

Data File : BG043994.D  
Acq On : 9 Jan 2020 9:45  
Operator : JU  
Sample : L1048-03  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
FRONT-PIER-C

Quant Time: Jan 10 02:03:32 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

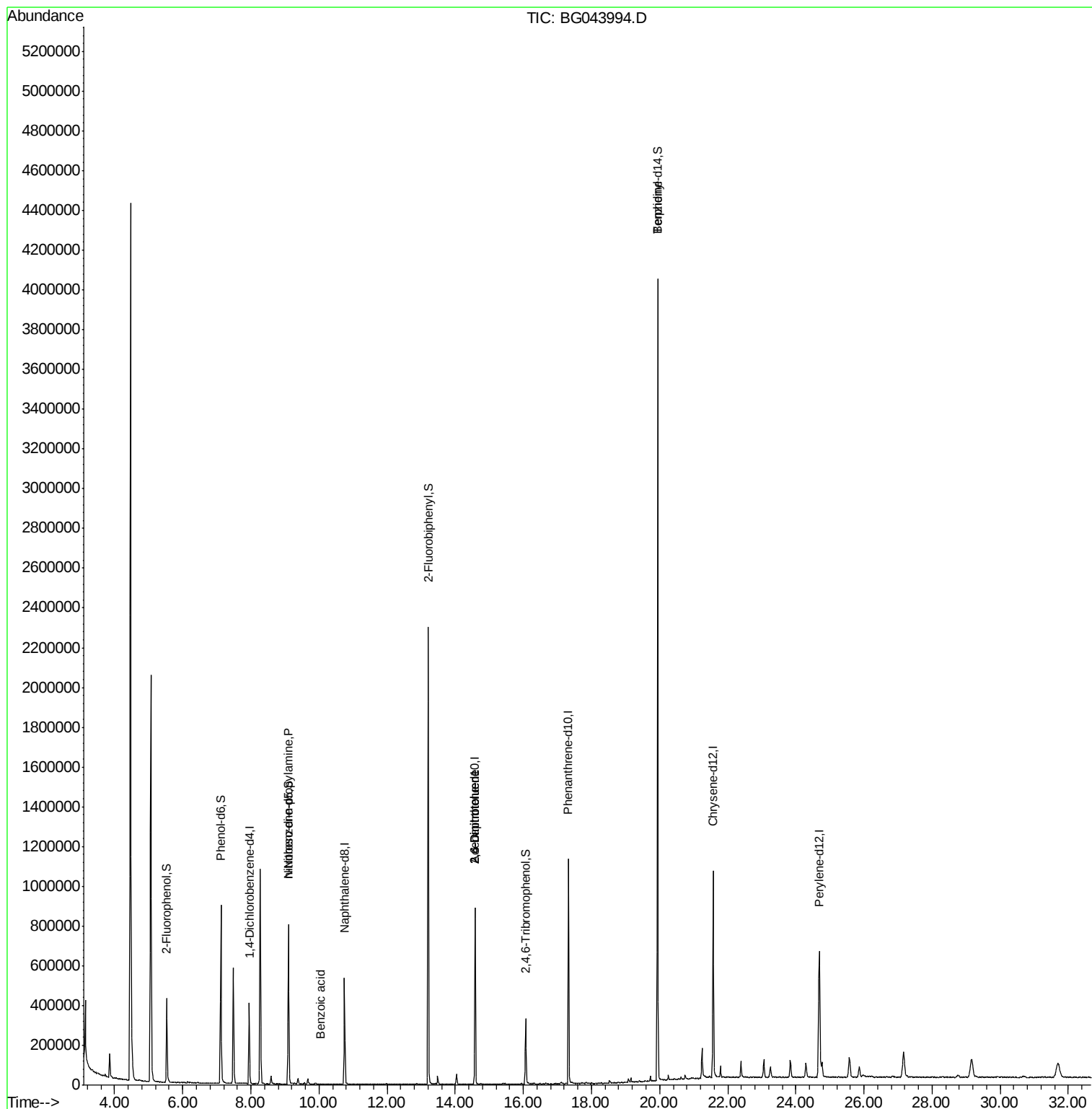
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.95  | 152  | 126195   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8             | 10.75 | 136  | 495846   | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10           | 14.58 | 164  | 315098   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10           | 17.32 | 188  | 706297   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12               | 21.57 | 240  | 603774   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12               | 24.69 | 264  | 666021   | 20.00 | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.53  | 112  | 225254   | 32.77 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.11  | 99   | 608780   | 63.37 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 9.10  | 82   | 523581   | 56.49 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 16.07 | 330  | 65806    | 19.96 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 13.21 | 172  | 1183969  | 68.08 | ng    | -0.02    |
| 79) Terphenyl-d14              | 19.94 | 244  | 1801458  | 68.00 | ng    | -0.02    |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.10  | 70   | 67523    | 9.438 | ng    | # 81     |
| 32) Benzoic acid               | 10.04 | 122  | 56       | 6.271 | ng    | # 1      |
| 51) 2,6-Dinitrotoluene         | 14.58 | 165  | 43566    | 8.615 | ng    | # 26     |
| 57) 2,4-Dinitrotoluene         | 14.58 | 165  | 43566    | 6.331 | ng    | # 27     |
| 77) Benzidine                  | 19.94 | 184  | 32058    | 2.112 | ng    | # 93     |

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

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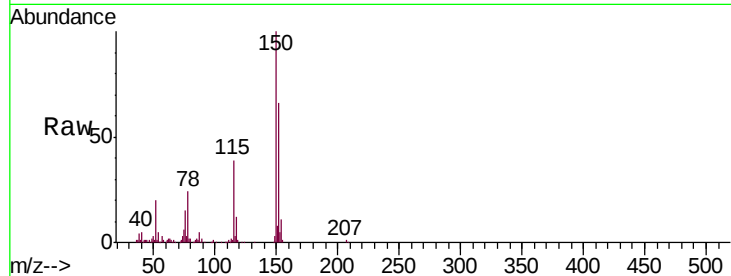


#1

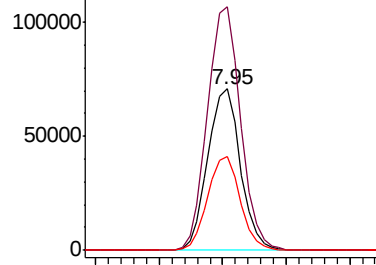
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.95 min Scan# 828  
Delta R.T. -0.01 min  
Lab File: BG043994.D  
Acq: 9 Jan 2020 9:45

