

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG062919\  
 Data File : BG041542.D  
 Acq On : 29 Jun 2019 12:21  
 Operator : HP/JU  
 Sample : K3555-06  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SAMPLE-18

Quant Time: Jun 30 00:55:24 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG062619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 27 13:25:55 2019  
 Response via : Initial Calibration

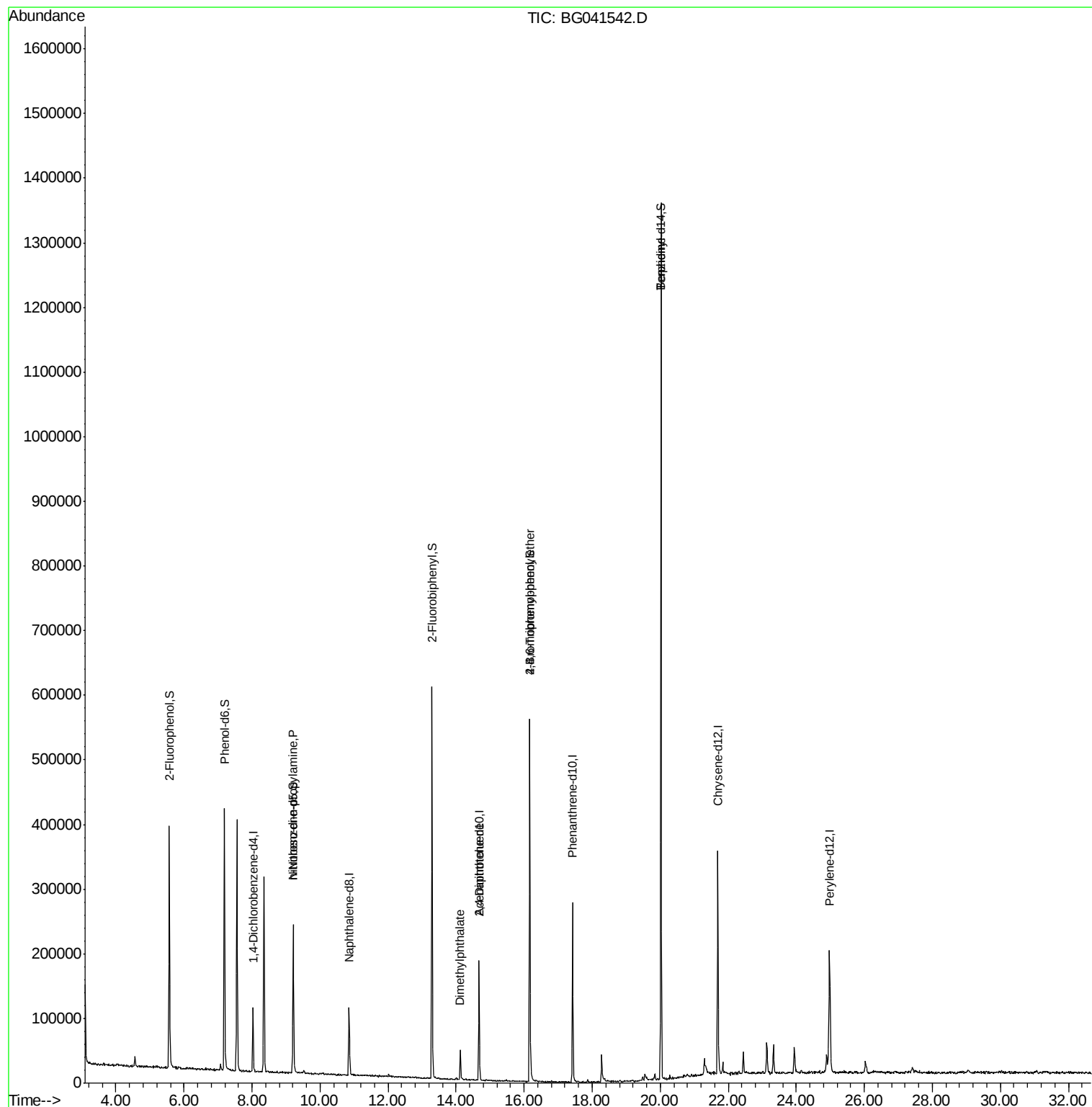
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 8.03  | 152  | 26198    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8             | 10.85 | 136  | 89382    | 20.00  | ng    | 0.00        |
| 39) Acenaphthene-d10           | 14.67 | 164  | 64132    | 20.00  | ng    | 0.00        |
| 64) Phenanthrene-d10           | 17.42 | 188  | 178064   | 20.00  | ng    | 0.00        |
| 76) Chrysene-d12               | 21.69 | 240  | 215653   | 20.00  | ng    | 0.00        |
| 87) Perylene-d12               | 24.98 | 264  | 233354   | 20.00  | ng    | 0.00        |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.57  | 112  | 154001   | 104.80 | ng    | 0.00        |
| 7) Phenol-d6                   | 7.19  | 99   | 212743   | 102.84 | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 9.21  | 82   | 146467   | 68.34  | ng    | 0.00        |
| 42) 2,4,6-Tribromophenol       | 16.17 | 330  | 118620   | 108.33 | ng    | 0.00        |
| 45) 2-Fluorobiphenyl           | 13.29 | 172  | 313838   | 62.80  | ng    | 0.00        |
| 79) Terphenyl-d14              | 20.02 | 244  | 678165   | 66.83  | ng    | 0.00        |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 9.21  | 70   | 20767    | 13.459 | ng    | Qvalue # 75 |
| 50) Dimethylphthalate          | 14.13 | 163  | 38073    | 6.524  | ng    | 100         |
| 57) 2,4-Dinitrotoluene         | 14.67 | 165  | 7920     | 4.408  | ng    | # 23        |
| 67) 4-Bromophenyl-phenylether  | 16.17 | 248  | 8326     | 3.422  | ng    | # 1         |
| 77) Benzidine                  | 20.02 | 184  | 11515    | 2.407  | ng    | # 96        |

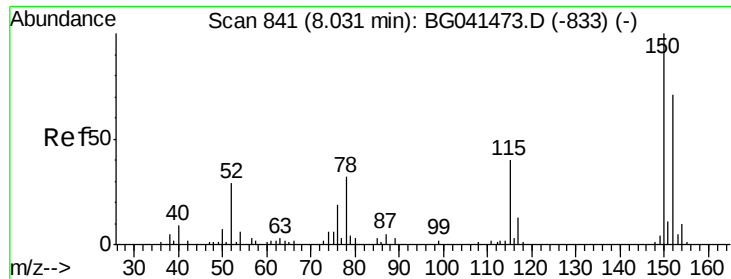
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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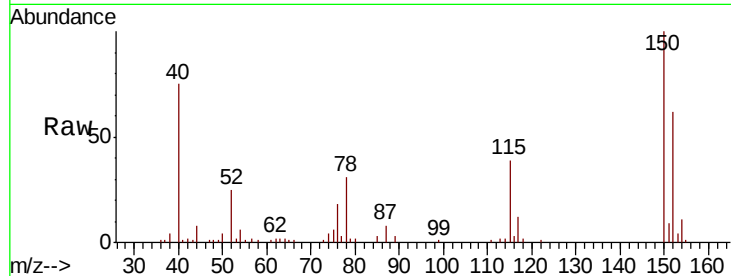


