

Data Path : Z:\HPCHEM1\BNA G\DATA\BG062416\  
 Data File : BG022530.D  
 Acq On : 24 Jun 2016 8:13  
 Operator : UM/SJ  
 Sample : H3625-07  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jun 24 15:37:56 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG062416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 24 04:19:57 2016  
 Response via : Initial Calibration

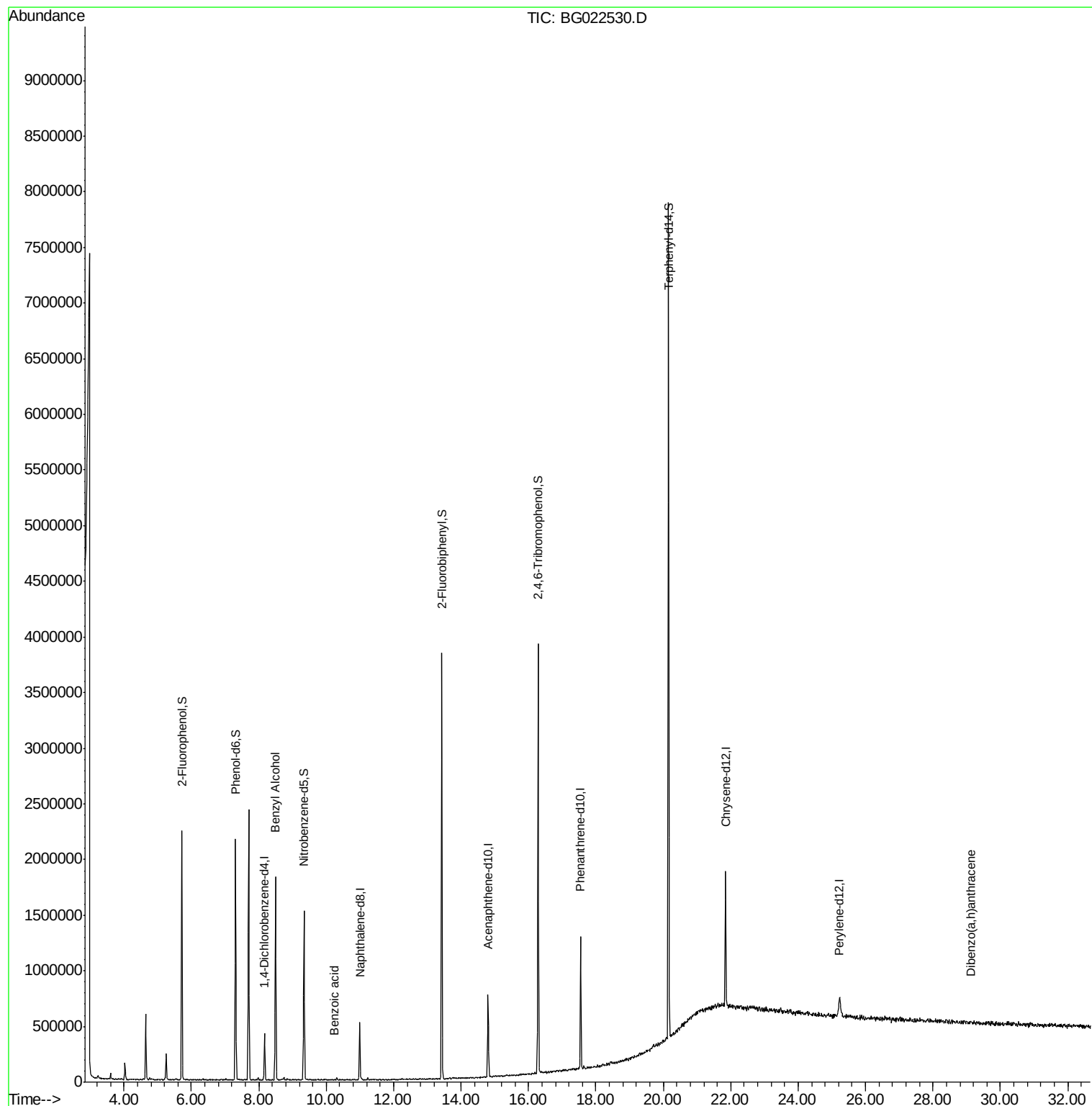
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.17  | 152  | 104519   | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8             | 10.99 | 136  | 398175   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 14.80 | 164  | 245644   | 20.00     | ng    | -0.02    |
| 63) Phenanthrene-d10           | 17.55 | 188  | 669942   | 20.00     | ng    | -0.02    |
| 75) Chrysene-d12               | 21.85 | 240  | 720018   | 20.00     | ng    | -0.02    |
| 86) Perylene-d12               | 25.21 | 264  | 54628    | 20.00     | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.72  | 112  | 843433   | 130.68    | ng    | 0.00     |
| 7) Phenol-d6                   | 7.32  | 99   | 1103963  | 122.17    | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.34  | 82   | 930780   | 100.09    | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 16.29 | 330  | 656826   | 172.30    | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 13.43 | 172  | 1774406  | 110.25    | ng    | -0.02    |
| 78) Terphenyl-d14              | 20.15 | 244  | 2789863  | 128.98    | ng    | -0.01    |
| Target Compounds               |       |      |          |           |       |          |
| 15) Benzyl Alcohol             | 8.50  | 79   | 21710    | 2.22      | ng    | # 49     |
| 32) Benzoic acid               | 10.24 | 122  | 347      | 3.94      | ng    | # 1      |
| 53) 2,4-Dinitrophenol          | 14.87 | 184  | 89       | Below Cal | #     | 1        |
| 64) 4,6-Dinitro-2-methylphenol | 15.93 | 198  | 198      | Below Cal | #     | 33       |
| 73) Di-n-butylphthalate        | 18.51 | 149  | 3164     | Below Cal | #     | 85       |
| 74) Fluoranthene               | 19.59 | 202  | 555      | Below Cal | #     | 61       |
| 90) Dibenzo(a,h)anthracene     | 29.12 | 278  | 6793     | 2.38      | ng    | # 95     |

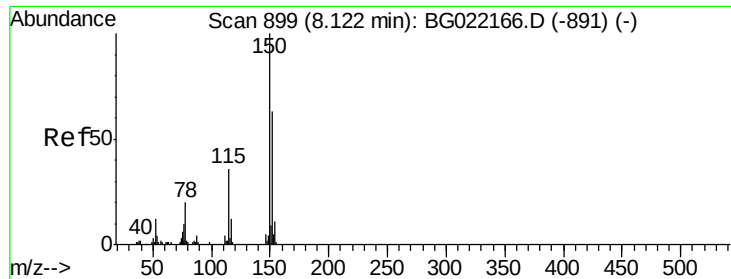
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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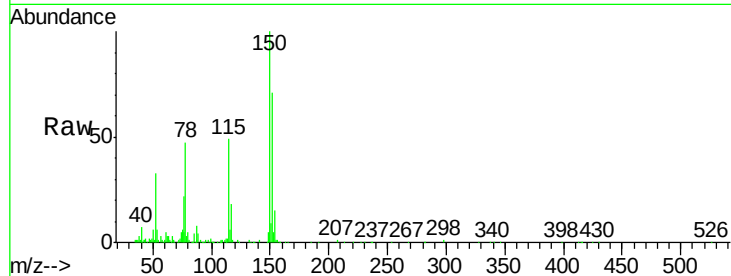


