

Data Path : Z:\svoasrv\HPCHEM1\BNA G\Data\BG051120\  
 Data File : BG045296.D  
 Acq On : 11 May 2020 14:44  
 Operator : CG/JU  
 Sample : L2495-05  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HR-05-050720

Quant Time: May 11 15:28:16 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG041520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 11 13:27:41 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.98  | 152  | 58931    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.78 | 136  | 228221   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.62 | 164  | 160117   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.37 | 188  | 392502   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.63 | 240  | 437684   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 24.79 | 264  | 465460   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.54  | 112  | 417735   | 117.03 | ng    | 0.00     |
| 7) Phenol-d6                | 7.14  | 99   | 527546   | 99.47  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.13  | 82   | 442555   | 88.48  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.11 | 330  | 340955   | 137.84 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.24 | 172  | 1020680  | 93.47  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.98 | 244  | 2044423  | 101.81 | ng    | 0.00     |

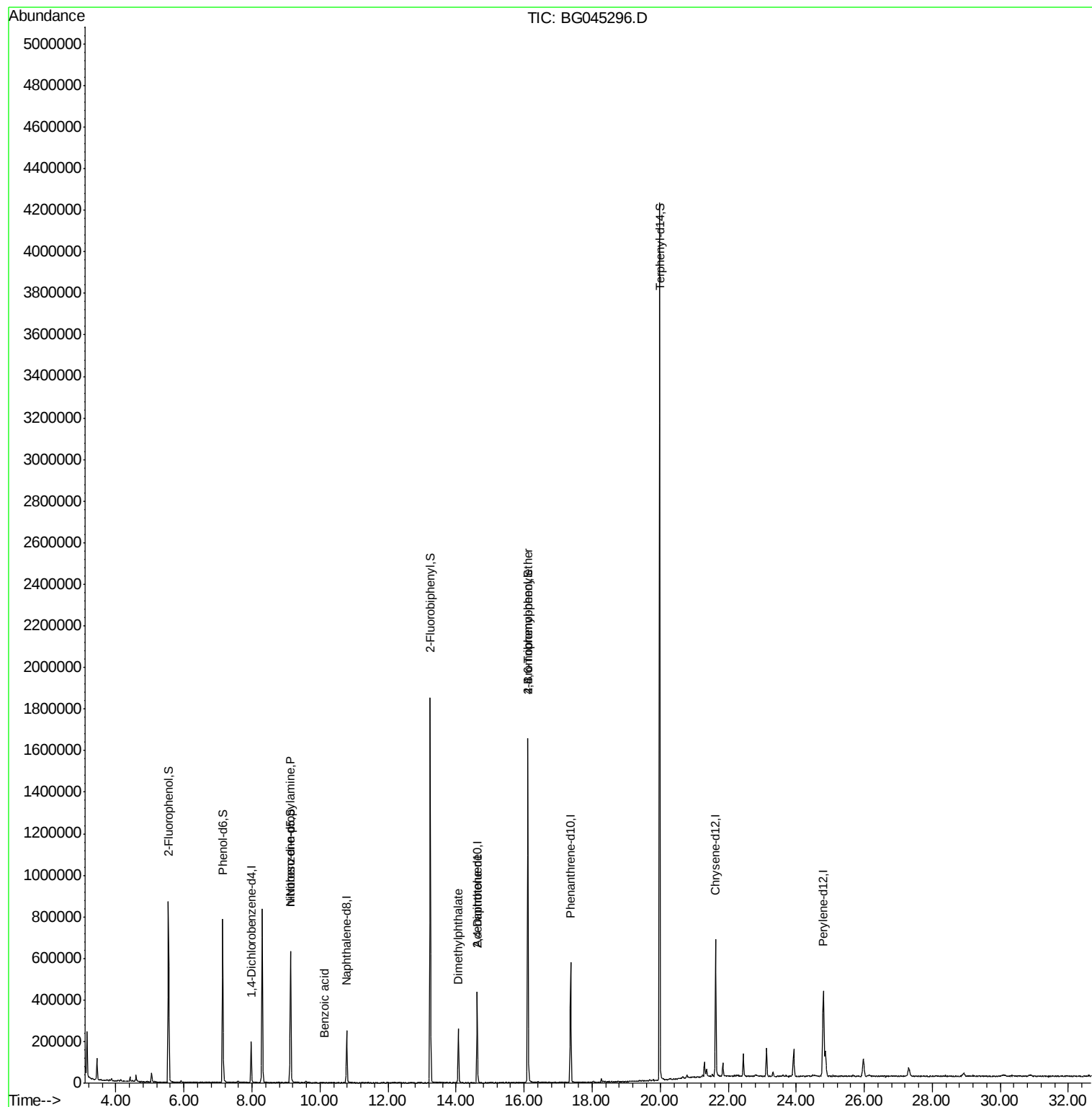
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 7.14  | 77   | 1142     | Below Cal | #     | 4      |
| 19) n-Nitroso-di-n-propylamine | 9.13  | 70   | 59201    | 15.784    | ng    | # 83   |
| 32) Benzoic acid               | 10.12 | 122  | 64       | 6.393     | ng    | # 1    |
| 50) Dimethylphthalate          | 14.07 | 163  | 179652   | 13.780    | ng    | # 99   |
| 57) 2,4-Dinitrotoluene         | 14.62 | 165  | 22087    | 5.183     | ng    | # 24   |
| 67) 4-Bromophenyl-phenylether  | 16.11 | 248  | 22639    | 4.471     | ng    | # 1    |
| 69) Atrazine                   | 17.15 | 200  | 53       | Below Cal | #     | 35     |
| 74) Di-n-butylphthalate        | 18.33 | 149  | 1616     | Below Cal | #     | 76     |
| 75) Fluoranthene               | 19.42 | 202  | 658      | Below Cal | #     | 62     |
| 77) Benzidine                  | 19.98 | 184  | 38530    | Below Cal | #     | 91     |

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

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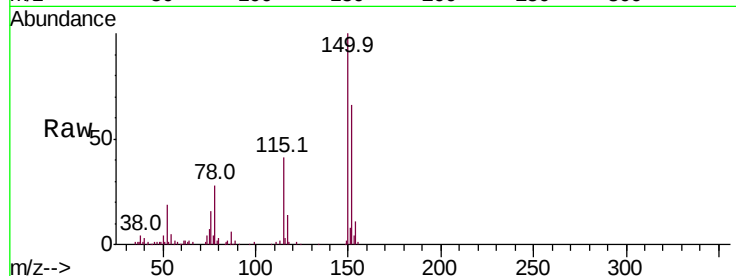


#1

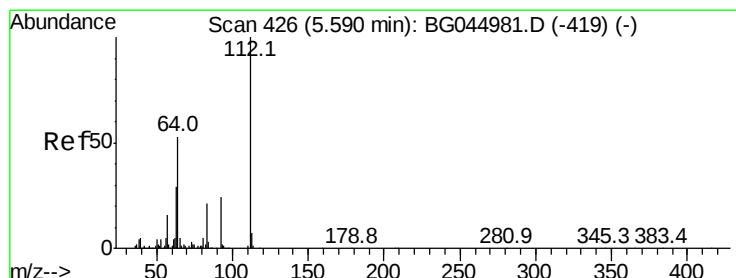
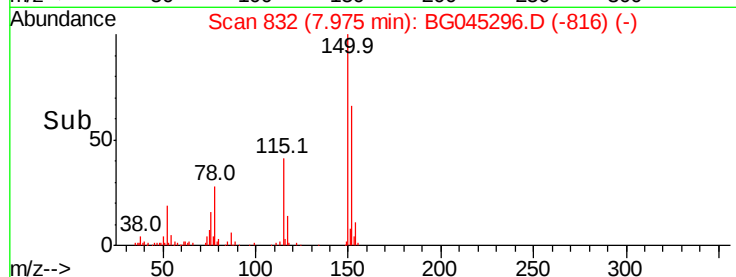
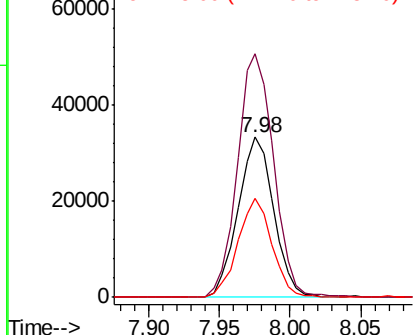
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.98 min Scan# 832  
Delta R.T. -0.01 min  
Lab File: BG045296.D  
Acq: 11 May 2020 14:44

