

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG012720\  
 Data File : BG044219.D  
 Acq On : 27 Jan 2020 17:30  
 Operator : CG/JU  
 Sample : L1245-02  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 20200064-AMENDED-COMP-2

Quant Time: Jan 28 00:39:48 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG123019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 31 13:32:23 2019  
 Response via : Initial Calibration

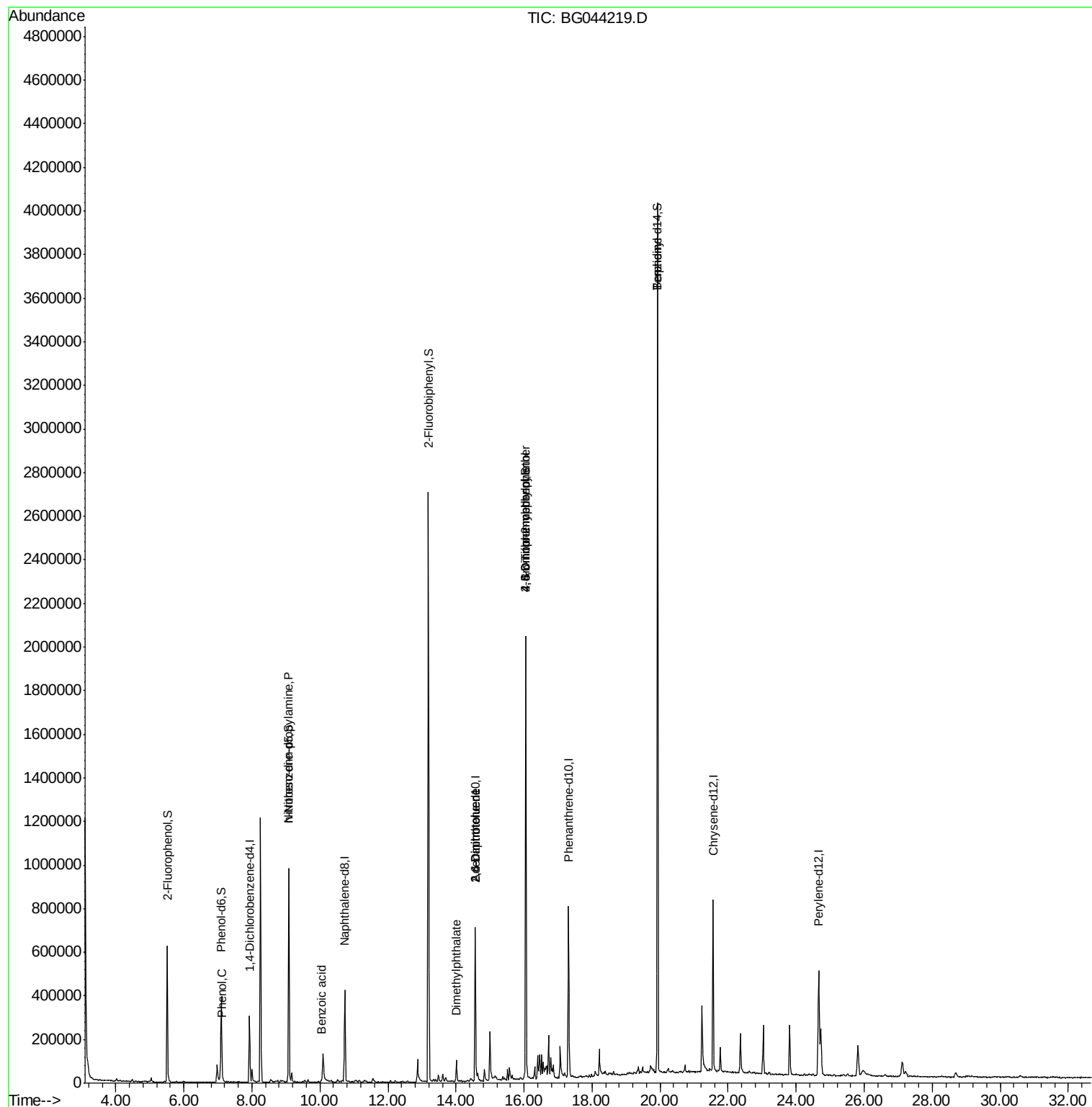
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.93  | 152  | 92228    | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 10.73 | 136  | 394245   | 20.00  | ng    | -0.04    |
| 39) Acenaphthene-d10           | 14.57 | 164  | 259659   | 20.00  | ng    | -0.03    |
| 64) Phenanthrene-d10           | 17.31 | 188  | 504054   | 20.00  | ng    | -0.03    |
| 76) Chrysene-d12               | 21.56 | 240  | 443713   | 20.00  | ng    | -0.03    |
| 87) Perylene-d12               | 24.67 | 264  | 505705   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.51  | 112  | 320691   | 63.84  | ng    | -0.03    |
| 7) Phenol-d6                   | 7.10  | 99   | 258654   | 36.84  | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 9.08  | 82   | 632904   | 85.88  | ng    | -0.04    |
| 42) 2,4,6-Tribromophenol       | 16.05 | 330  | 393064   | 144.65 | ng    | -0.03    |
| 45) 2-Fluorobiphenyl           | 13.19 | 172  | 1452743  | 101.37 | ng    | -0.03    |
| 79) Terphenyl-d14              | 19.92 | 244  | 1861836  | 108.43 | ng    | -0.03    |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 7.13  | 94   | 15337    | 2.120  | ng    | 93       |
| 19) n-Nitroso-di-n-propylamine | 9.09  | 70   | 82055    | 15.693 | ng    | # 77     |
| 32) Benzoic acid               | 10.05 | 122  | 3539     | 6.989  | ng    | # 83     |
| 50) Dimethylphthalate          | 14.01 | 163  | 68190    | 3.699  | ng    | # 98     |
| 51) 2,6-Dinitrotoluene         | 14.57 | 165  | 34019    | 8.164  | ng    | # 26     |
| 57) 2,4-Dinitrotoluene         | 14.57 | 165  | 34019    | 6.000  | ng    | # 27     |
| 65) 4,6-Dinitro-2-methylphenol | 16.05 | 198  | 1220     | 4.817  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 16.05 | 248  | 27427    | 4.838  | ng    | # 1      |
| 77) Benzidine                  | 19.92 | 184  | 32594    | 2.922  | ng    | # 93     |

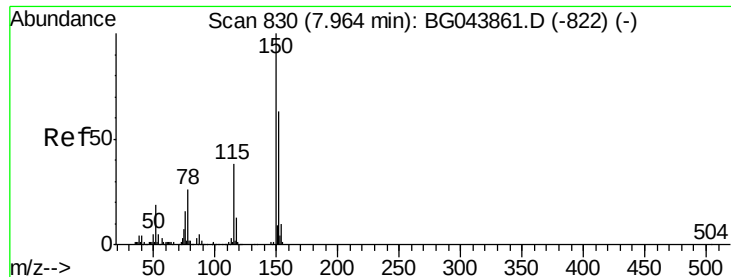
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG012720\  
Data File : BG044219.D  
Acq On : 27 Jan 2020 17:30  
Operator : CG/JU  
Sample : L1245-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
20200064-AMENDED-COMP-2

Quant Time: Jan 28 00:39:48 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG123019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 31 13:32:23 2019  
Response via : Initial Calibration