#1

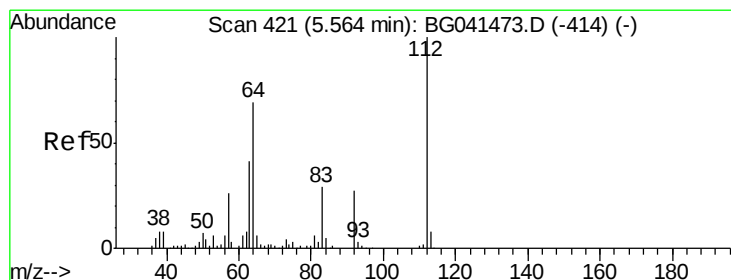
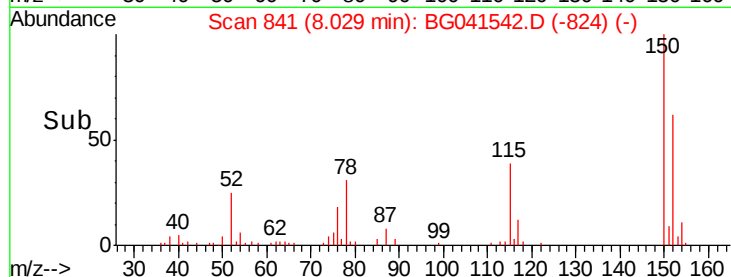
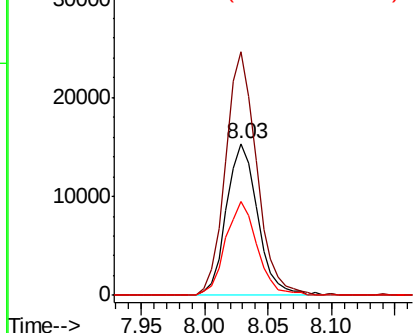
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.03 min Scan# 841  
Delta R.T. -0.00 min  
Lab File: BG041542.D  
Acq: 29 Jun 2019 12:21

Instrument :  
BNA\_G  
ClientSampleId :  
SAMPLE-18

Tgt Ion:152 Resp: 26198  
Ion Ratio Lower Upper  
152 100  
150 160.7 112.4 168.6  
115 62.3 44.6 66.8



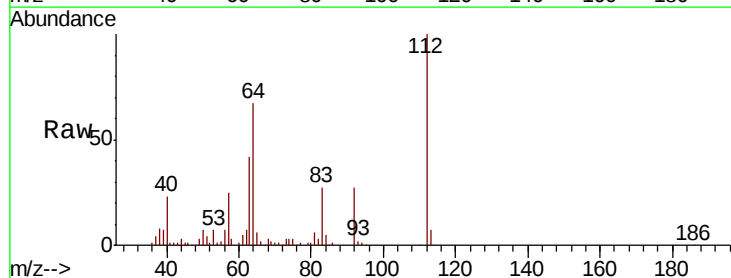
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



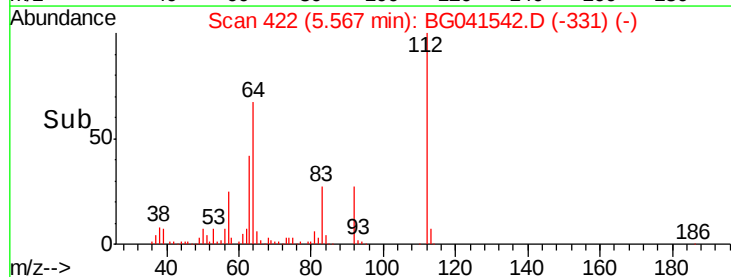
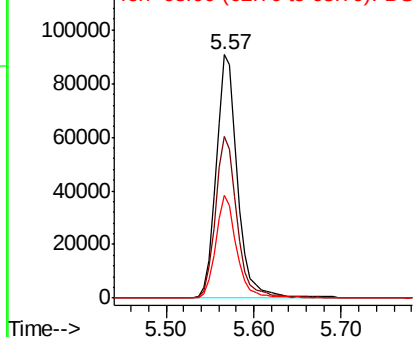
#5

2-Fluorophenol  
Concen: 104.802 ng  
RT: 5.57 min Scan# 422  
Delta R.T. 0.00 min  
Lab File: BG041542.D  
Acq: 29 Jun 2019 12:21

Tgt Ion:112 Resp: 154001  
Ion Ratio Lower Upper  
112 100  
64 66.6 55.1 82.7  
63 42.2 32.4 48.6



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: 102.844 ng

RT: 7.19 min Scan# 698

Delta R.T. 0.00 min

Lab File: BG041542.D

Acq: 29 Jun 2019 12:21

Instrument :

BNA\_G

ClientSampleId :