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-050720

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.2 | 123.6 | 185.4 |
| 115     | 62.0  | 49.1  | 73.7  |



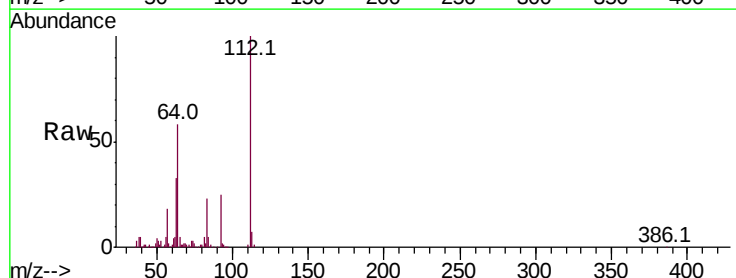
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



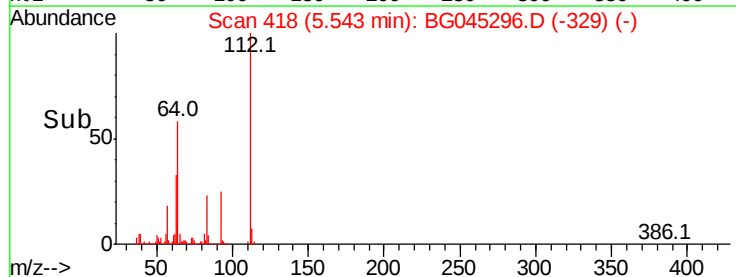
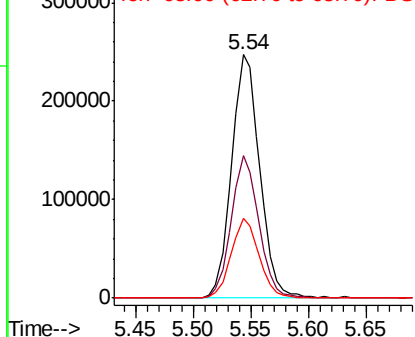
#5

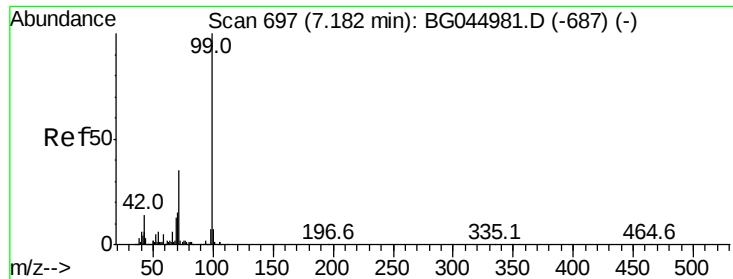
2-Fluorophenol  
Concen: 117.028 ng  
RT: 5.54 min Scan# 418  
Delta R.T. -0.01 min  
Lab File: BG045296.D  
Acq: 11 May 2020 14:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.4  | 42.4  | 63.6  |
| 63      | 32.7  | 23.1  | 34.7  |



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: 99.473 ng

RT: 7.14 min Scan# 690

Delta R.T. -0.01 min

Lab File: BG045296.D

Acq: 11 May 2020 14:44

Instrument :

BNA\_G

ClientSampleId :

HR-05-050720

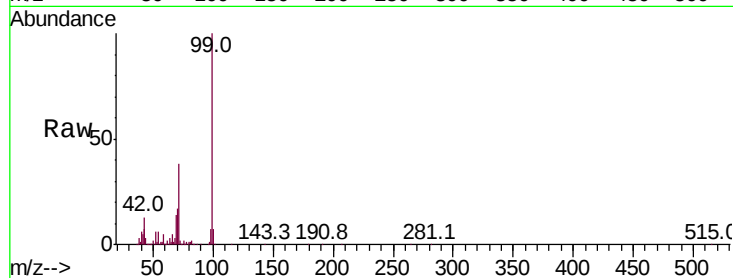
Tot Ion: 99 Resp: 527546

Ion Ratio Lower Upper

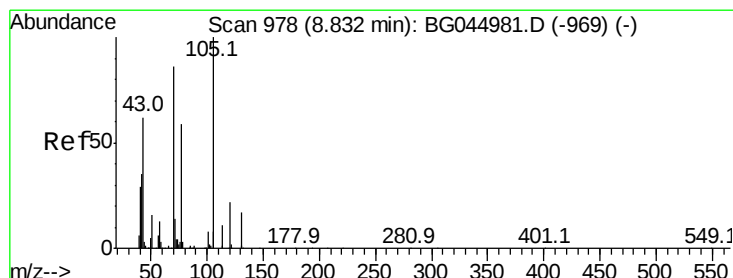
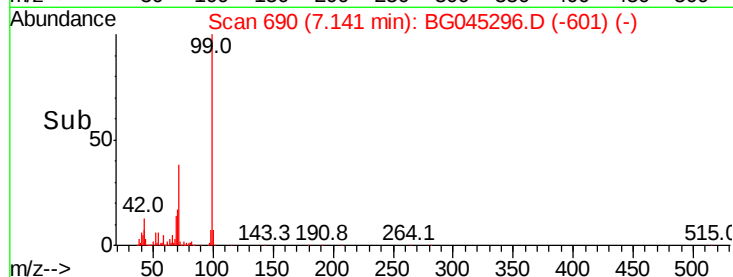
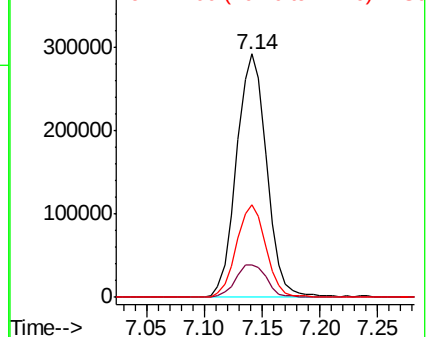
99 100

42 13.4 11.3 16.9

71 38.0 28.3 42.5



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: 15.784 ng

RT: 9.13 min Scan# 1029

Delta R.T. 0.35 min

Lab File: BG045296.D

Acq: 11 May 2020 14:44

Tgt Ion: 70 Resp: 59201

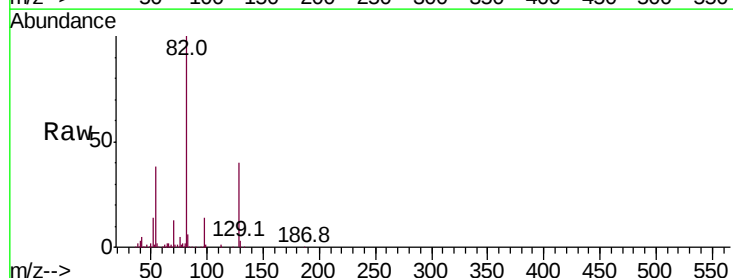
Ion Ratio Lower Upper

70 100

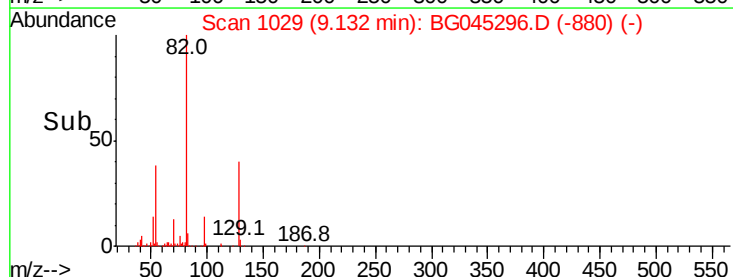
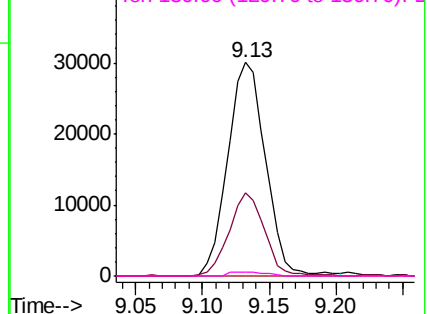
42 38.8 33.3 49.9