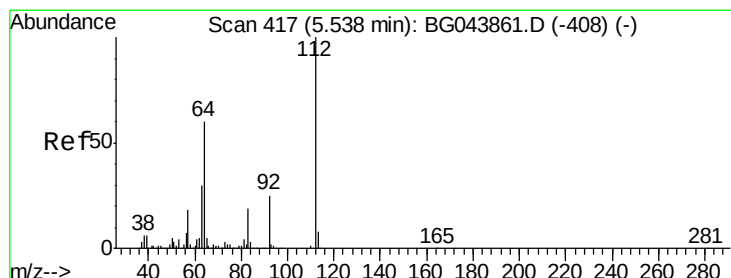
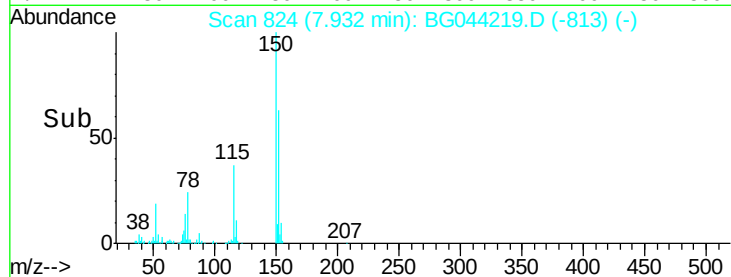
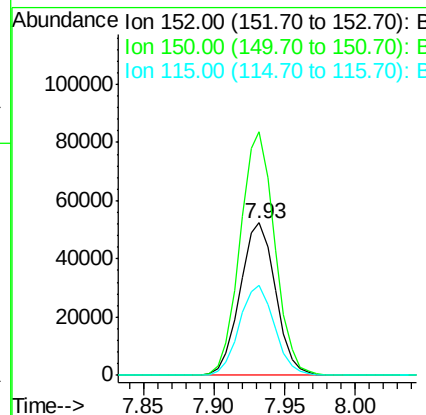
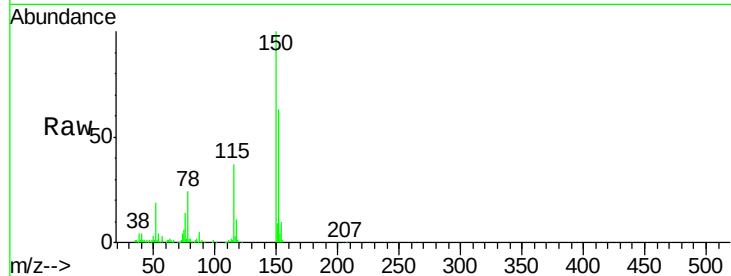


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.93 min Scan# 824  
Delta R.T. -0.03 min  
Lab File: BG044219.D  
Acq: 27 Jan 2020 17:30

Instrument :  
BNA\_G  
ClientSampleId :  
20200064-AMENDED-COMP-2

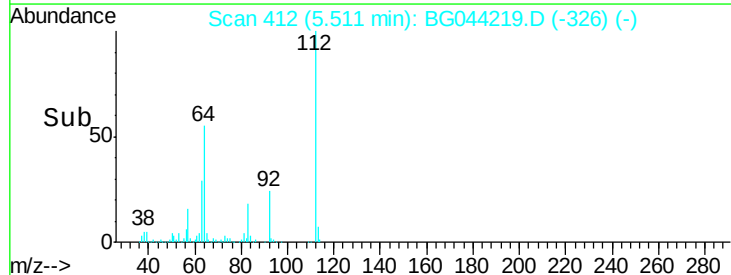
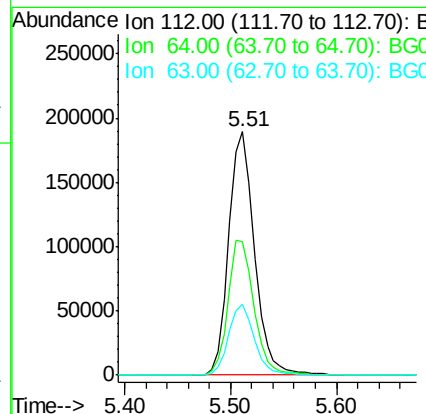
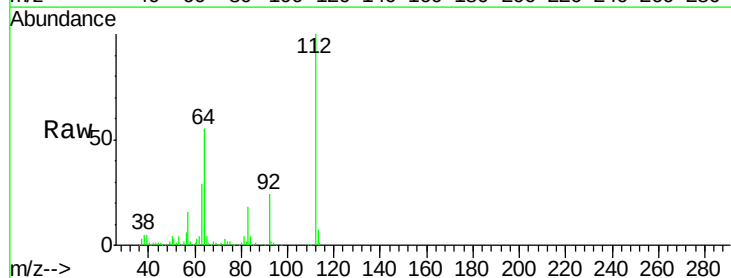
Tot Ion:152 Resp: 92228  
Ion Ratio Lower Upper  
152 100  
150 160.0 127.0 190.4  
115 59.1 47.8 71.8

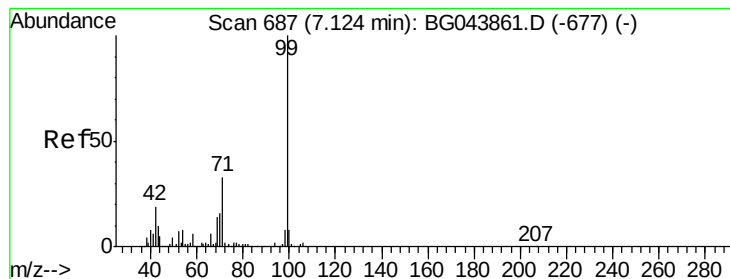


#5

2-Fluorophenol  
Concen: 63.845 ng  
RT: 5.51 min Scan# 412  
Delta R.T. -0.03 min  
Lab File: BG044219.D  
Acq: 27 Jan 2020 17:30

Tgt Ion:112 Resp: 320691  
Ion Ratio Lower Upper  
112 100  
64 54.7 47.8 71.6  
63 28.9 24.3 36.5





#7

Phenol-d6

Concen: 36.839 ng

RT: 7.10 min Scan# 682

Delta R.T. -0.03 min

Lab File: BG044219.D

Acq: 27 Jan 2020 17:30

Instrument :

BNA\_G

ClientSampleId :

20200064-AMENDED-COMP-2

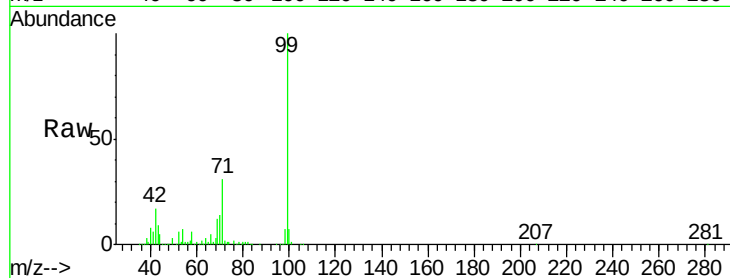
Tot Ion: 99 Resp: 258654

Ion Ratio Lower Upper

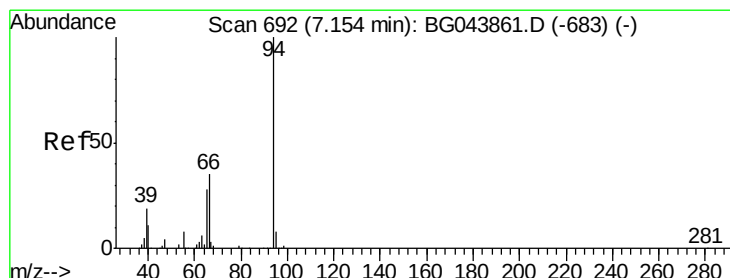
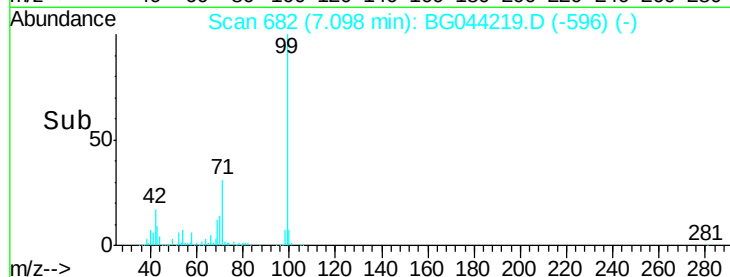
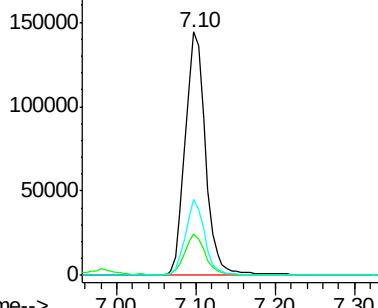
99 100