SAMPLE-18

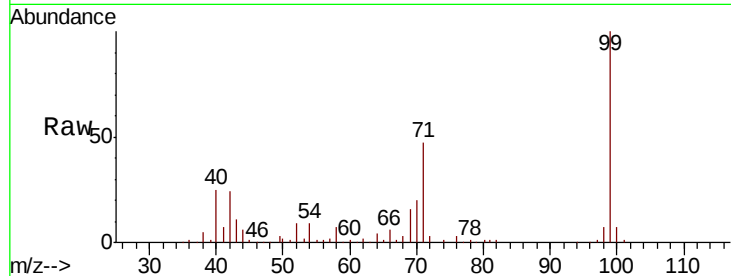
Tgt Ion: 99 Resp: 212743

Ion Ratio Lower Upper

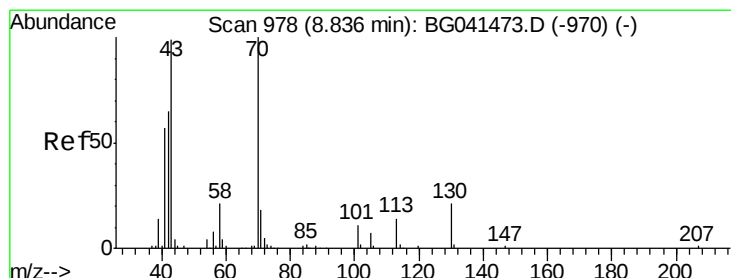
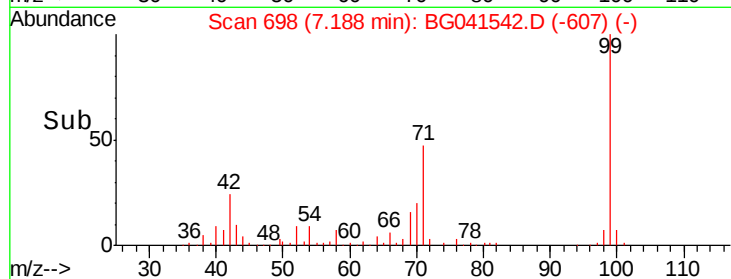
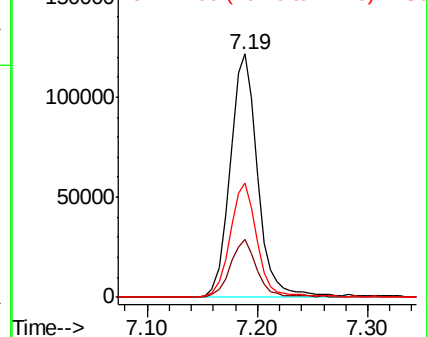
99 100

42 23.9 19.0 28.6

71 47.1 37.4 56.2



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



#19

n-Nitroso-di-n-propylamine

Concen: 13.459 ng

RT: 9.21 min Scan# 1042

Delta R.T. 0.37 min

Lab File: BG041542.D

Acq: 29 Jun 2019 12:21

Tgt Ion: 70 Resp: 20767

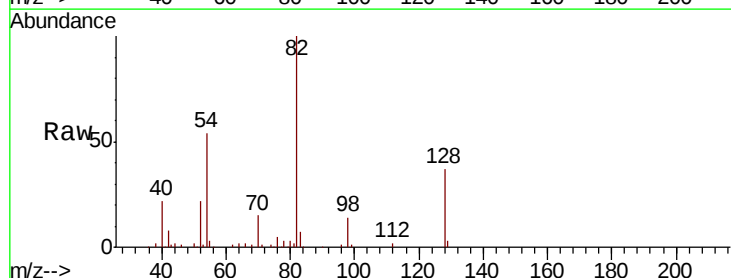
Ion Ratio Lower Upper

70 100

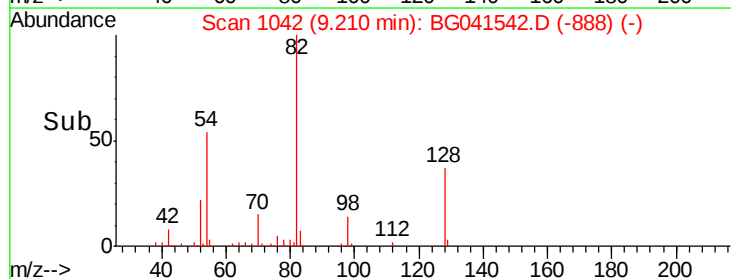
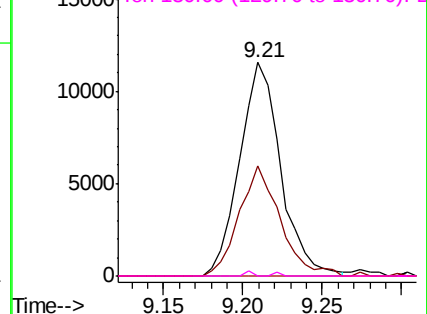
42 51.5 52.6 78.8#

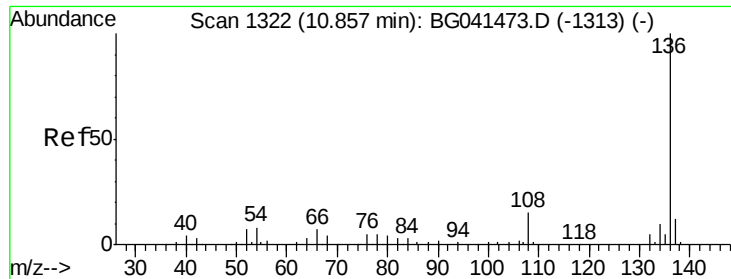
101 0.0 8.6 13.0#

130 0.0 16.6 25.0#



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC

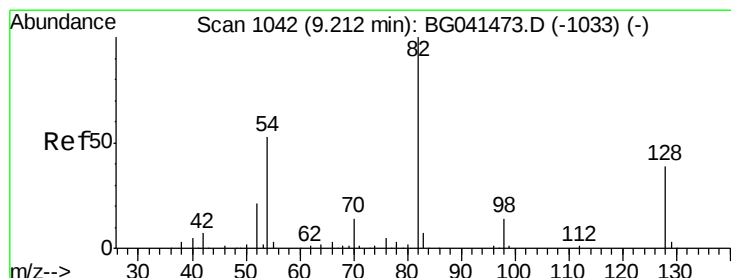
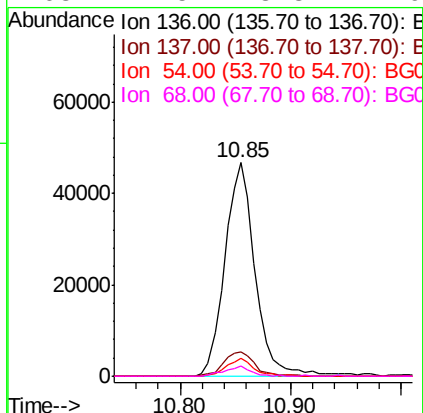
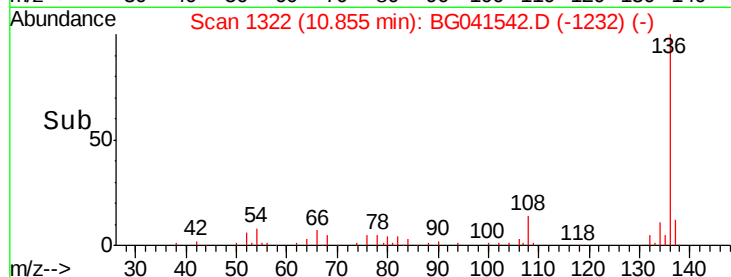
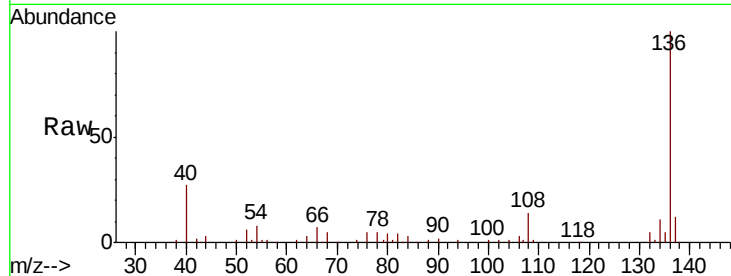