Instrument :  
BNA\_G  
ClientSampleId :  
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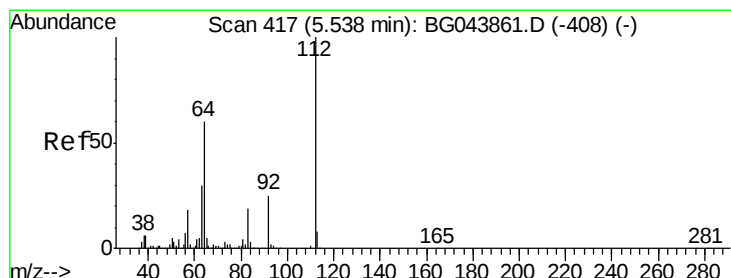
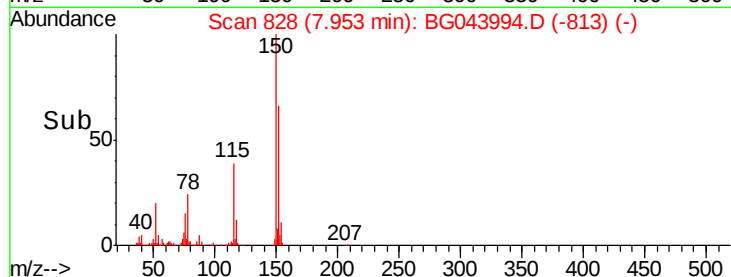
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 150.9 | 127.0 | 190.4 |
| 115     | 58.1  | 47.8  | 71.8  |



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



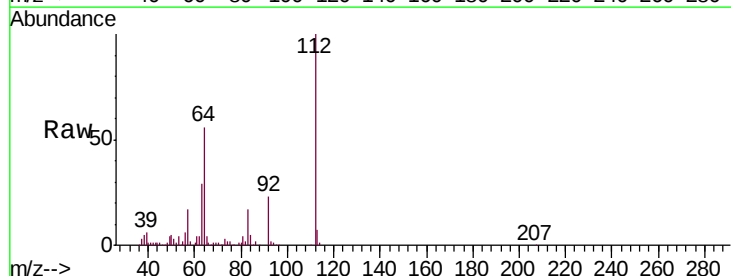
Time--> 7.85 7.90 7.95 8.00 8.05



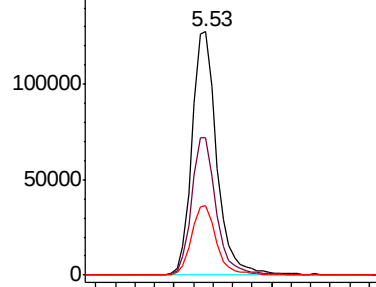
#5

2-Fluorophenol  
Concen: 32.774 ng  
RT: 5.53 min Scan# 416  
Delta R.T. -0.01 min  
Lab File: BG043994.D  
Acq: 9 Jan 2020 9:45

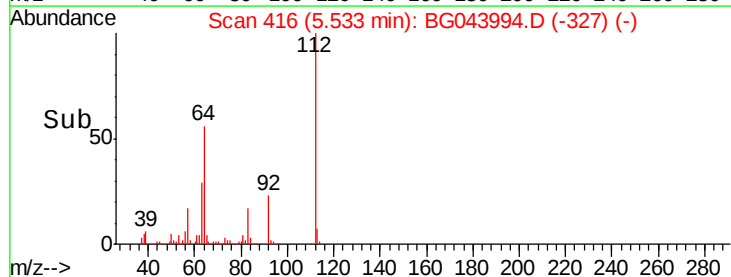
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.3  | 47.8  | 71.6  |
| 63      | 28.8  | 24.3  | 36.5  |

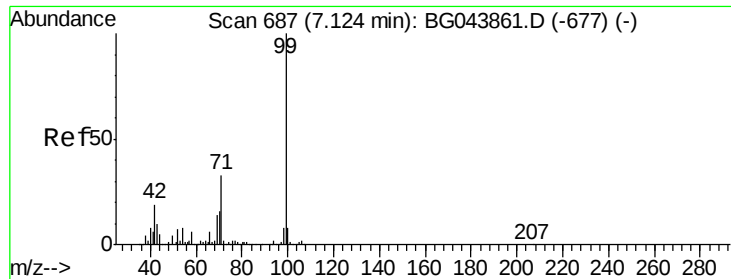


Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG0  
Ion 63.00 (62.70 to 63.70): BG0



Time--> 5.50 5.53 5.56





#7

Phenol-d6

Concen: 63.368 ng

RT: 7.11 min Scan# 685

Delta R.T. -0.01 min

Lab File: BG043994.D

Acq: 9 Jan 2020 9:45

Instrument :

BNA\_G

ClientSampleId :

FRONT-PIER-C

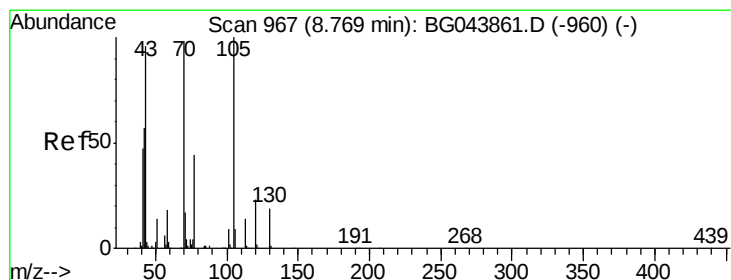
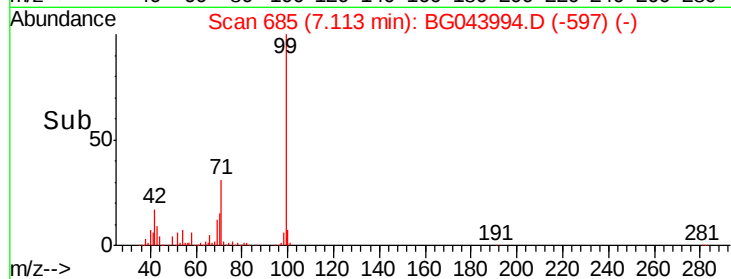
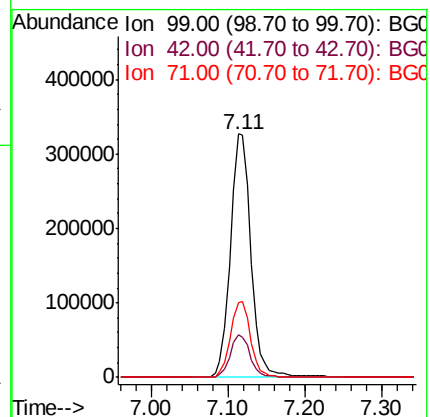
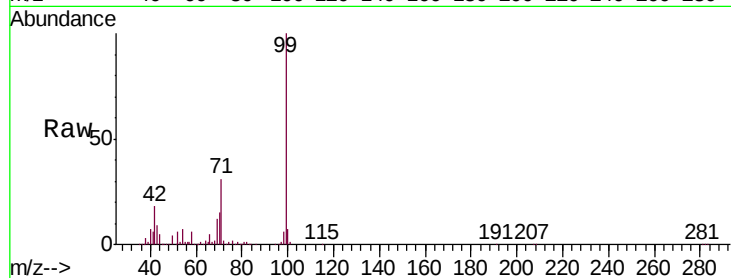
Tgt Ion: 99 Resp: 608780