#1

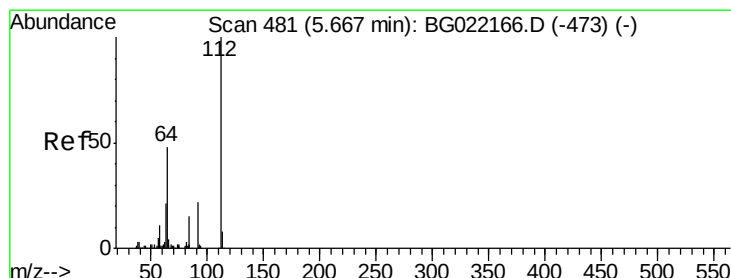
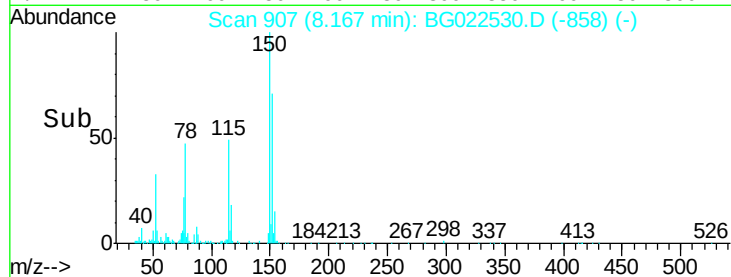
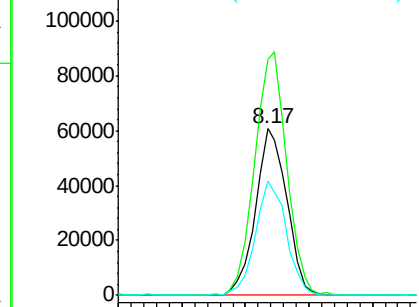
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.17 min Scan# 907  
Delta R.T. -0.01 min  
Lab File: BG022530.D  
Acq: 24 Jun 2016 8:13

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 152     | 100   |       |        |
| 150     | 141.6 | 144.7 | 217.1# |
| 115     | 69.2  | 64.0  | 96.0   |



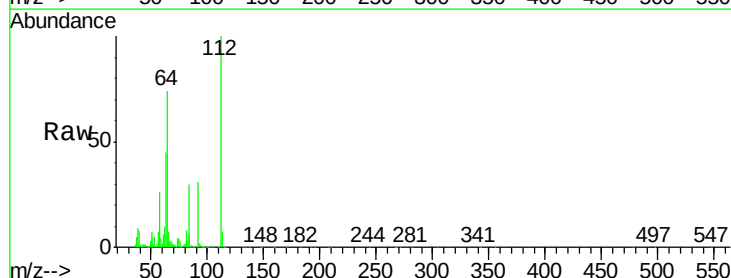
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



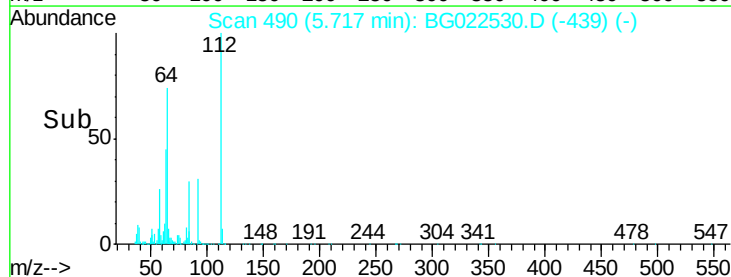
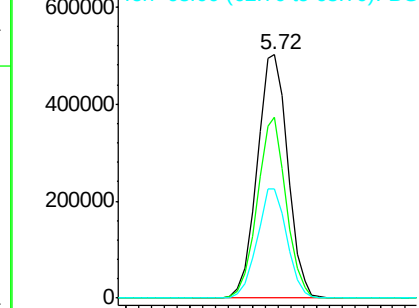
#5

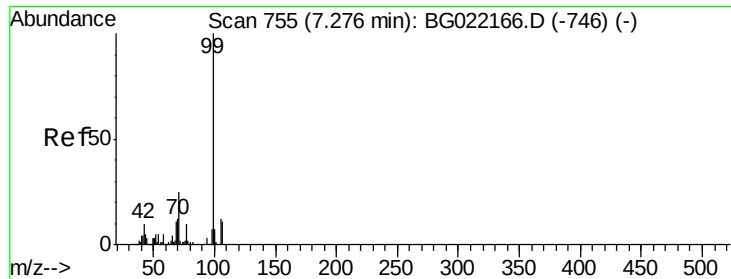
2-Fluorophenol  
Concen: 130.68 ng  
RT: 5.72 min Scan# 490  
Delta R.T. -0.00 min  
Lab File: BG022530.D  
Acq: 24 Jun 2016 8:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 74.1  | 59.0  | 88.4  |
| 63      | 44.6  | 37.8  | 56.8  |



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





#7

Phenol-d6

Concen: 122.17 ng

RT: 7.32 min Scan# 762

Delta R.T. -0.00 min

Lab File: BG022530.D

Acq: 24 Jun 2016 8:13

Instrument :

BNA\_G

ClientSampled :