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.85 min Scan# 1322  
Delta R.T. -0.00 min  
Lab File: BG041542.D  
Acq: 29 Jun 2019 12:21

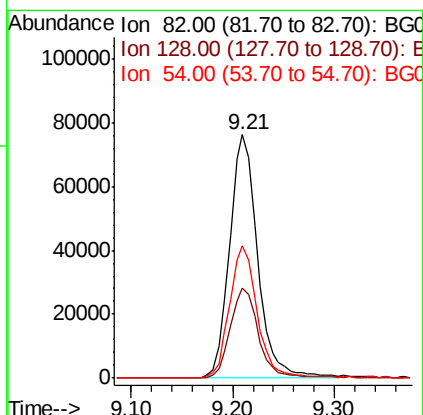
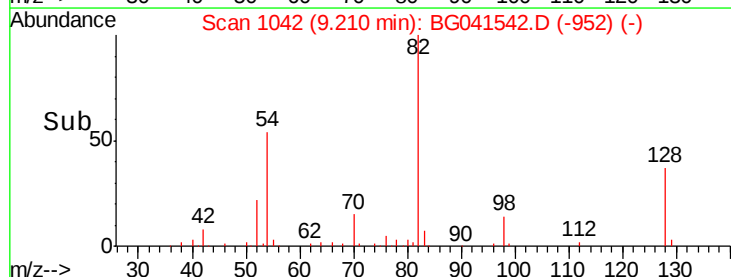
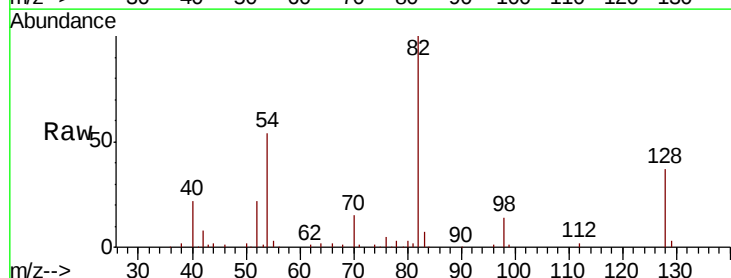
Instrument :  
BNA\_G  
ClientSampleId :  
SAMPLE-18

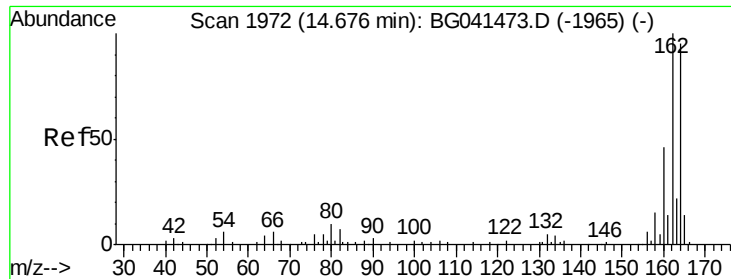
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 89382 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.7  | 9.3   | 13.9  |
| 54       | 8.3   | 7.1   | 10.7  |
| 68       | 4.5   | 3.3   | 4.9   |



#23  
Nitrobenzene-d5  
Concen: 68.344 ng  
RT: 9.21 min Scan# 1042  
Delta R.T. -0.00 min  
Lab File: BG041542.D  
Acq: 29 Jun 2019 12:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 146467 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 36.8  | 30.9  | 46.3   |
| 54       | 54.1  | 42.2  | 63.2   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.67 min Scan# 1972

Delta R.T. -0.00 min

Lab File: BG041542.D

Acq: 29 Jun 2019 12:21

Instrument :

BNA\_G

ClientSampleId :

SAMPLE-18

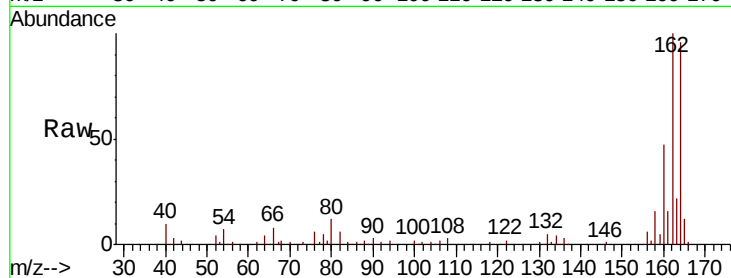
Tgt Ion:164 Resp: 64132

Ion Ratio Lower Upper

164 100

162 103.9 84.4 126.6

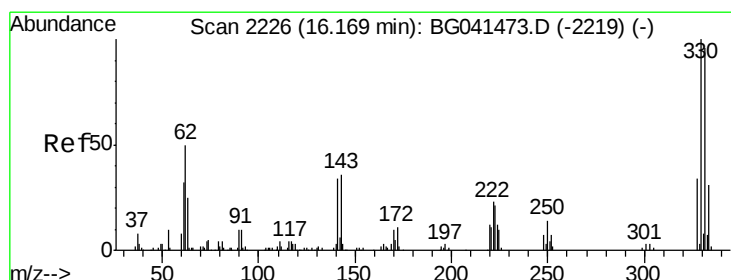
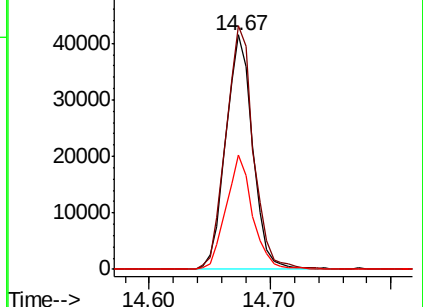
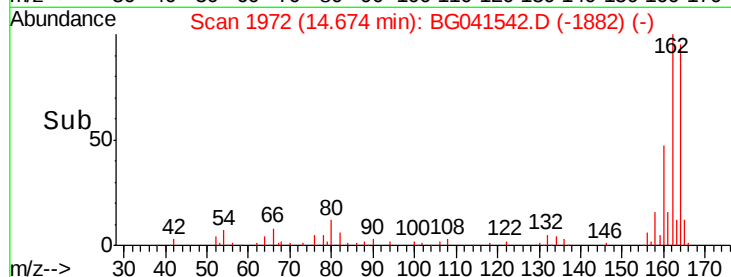
160 48.9 38.8 58.2