Ion Ratio Lower Upper

99 100

42 17.5 14.9 22.3

71 30.9 26.4 39.6



#19

n-Nitroso-di-n-propylamine

Concen: 9.438 ng

RT: 9.10 min Scan# 1024

Delta R.T. 0.34 min

Lab File: BG043994.D

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Tgt Ion: 70 Resp: 67523

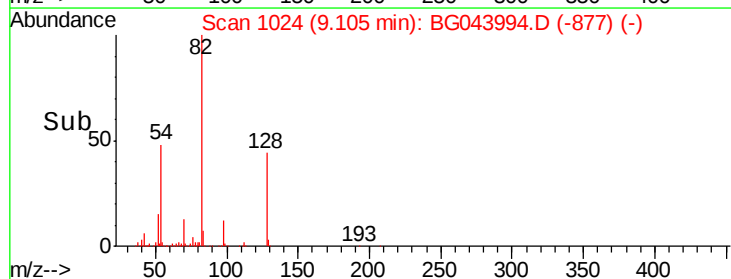
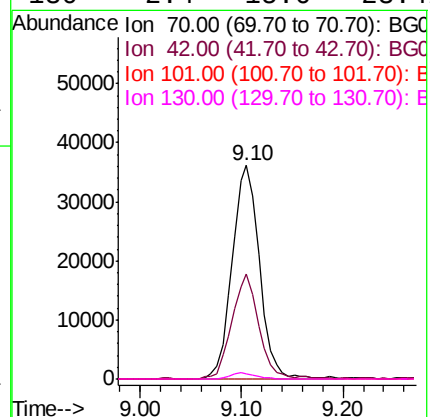
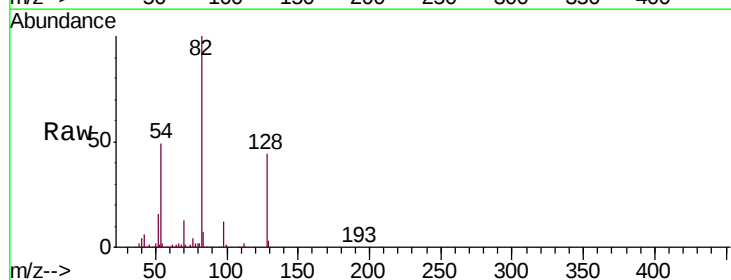
Ion Ratio Lower Upper

70 100

42 49.3 47.0 70.4

101 0.0 7.2 10.8#

130 2.4 15.6 23.4#

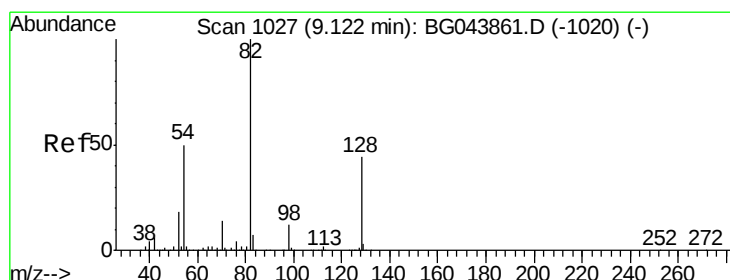
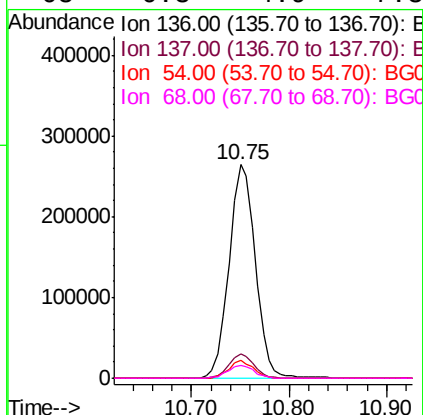
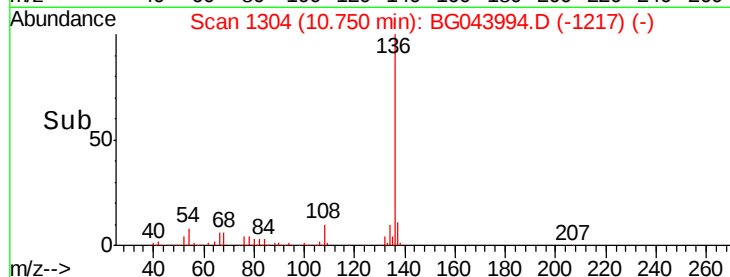
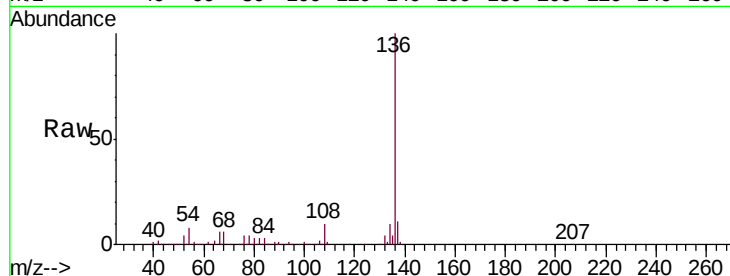




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.75 min Scan# 1304  
Delta R.T. -0.02 min  
Lab File: BG043994.D  
Acq: 9 Jan 2020 9:45