42 17.0 14.9 22.3

71 30.9 26.4 39.6



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: 2.120 ng

RT: 7.13 min Scan# 687

Delta R.T. -0.03 min

Lab File: BG044219.D

Acq: 27 Jan 2020 17:30

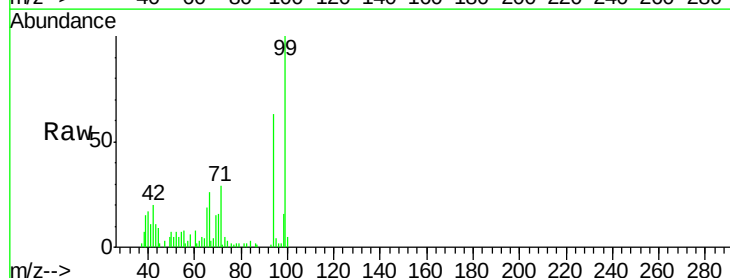
Tgt Ion: 94 Resp: 15337

Ion Ratio Lower Upper

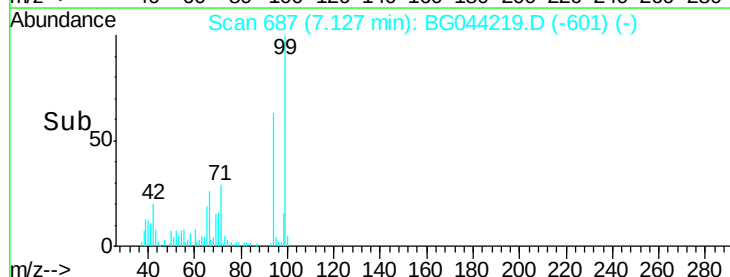
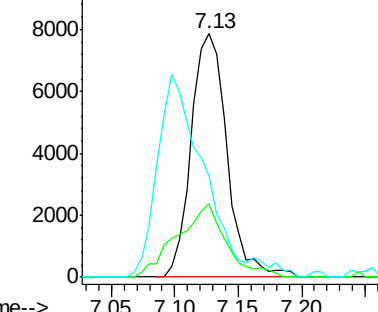
94 100

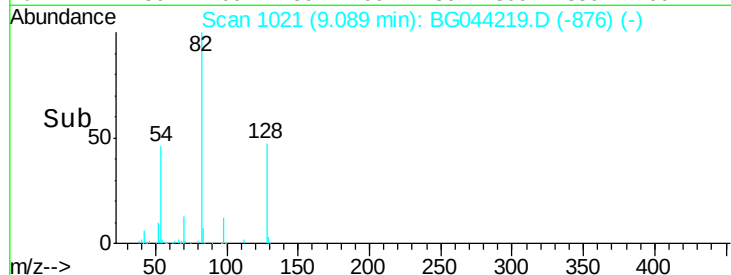
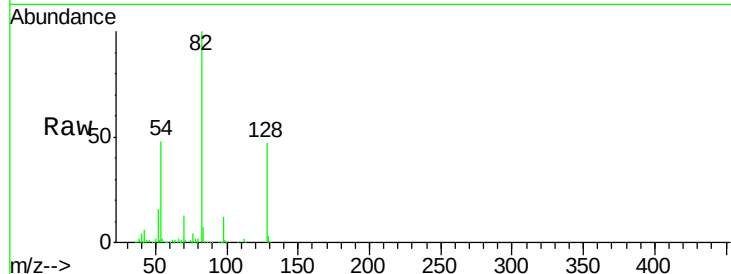
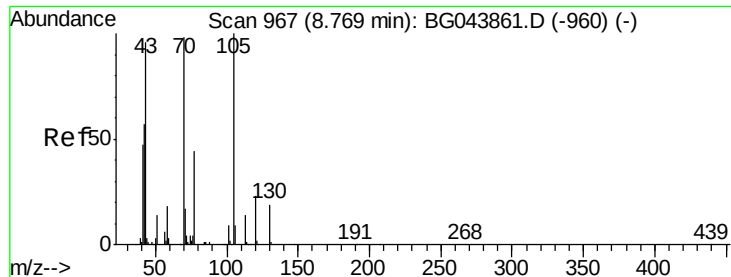
65 29.9 8.1 48.1

66 41.8 15.6 55.6



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

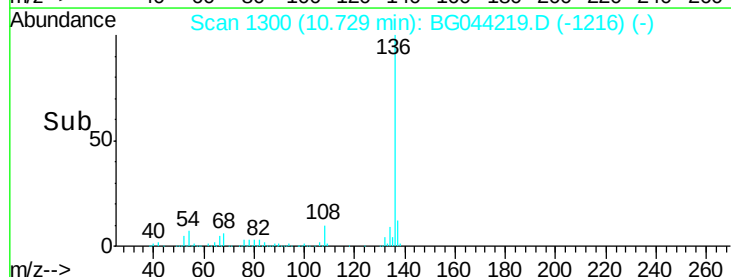
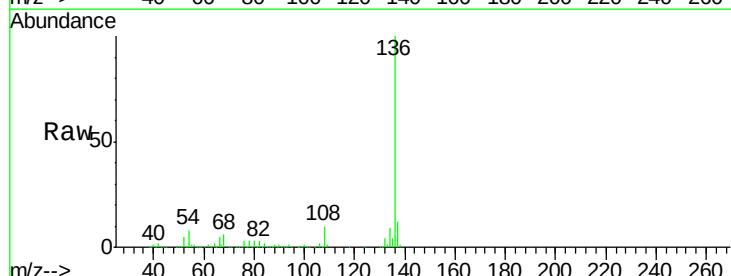
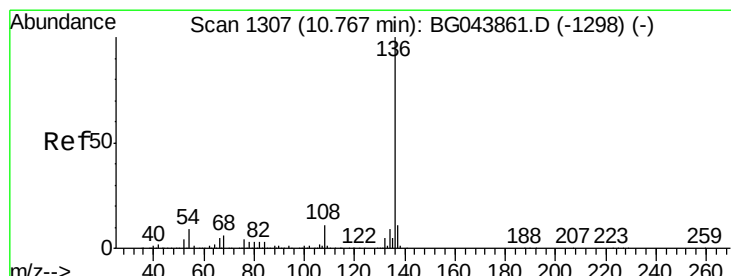
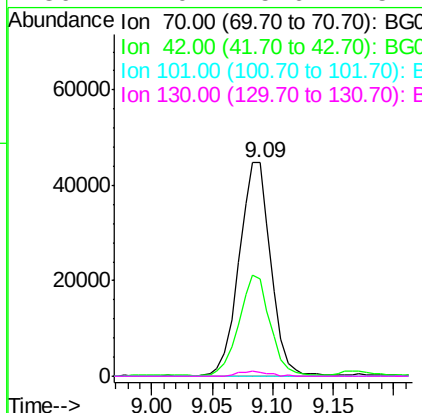




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.693 ng  
RT: 9.09 min Scan# 1021  
Delta R.T. 0.32 min  
Lab File: BG044219.D  
Acq: 27 Jan 2020 17:30

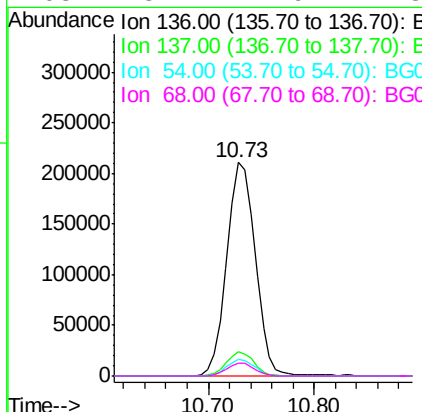
Instrument :  
BNA\_G  
ClientSampleId :  
20200064-AMENDED-COMP-2

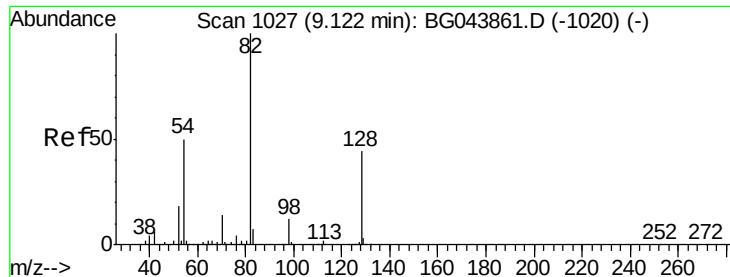
Tot Ion: 70 Resp: 82055  
Ion Ratio Lower Upper  
70 100  
42 45.6 47.0 70.4#  
101 0.0 7.2 10.8#  
130 2.0 15.6 23.4#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.73 min Scan# 1300  
Delta R.T. -0.04 min  
Lab File: BG044219.D  
Acq: 27 Jan 2020 17:30

Tgt Ion: 136 Resp: 394245  
Ion Ratio Lower Upper  
136 100  
137 11.7 8.8 13.2  
54 7.5 7.0 10.4  
68 5.7 4.9 7.3





