

Data File : BG044199.D  
Acq On : 25 Jan 2020 3:08  
Operator : CG/JU  
Sample : L1007-10  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JC-03-012320-A

Quant Time: Jan 27 00:49:30 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  | 84767    | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8        | 10.73 | 136  | 369583   | 20.00 | ng    | -0.04    |
| 39) Acenaphthene-d10      | 14.57 | 164  | 255025   | 20.00 | ng    | -0.03    |
| 64) Phenanthrene-d10      | 17.31 | 188  | 502120   | 20.00 | ng    | -0.03    |
| 76) Chrysene-d12          | 21.55 | 240  | 435856   | 20.00 | ng    | -0.04    |
| 87) Perylene-d12          | 24.66 | 264  | 478845   | 20.00 | ng    | -0.06    |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.51  | 112 | 649008  | 140.58 | ng | -0.03 |
| 7) Phenol-d6                | 7.10  | 99  | 799898  | 123.95 | ng | -0.03 |
| 23) Nitrobenzene-d5         | 9.08  | 82  | 609312  | 88.20  | ng | -0.04 |
| 42) 2,4,6-Tribromophenol    | 16.05 | 330 | 373615  | 139.99 | ng | -0.03 |
| 45) 2-Fluorobiphenyl        | 13.19 | 172 | 1410515 | 100.21 | ng | -0.03 |
| 79) Terphenyl-d14           | 19.92 | 244 | 1945615 | 118.78 | ng | -0.03 |

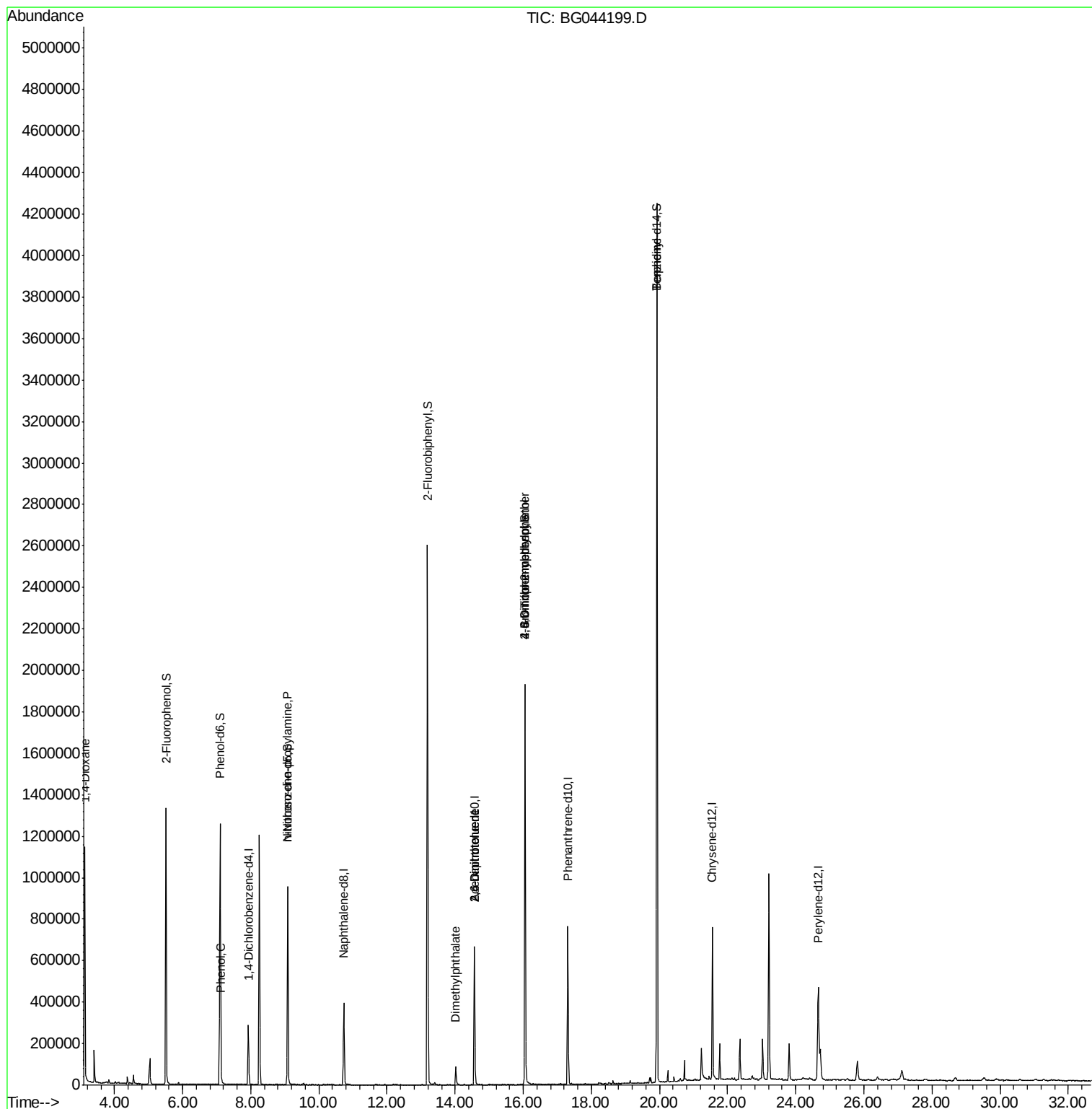
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.13  | 88  | 9240  | 4.590  | ng | # 1  |
| 10) Phenol                     | 7.13  | 94  | 15411 | 2.318  | ng | # 93 |
| 19) n-Nitroso-di-n-propylamine | 9.08  | 70  | 80966 | 16.848 | ng | # 80 |
| 50) Dimethylphthalate          | 14.02 | 163 | 72721 | 4.016  | ng | # 97 |
| 51) 2,6-Dinitrotoluene         | 14.57 | 165 | 33273 | 8.130  | ng | # 26 |
| 57) 2,4-Dinitrotoluene         | 14.57 | 165 | 33270 | 5.974  | ng | # 27 |
| 65) 4,6-Dinitro-2-methylphenol | 16.05 | 198 | 1182  | 4.805  | ng | # 1  |
| 67) 4-Bromophenyl-phenylether  | 16.05 | 248 | 26734 | 4.734  | ng | # 1  |
| 77) Benzidine                  | 19.92 | 184 | 35840 | 3.271  | ng | # 93 |

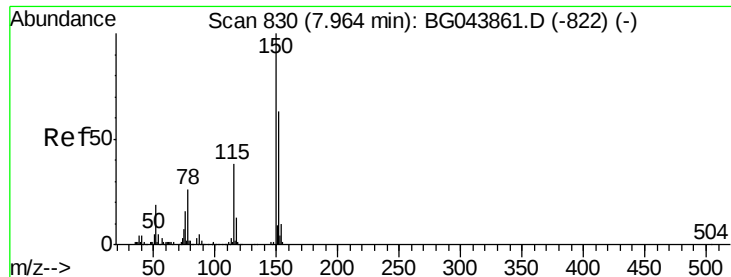
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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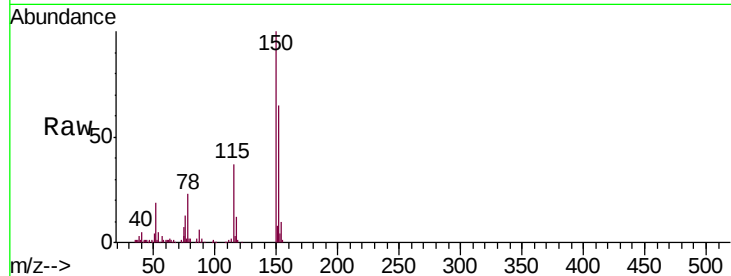