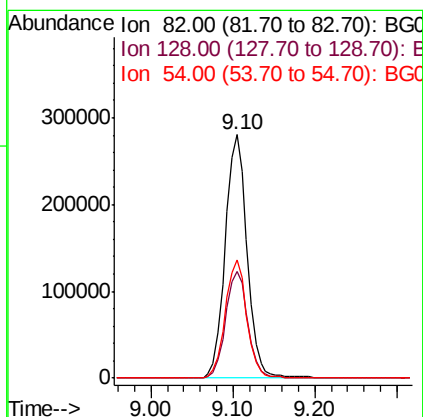
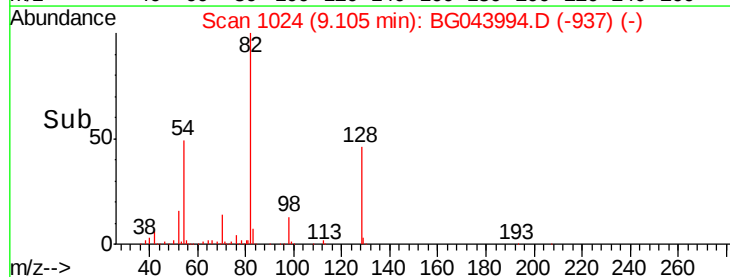
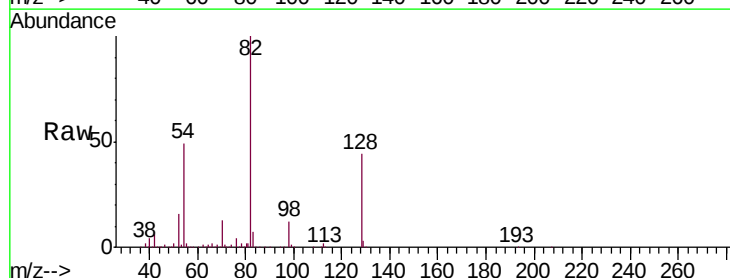
Instrument :  
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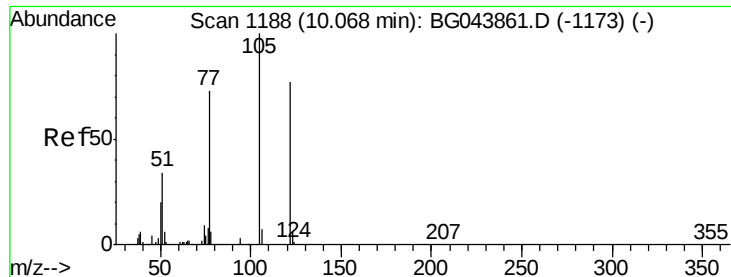
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 495846 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 8.8   | 13.2   |
| 54       | 8.1   | 7.0   | 10.4   |
| 68       | 6.3   | 4.9   | 7.3    |



#23  
Nitrobenzene-d5  
Concen: 56.488 ng  
RT: 9.10 min Scan# 1024  
Delta R.T. -0.02 min  
Lab File: BG043994.D  
Acq: 9 Jan 2020 9:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 523581 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.7  | 35.1  | 52.7   |
| 54       | 48.5  | 40.1  | 60.1   |

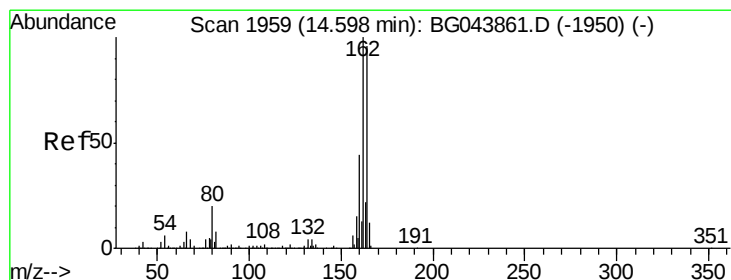
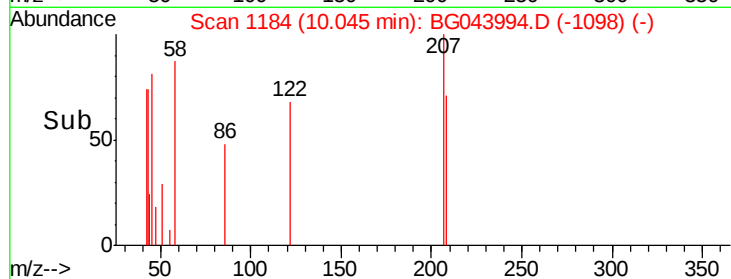
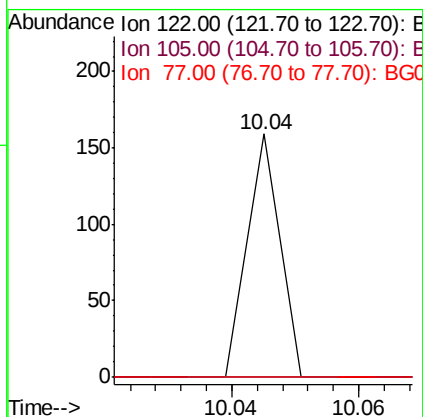
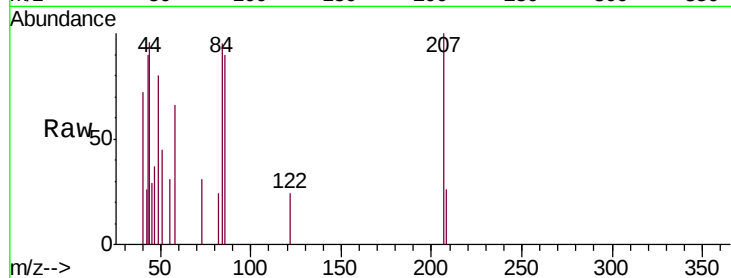




#32  
Benzoic acid  
Concen: 6.271 ng  
RT: 10.04 min Scan# 1184  
Delta R.T. -0.02 min  
Lab File: BG043994.D  
Acq: 9 Jan 2020 9:45

