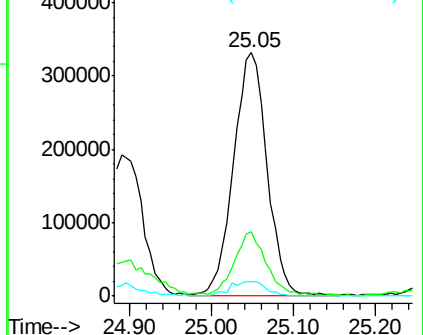
125 5.8 3.9 5.9

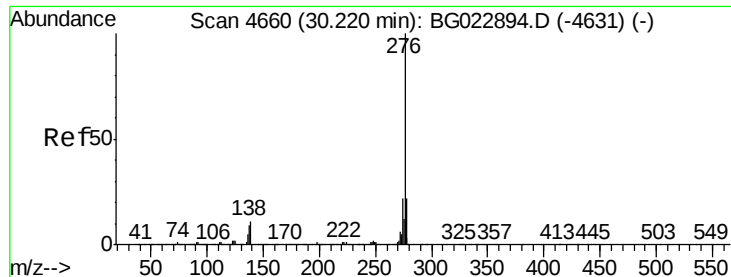


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91  
 Benzo(g,h,i)perylene  
 Concen: 8.70 ng  
 RT: 30.25 min Scan# 4666  
 Delta R.T. 0.03 min  
 Lab File: BG022994.D  
 Acq: 10 Jul 2016 10:48

Instrument :  
 BNA\_G  
 ClientSampleId :  
 1A-LOCATION-1-0-5FT

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 22.6  | 18.6  | 27.8  |
| 138     | 14.6  | 6.8   | 10.2  |