#1

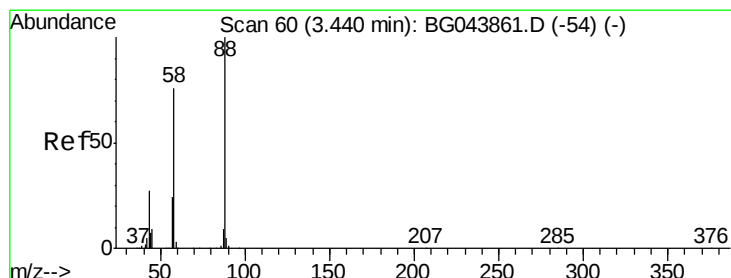
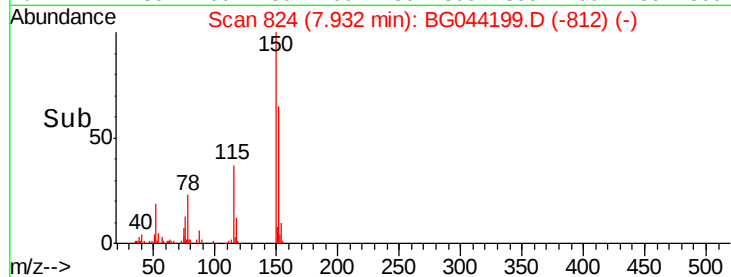
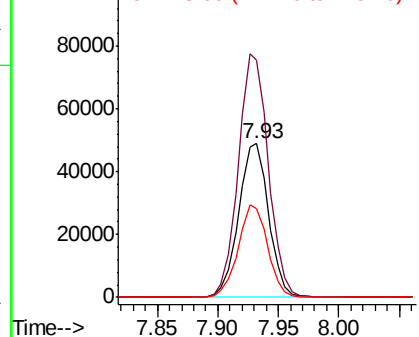
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.93 min Scan# 824  
Delta R.T. -0.03 min  
Lab File: BG044199.D  
Acq: 25 Jan 2020 3:08

Instrument :  
BNA\_G  
ClientSampleId :  
JC-03-012320-A

Tgt Ion:152 Resp: 84767  
Ion Ratio Lower Upper  
152 100  
150 154.3 127.0 190.4  
115 57.8 47.8 71.8



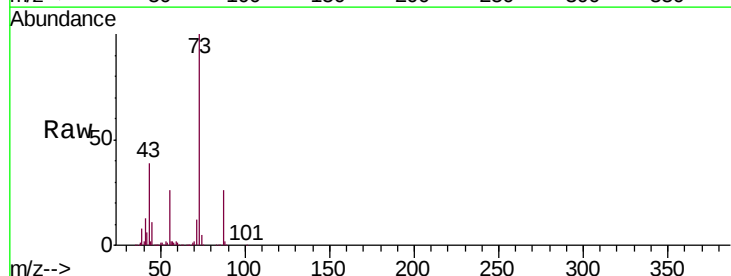
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



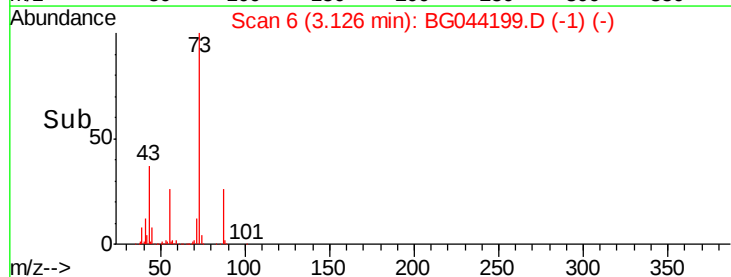
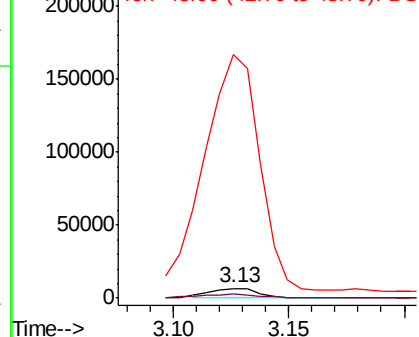
#2

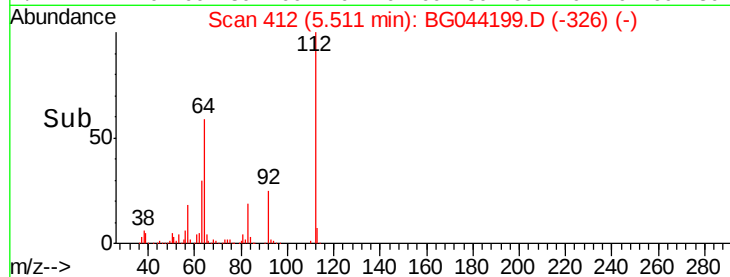
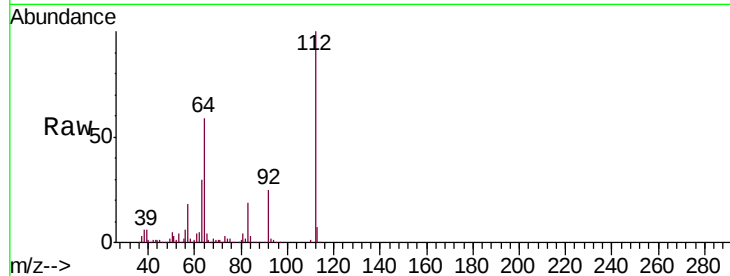
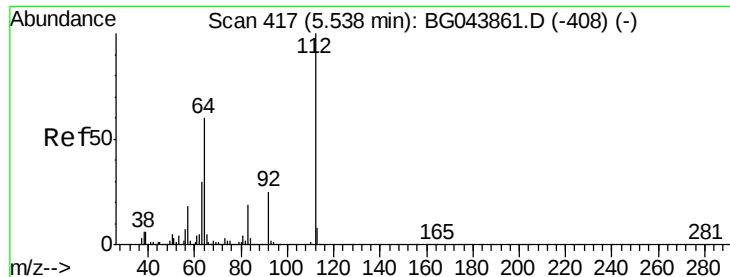
1,4-Dioxane  
Concen: 4.590 ng  
RT: 3.13 min Scan# 6  
Delta R.T. -0.31 min  
Lab File: BG044199.D  
Acq: 25 Jan 2020 3:08

Tgt Ion: 88 Resp: 9240  
Ion Ratio Lower Upper  
88 100  
58 32.6 59.8 89.8#  
43 2567.5 22.9 34.3#



Abundance Ion 88.00 (87.70 to 88.70): BGC  
Ion 58.00 (57.70 to 58.70): BGC  
Ion 43.00 (42.70 to 43.70): BGC





#5

2-Fluorophenol

Concen: 140.580 ng

RT: 5.51 min Scan# 412

Delta R.T. -0.03 min

Lab File: BG044199.D

Acq: 25 Jan 2020 3:08

Instrument :

BNA\_G

ClientSampleId :

JC-03-012320-A

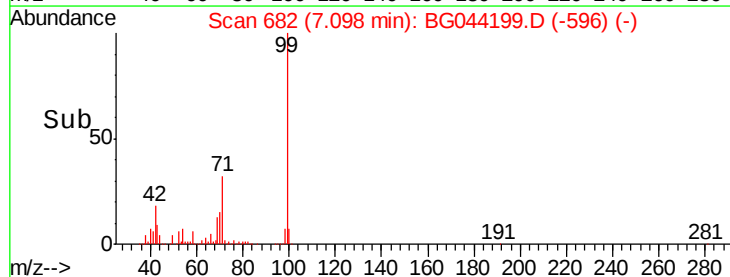
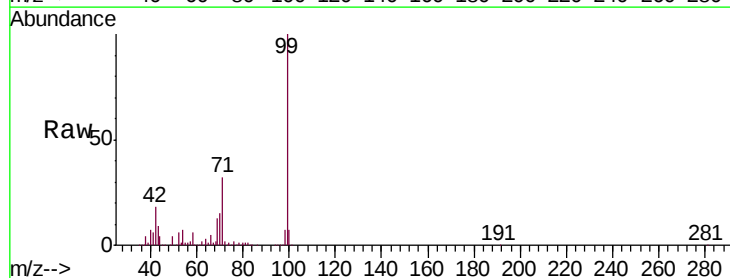
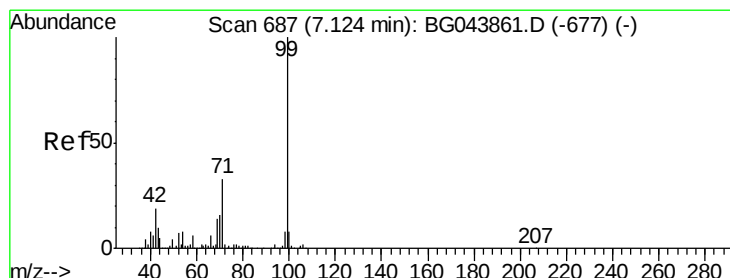
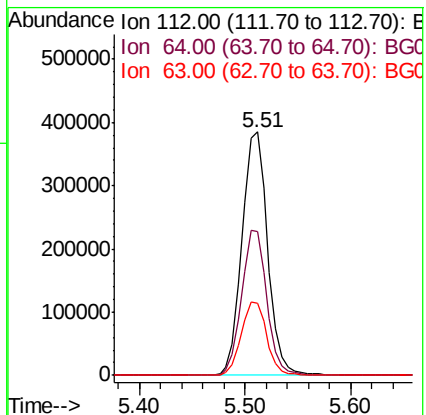
Tgt Ion: 112 Resp: 649008