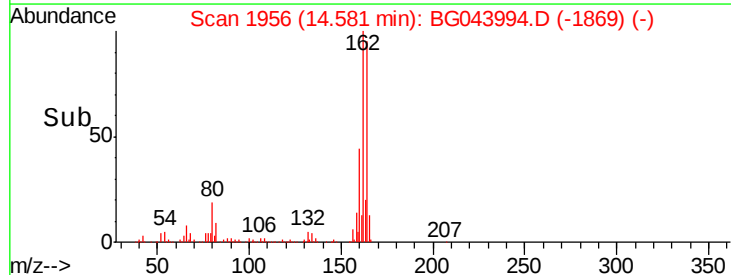
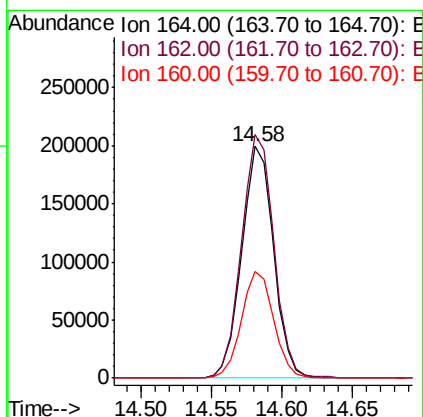
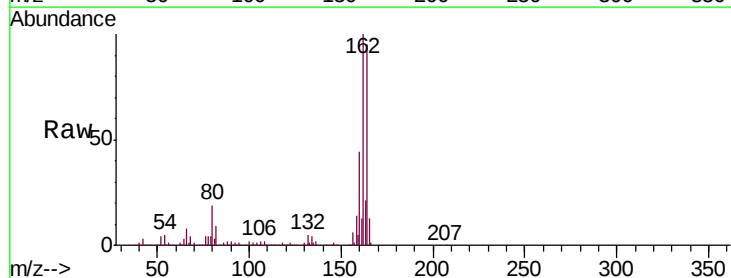
Instrument :  
BNA\_G  
ClientSampleId :  
FRONT-PIER-C

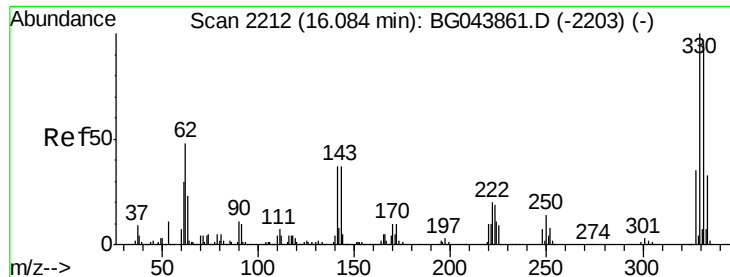
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 0.0   | 106.4 | 146.4# |
| 77      | 0.0   | 74.6  | 114.6# |



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.58 min Scan# 1956  
Delta R.T. -0.02 min  
Lab File: BG043994.D  
Acq: 9 Jan 2020 9:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.1 | 83.0  | 124.4 |
| 160     | 46.2  | 36.1  | 54.1  |

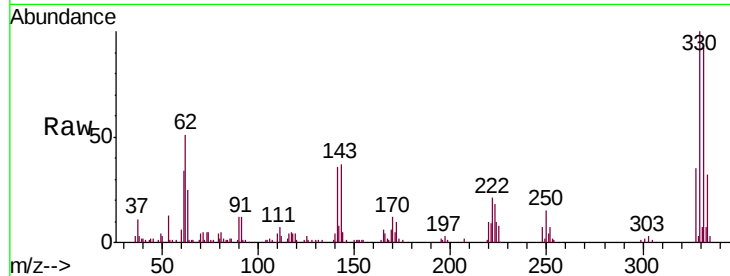




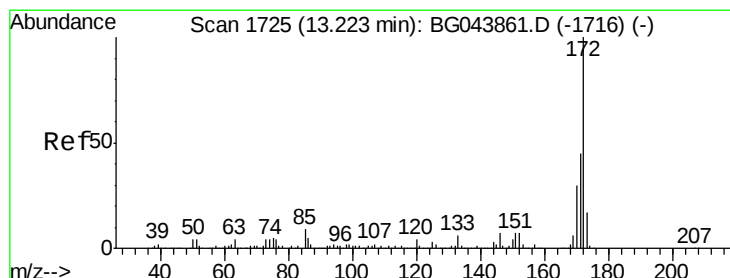
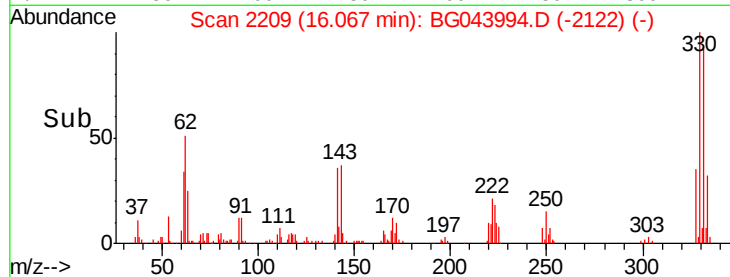
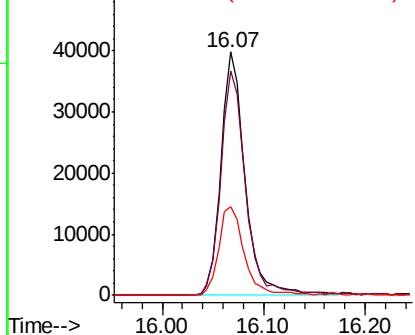
#42  
 2,4,6-Tribromophenol  
 Concen: 19.957 ng  
 RT: 16.07 min Scan# 2209  
 Delta R.T. -0.02 min  
 Lab File: BG043994.D  
 Acq: 9 Jan 2020 9:45

Instrument :  
 BNA\_G  
 ClientSampleID :  
 FRONT-PIER-C

Tgt Ion:330 Resp: 65806  
 Ion Ratio Lower Upper  
 330 100  
 332 95.0 77.2 115.8  
 141 38.5 33.1 49.7

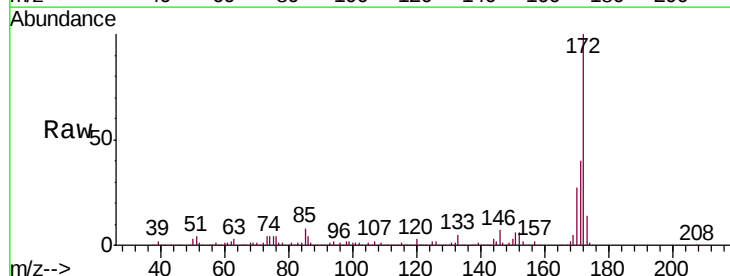


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

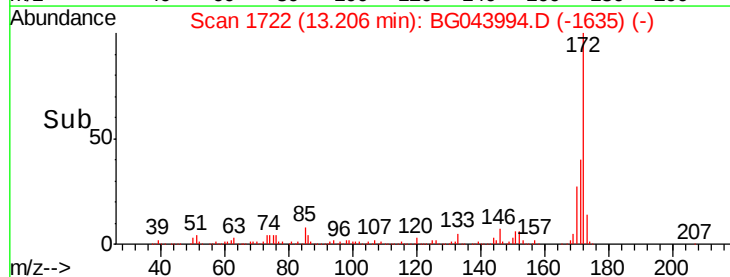
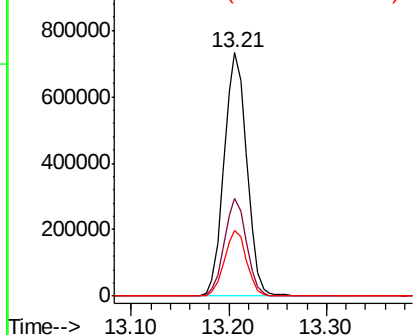