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



#42

2,4,6-Tribromophenol

Concen: 108.328 ng

RT: 16.17 min Scan# 2226

Delta R.T. -0.00 min

Lab File: BG041542.D

Acq: 29 Jun 2019 12:21

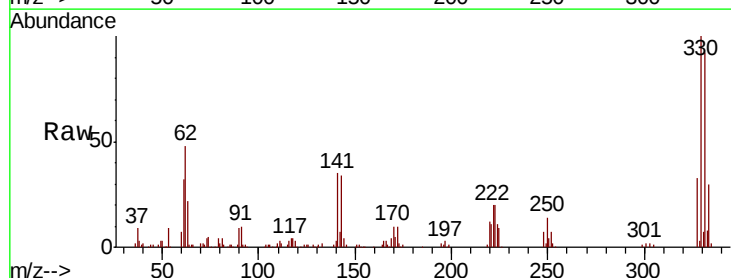
Tgt Ion:330 Resp: 118620

Ion Ratio Lower Upper

330 100

332 94.5 75.5 113.3

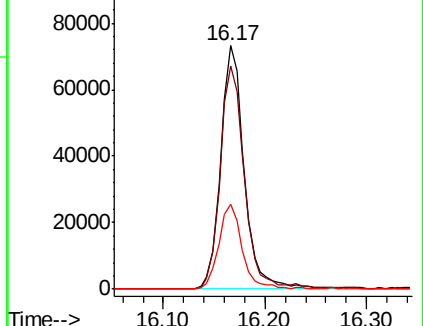
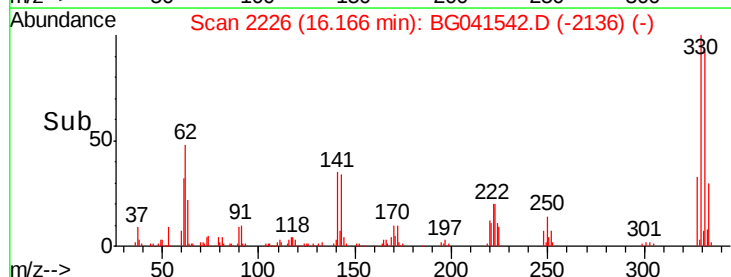
141 34.6 27.8 41.6

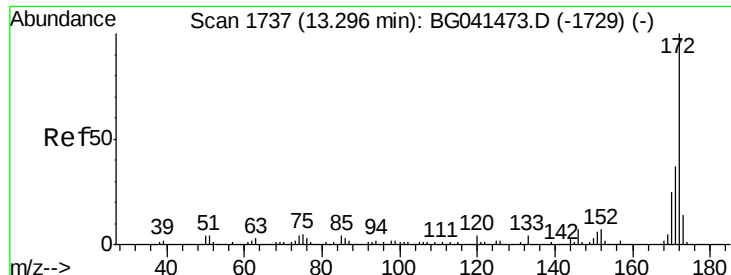


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

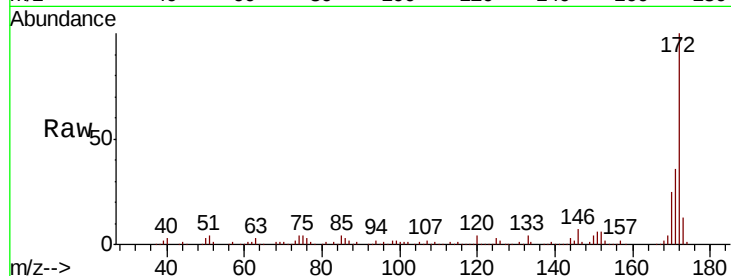




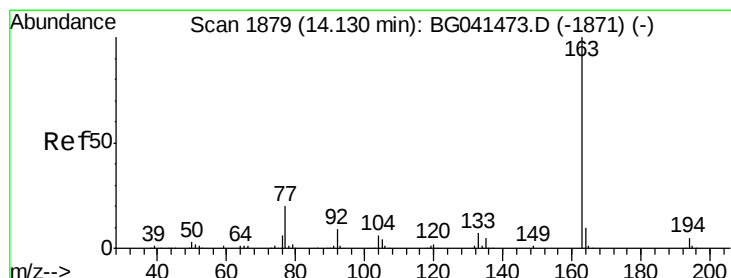
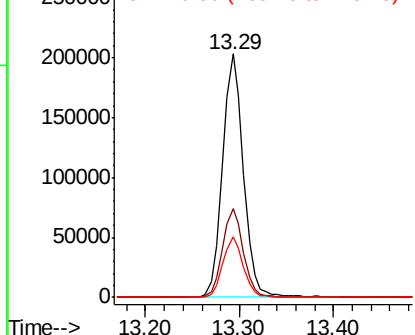
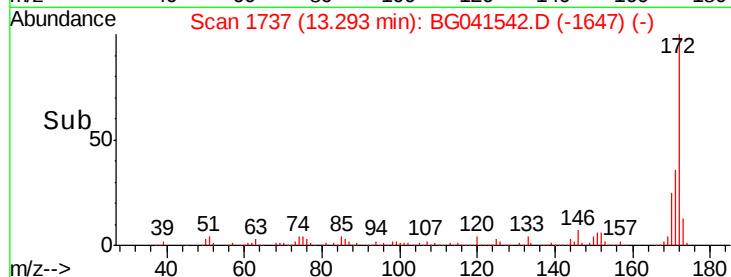
#45  
2-Fluorobiphenyl  
Concen: 62.798 ng  
RT: 13.29 min Scan# 1737  
Delta R.T. -0.00 min  
Lab File: BG041542.D  
Acq: 29 Jun 2019 12:21

Instrument :  
BNA\_G  
ClientSampleId :  
SAMPLE-18

Tgt Ion:172 Resp: 313838  
Ion Ratio Lower Upper  
172 100  
171 36.4 29.6 44.4  
170 24.8 20.0 30.0