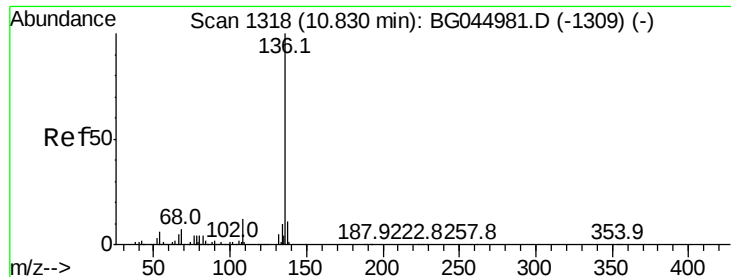
101 0.0 7.8 11.8#

130 1.7 15.8 23.6#



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

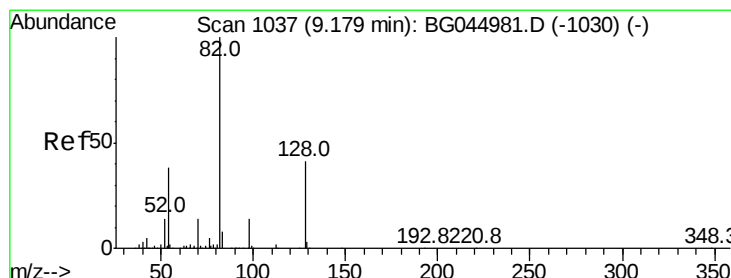
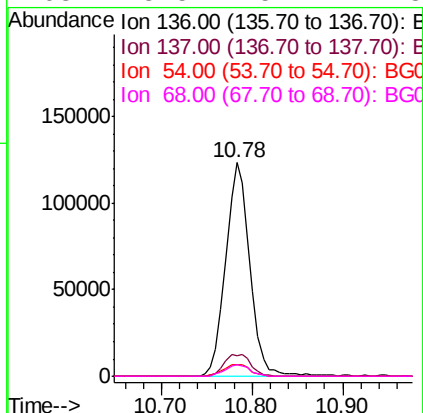
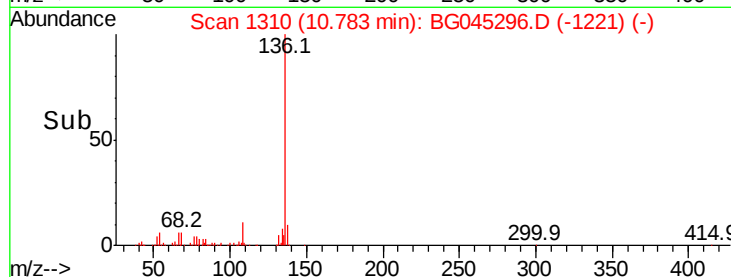
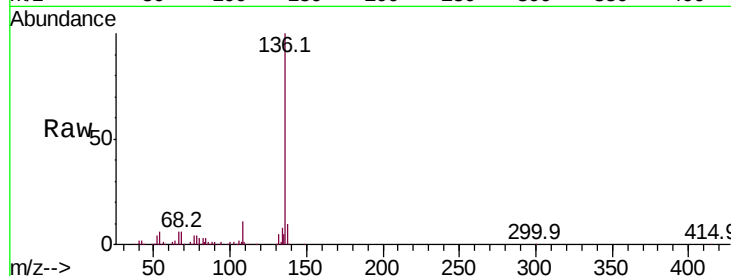




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.78 min Scan# 1310  
Delta R.T. -0.01 min  
Lab File: BG045296.D  
Acq: 11 May 2020 14:44

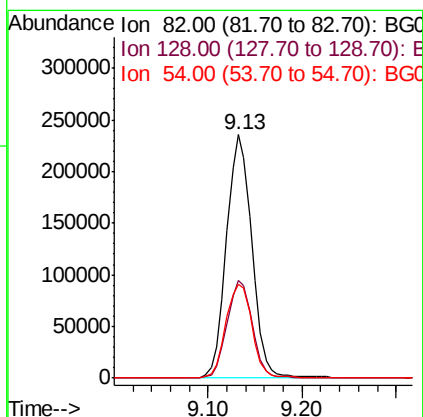
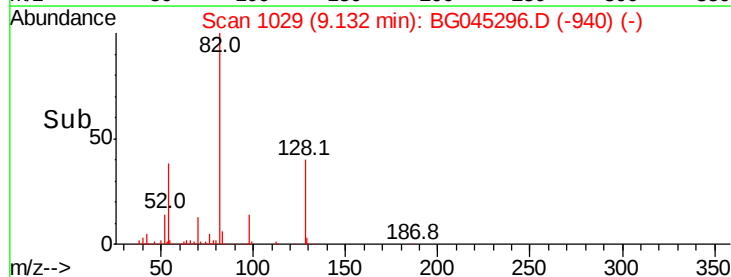
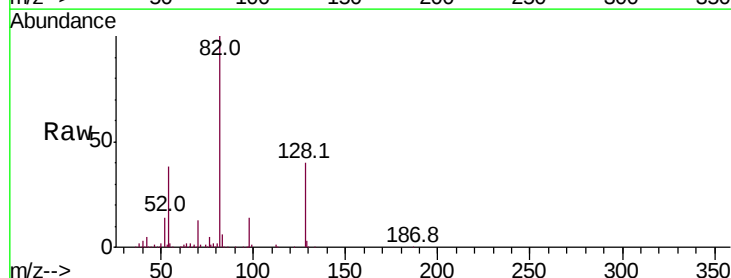
Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-050720

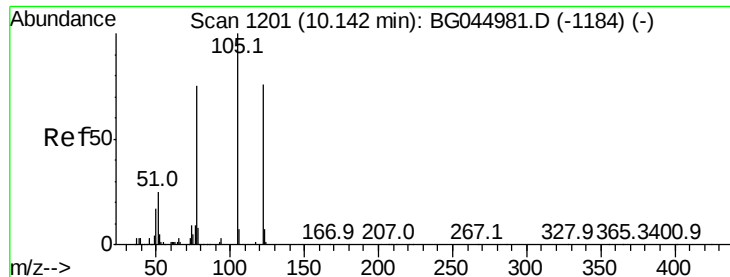
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 228221 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 9.8   | 8.6   | 13.0   |
| 54       | 5.7   | 4.8   | 7.2    |
| 68       | 5.5   | 5.2   | 7.8    |



#23  
Nitrobenzene-d5  
Concen: 88.481 ng  
RT: 9.13 min Scan# 1029  
Delta R.T. -0.01 min  
Lab File: BG045296.D  
Acq: 11 May 2020 14:44

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 442555 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 40.3  | 33.0  | 49.4   |
| 54       | 38.5  | 30.4  | 45.6   |





#32

Benzoic acid

Concen: 6.393 ng

RT: 10.12 min Scan# 1197

Delta R.T. 0.02 min

Lab File: BG045296.D

Acq: 11 May 2020 14:44

Instrument :

BNA\_G

ClientSampleId :