#23

Nitrobenzene-d5

Concen: 85.880 ng

RT: 9.08 min Scan# 1020

Delta R.T. -0.04 min

Lab File: BG044219.D

Acq: 27 Jan 2020 17:30

Instrument :

BNA\_G

ClientSampleId :

20200064-AMENDED-COMP-2

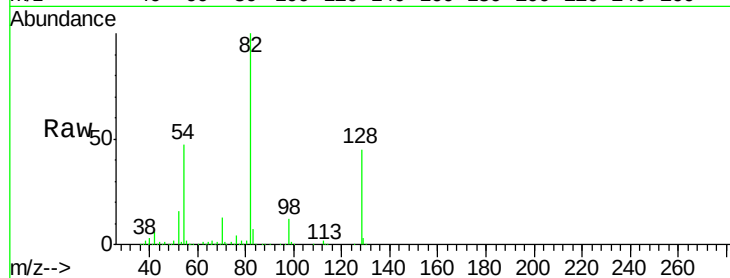
Tot Ion: 82 Resp: 632904

Ion Ratio Lower Upper

82 100

128 44.8 35.1 52.7

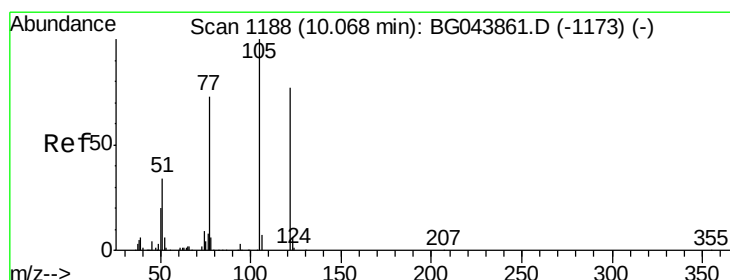
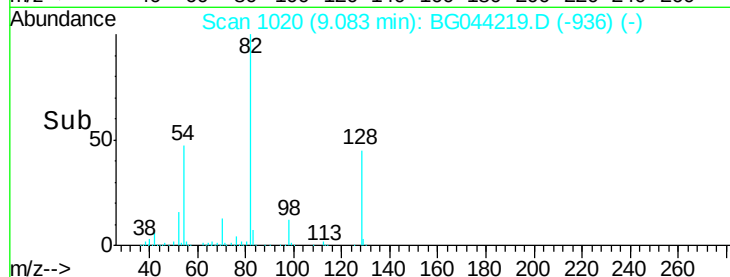
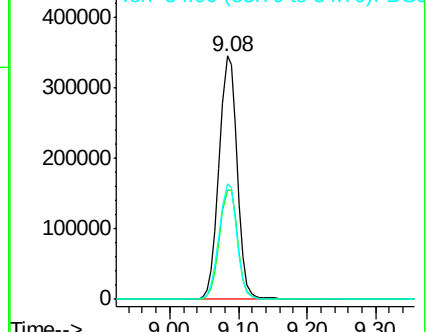
54 47.3 40.1 60.1



Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): BGC

Ion 54.00 (53.70 to 54.70): BGC



#32

Benzoic acid

Concen: 6.989 ng

RT: 10.05 min Scan# 1184

Delta R.T. -0.02 min

Lab File: BG044219.D

Acq: 27 Jan 2020 17:30

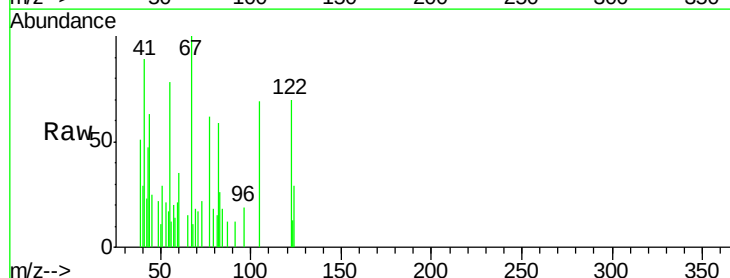
Tgt Ion: 122 Resp: 3539

Ion Ratio Lower Upper

122 100

105 98.0 106.4 146.4#

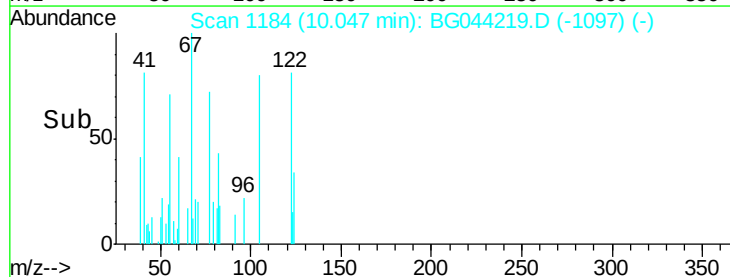
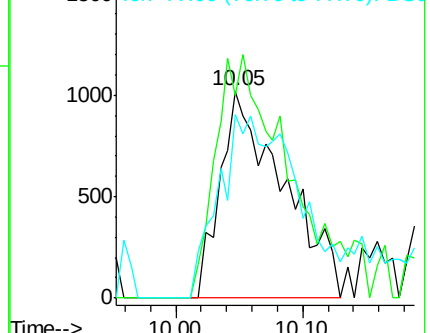
77 88.7 74.6 114.6

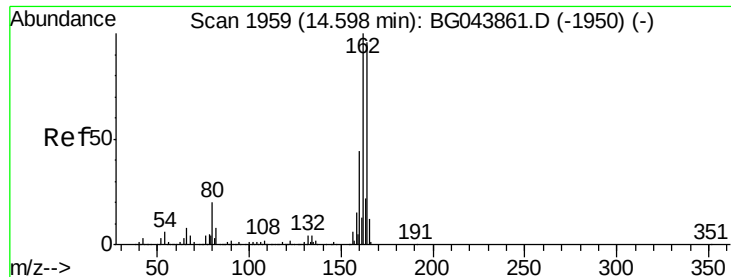


Abundance Ion 122.00 (121.70 to 122.70): BGC

Ion 105.00 (104.70 to 105.70): BGC

Ion 77.00 (76.70 to 77.70): BGC





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.57 min Scan# 1953

Delta R.T. -0.03 min

Lab File: BG044219.D

Acq: 27 Jan 2020 17:30

Instrument :

BNA\_G

ClientSampleId :

20200064-AMENDED-COMP-2

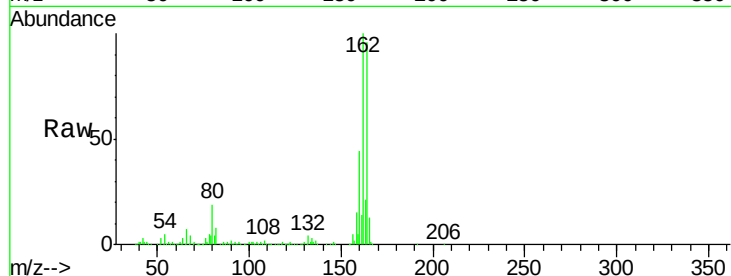
Tot Ion:164 Resp: 259659

Ion Ratio Lower Upper

164 100

162 104.7 83.0 124.4

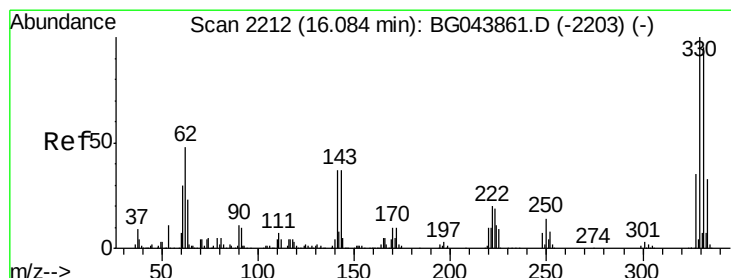
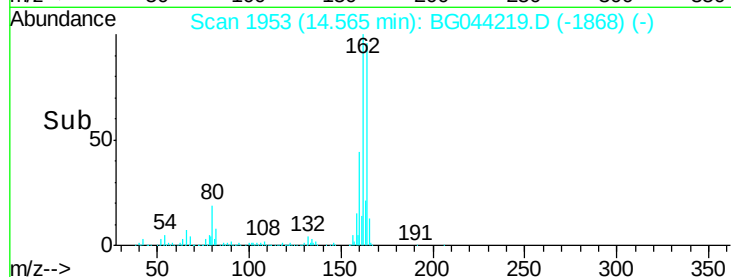
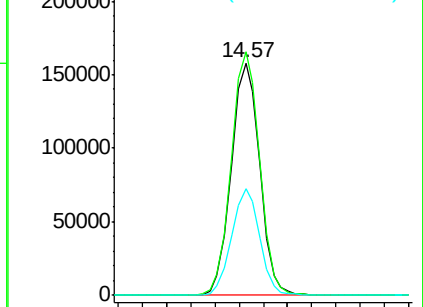
160 46.1 36.1 54.1