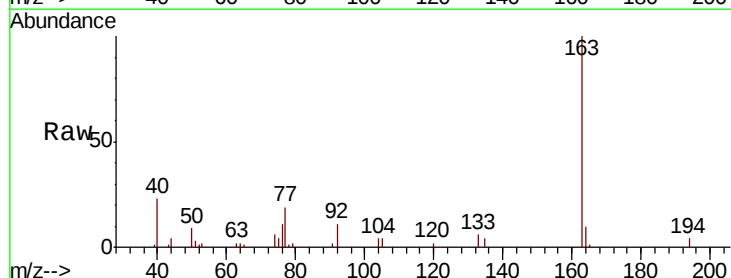


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

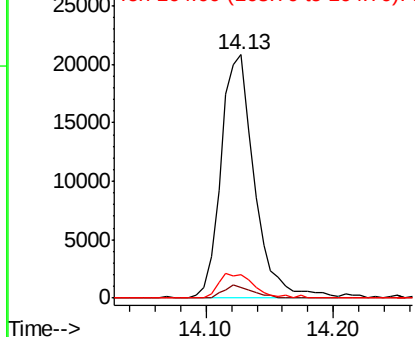
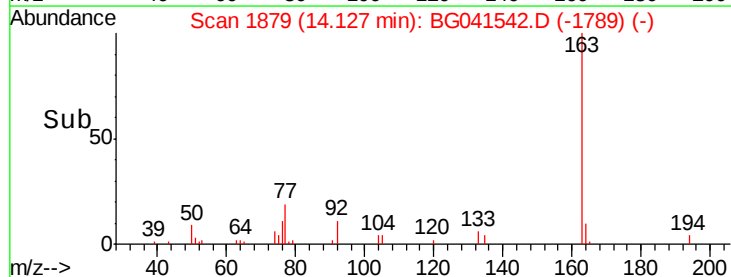


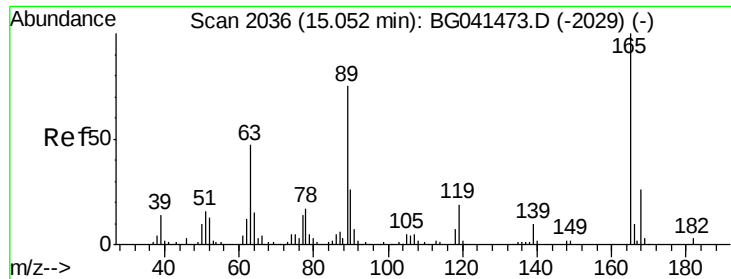
#50  
Dimethylphthalate  
Concen: 6.524 ng  
RT: 14.13 min Scan# 1879  
Delta R.T. -0.00 min  
Lab File: BG041542.D  
Acq: 29 Jun 2019 12:21

Tgt Ion:163 Resp: 38073  
Ion Ratio Lower Upper  
163 100  
194 4.4 3.7 5.5  
164 9.7 7.8 11.6



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

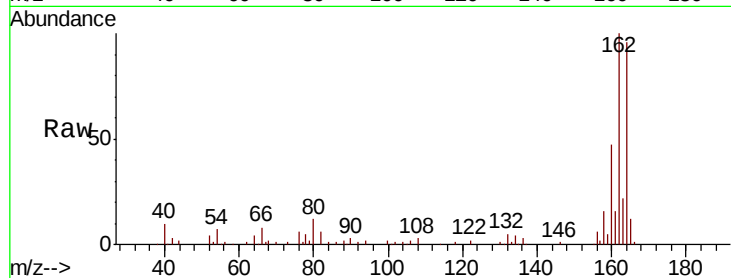




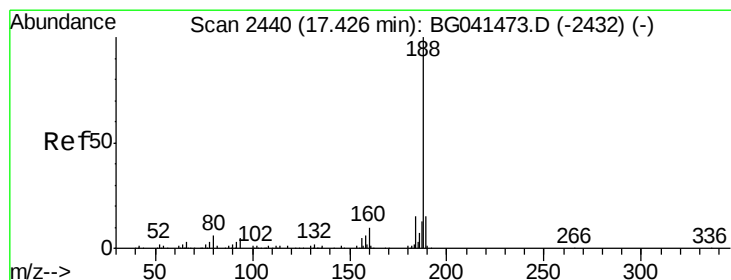
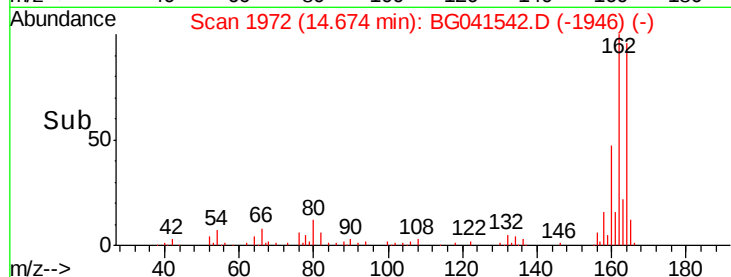
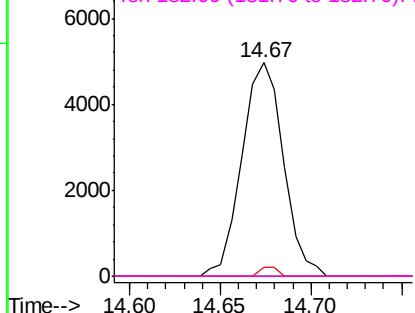
#57  
2,4-Dinitrotoluene  
Concen: 4.408 ng  
RT: 14.67 min Scan# 1972  
Delta R.T. -0.38 min  
Lab File: BG041542.D  
Acq: 29 Jun 2019 12:21

Instrument :  
BNA\_G  
ClientSampleId :  
SAMPLE-18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 38.8  | 58.2# |
| 89      | 4.2   | 60.1  | 90.1# |
| 182     | 0.0   | 2.2   | 3.2#  |

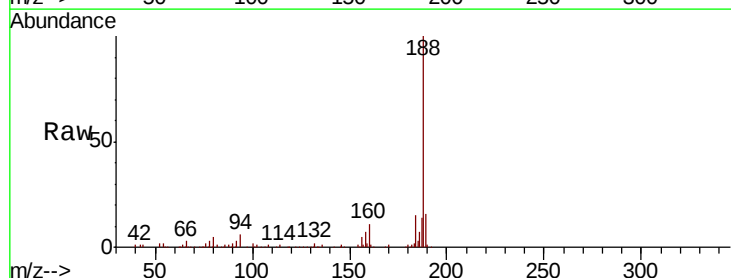


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC  
Ion 182.00 (181.70 to 182.70): E

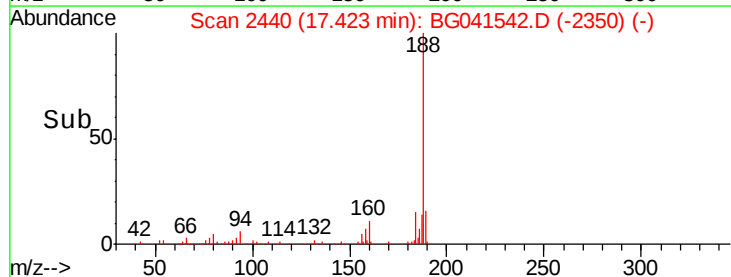
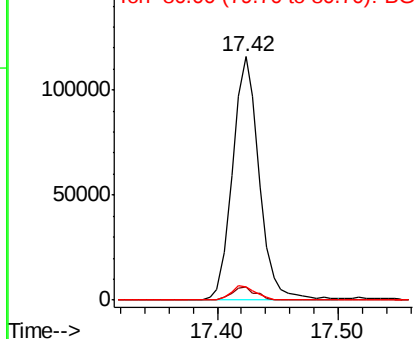