Ion Ratio Lower Upper

112 100

64 59.3 47.8 71.6

63 29.9 24.3 36.5



#7

Phenol-d6

Concen: 123.953 ng

RT: 7.10 min Scan# 682

Delta R.T. -0.03 min

Lab File: BG044199.D

Acq: 25 Jan 2020 3:08

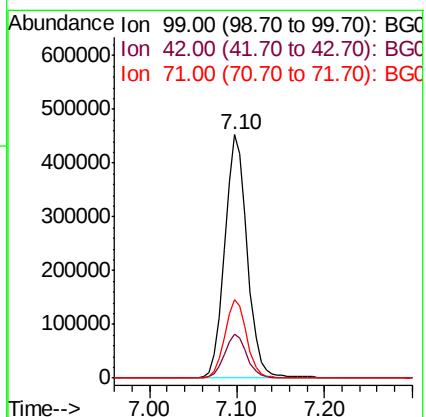
Tgt Ion: 99 Resp: 799898

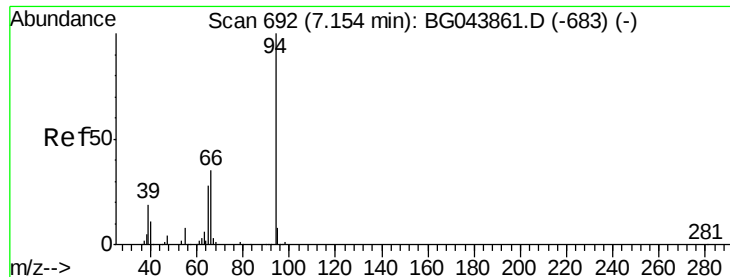
Ion Ratio Lower Upper

99 100

42 18.0 14.9 22.3

71 32.3 26.4 39.6





#10

Phenol

Concen: 2.318 ng

RT: 7.13 min Scan# 687

Delta R.T. -0.03 min

Lab File: BG044199.D

Acq: 25 Jan 2020 3:08

Instrument :

BNA\_G

ClientSampleId :

JC-03-012320-A

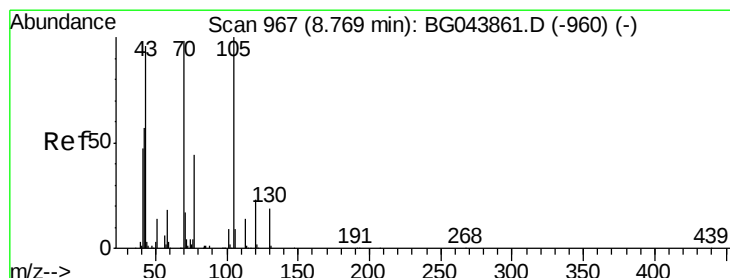
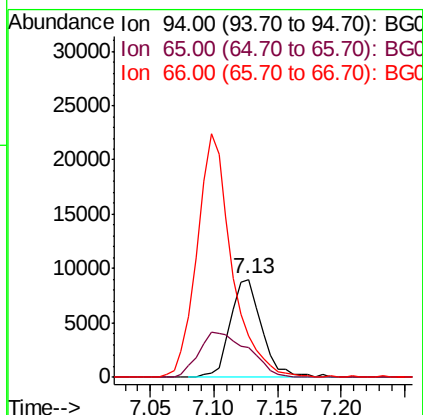
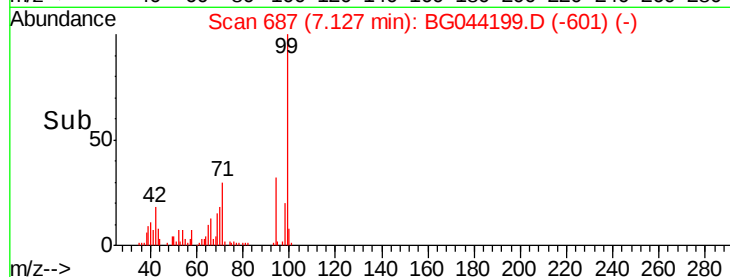
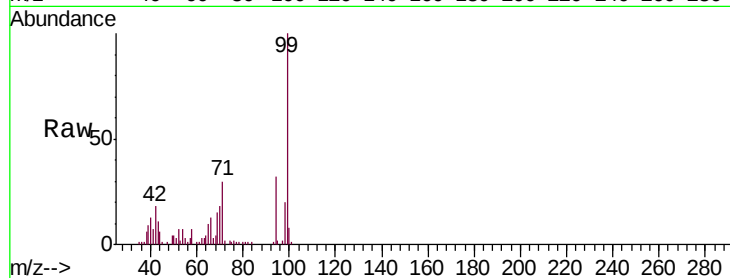
Tgt Ion: 94 Resp: 15411

Ion Ratio Lower Upper

94 100

65 30.1 8.1 48.1

66 41.6 15.6 55.6



#19

n-Nitroso-di-n-propylamine

Concen: 16.848 ng

RT: 9.08 min Scan# 1020

Delta R.T. 0.31 min

Lab File: BG044199.D

Acq: 25 Jan 2020 3:08

Tgt Ion: 70 Resp: 80966

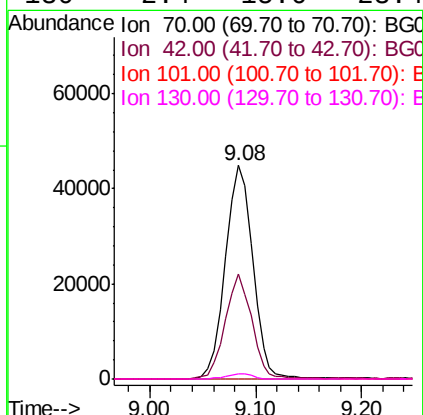
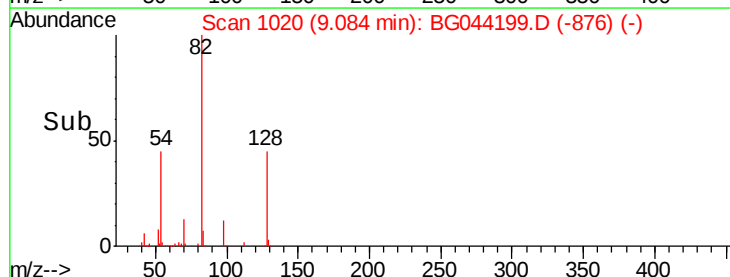
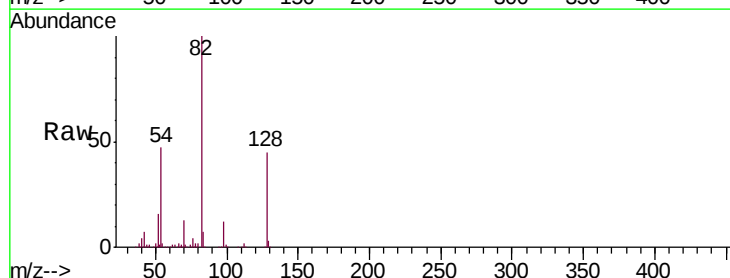
Ion Ratio Lower Upper