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: 144.654 ng

RT: 16.05 min Scan# 2206

Delta R.T. -0.03 min

Lab File: BG044219.D

Acq: 27 Jan 2020 17:30

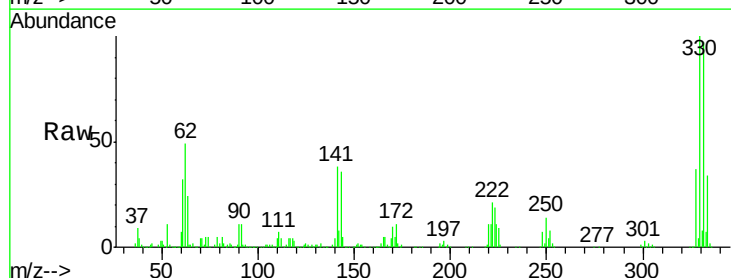
Tgt Ion:330 Resp: 393064

Ion Ratio Lower Upper

330 100

332 96.7 77.2 115.8

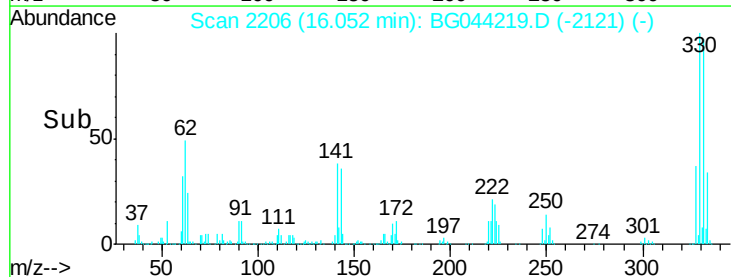
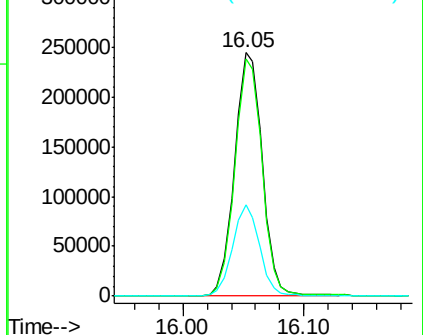
141 36.6 33.1 49.7

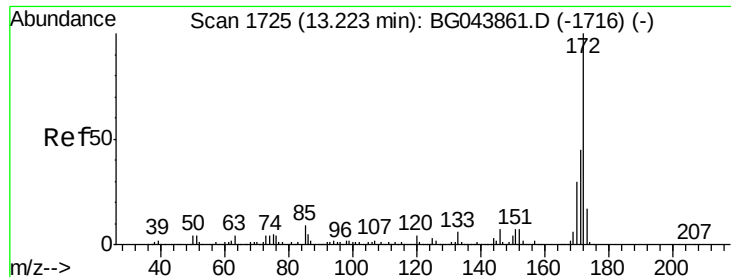


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

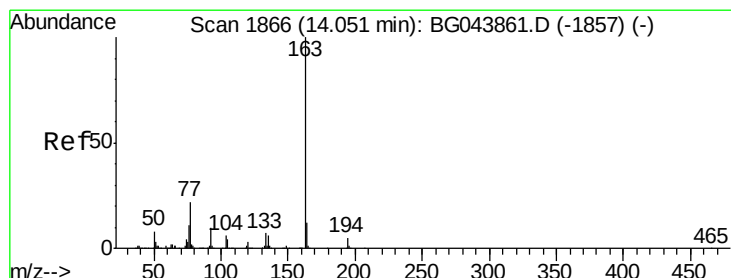
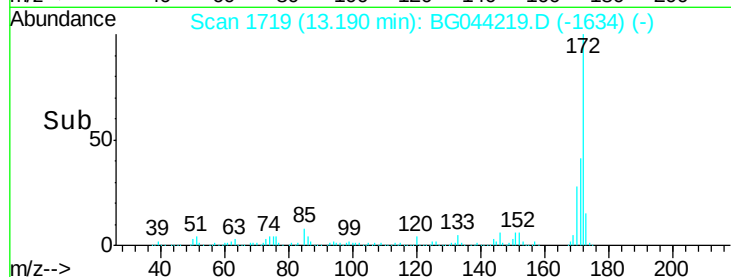
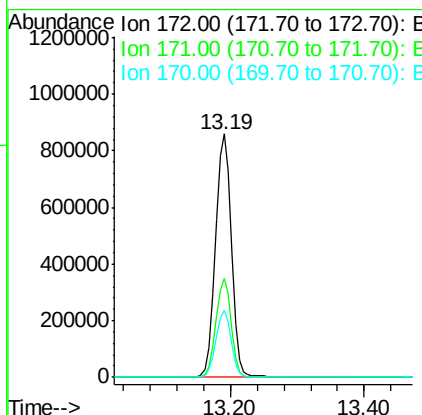
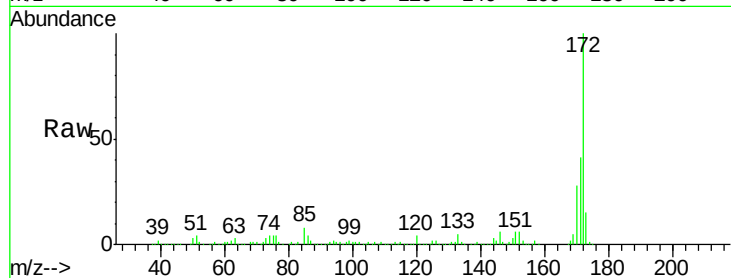




#45  
2-Fluorobiphenyl  
Concen: 101.365 ng  
RT: 13.19 min Scan# 1719  
Delta R.T. -0.03 min  
Lab File: BG044219.D  
Acq: 27 Jan 2020 17:30

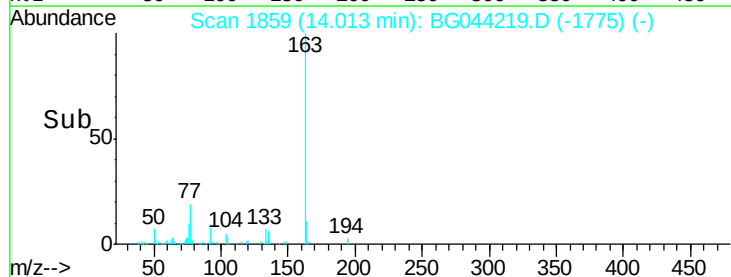
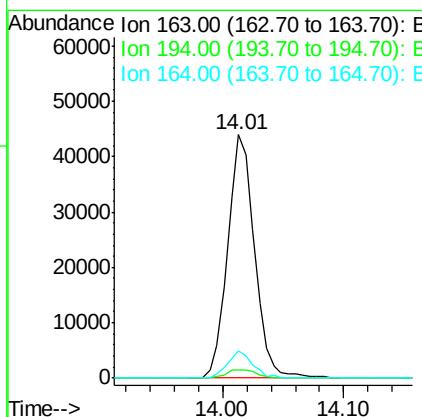
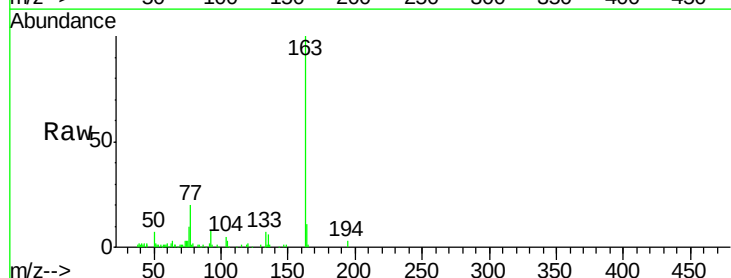
Instrument :  
BNA\_G  
ClientSampleId :  
20200064-AMENDED-COMP-2