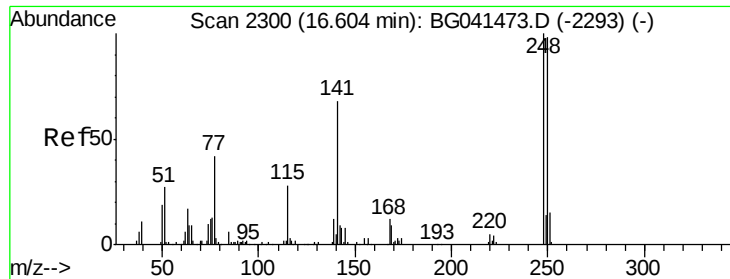
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.42 min Scan# 2440  
Delta R.T. -0.00 min  
Lab File: BG041542.D  
Acq: 29 Jun 2019 12:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 5.5   | 3.8   | 5.8   |
| 80      | 5.3   | 4.8   | 7.2   |



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGC  
Ion 80.00 (79.70 to 80.70): BGC

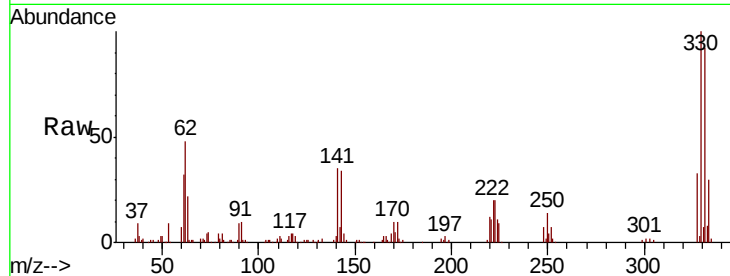




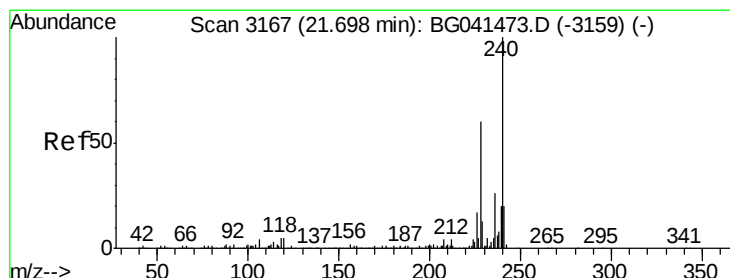
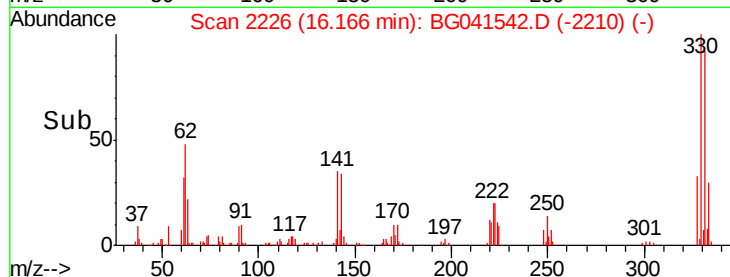
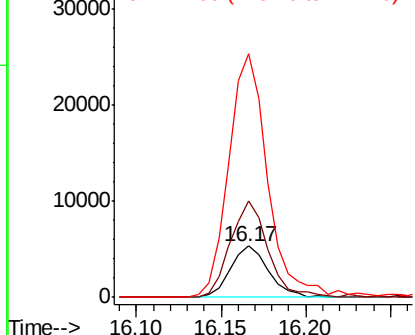
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.422 ng  
 RT: 16.17 min Scan# 2226  
 Delta R.T. -0.44 min  
 Lab File: BG041542.D  
 Acq: 29 Jun 2019 12:21

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SAMPLE-18

Tgt Ion:248 Resp: 8326  
 Ion Ratio Lower Upper  
 248 100  
 250 238.7 78.1 117.1#  
 141 474.8 54.1 81.1#

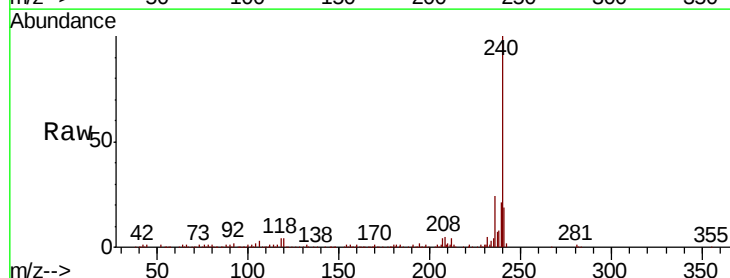


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

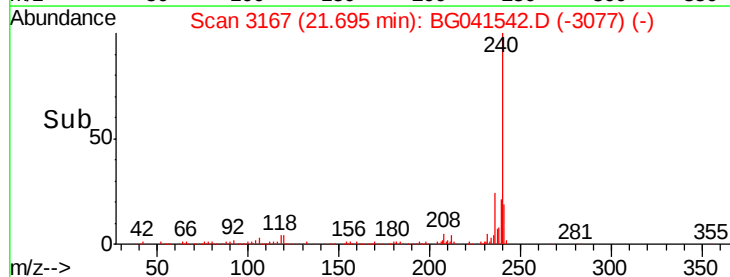
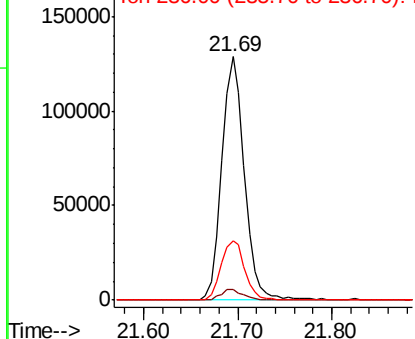


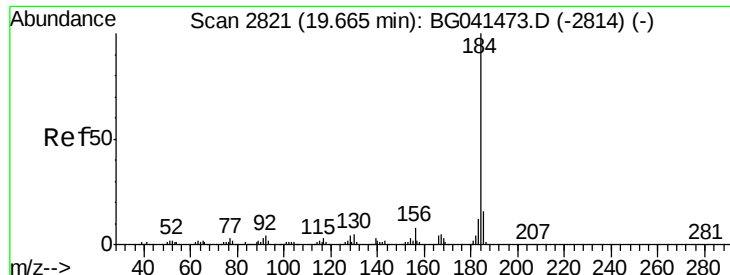
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.69 min Scan# 3167  
 Delta R.T. -0.00 min  
 Lab File: BG041542.D  
 Acq: 29 Jun 2019 12:21