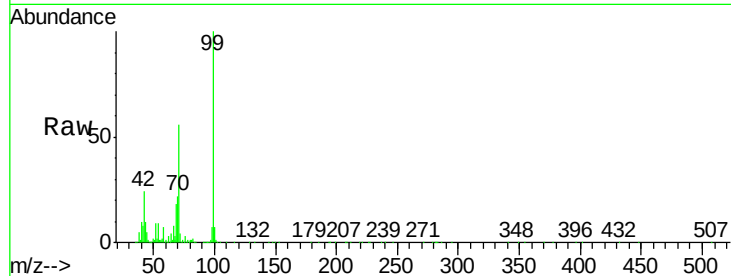
Tot Ion: 99 Resp: 1103963

Ion Ratio Lower Upper

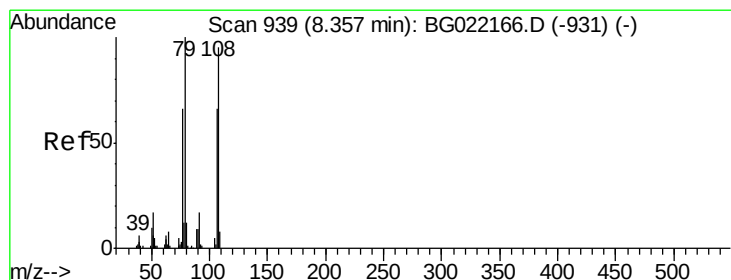
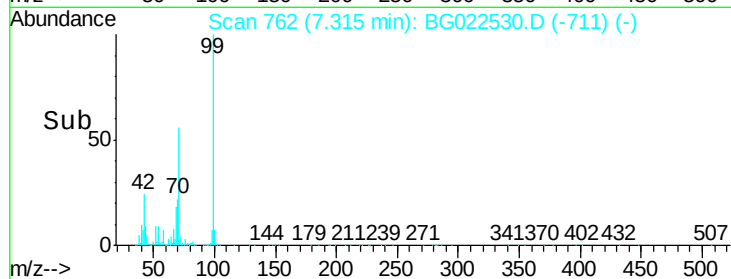
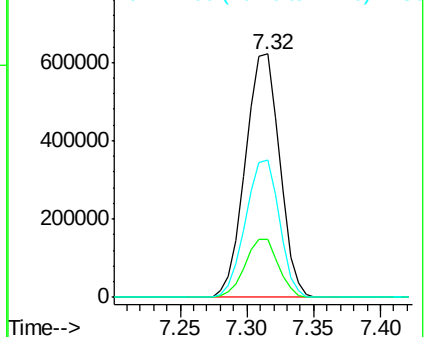
99 100

42 23.7 17.8 26.6

71 56.3 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



#15

Benzyl Alcohol

Concen: 2.22 ng

RT: 8.50 min Scan# 964

Delta R.T. 0.09 min

Lab File: BG022530.D

Acq: 24 Jun 2016 8:13

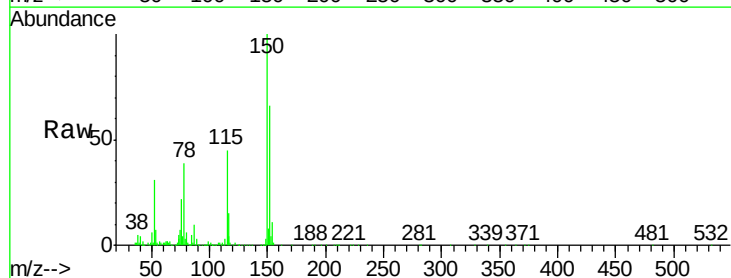
Tgt Ion: 79 Resp: 21710

Ion Ratio Lower Upper

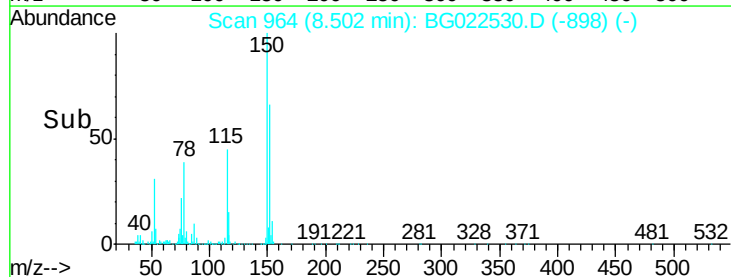
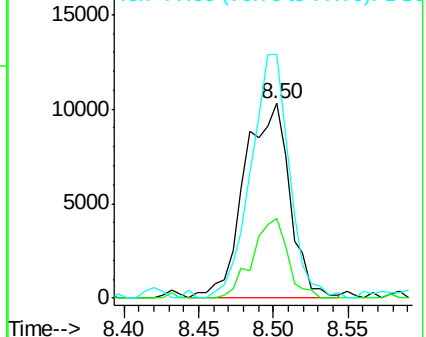
79 100

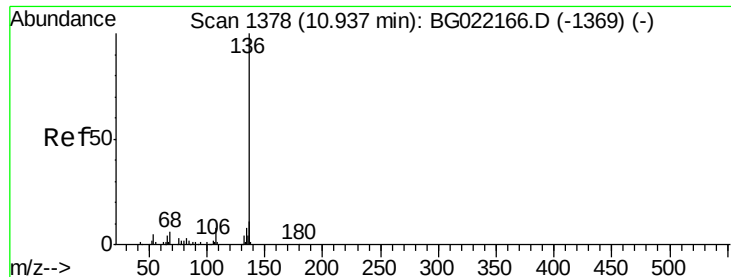
108 41.0 46.5 69.7#

77 125.1 52.3 78.5#



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC

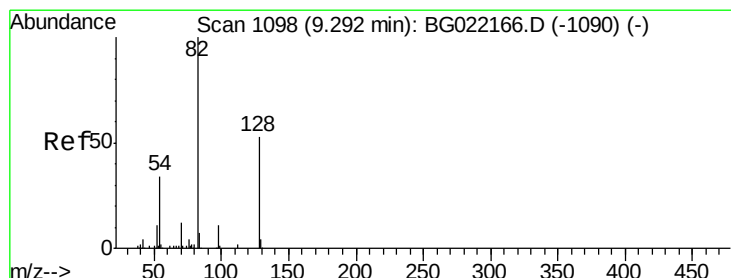
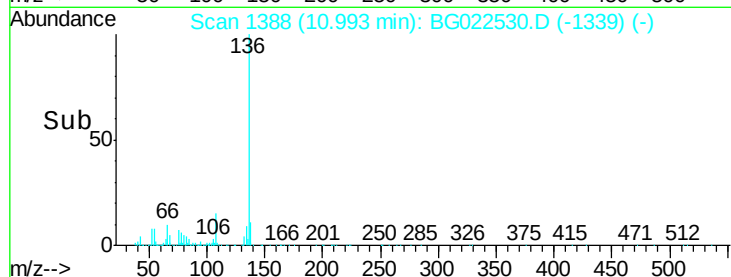
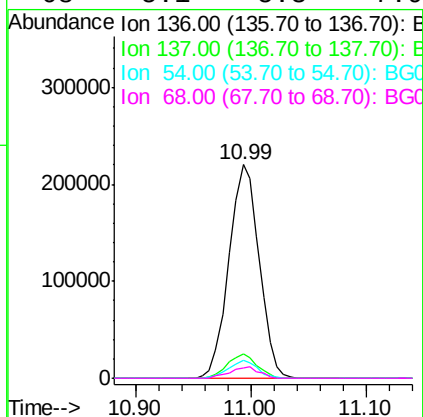
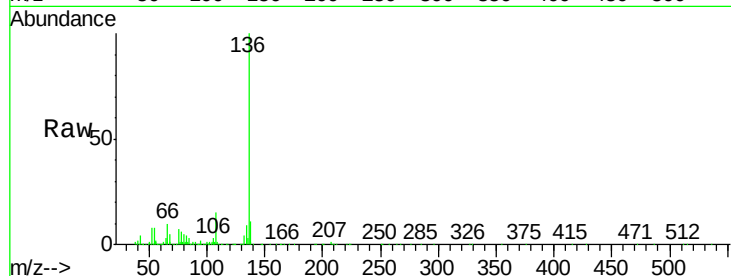