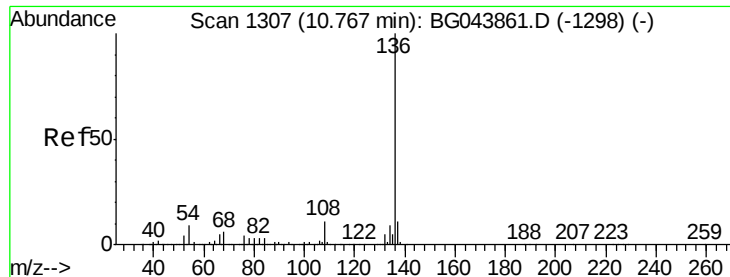
70 100

42 49.1 47.0 70.4

101 0.0 7.2 10.8#

130 2.4 15.6 23.4#

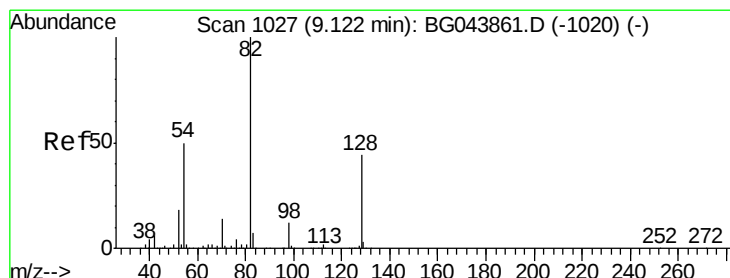
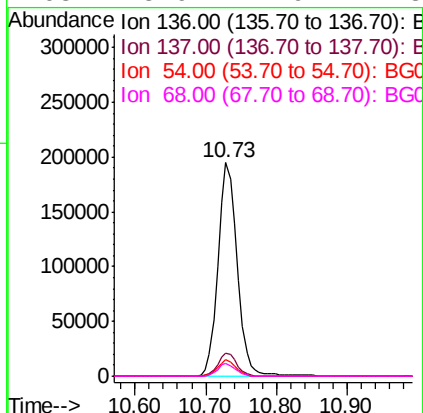
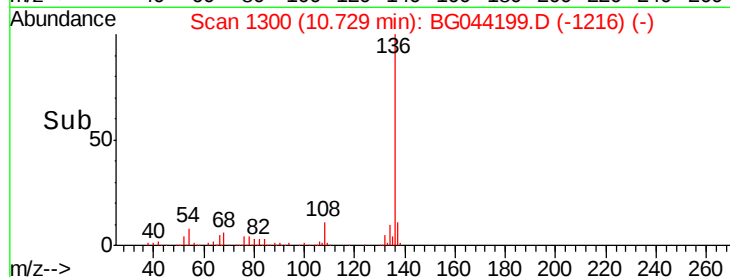
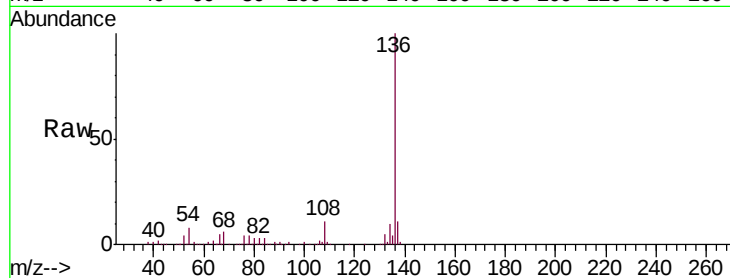




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.73 min Scan# 1300  
Delta R.T. -0.04 min  
Lab File: BG044199.D  
Acq: 25 Jan 2020 3:08

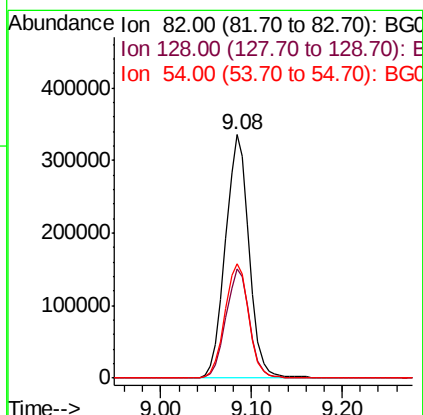
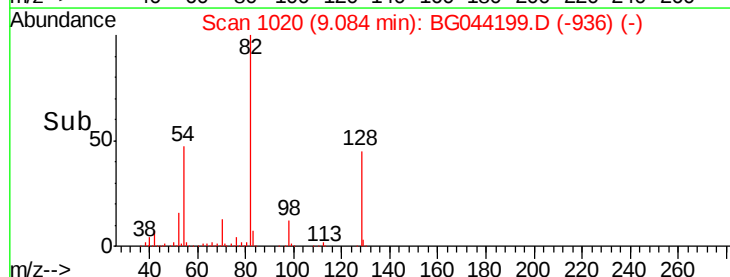
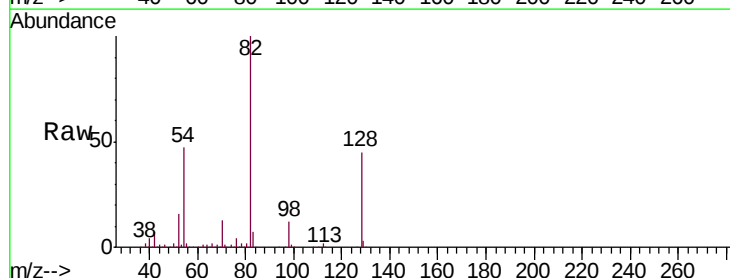
Instrument :  
BNA\_G  
ClientSampleId :  
JC-03-012320-A

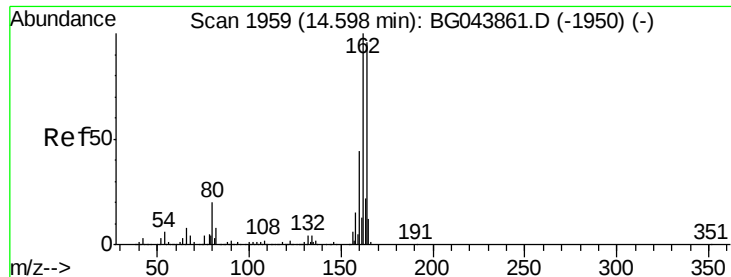
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 369583 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 8.8   | 13.2   |
| 54       | 7.7   | 7.0   | 10.4   |
| 68       | 5.9   | 4.9   | 7.3    |



#23  
Nitrobenzene-d5  
Concen: 88.196 ng  
RT: 9.08 min Scan# 1020  
Delta R.T. -0.04 min  
Lab File: BG044199.D  
Acq: 25 Jan 2020 3:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 609312 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 44.6  | 35.1  | 52.7   |
| 54       | 46.8  | 40.1  | 60.1   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.57 min Scan# 1953

Delta R.T. -0.03 min

Lab File: BG044199.D

Acq: 25 Jan 2020 3:08

Instrument :

BNA\_G

ClientSampleId :

JC-03-012320-A

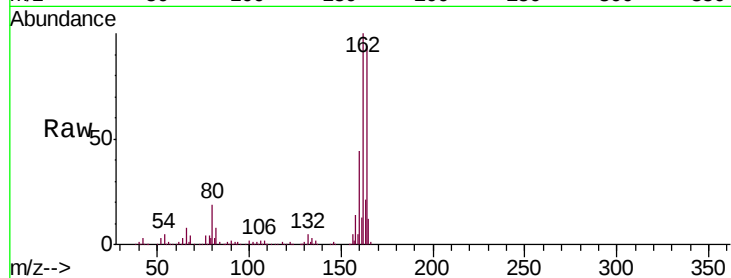
Tgt Ion:164 Resp: 255025

Ion Ratio Lower Upper

164 100

162 106.7 83.0 124.4

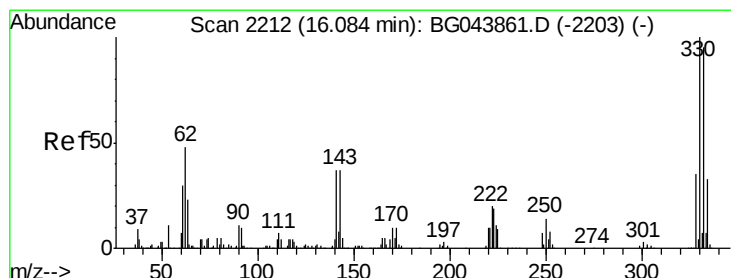
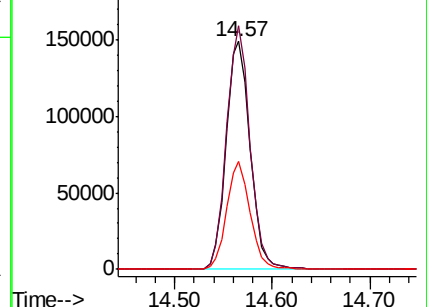
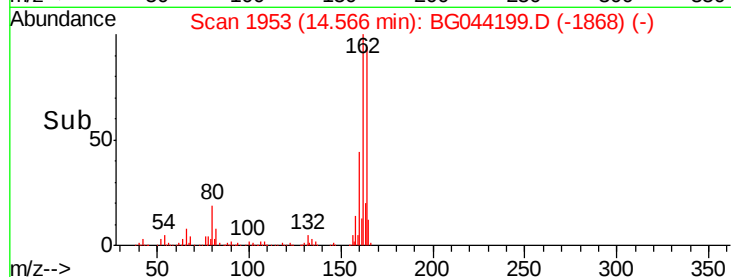
160 47.1 36.1 54.1