Tot Ion:172 Resp: 1452743  
Ion Ratio Lower Upper  
172 100  
171 40.7 35.8 53.8  
170 27.7 24.2 36.4

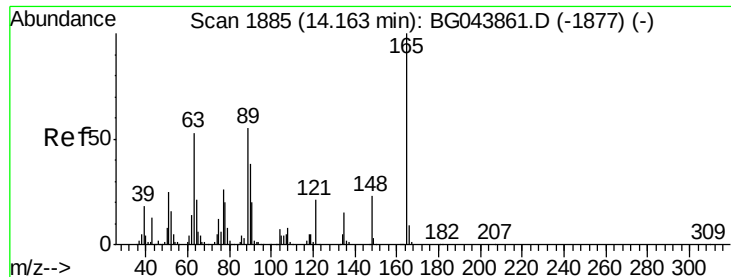


#50  
Dimethylphthalate  
Concen: 3.699 ng  
RT: 14.01 min Scan# 1859  
Delta R.T. -0.04 min  
Lab File: BG044219.D  
Acq: 27 Jan 2020 17:30

Tgt Ion:163 Resp: 68190  
Ion Ratio Lower Upper  
163 100  
194 3.4 3.7 5.5#  
164 11.0 9.3 13.9







#51

2,6-Dinitrotoluene

Concen: 8.164 ng

RT: 14.57 min Scan# 1953

Delta R.T. 0.40 min

Lab File: BG044219.D

Acq: 27 Jan 2020 17:30

Instrument:

BNA\_G

ClientSampleId:

20200064-AMENDED-COMP-2

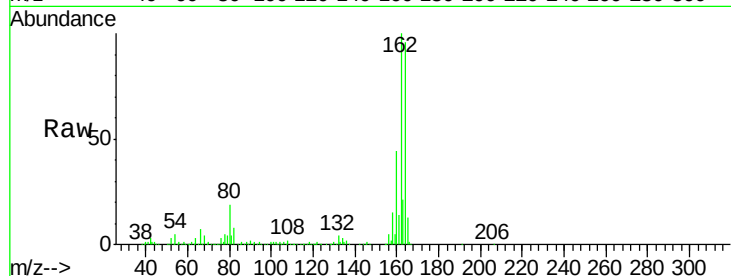
Tot Ion:165 Resp: 34019

Ion Ratio Lower Upper

165 100

63 1.2 43.1 64.7#

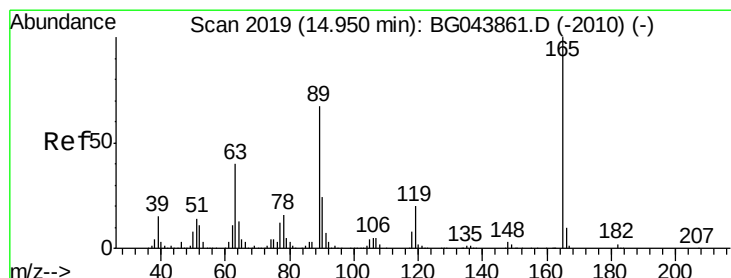
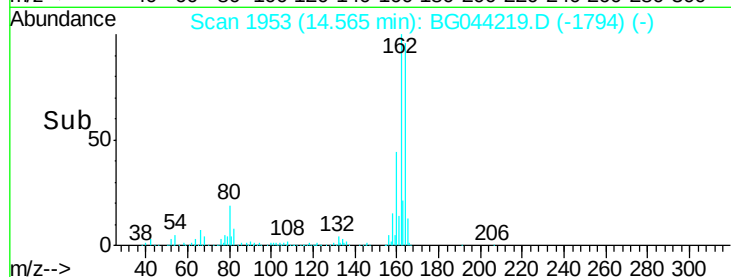
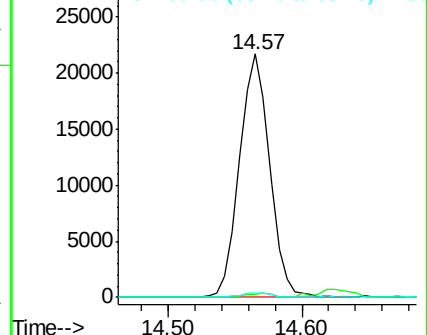
89 1.6 43.8 65.6#



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



#57

2,4-Dinitrotoluene

Concen: 6.000 ng

RT: 14.57 min Scan# 1953

Delta R.T. -0.39 min

Lab File: BG044219.D

Acq: 27 Jan 2020 17:30

Tgt Ion:165 Resp: 34019

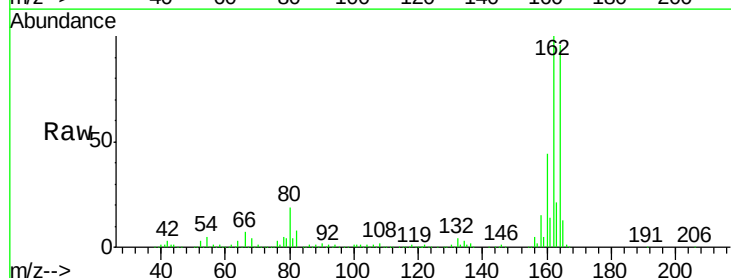
Ion Ratio Lower Upper

165 100

63 1.2 31.9 47.9#

89 1.6 53.8 80.6#

182 0.0 2.0 3.0#

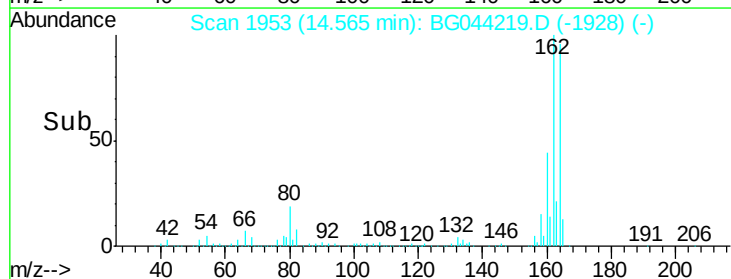
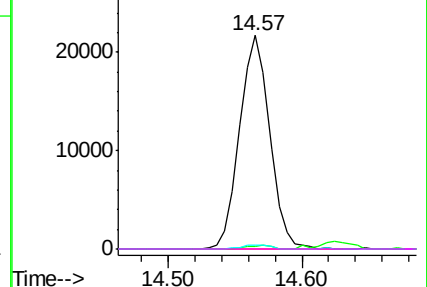


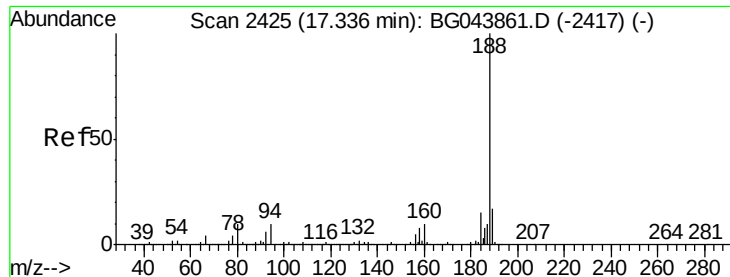
Abundance Ion 165.00 (164.70 to 165.70): E

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: 17.31 min Scan# 2420

Delta R.T. -0.03 min

Lab File: BG044219.D

Acq: 27 Jan 2020 17:30

Instrument :

BNA\_G

ClientSampleId :