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.99 min Scan# 1388  
Delta R.T. -0.01 min  
Lab File: BG022530.D  
Acq: 24 Jun 2016 8:13

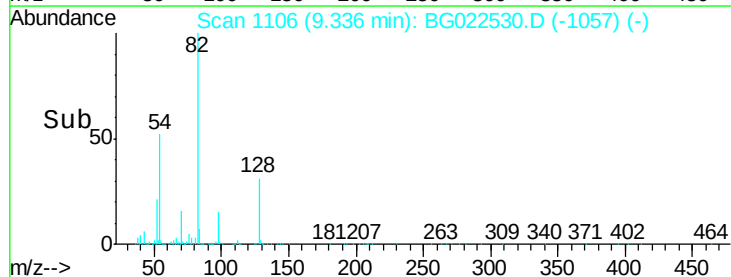
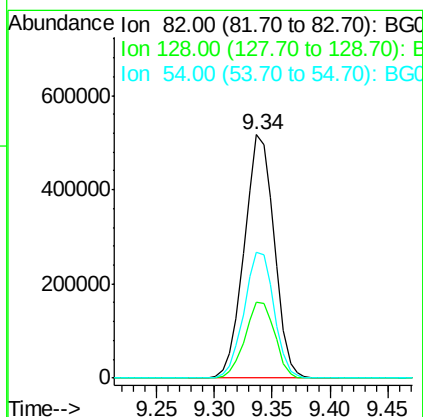
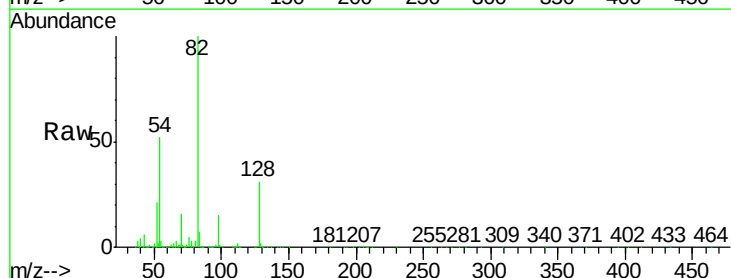
Instrument :  
BNA\_G  
ClientSampleId :

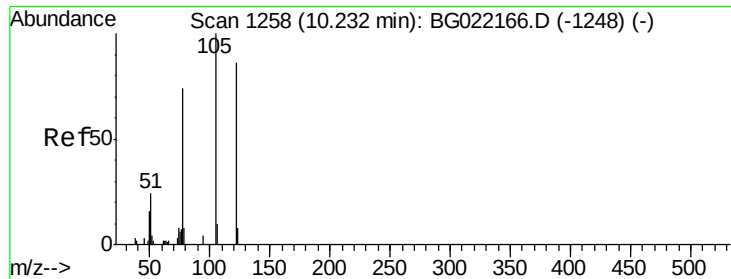
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 398175   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.3  | 9.6 14.4 |
| 54          | 8.4   | 7.3 10.9 |
| 68          | 5.1   | 5.3 7.9# |



#23  
Nitrobenzene-d5  
Concen: 100.09 ng  
RT: 9.34 min Scan# 1106  
Delta R.T. -0.01 min  
Lab File: BG022530.D  
Acq: 24 Jun 2016 8:13

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 930780    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 31.3  | 24.4 36.6 |
| 54          | 51.9  | 41.4 62.0 |

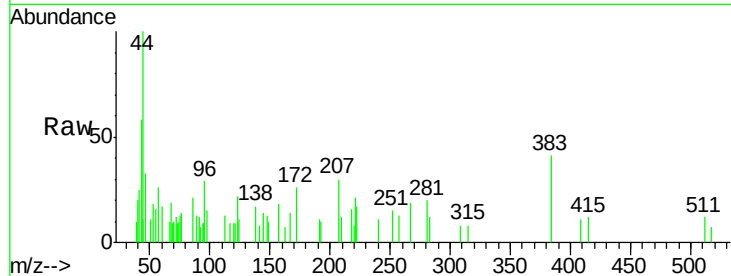




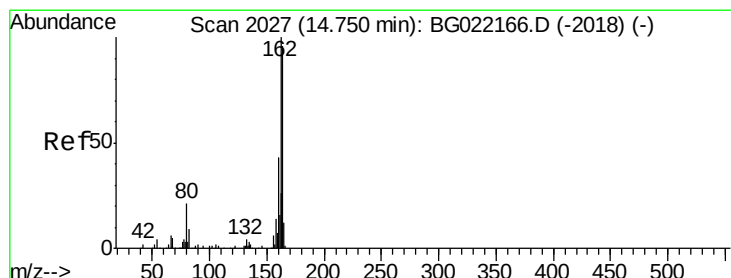
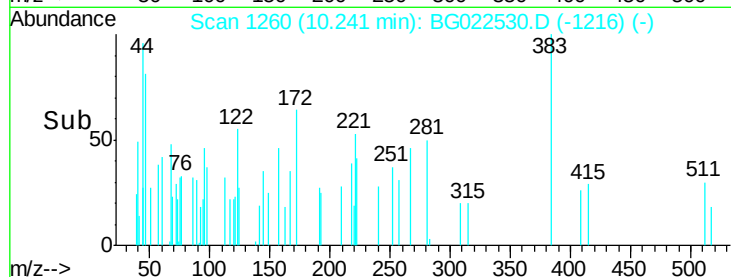
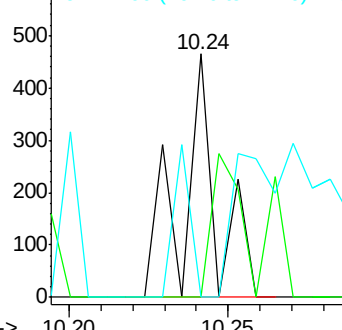
#32  
Benzoic acid  
Concen: 3.94 ng  
RT: 10.24 min Scan# 1260  
Delta R.T. -0.04 min  
Lab File: BG022530.D  
Acq: 24 Jun 2016 8:13

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:122 Resp: 347  
Ion Ratio Lower Upper  
122 100  
105 0.0 117.2 157.2#  
77 0.0 109.2 149.2#