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: 139.994 ng

RT: 16.05 min Scan# 2206

Delta R.T. -0.03 min

Lab File: BG044199.D

Acq: 25 Jan 2020 3:08

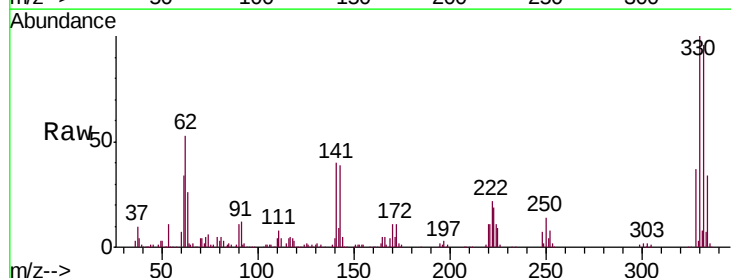
Tgt Ion:330 Resp: 373615

Ion Ratio Lower Upper

330 100

332 96.2 77.2 115.8

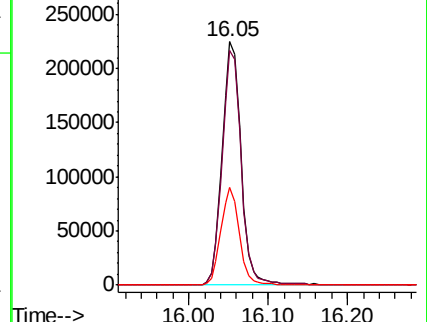
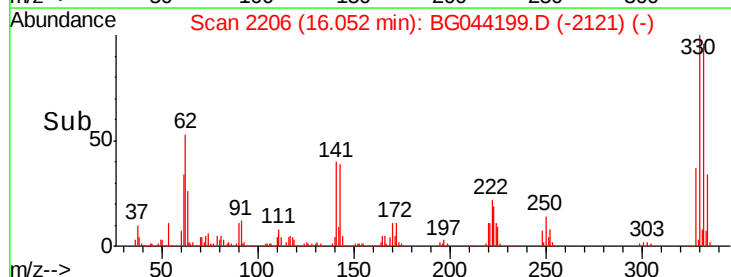
141 39.2 33.1 49.7

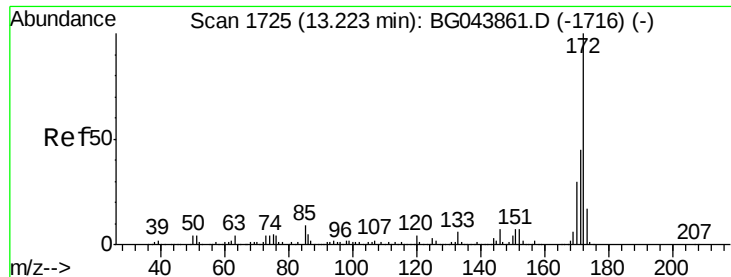


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#45

2-Fluorobiphenyl

Concen: 100.207 ng

RT: 13.19 min Scan# 1719

Delta R.T. -0.03 min

Lab File: BG044199.D

Acq: 25 Jan 2020 3:08

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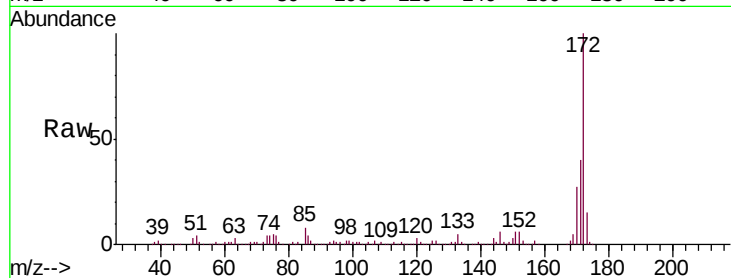
Tgt Ion:172 Resp: 1410515

Ion Ratio Lower Upper

172 100

171 40.2 35.8 53.8

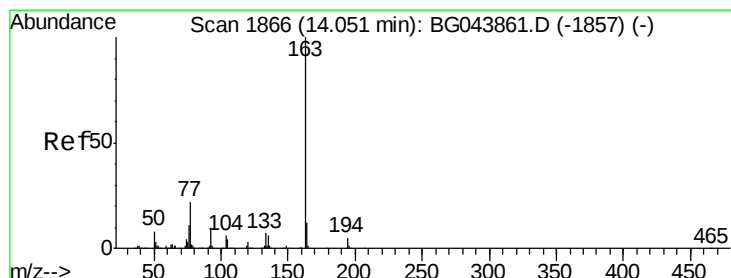
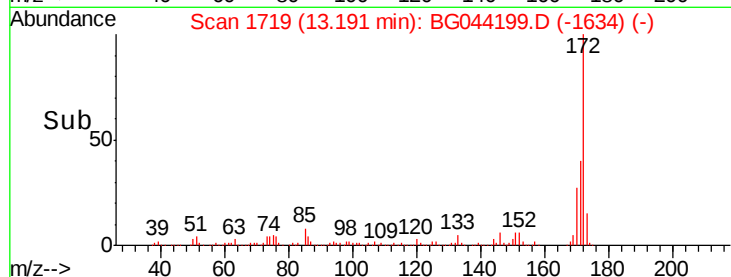
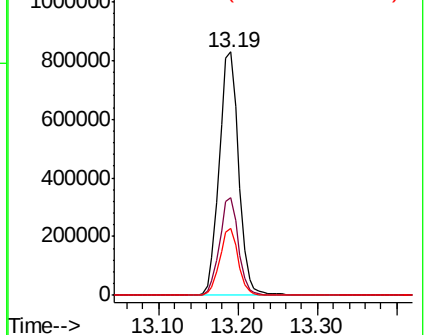
170 27.3 24.2 36.4



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



#50

Dimethylphthalate

Concen: 4.016 ng

RT: 14.02 min Scan# 1860

Delta R.T. -0.03 min

Lab File: BG044199.D

Acq: 25 Jan 2020 3:08

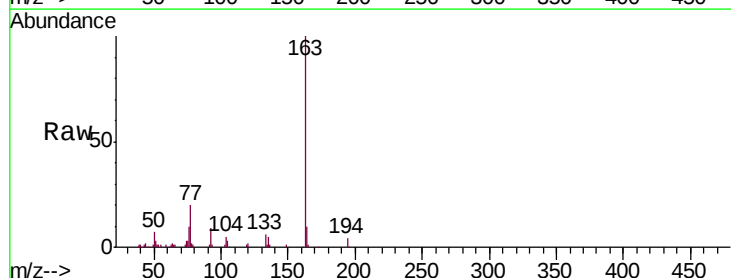
Tgt Ion:163 Resp: 72721

Ion Ratio Lower Upper

163 100

194 3.9 3.7 5.5

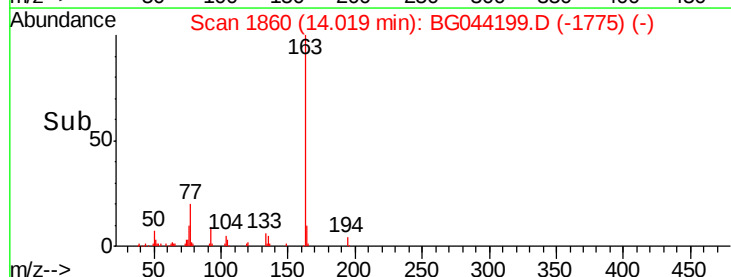
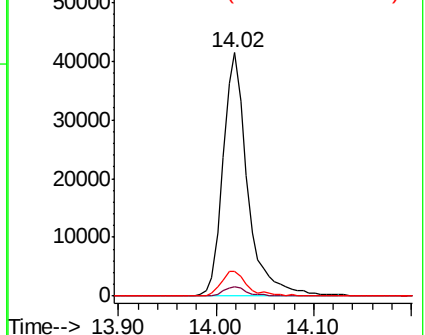
164 10.1 9.3 13.9