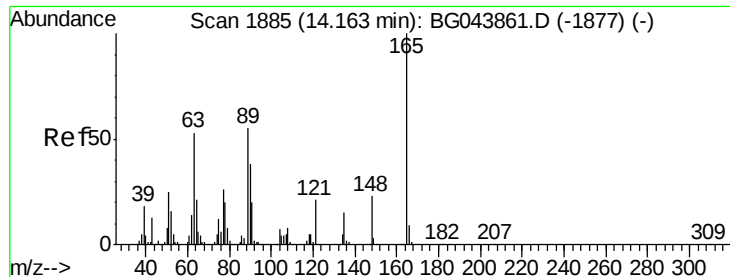
#45  
 2-Fluorobiphenyl  
 Concen: 68.077 ng  
 RT: 13.21 min Scan# 1722  
 Delta R.T. -0.02 min  
 Lab File: BG043994.D  
 Acq: 9 Jan 2020 9:45

Tgt Ion:172 Resp: 1183969  
 Ion Ratio Lower Upper  
 172 100  
 171 40.2 35.8 53.8  
 170 27.2 24.2 36.4



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





#51

2,6-Dinitrotoluene

Concen: 8.615 ng

RT: 14.58 min Scan# 1956

Delta R.T. 0.42 min

Lab File: BG043994.D

Acq: 9 Jan 2020 9:45

Instrument :

BNA\_G

ClientSampleId :

FRONT-PIER-C

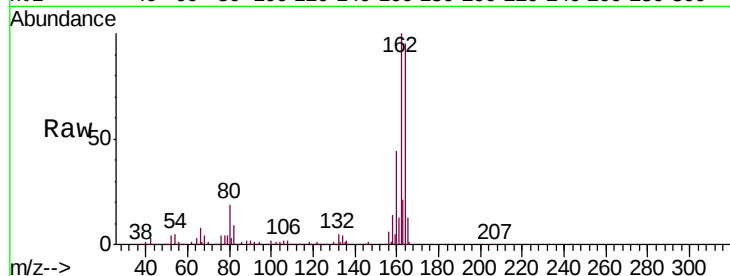
Tgt Ion:165 Resp: 43566

Ion Ratio Lower Upper

165 100

63 1.3 43.1 64.7#

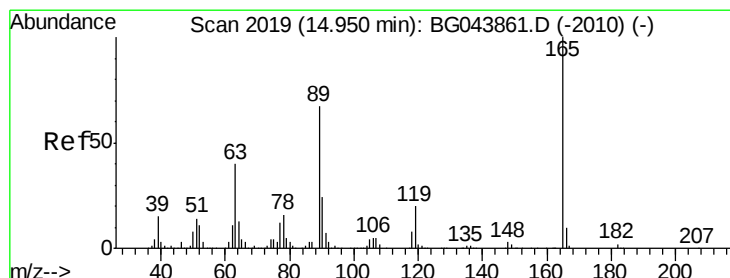
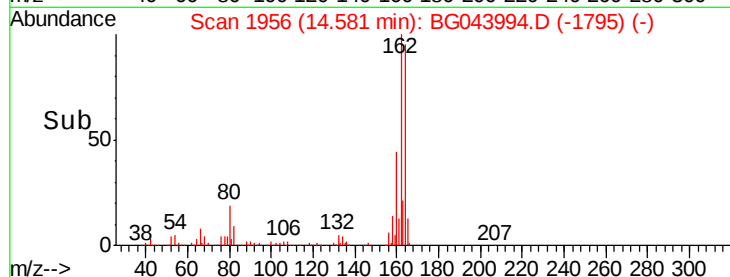
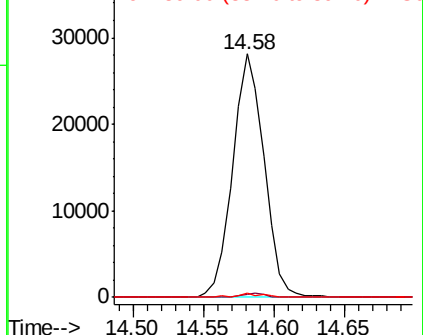
89 1.6 43.8 65.6#



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: 6.331 ng

RT: 14.58 min Scan# 1956

Delta R.T. -0.37 min

Lab File: BG043994.D

Acq: 9 Jan 2020 9:45

Tgt Ion:165 Resp: 43566

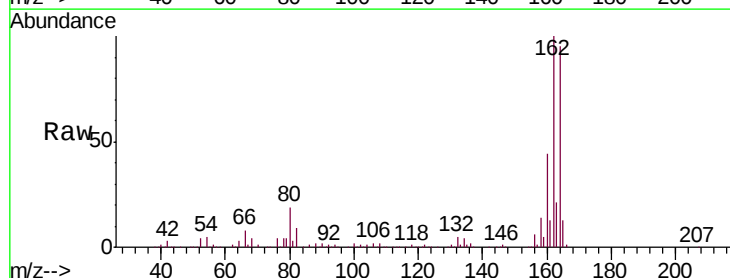
Ion Ratio Lower Upper

165 100

63 1.3 31.9 47.9#

89 1.6 53.8 80.6#

182 0.0 2.0 3.0#

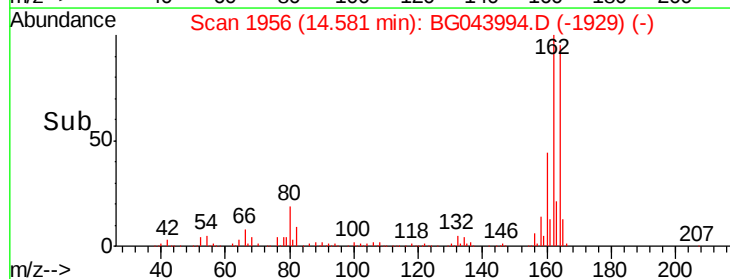
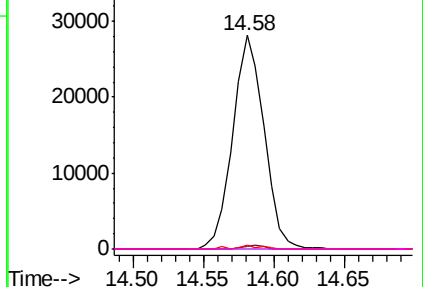