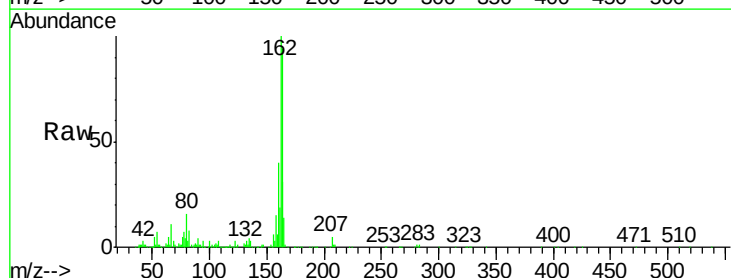


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BGC

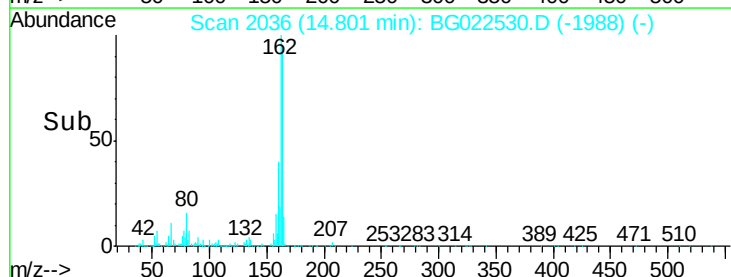
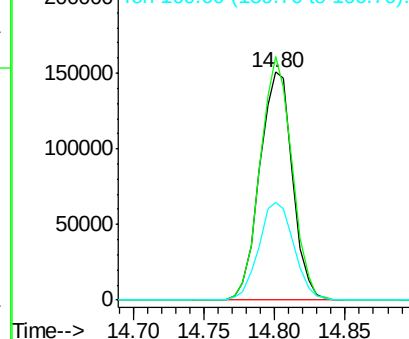


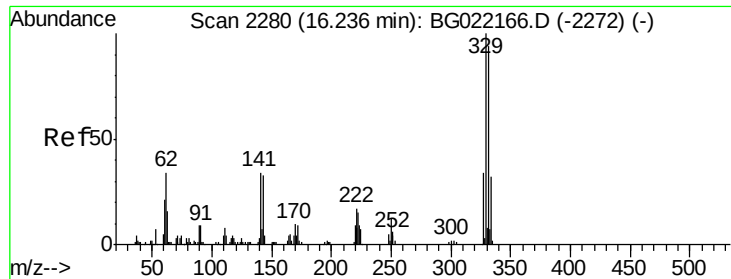
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.80 min Scan# 2036  
Delta R.T. -0.02 min  
Lab File: BG022530.D  
Acq: 24 Jun 2016 8:13

Tgt Ion:164 Resp: 245644  
Ion Ratio Lower Upper  
164 100  
162 106.9 87.7 131.5  
160 43.1 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

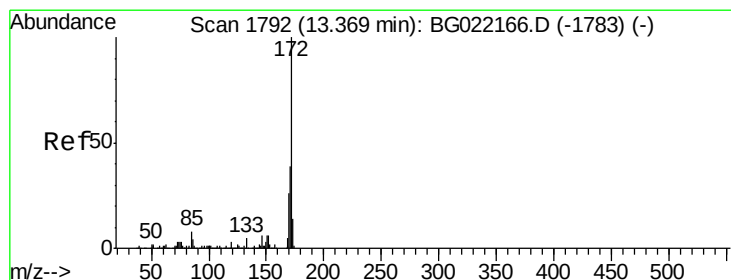
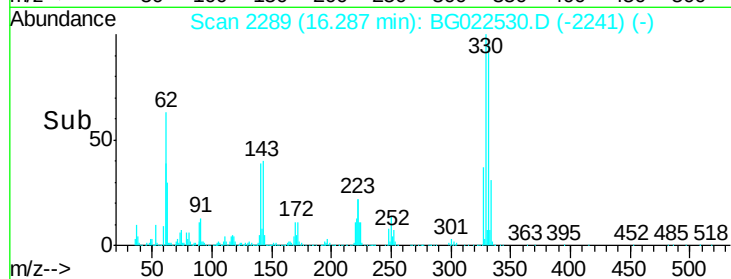
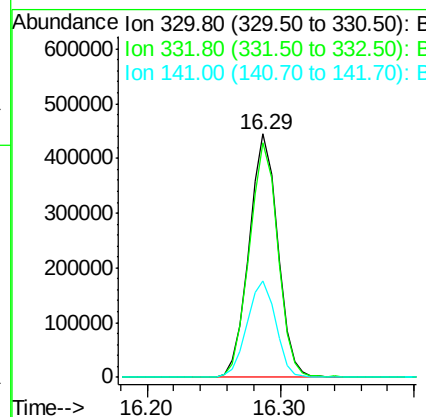
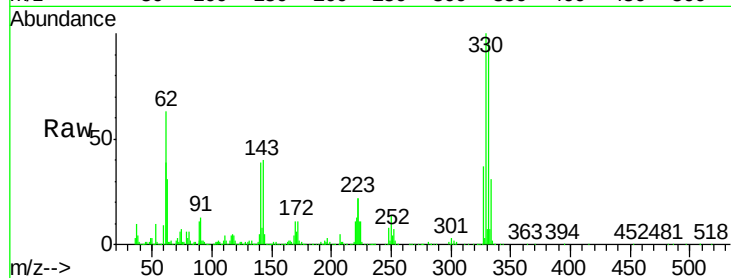




#41  
 2,4,6-Tribromophenol  
 Concen: 172.30 ng  
 RT: 16.29 min Scan# 2289  
 Delta R.T. -0.02 min  
 Lab File: BG022530.D  
 Acq: 24 Jun 2016 8:13

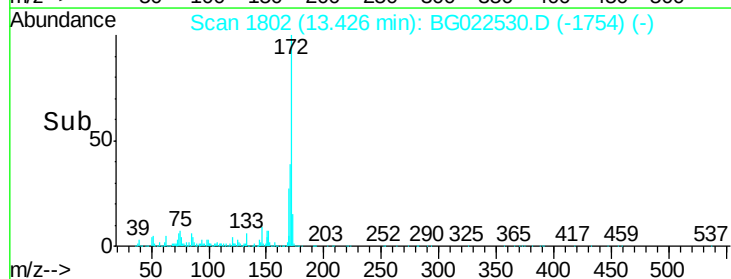
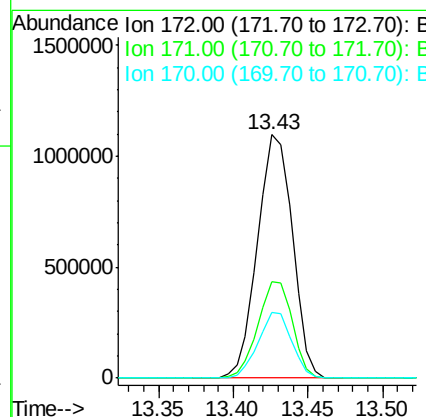
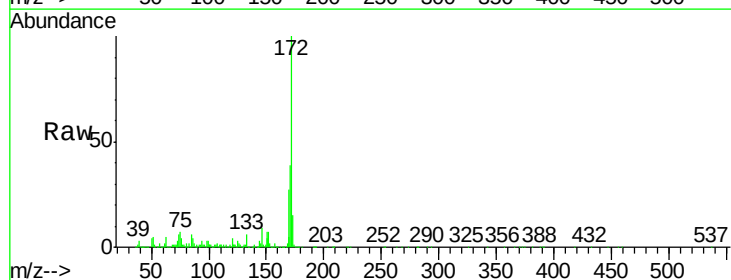
Instrument :  
 BNA\_G  
 ClientSampleId :