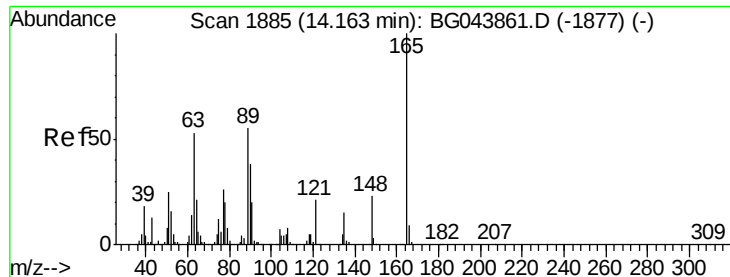


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

2,6-Dinitrotoluene

Concen: 8.130 ng

RT: 14.57 min Scan# 1953

Delta R.T. 0.40 min

Lab File: BG044199.D

Acq: 25 Jan 2020 3:08

Instrument :

BNA\_G

ClientSampleId :

JC-03-012320-A

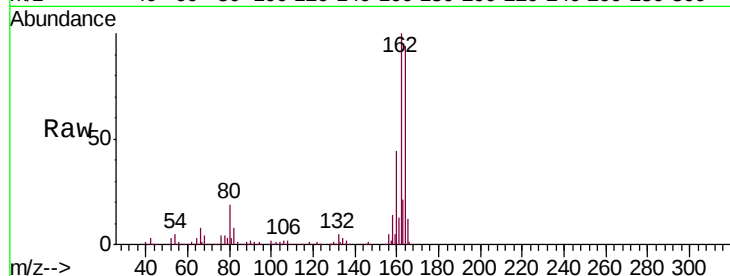
Tgt Ion:165 Resp: 33273

Ion Ratio Lower Upper

165 100

63 1.0 43.1 64.7#

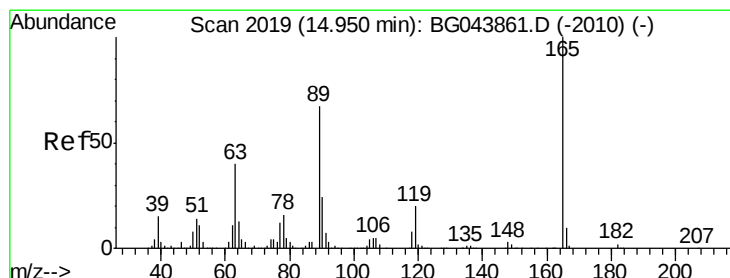
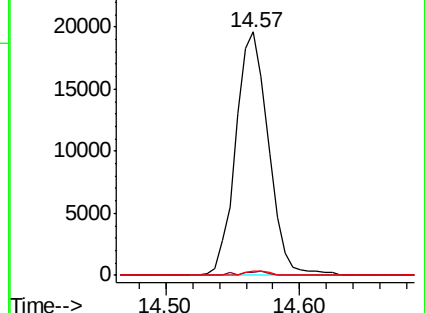
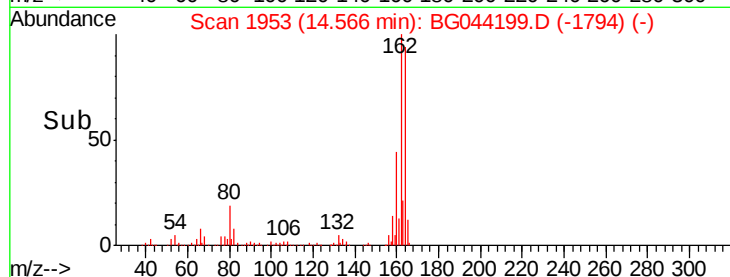
89 1.6 43.8 65.6#



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: 5.974 ng

RT: 14.57 min Scan# 1953

Delta R.T. -0.38 min

Lab File: BG044199.D

Acq: 25 Jan 2020 3:08

Tgt Ion:165 Resp: 33270

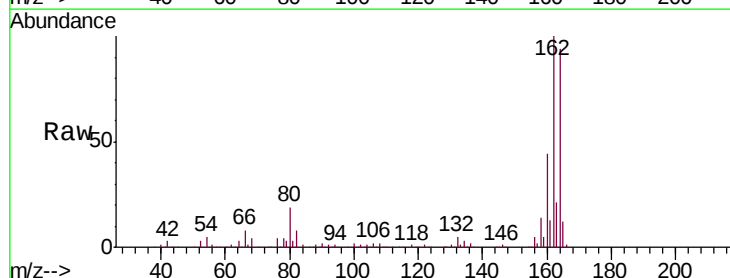
Ion Ratio Lower Upper

165 100

63 1.0 31.9 47.9#

89 1.6 53.8 80.6#

182 0.0 2.0 3.0#

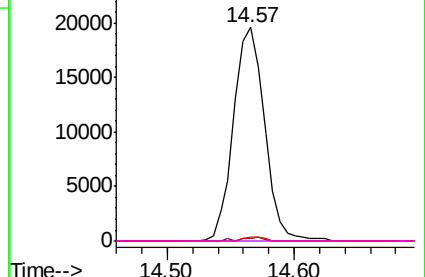
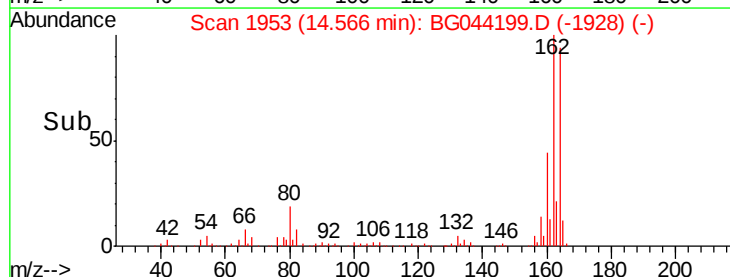


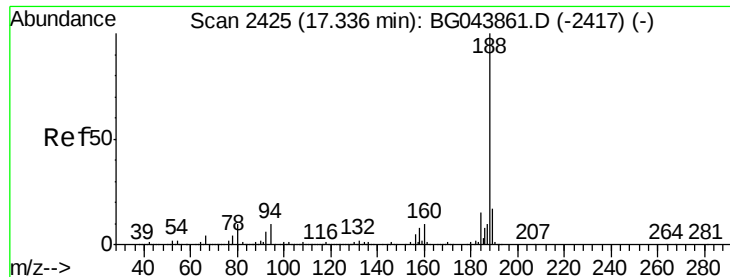
Abundance Ion 165.00 (164.70 to 165.70): E

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: BG044199.D

Acq: 25 Jan 2020 3:08

Instrument :

BNA\_G

ClientSampleId :