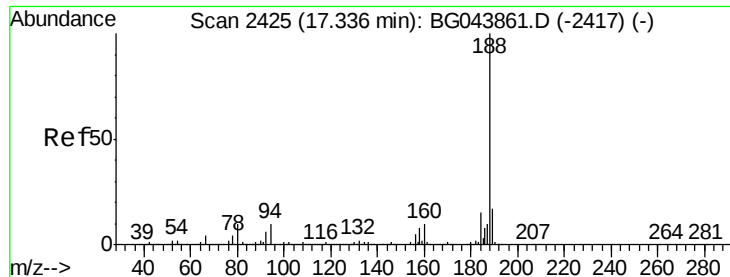
Abundance Ion 165.00 (164.70 to 165.70): E

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

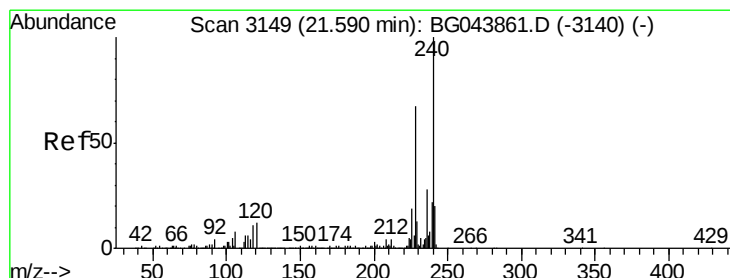
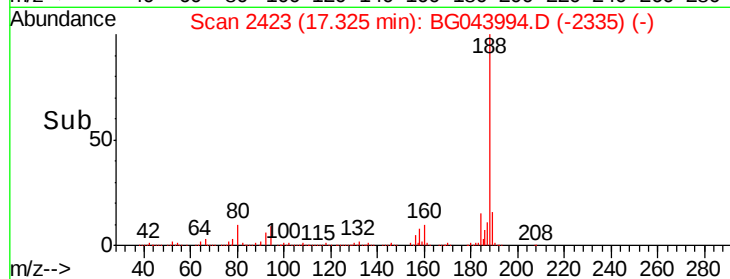
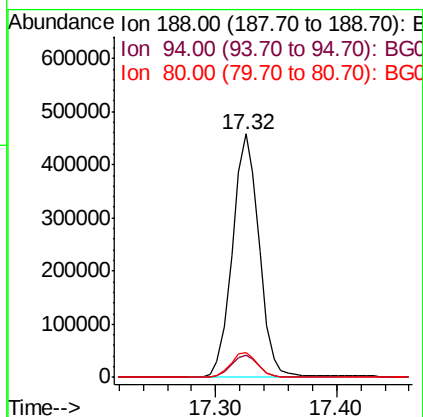
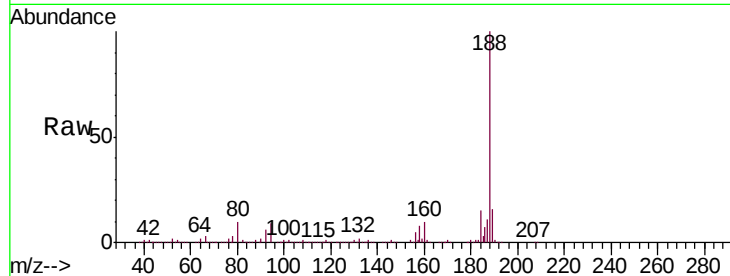




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.32 min Scan# 2423  
Delta R.T. -0.01 min  
Lab File: BG043994.D  
Acq: 9 Jan 2020 9:45

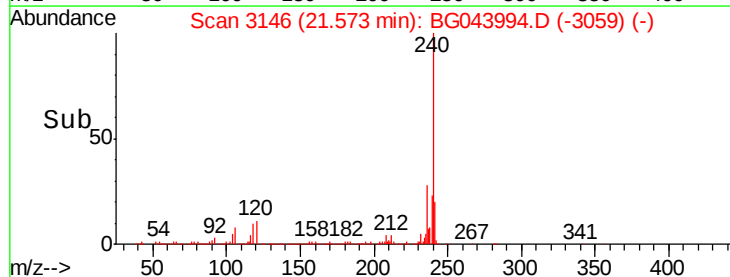
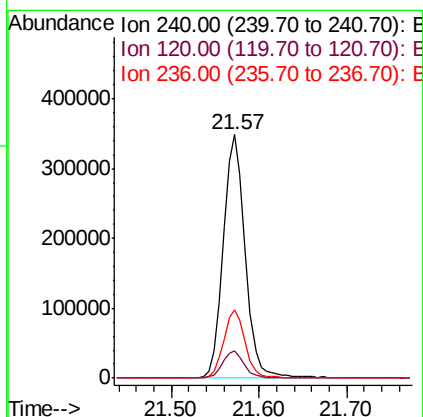
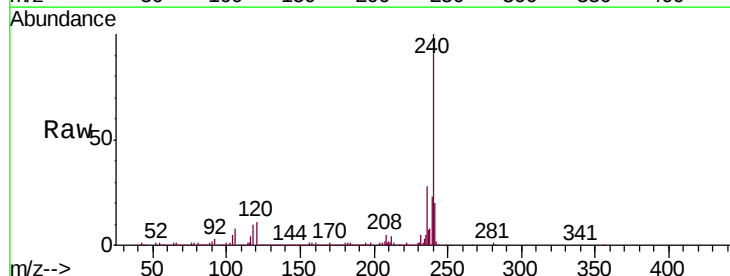
Instrument :  
BNA\_G  
ClientSampleId :  
FRONT-PIER-C

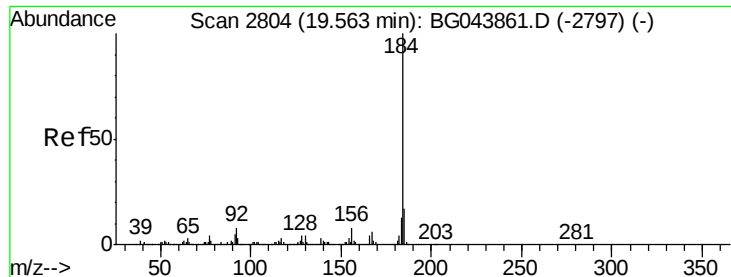
Tgt Ion:188 Resp: 706297  
Ion Ratio Lower Upper  
188 100  
94 9.1 7.9 11.9  
80 10.4 8.2 12.4