20200064-AMENDED-COMP-2

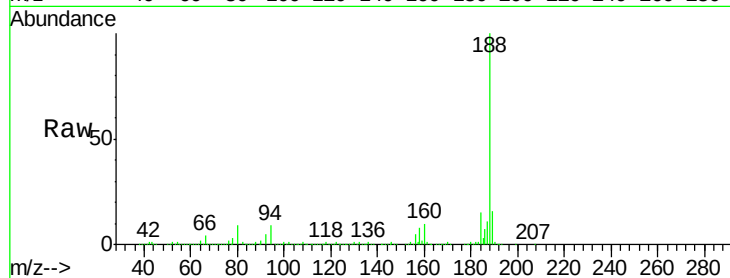
Tot Ion:188 Resp: 504054

Ion Ratio Lower Upper

188 100

94 9.3 7.9 11.9

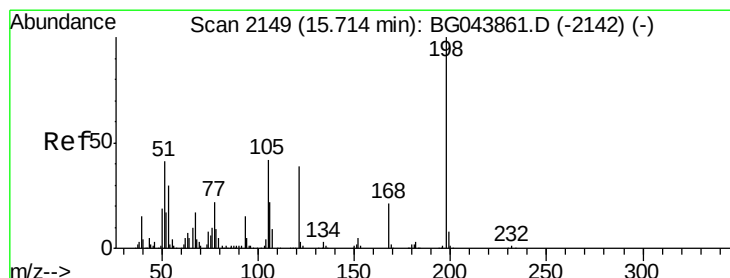
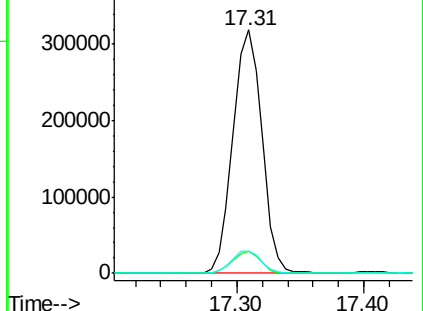
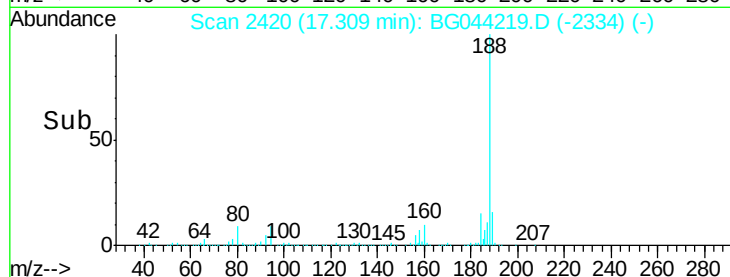
80 9.3 8.2 12.4



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



#65

4,6-Dinitro-2-methylphenol

Concen: 4.817 ng

RT: 16.05 min Scan# 2206

Delta R.T. 0.34 min

Lab File: BG044219.D

Acq: 27 Jan 2020 17:30

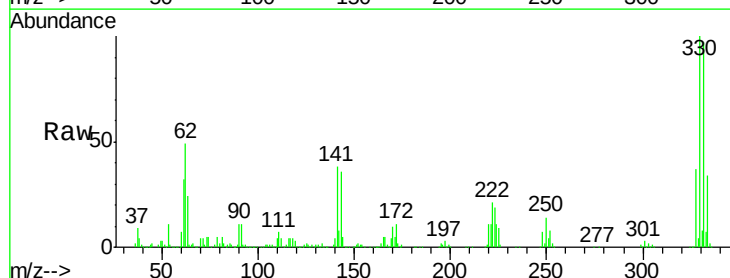
Tgt Ion:198 Resp: 1220

Ion Ratio Lower Upper

198 100

51 148.1 22.5 62.5#

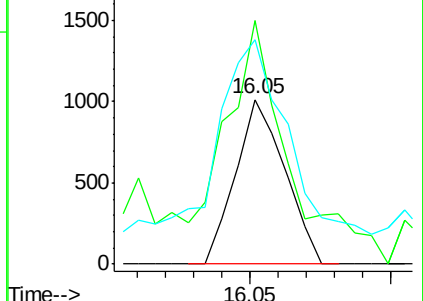
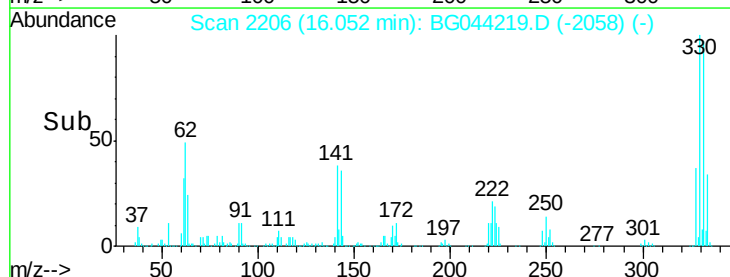
105 136.5 22.3 62.3#

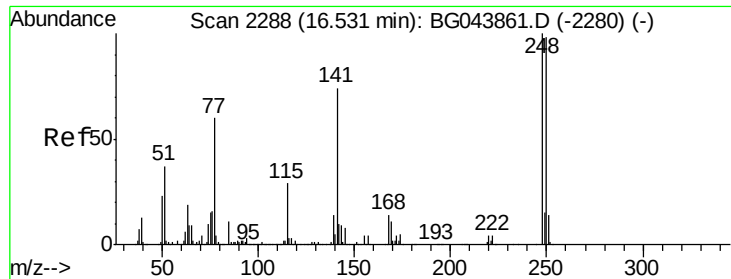


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

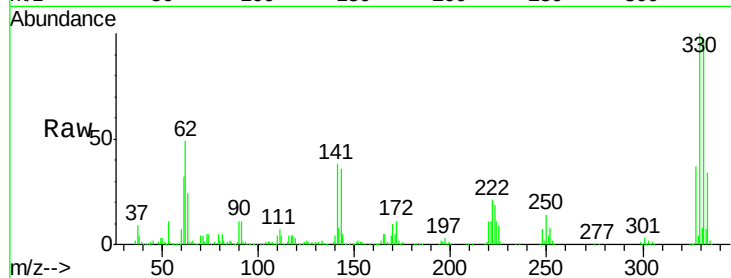




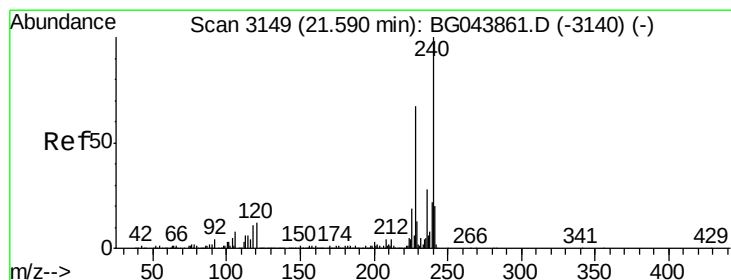
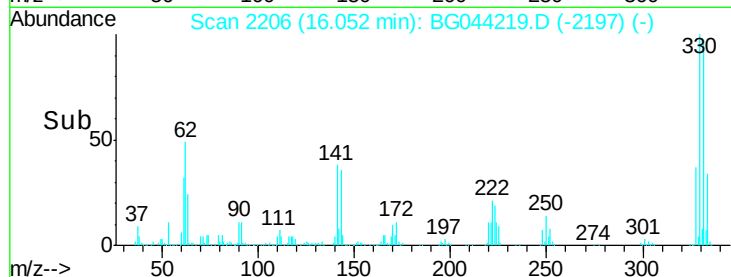
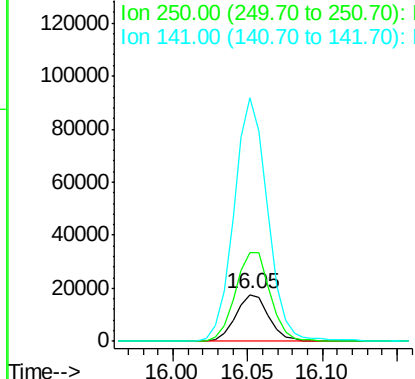
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.838 ng  
 RT: 16.05 min Scan# 2206  
 Delta R.T. -0.48 min  
 Lab File: BG044219.D  
 Acq: 27 Jan 2020 17:30

Instrument :  
 BNA\_G  
 ClientSampleId :  
 20200064-AMENDED-COMP-2

Tot Ion:248 Resp: 27427  
 Ion Ratio Lower Upper  
 248 100  
 250 189.4 78.2 117.2#  
 141 516.8 59.3 88.9#