JC-03-012320-A

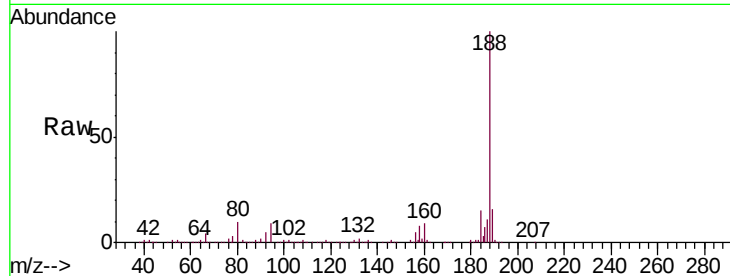
Tgt Ion:188 Resp: 502120

Ion Ratio Lower Upper

188 100

94 8.7 7.9 11.9

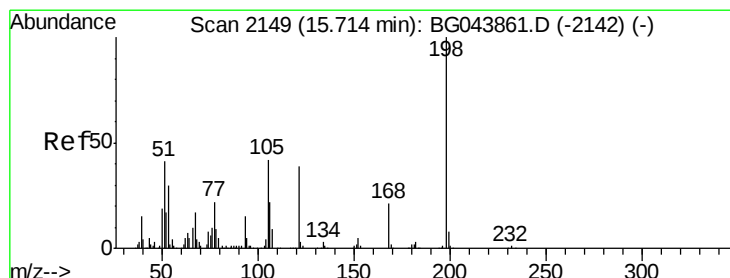
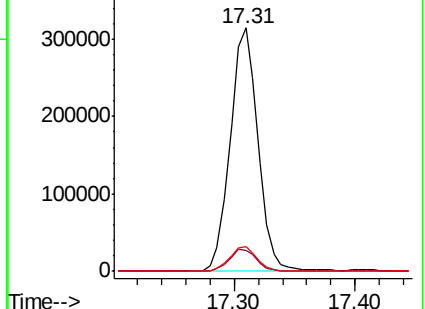
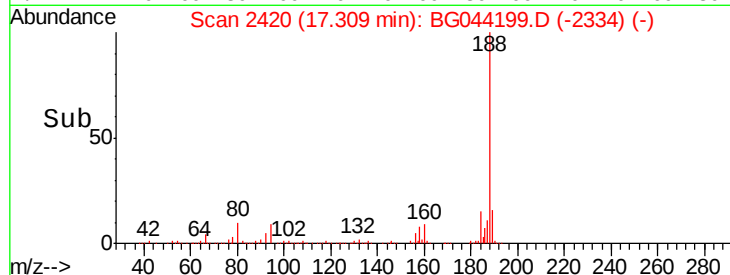
80 10.2 8.2 12.4



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: 4.805 ng

RT: 16.05 min Scan# 2206

Delta R.T. 0.34 min

Lab File: BG044199.D

Acq: 25 Jan 2020 3:08

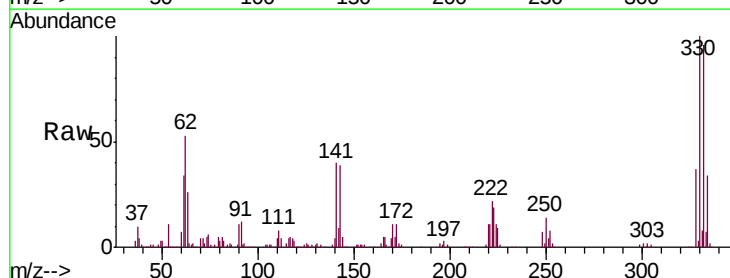
Tgt Ion:198 Resp: 1182

Ion Ratio Lower Upper

198 100

51 120.7 22.5 62.5#

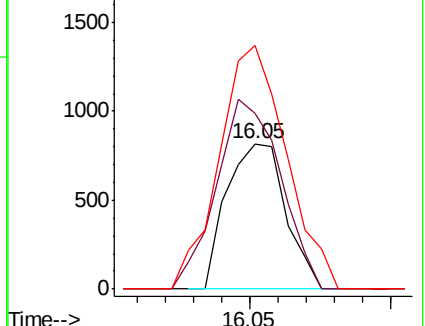
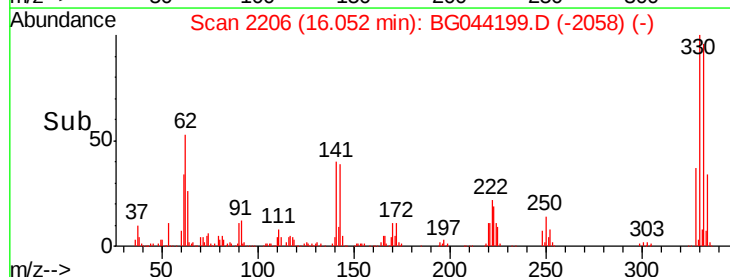
105 167.5 22.3 62.3#

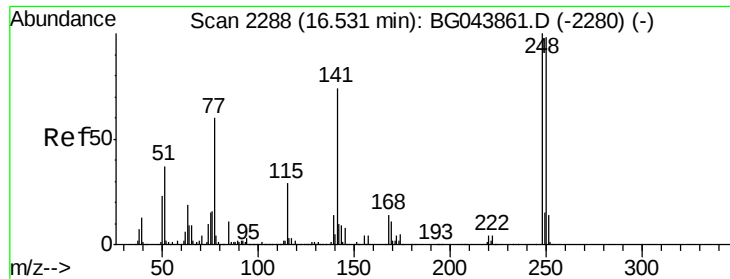


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

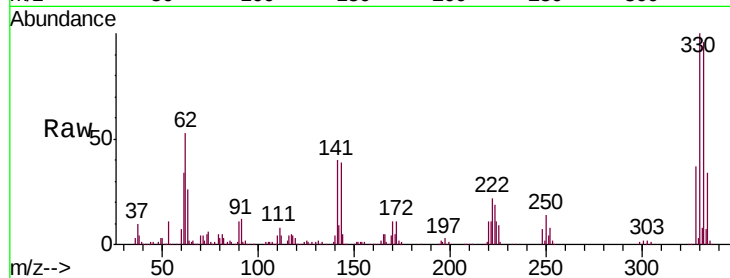




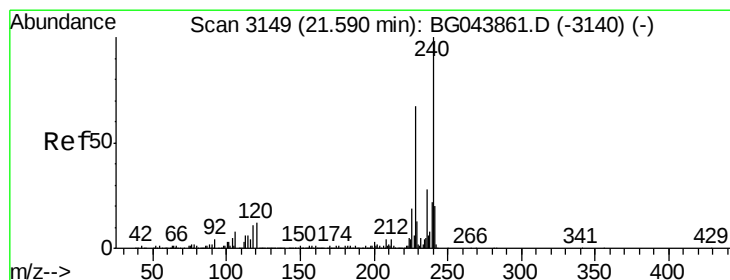
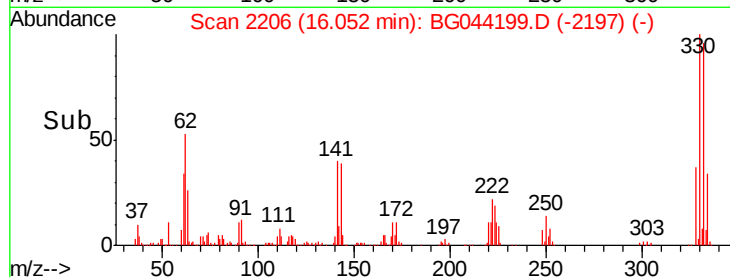
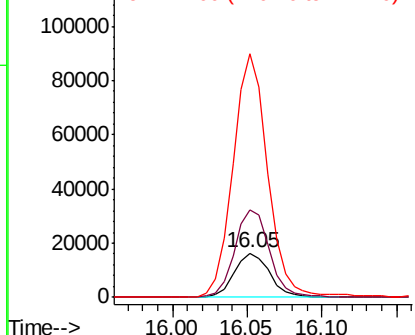
#67  
4-Bromophenyl-phenylether  
Concen: 4.734 ng  
RT: 16.05 min Scan# 2206  
Delta R.T. -0.48 min  
Lab File: BG044199.D  
Acq: 25 Jan 2020 3:08

Instrument :  
BNA\_G  
ClientSampleId :  
JC-03-012320-A

Tgt Ion:248 Resp: 26734  
Ion Ratio Lower Upper  
248 100  
250 195.9 78.2 117.2#  
141 548.8 59.3 88.9#