HR-05-050720

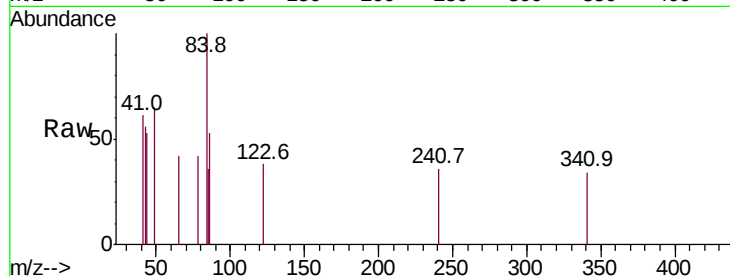
Tot Ion:122 Resp: 64

Ion Ratio Lower Upper

122 100

105 0.0 108.4 148.4#

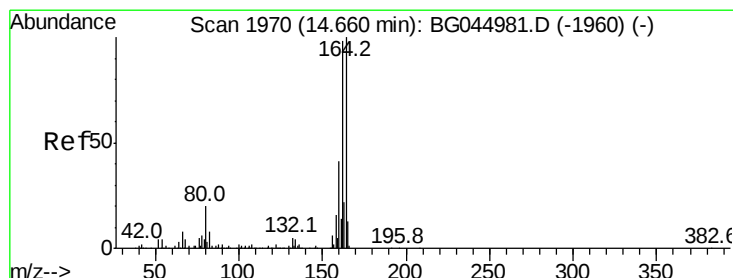
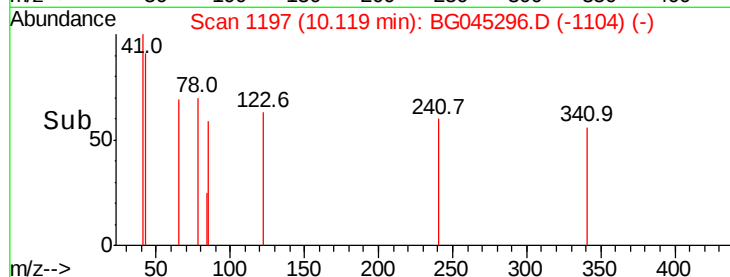
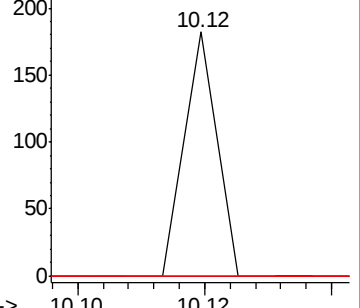
77 0.0 78.8 118.8#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.62 min Scan# 1963

Delta R.T. -0.01 min

Lab File: BG045296.D

Acq: 11 May 2020 14:44

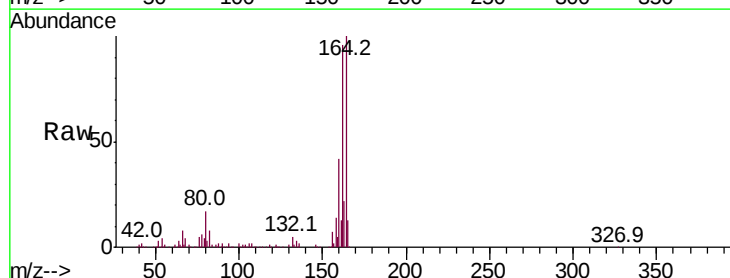
Tgt Ion:164 Resp: 160117

Ion Ratio Lower Upper

164 100

162 95.9 78.7 118.1

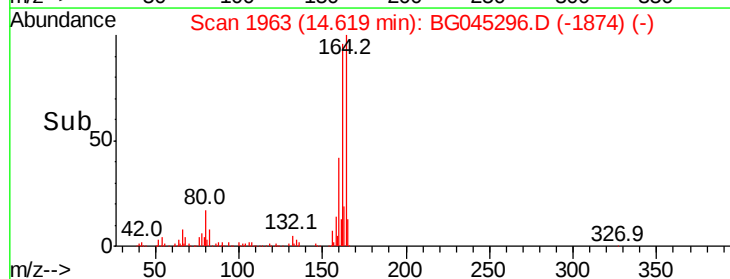
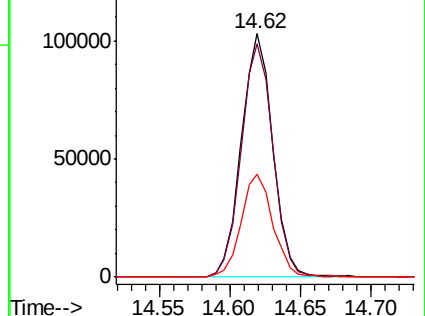
160 42.0 32.8 49.2

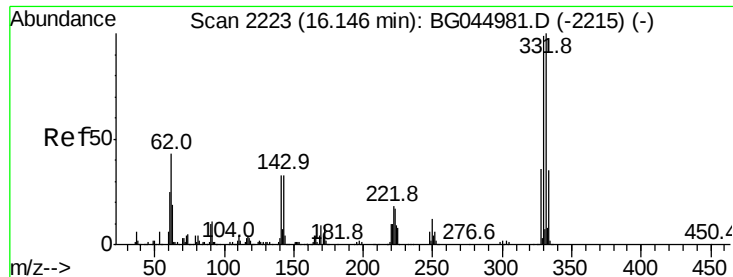


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

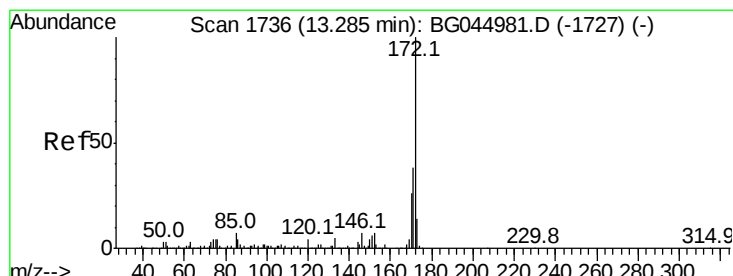
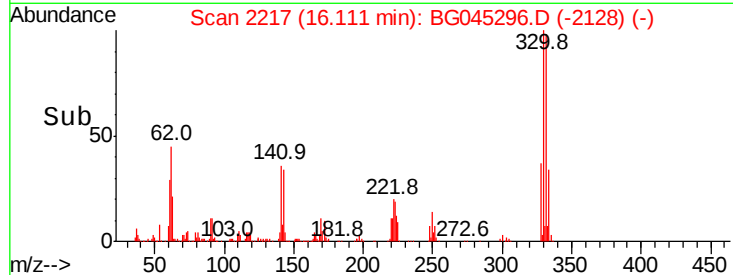
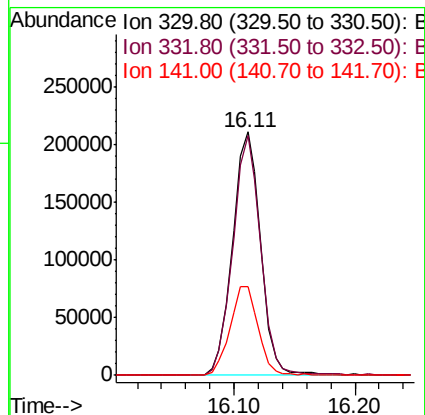
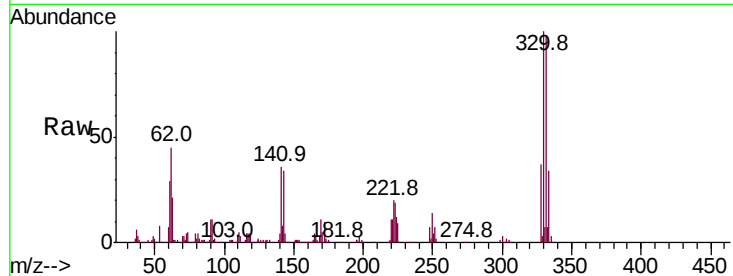




#42  
 2,4,6-Tribromophenol  
 Concen: 137.838 ng  
 RT: 16.11 min Scan# 2217  
 Delta R.T. -0.01 min  
 Lab File: BG045296.D  
 Acq: 11 May 2020 14:44