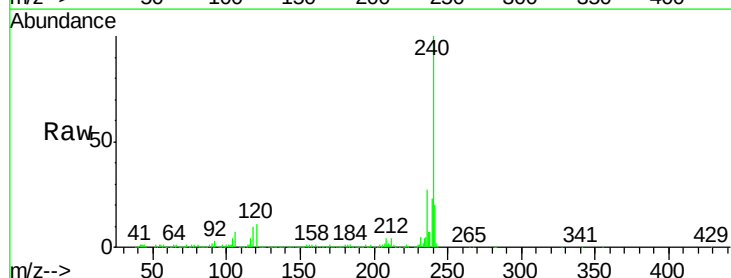


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

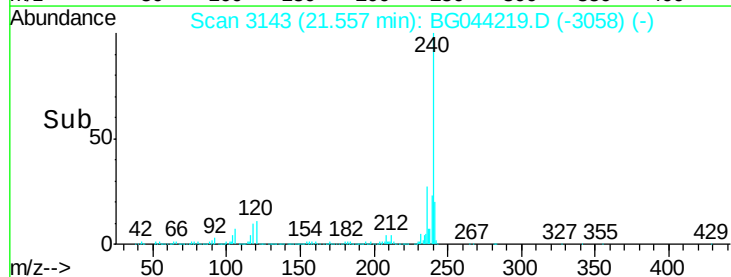
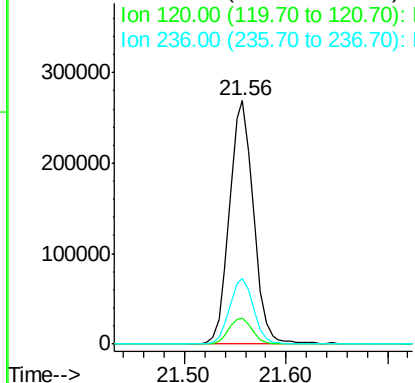


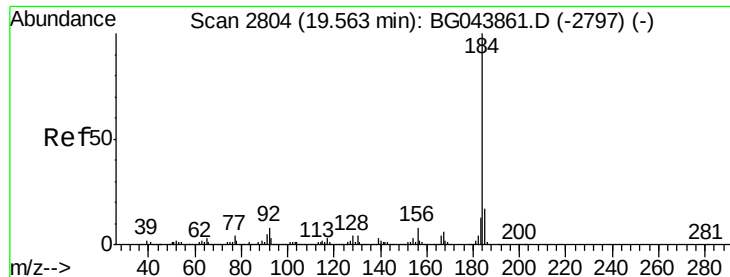
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.56 min Scan# 3143  
 Delta R.T. -0.03 min  
 Lab File: BG044219.D  
 Acq: 27 Jan 2020 17:30

Tgt Ion:240 Resp: 443713  
 Ion Ratio Lower Upper  
 240 100  
 120 10.8 9.6 14.4  
 236 27.1 22.2 33.2



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: 2.922 ng

RT: 19.92 min Scan# 2865

Delta R.T. 0.36 min

Lab File: BG044219.D

Acq: 27 Jan 2020 17:30

Instrument :

BNA\_G

ClientSampleId :

20200064-AMENDED-COMP-2

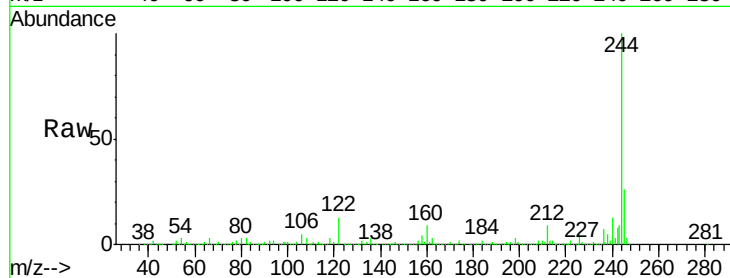
Tot Ion:184 Resp: 32594

Ion Ratio Lower Upper

184 100

185 16.1 13.4 20.0

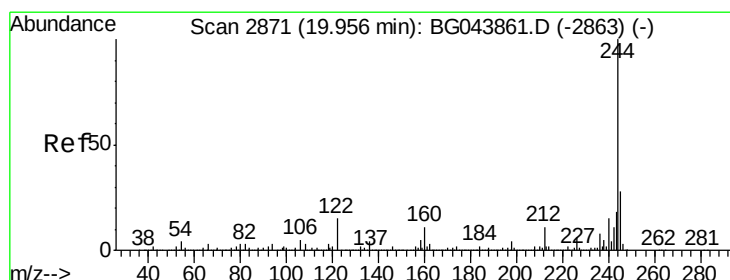
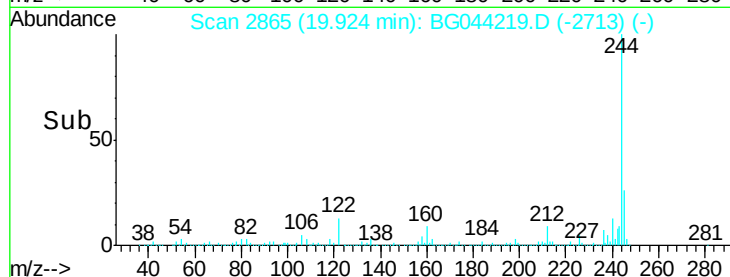
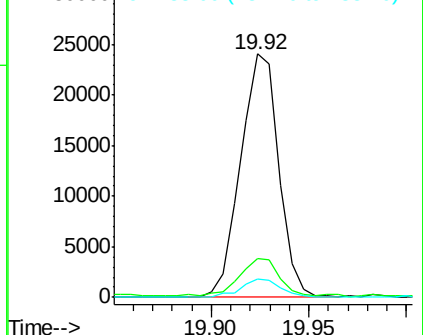
183 7.4 10.6 15.8#



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: 108.435 ng

RT: 19.92 min Scan# 2865

Delta R.T. -0.03 min

Lab File: BG044219.D

Acq: 27 Jan 2020 17:30

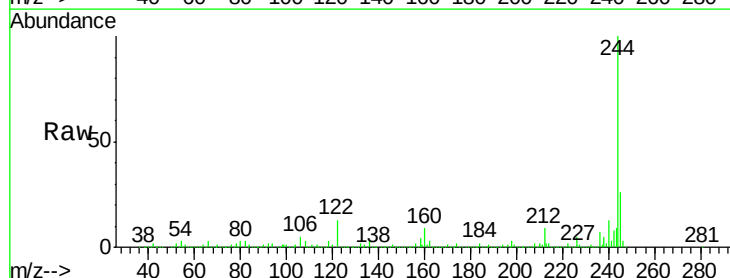
Tgt Ion:244 Resp: 1861836

Ion Ratio Lower Upper

244 100

212 9.4 8.6 13.0

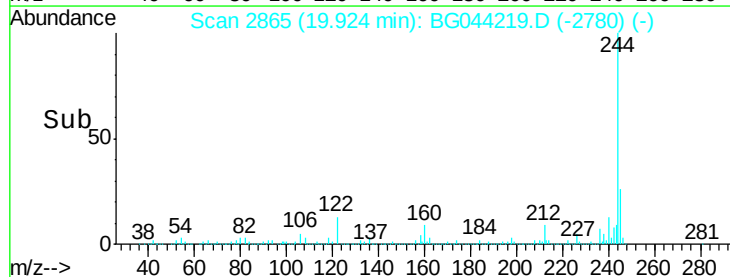
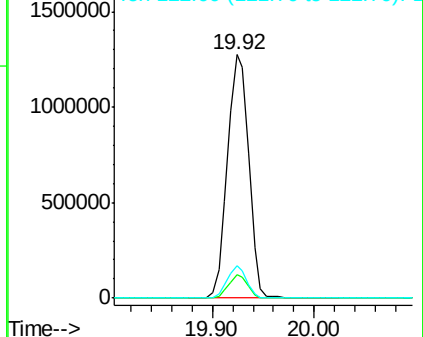
122 13.2 11.9 17.9

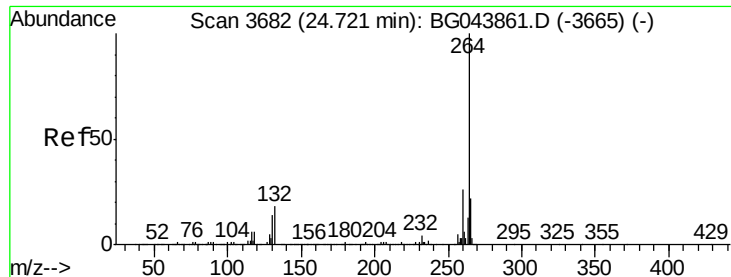


Abundance Ion 244.00 (243.70 to 244.70): E

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: 24.67 min Scan# 3672  
 Delta R.T. -0.06 min  
 Lab File: BG044219.D  
 Acq: 27 Jan 2020 17:30

Instrument :  
 BNA\_G  
 ClientSampleId :  
 20200064-AMENDED-COMP-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 20.4  | 30.6  |
| 265     | 21.9  | 17.4  | 26.2  |