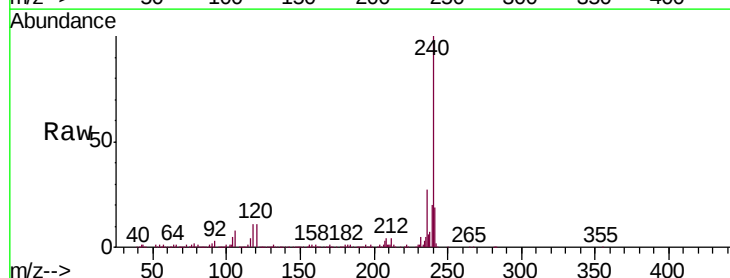


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

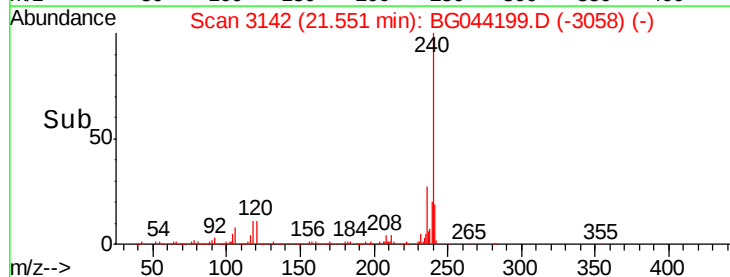
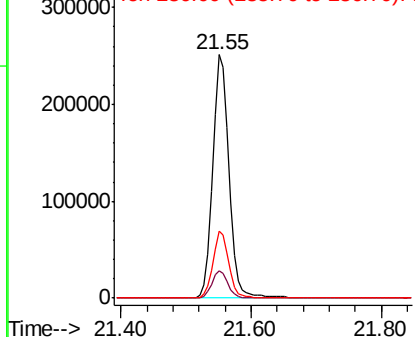


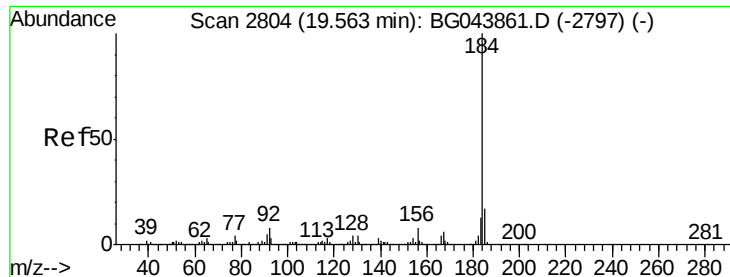
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.55 min Scan# 3142  
Delta R.T. -0.04 min  
Lab File: BG044199.D  
Acq: 25 Jan 2020 3:08

Tgt Ion:240 Resp: 435856  
Ion Ratio Lower Upper  
240 100  
120 11.1 9.6 14.4  
236 27.3 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: 3.271 ng

RT: 19.92 min Scan# 2865

Delta R.T. 0.36 min

Lab File: BG044199.D

Acq: 25 Jan 2020 3:08

Instrument :

BNA\_G

ClientSampleId :

JC-03-012320-A

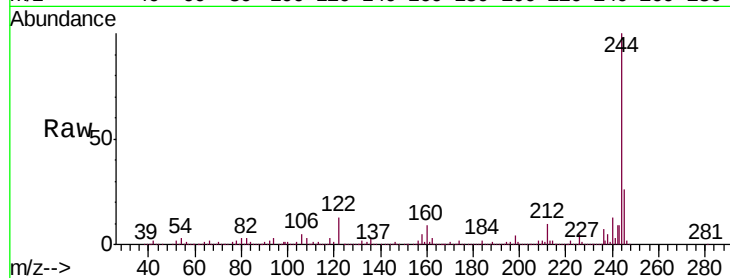
Tgt Ion:184 Resp: 35840

Ion Ratio Lower Upper

184 100

185 16.6 13.4 20.0

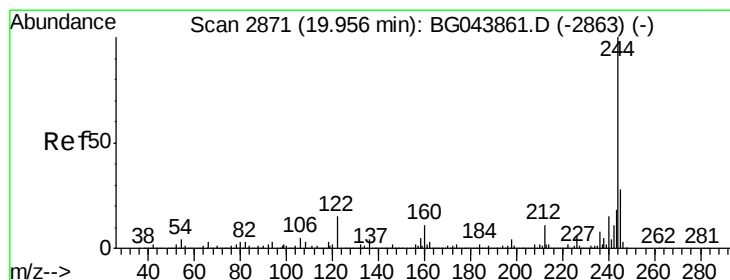
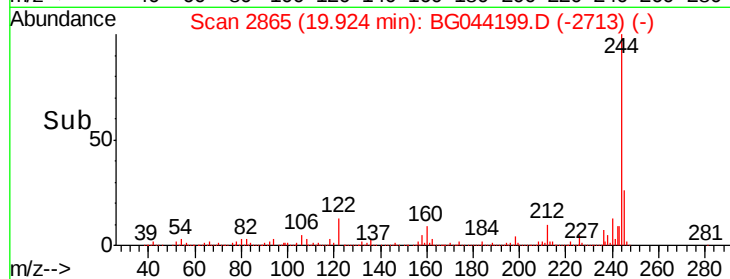
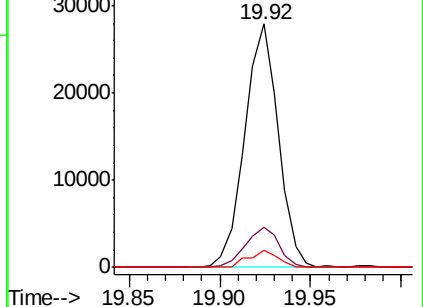
183 7.0 10.6 15.8#



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: 118.778 ng

RT: 19.92 min Scan# 2865

Delta R.T. -0.03 min

Lab File: BG044199.D

Acq: 25 Jan 2020 3:08

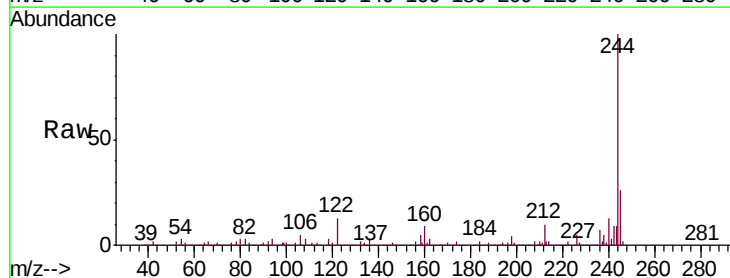
Tgt Ion:244 Resp: 1945615

Ion Ratio Lower Upper

244 100

212 9.7 8.6 13.0

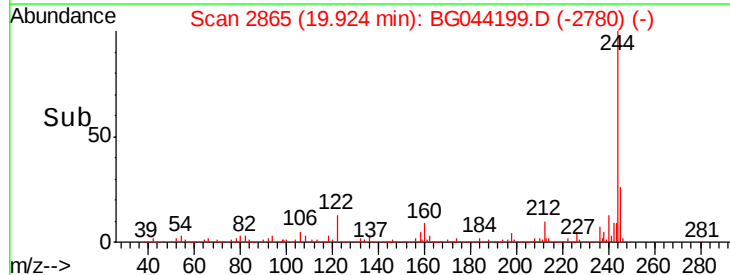
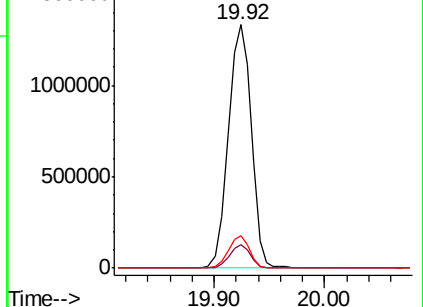
122 13.2 11.9 17.9

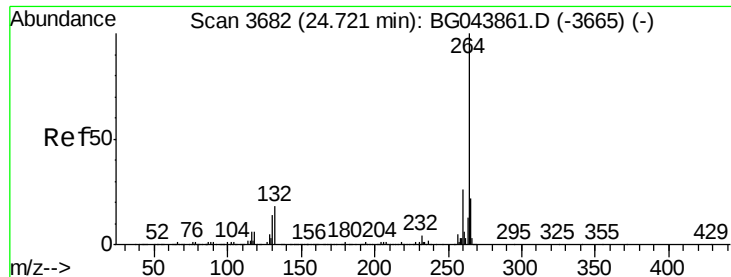


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.66 min Scan# 3671  
Delta R.T. -0.06 min  
Lab File: BG044199.D  
Acq: 25 Jan 2020 3:08

Instrument :  
BNA\_G  
ClientSampleId :  
JC-03-012320-A

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.6  | 20.4  | 30.6  |
| 265     | 21.9  | 17.4  | 26.2  |