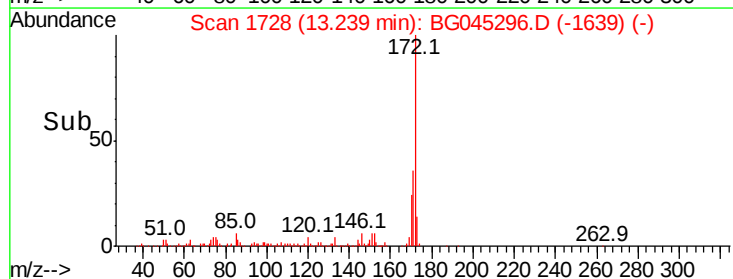
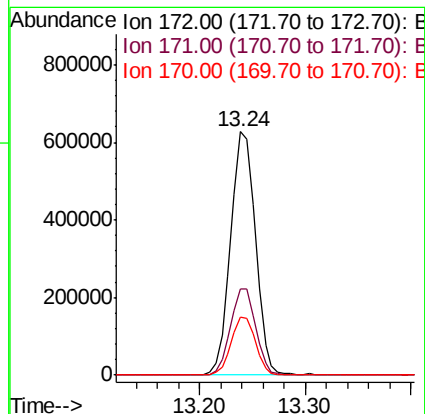
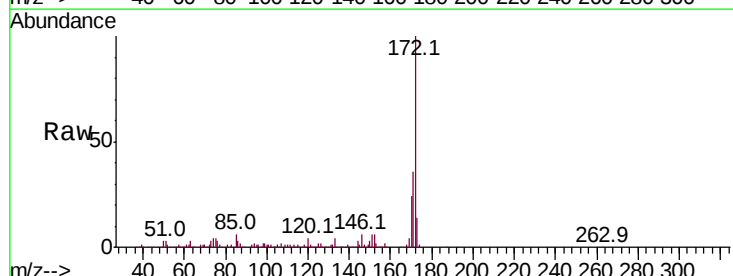
Instrument :  
 BNA\_G  
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 HR-05-050720

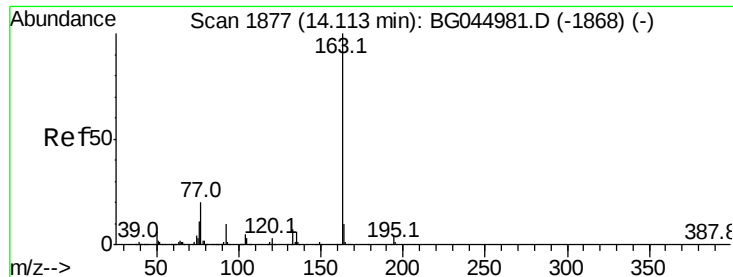
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.9  | 79.1  | 118.7 |
| 141     | 36.8  | 27.1  | 40.7  |



#45  
 2-Fluorobiphenyl  
 Concen: 93.472 ng  
 RT: 13.24 min Scan# 1728  
 Delta R.T. -0.01 min  
 Lab File: BG045296.D  
 Acq: 11 May 2020 14:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.6  | 30.6  | 46.0  |
| 170     | 23.9  | 20.5  | 30.7  |





#50

Dimethylphthalate

Concen: 13.780 ng

RT: 14.07 min Scan# 1869

Delta R.T. -0.01 min

Lab File: BG045296.D

Acq: 11 May 2020 14:44

Instrument :

BNA\_G

ClientSampleId :

HR-05-050720

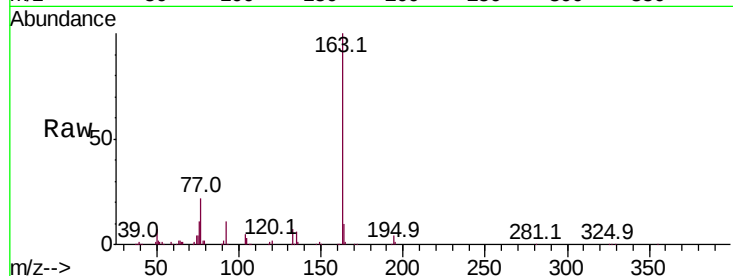
Tot Ion:163 Resp: 179652

Ion Ratio Lower Upper

163 100

194 4.2 3.5 5.3

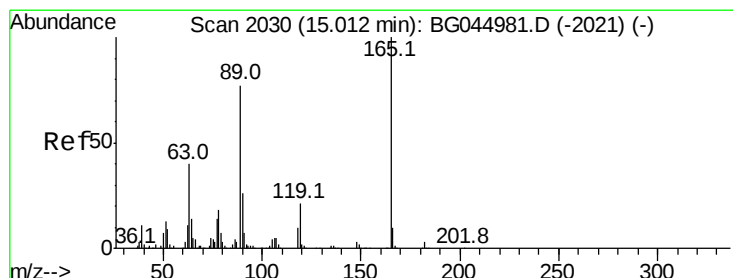
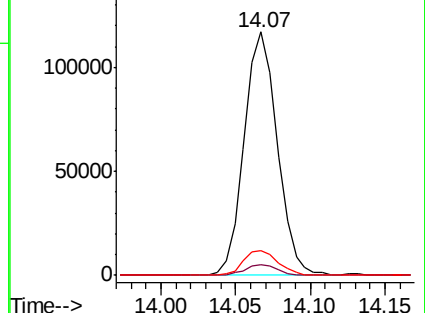
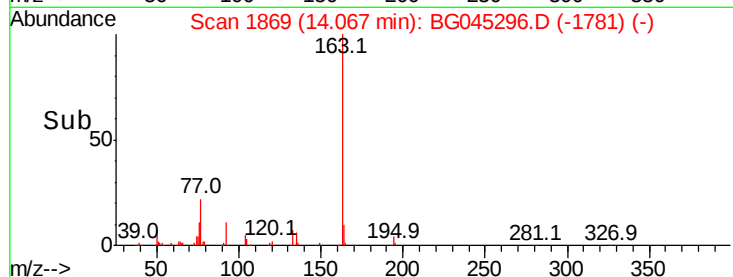
164 9.9 8.2 12.4



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: 5.183 ng

RT: 14.62 min Scan# 1963

Delta R.T. -0.36 min

Lab File: BG045296.D

Acq: 11 May 2020 14:44

Tgt Ion:165 Resp: 22087

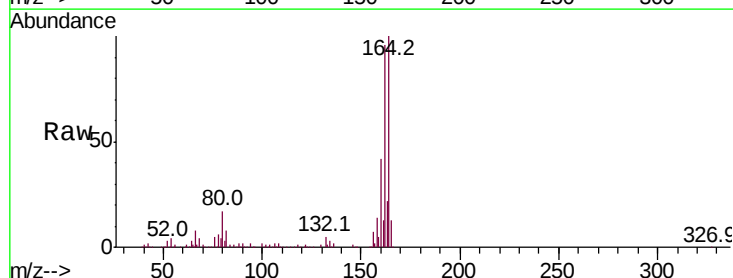
Ion Ratio Lower Upper

165 100

63 2.0 32.2 48.2#

89 2.7 61.7 92.5#

182 0.0 2.0 3.0#

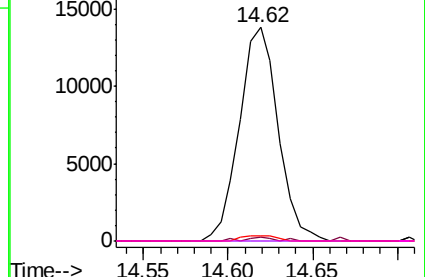
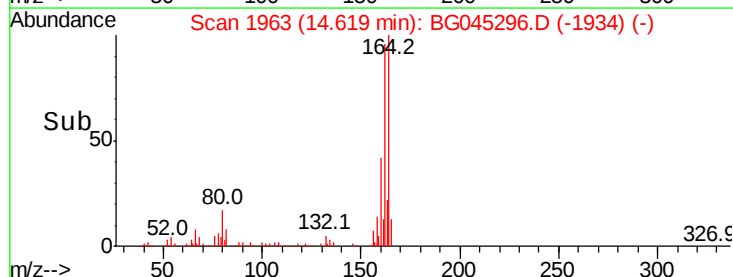