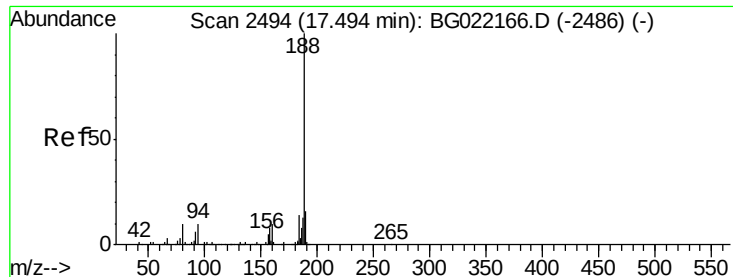
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.0  | 77.4  | 116.2 |
| 141     | 40.0  | 31.7  | 47.5  |



#44  
 2-Fluorobiphenyl  
 Concen: 110.25 ng  
 RT: 13.43 min Scan# 1802  
 Delta R.T. -0.02 min  
 Lab File: BG022530.D  
 Acq: 24 Jun 2016 8:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 39.5  | 31.6  | 47.4  |
| 170     | 27.2  | 21.3  | 31.9  |

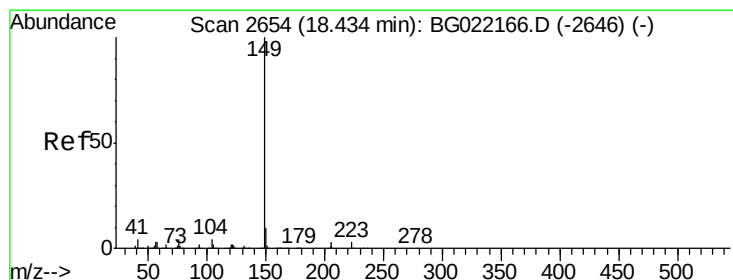
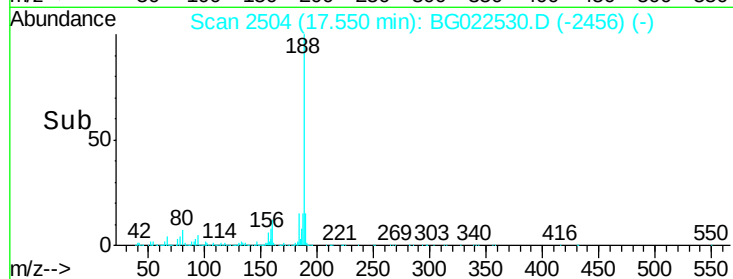
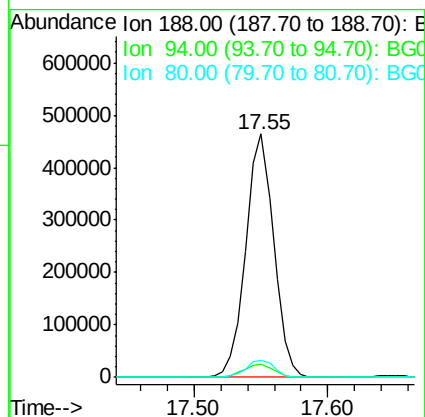
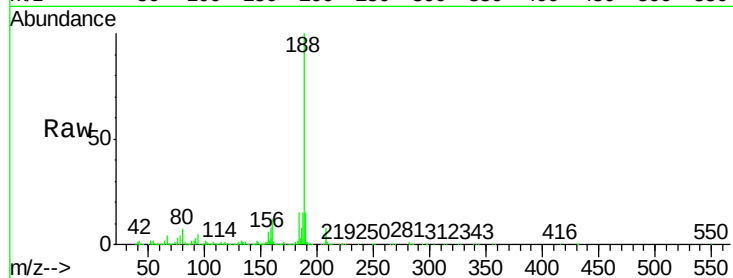




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.55 min Scan# 2504  
Delta R.T. -0.02 min  
Lab File: BG022530.D  
Acq: 24 Jun 2016 8:13

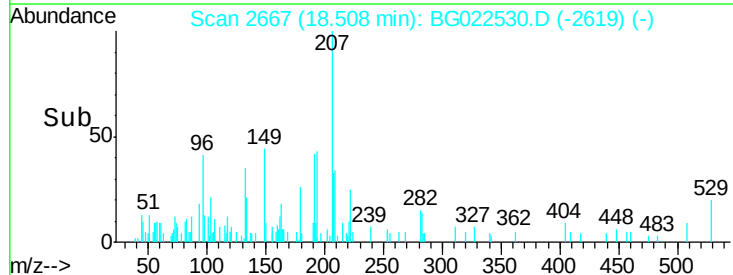
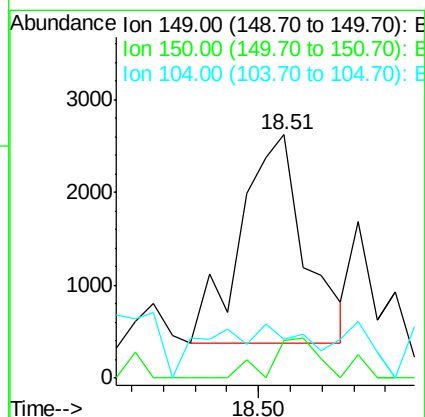
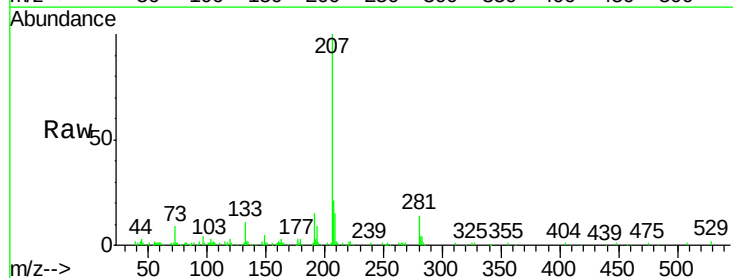
Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:188 Resp: 669942  
Ion Ratio Lower Upper  
188 100  
94 5.3 5.2 7.8  
80 7.0 7.2 10.8#