Tgt Ion:240 Resp: 215653  
 Ion Ratio Lower Upper  
 240 100  
 120 4.3 3.7 5.5  
 236 24.4 20.8 31.2



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

Benzidine

Concen: 2.407 ng

RT: 20.02 min Scan# 2882

Delta R.T. 0.36 min

Lab File: BG041542.D

Acq: 29 Jun 2019 12:21

Instrument :

BNA\_G

ClientSampleId :

SAMPLE-18

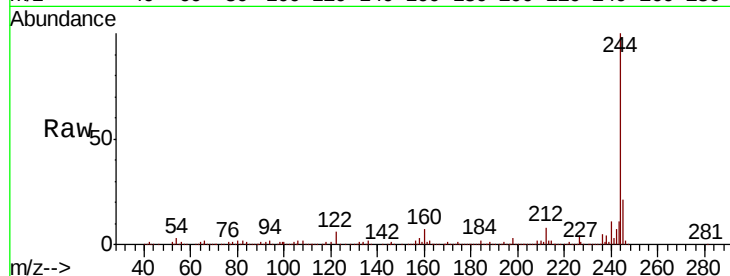
Tgt Ion:184 Resp: 11515

Ion Ratio Lower Upper

184 100

185 15.9 12.7 19.1

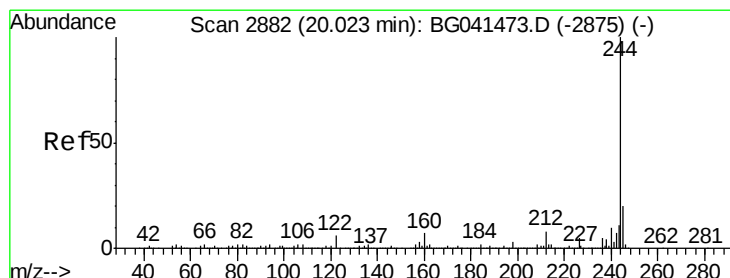
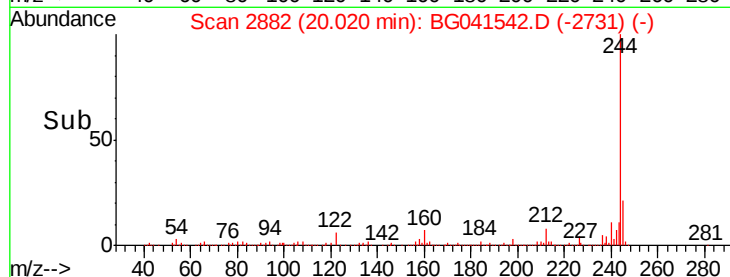
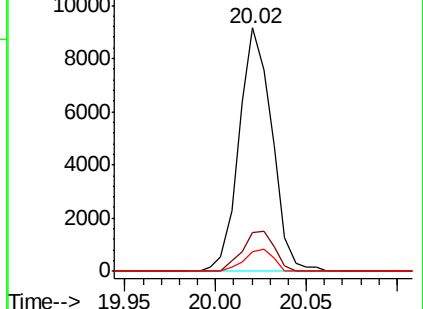
183 8.1 9.4 14.2#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 66.828 ng

RT: 20.02 min Scan# 2882

Delta R.T. -0.00 min

Lab File: BG041542.D

Acq: 29 Jun 2019 12:21

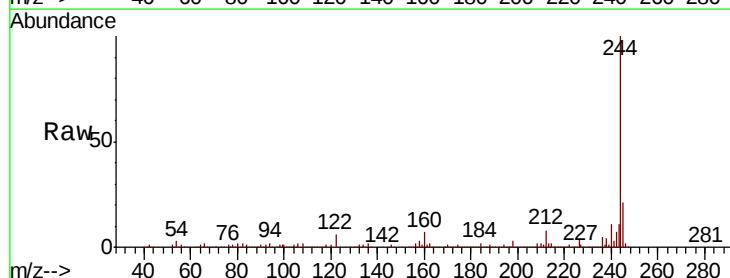
Tgt Ion:244 Resp: 678165

Ion Ratio Lower Upper

244 100

212 8.2 6.2 9.4

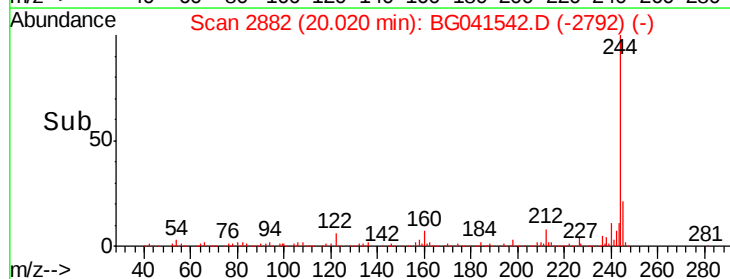
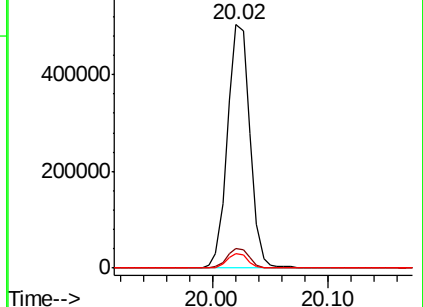
122 5.8 4.8 7.2

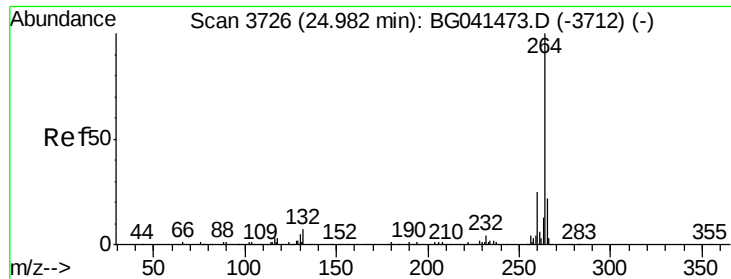


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.98 min Scan# 3726  
Delta R.T. -0.00 min  
Lab File: BG041542.D  
Acq: 29 Jun 2019 12:21

Instrument :  
BNA\_G  
ClientSampleId :  
SAMPLE-18

Tgt Ion: 264 Resp: 233354  
Ion Ratio Lower Upper  
264 100  
260 24.2 19.7 29.5  
265 20.5 17.4 26.2