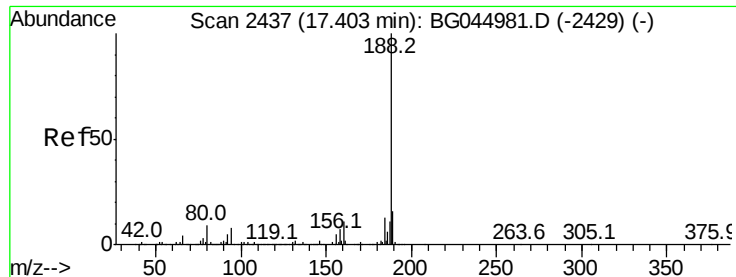
Abundance Ion 165.00 (164.70 to 165.70): E

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: 17.37 min Scan# 2431

Delta R.T. -0.00 min

Lab File: BG045296.D

Acq: 11 May 2020 14:44

Instrument :

BNA\_G

ClientSampleId :

HR-05-050720

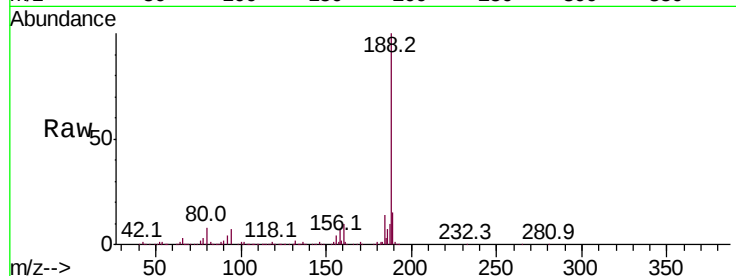
Tot Ion:188 Resp: 392502

Ion Ratio Lower Upper

188 100

94 7.1 6.2 9.4

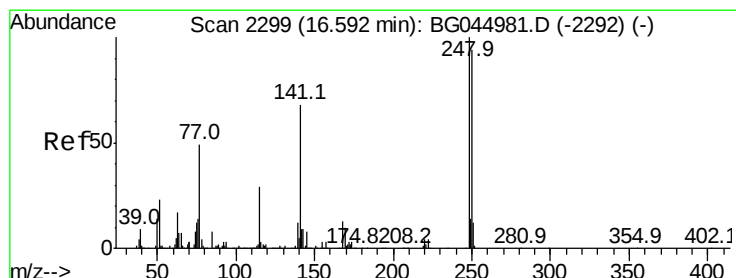
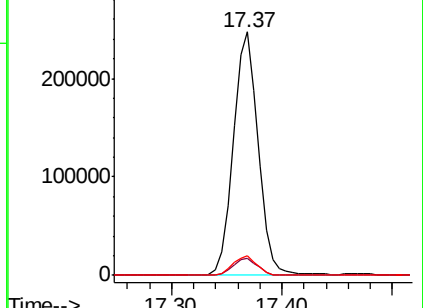
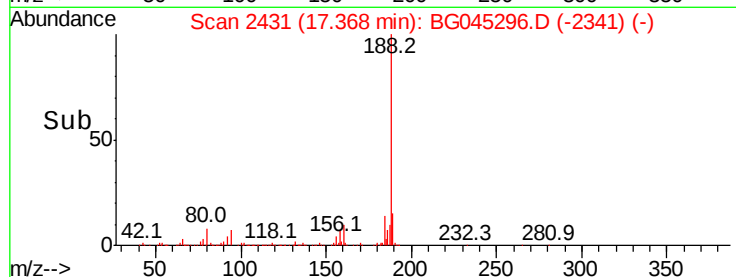
80 7.9 7.0 10.6



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: 4.471 ng

RT: 16.11 min Scan# 2217

Delta R.T. -0.45 min

Lab File: BG045296.D

Acq: 11 May 2020 14:44

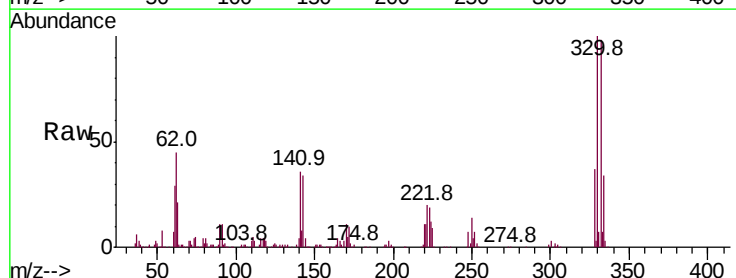
Tgt Ion:248 Resp: 22639

Ion Ratio Lower Upper

248 100

250 204.7 75.4 113.2#

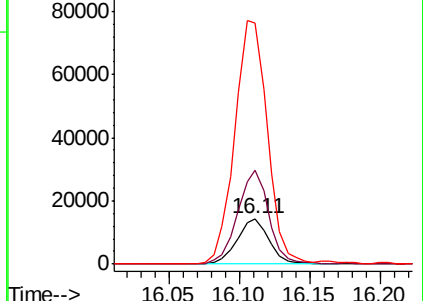
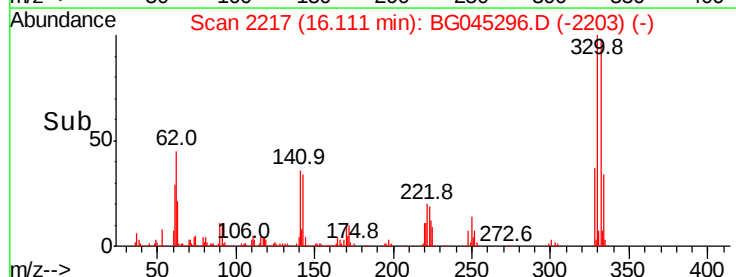
141 529.9 54.4 81.6#

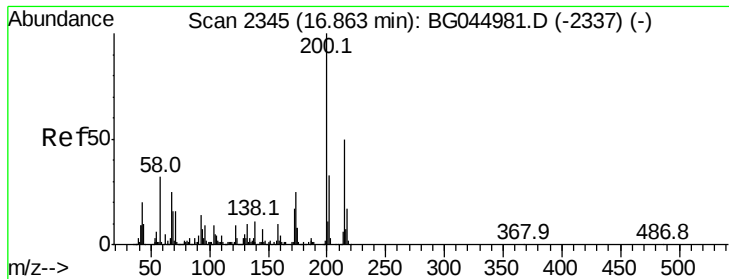


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#69

Atrazine

Concen: Below Cal

RT: 17.15 min Scan# 2394

Delta R.T. 0.32 min

Lab File: BG045296.D

Acq: 11 May 2020 14:44

Instrument :

BNA\_G

ClientSampleId :