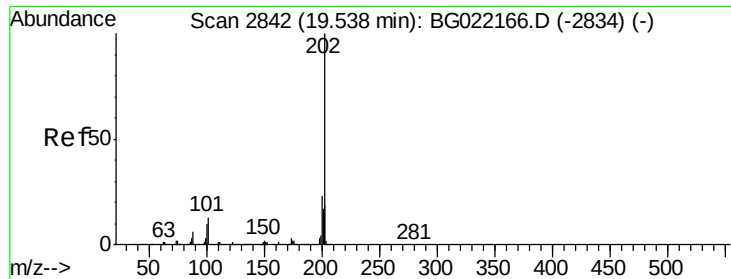


#73  
Di-n-butylphthalate  
Concen: Below Cal  
RT: 18.51 min Scan# 2667  
Delta R.T. -0.02 min  
Lab File: BG022530.D  
Acq: 24 Jun 2016 8:13

Tgt Ion:149 Resp: 3164  
Ion Ratio Lower Upper  
149 100  
150 15.3 9.1 13.7#  
104 16.0 6.9 10.3#







#74

Fluoranthene

Concen: Below Cal

RT: 19.59 min Scan# 2852

Delta R.T. -0.02 min

Lab File: BG022530.D

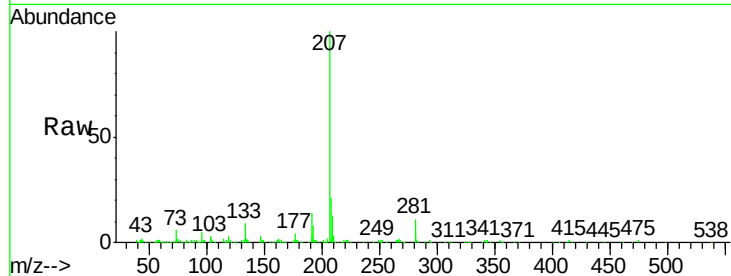
Acq: 24 Jun 2016 8:13

Instrument :

BNA\_G

ClientSampleId :

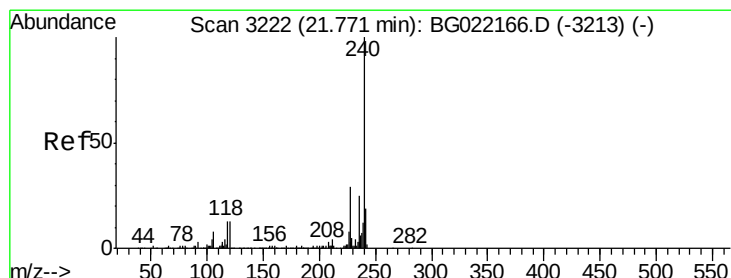
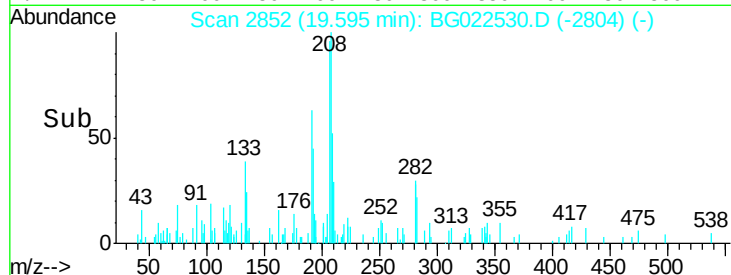
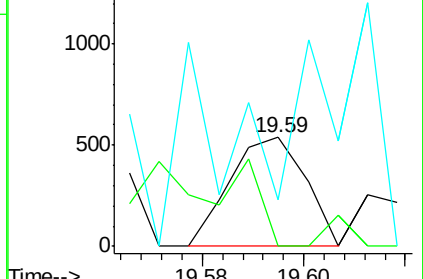
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 555   |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 0.0   | 0.0   | 27.4  |
| 203       | 42.8  | 1.7   | 41.7# |



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



#75

Chrysene-d12

Concen: 20.00 ng

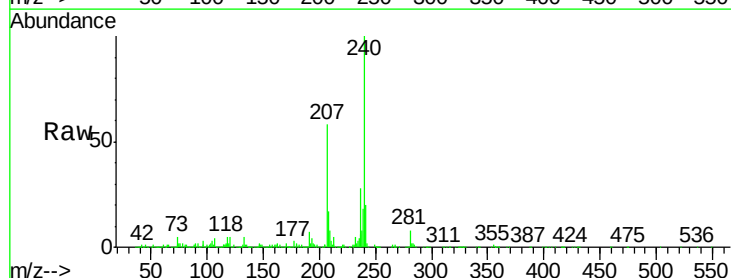
RT: 21.85 min Scan# 3235

Delta R.T. -0.02 min

Lab File: BG022530.D

Acq: 24 Jun 2016 8:13

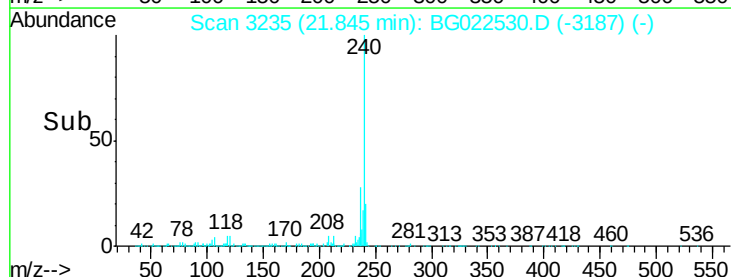
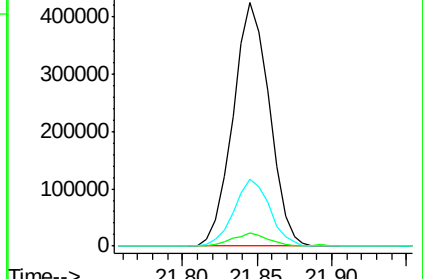
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 720018 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 5.4   | 4.1   | 6.1    |
| 236       | 27.7  | 21.1  | 31.7   |

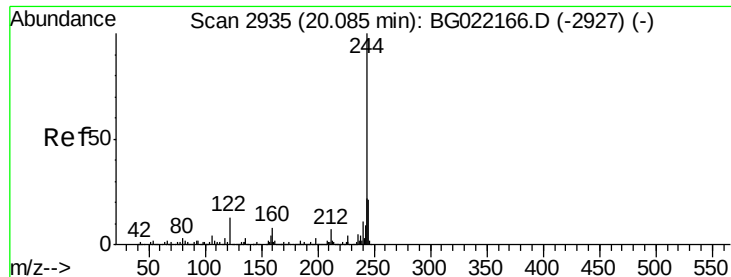


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 128.98 ng

RT: 20.15 min Scan# 2947

Delta R.T. -0.01 min

Lab File: BG022530.D

Acq: 24 Jun 2016 8:13

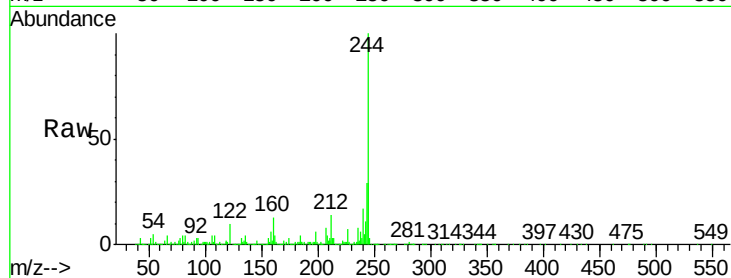
Instrument :