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.57 min Scan# 3146  
Delta R.T. -0.02 min  
Lab File: BG043994.D  
Acq: 9 Jan 2020 9:45

Tgt Ion:240 Resp: 603774  
Ion Ratio Lower Upper  
240 100  
120 11.1 9.6 14.4  
236 28.0 22.2 33.2





#77

Benzidine

Concen: 2.112 ng

RT: 19.94 min Scan# 2868

Delta R.T. 0.38 min

Lab File: BG043994.D

Acq: 9 Jan 2020 9:45

Instrument :

BNA\_G

ClientSampleId :

FRONT-PIER-C

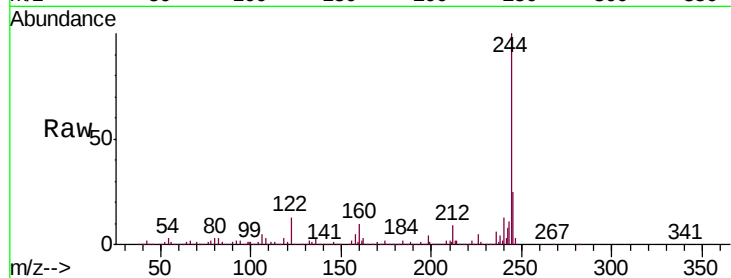
Tgt Ion:184 Resp: 32058

Ion Ratio Lower Upper

184 100

185 17.1 13.4 20.0

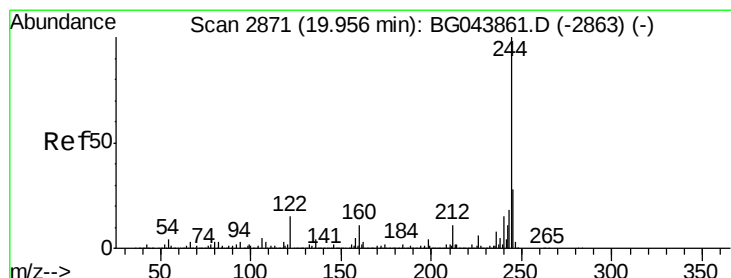
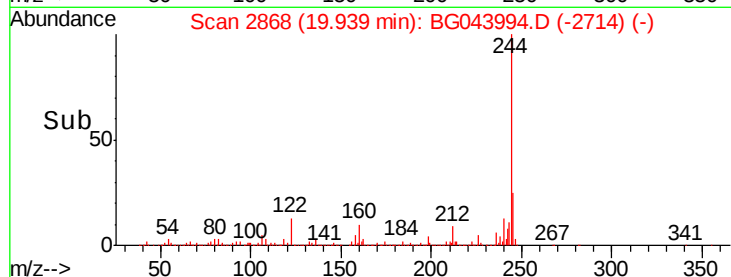
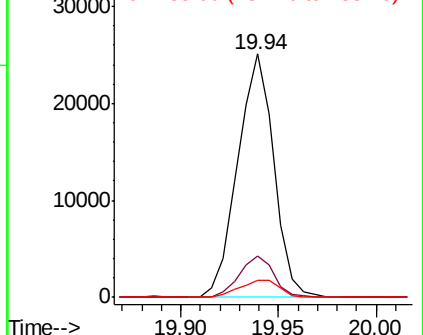
183 7.1 10.6 15.8#



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: 68.002 ng

RT: 19.94 min Scan# 2868

Delta R.T. -0.02 min

Lab File: BG043994.D

Acq: 9 Jan 2020 9:45

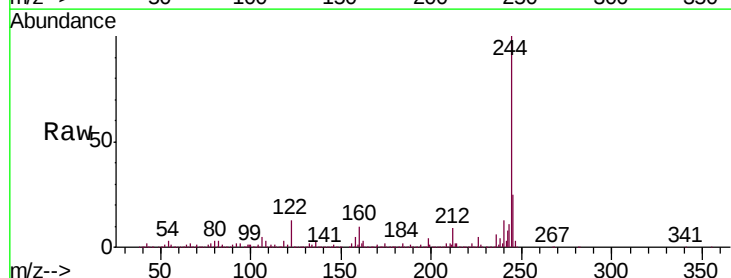
Tgt Ion:244 Resp: 1801458

Ion Ratio Lower Upper

244 100

212 9.5 8.6 13.0

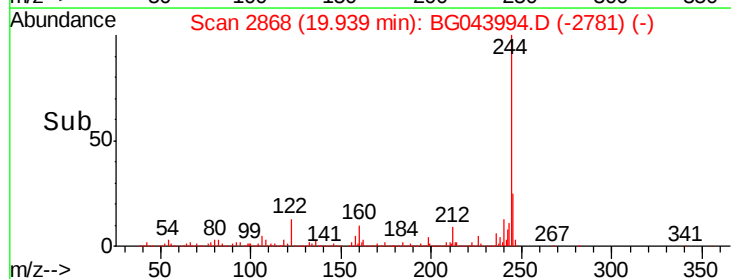
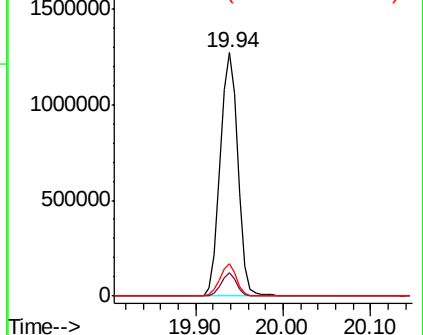
122 13.3 11.9 17.9

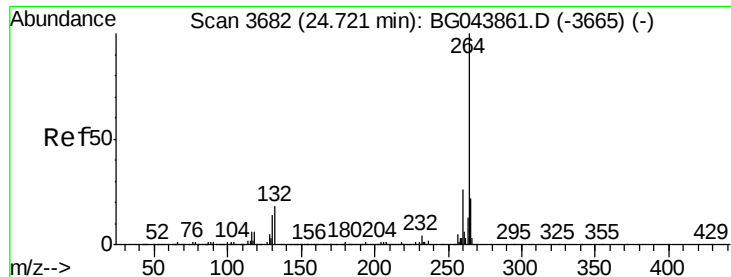


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.69 min Scan# 3676  
Delta R.T. -0.03 min  
Lab File: BG043994.D  
Acq: 9 Jan 2020 9:45

Instrument :  
BNA\_G  
ClientSampleId :  
FRONT-PIER-C

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.0  | 20.4  | 30.6  |
| 265     | 21.7  | 17.4  | 26.2  |