HR-05-050720

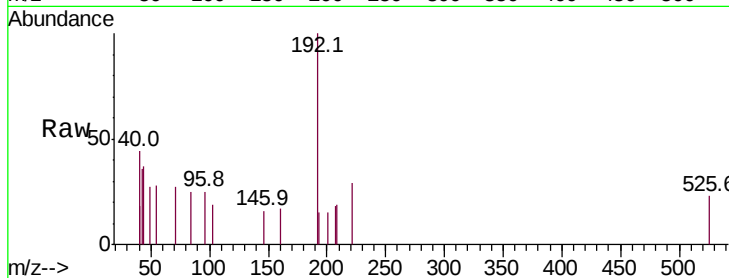
Tot Ion:200 Resp: 53

Ion Ratio Lower Upper

200 100

173 0.0 4.5 44.5#

215 0.0 30.0 70.0#



Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E

17.15

150

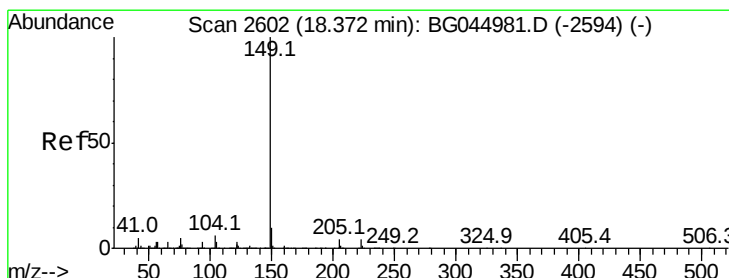
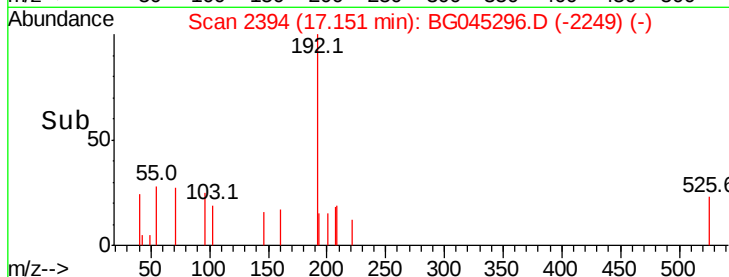
100

50

0

17.14 17.16

Time-->



#74

Di-n-butylphthalate

Concen: Below Cal

RT: 18.33 min Scan# 2595

Delta R.T. -0.01 min

Lab File: BG045296.D

Acq: 11 May 2020 14:44

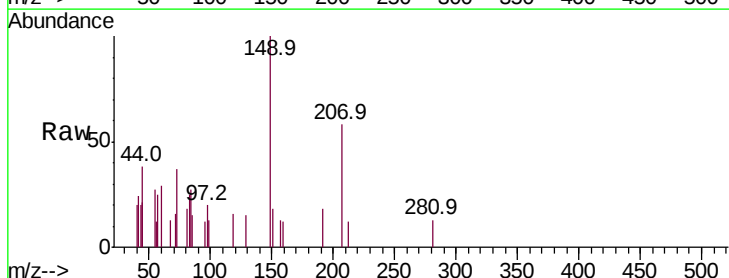
Tgt Ion:149 Resp: 1616

Ion Ratio Lower Upper

149 100

150 0.0 8.2 12.2#

104 0.0 4.8 7.2#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

18.33

1500

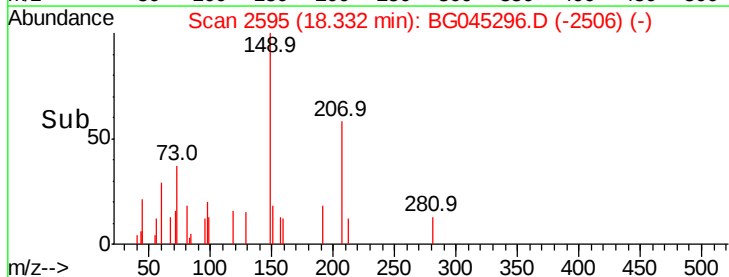
1000

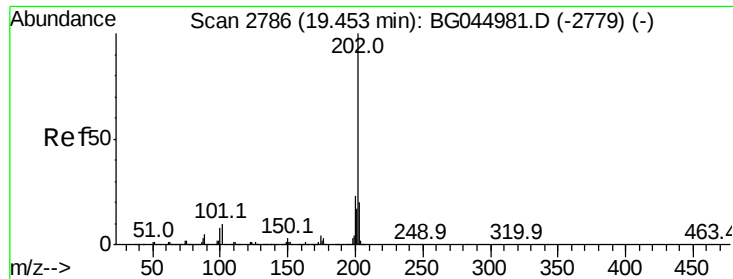
500

0

18.30 18.35

Time-->

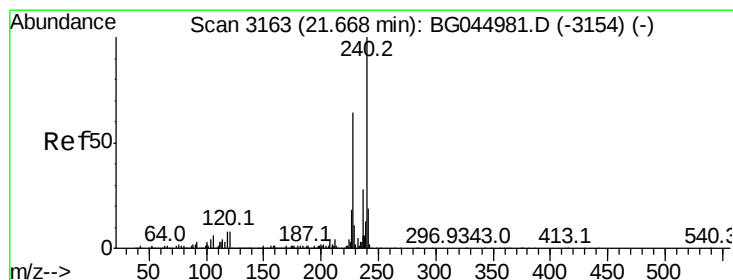
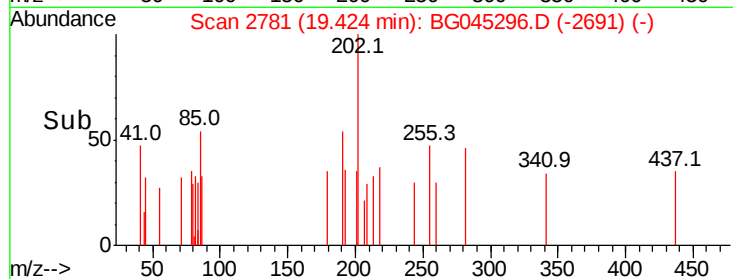
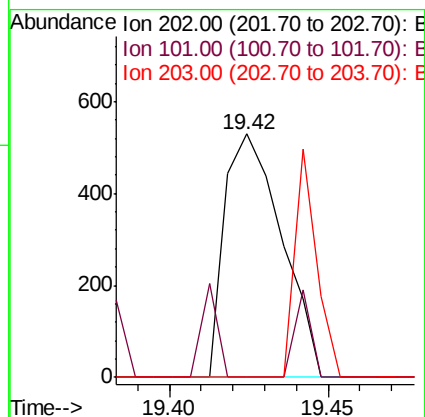
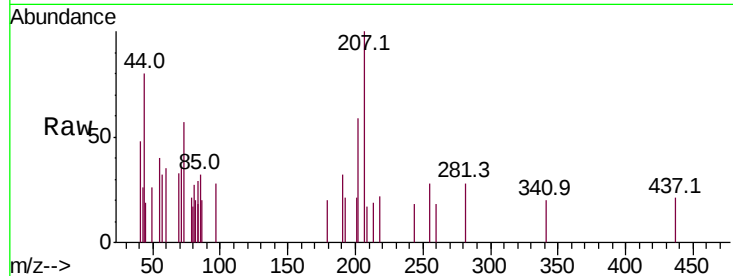




#75  
 Fluoranthene  
 Concen: Below Cal  
 RT: 19.42 min Scan# 2781  
 Delta R.T. -0.00 min  
 Lab File: BG045296.D  
 Acq: 11 May 2020 14:44

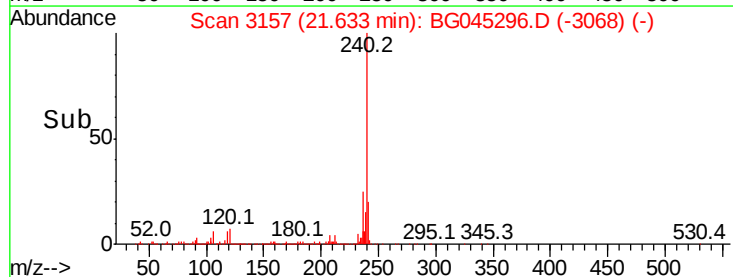
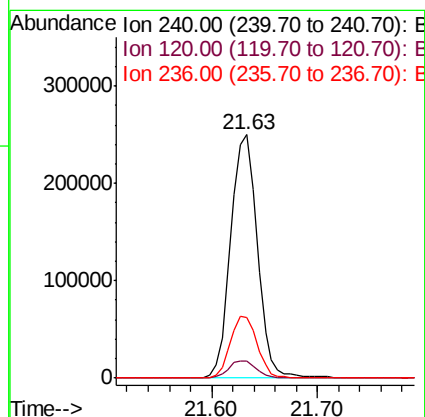
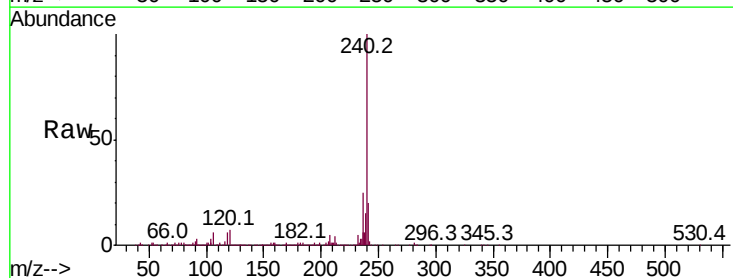
Instrument :  
 BNA\_G  
 ClientSampleId :  
 HR-05-050720