BNA\_G

ClientSampled :

Tot Ion:244 Resp: 2789863

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 13.5  | 10.8  | 16.2  |
| 122 | 9.8   | 8.0   | 12.0  |

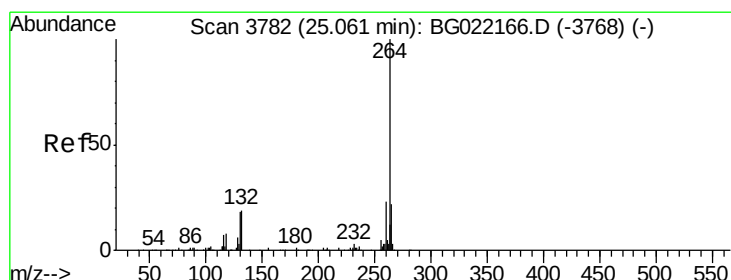
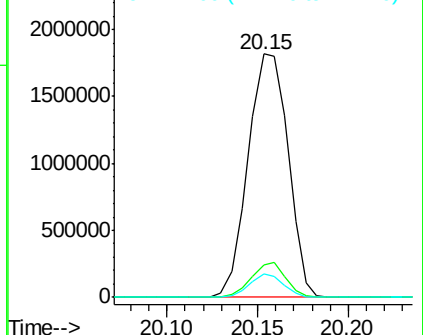
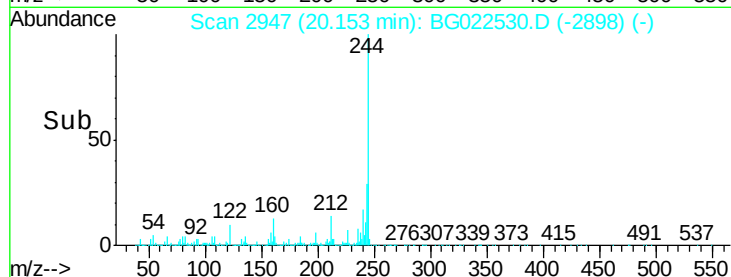


Abundance

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



#86

Perylene-d12

Concen: 20.00 ng

RT: 25.21 min Scan# 3808

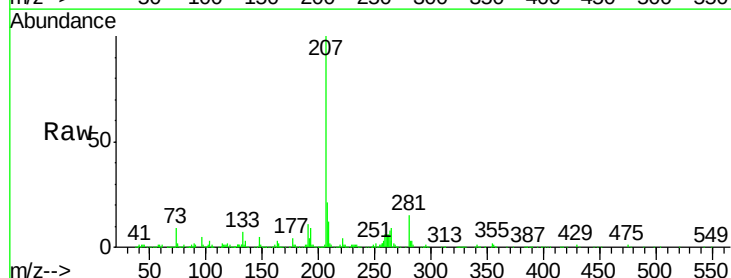
Delta R.T. -0.01 min

Lab File: BG022530.D

Acq: 24 Jun 2016 8:13

Tgt Ion:264 Resp: 54628

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 75.5  | 18.4  | 27.6# |
| 265 | 34.2  | 18.9  | 28.3# |

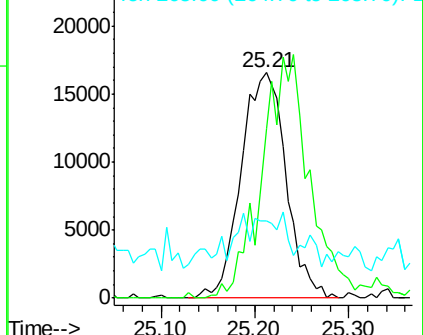
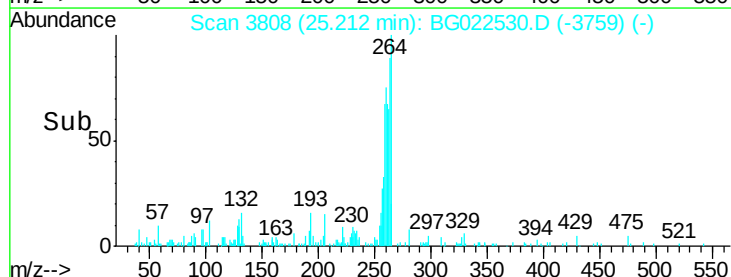


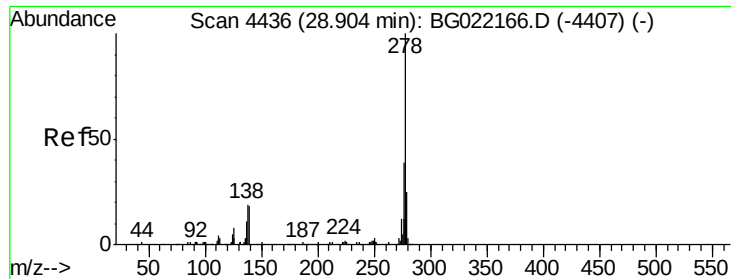
Abundance

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





#90

Dibenzo(a,h)anthracene

Concen: 2.38 ng

RT: 29.12 min Scan# 4474

Delta R.T. -0.04 min

Lab File: BG022530.D

Acq: 24 Jun 2016 8:13

Instrument :

BNA\_G

ClientSampleId :

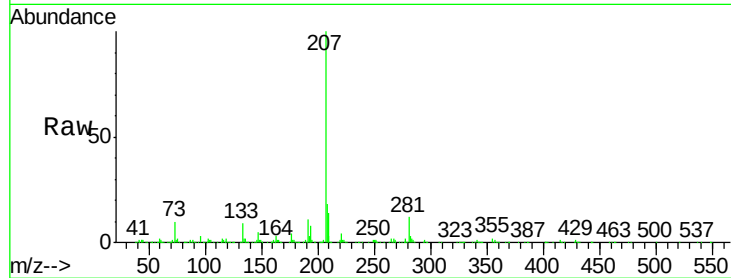
Tot Ion:278 Resp: 6793

Ion Ratio Lower Upper

278 100

139 0.0 4.7 7.1#

279 23.7 18.3 27.5



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