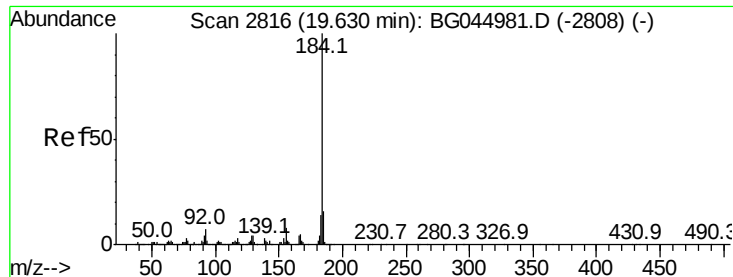
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 202   | Resp: | 658   |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 0.0   | 0.0   | 29.6  |
| 203      | 0.0   | 0.0   | 39.7  |



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.63 min Scan# 3157  
 Delta R.T. -0.01 min  
 Lab File: BG045296.D  
 Acq: 11 May 2020 14:44

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 437684 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 7.1   | 6.6   | 10.0   |
| 236      | 25.0  | 22.2  | 33.2   |





#77

Benzidine

Concen: Below Cal

RT: 19.98 min Scan# 2876

Delta R.T. 0.38 min

Lab File: BG045296.D

Acq: 11 May 2020 14:44

Instrument :

BNA\_G

ClientSampleId :

HR-05-050720

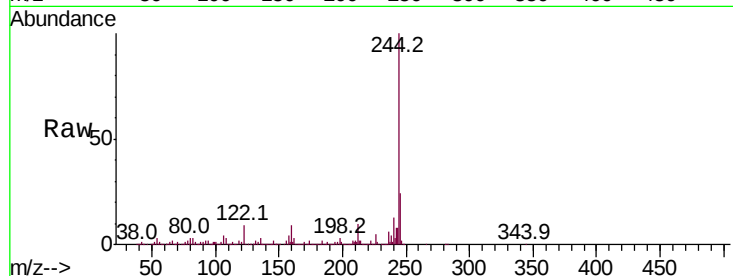
Tot Ion:184 Resp: 38530

Ion Ratio Lower Upper

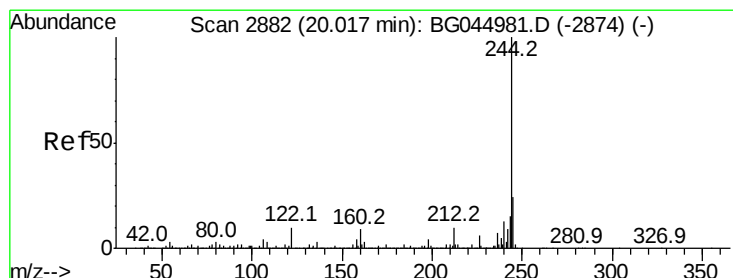
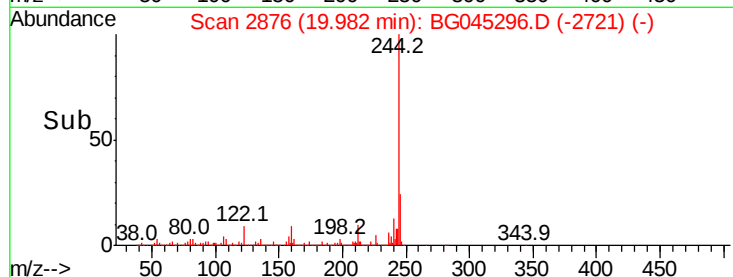
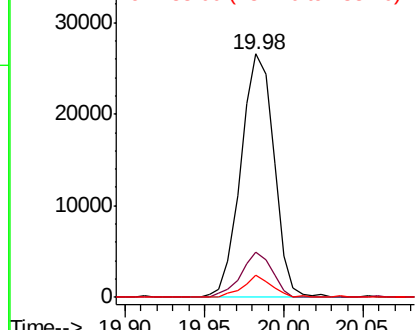
184 100

185 18.7 12.6 19.0

183 9.1 11.3 16.9#



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: 101.808 ng

RT: 19.98 min Scan# 2876

Delta R.T. -0.01 min

Lab File: BG045296.D

Acq: 11 May 2020 14:44

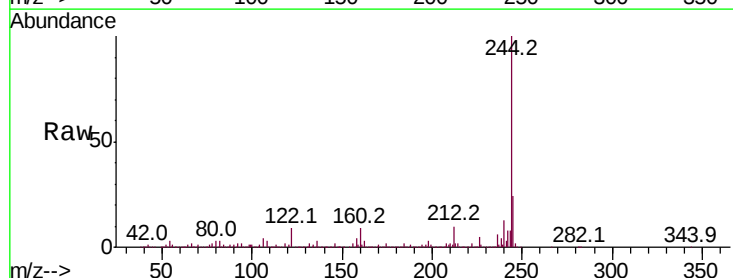
Tgt Ion:244 Resp: 2044423

Ion Ratio Lower Upper

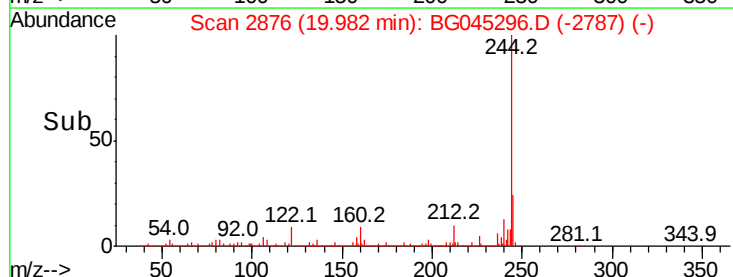
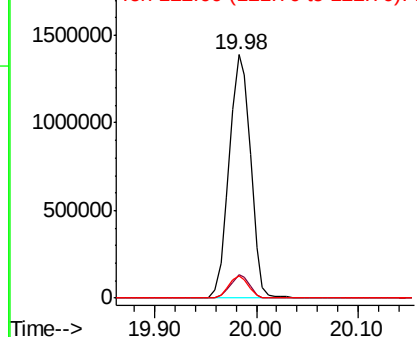
244 100

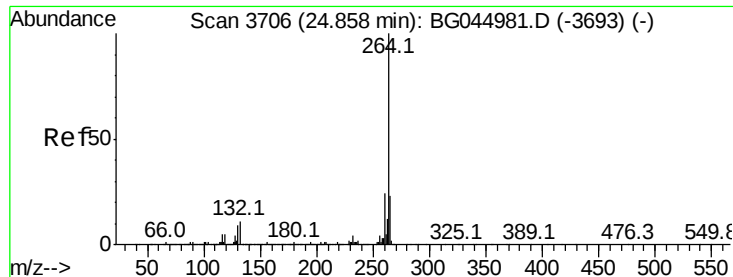
212 9.9 7.9 11.9

122 9.2 7.7 11.5



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  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 24.79 min Scan# 3695  
 Delta R.T. -0.01 min  
 Lab File: BG045296.D  
 Acq: 11 May 2020 14:44

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HR-05-050720

Tot Ion:264 Resp: 465460  
 Ion Ratio Lower Upper  
 264 100  
 260 23.9 19.2 28.8  
 265 20.6 19.0 28.4

