

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG020420\  
 Data File : BG044296.D  
 Acq On : 5 Feb 2020 1:11  
 Operator : CG/JU  
 Sample : L1377-04  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 FB-02032020

Quant Time: Feb 05 04:40:46 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG013020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 30 16:05:09 2020  
 Response via : Initial Calibration

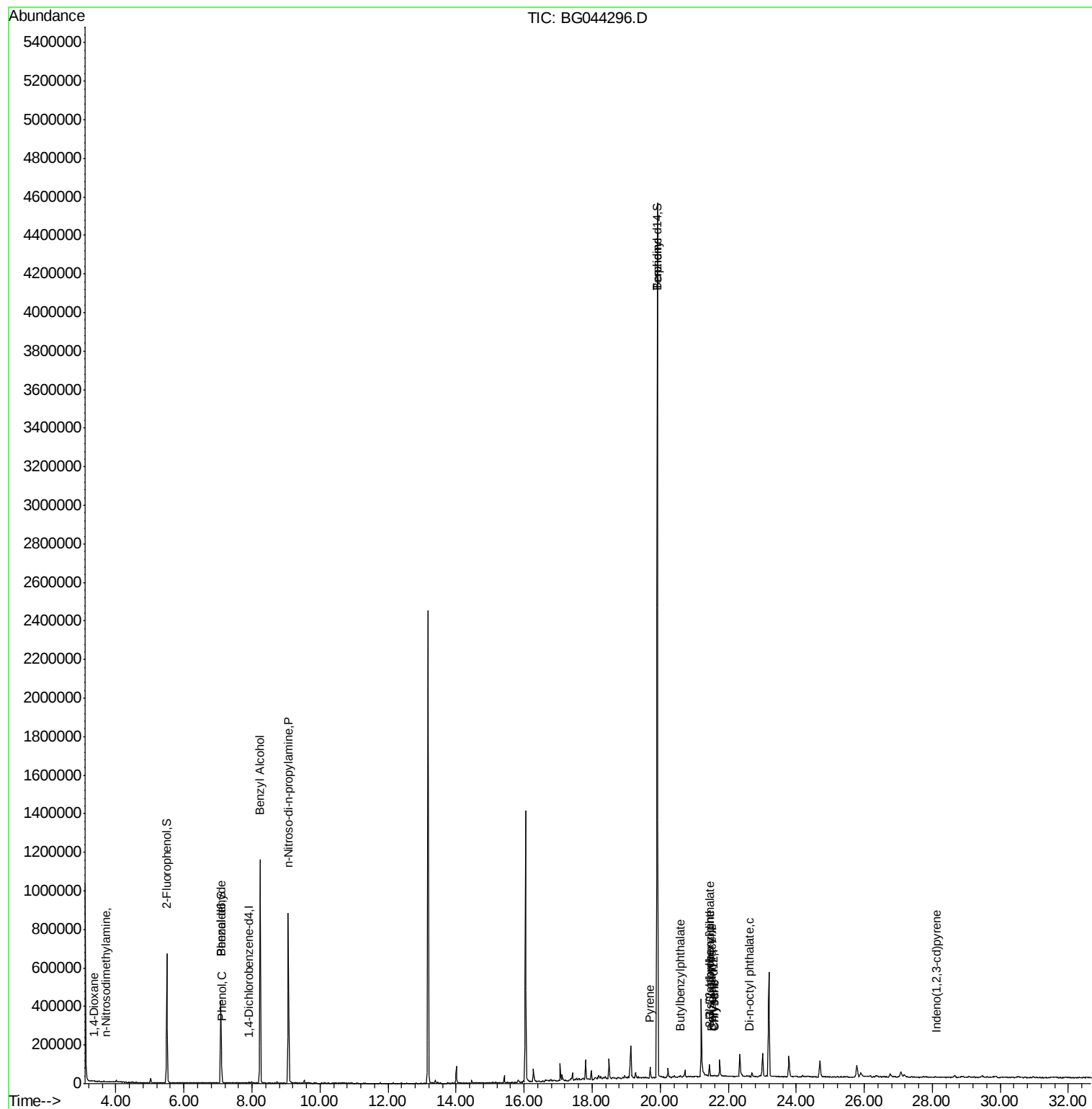
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.91  | 152  | 1742     | 20.00     | ng     | 0.00     |
| 21) Naphthalene-d8             | 0.00  | 136  | 0        | 0.00      | ng     | -10.72   |
| 39) Acenaphthene-d10           | 0.00  | 164  | 0        | 0.00      | ng     | -14.55   |
| 64) Phenanthrene-d10           | 0.00  | 188  | 0        | 0.00      | ng     | -17.30   |
| 76) Chrysene-d12               | 21.55 | 240  | 73       | 20.00     | ng     | 0.00     |
| 87) Perylene-d12               | 0.00  | 264  | 0        | 0.00      | ng     | -24.64   |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.50  | 112  | 337921   | 3423.52   | ng     | 0.00     |
| 7) Phenol-d6                   | 7.08  | 99   | 277669   | 2094.87   | ng     | 0.00     |
| 23) Nitrobenzene-d5            | 9.07  | 82   | 570479   | 0.00      | ng     | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.04 | 330  | 274175   | 0.00      | ng     | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.18 | 172  | 1281314  | 0.00      | ng     | 0.00     |
| 79) Terphenyl-d14              | 19.92 | 244  | 2055753  | 579235.41 | ng     | 0.00     |
| Target Compounds               |       |      |          |           |        |          |
|                                |       |      |          |           | Qvalue |          |
| 2) 1,4-Dioxane                 | 3.37  | 88   | 315      | 7.103     | ng     | # 63     |
| 4) n-Nitrosodimethylamine      | 3.72  | 42   | 184      | 3.727     | ng     | # 1      |
| 9) Benzaldehyde                | 7.08  | 77   | 537      | 7.114     | ng     | # 1      |
| 10) Phenol                     | 7.11  | 94   | 10010    | 76.309    | ng     | # 85     |
| 15) Benzyl Alcohol             | 8.24  | 79   | 9366     | 99.808    | ng     | # 49     |
| 19) n-Nitroso-di-n-propylamine | 9.07  | 70   | 75171    | 850.964   | ng     | # 77     |
| 77) Benizidine                 | 19.92 | 184  | 36516    | 18033.986 | ng     | # 91     |
| 78) Pyrene                     | 19.71 | 202  | 3320     | 708.178   | ng     | # 92     |
| 80) Butylbenzylphthalate       | 20.60 | 149  | 604      | 282.717   | ng     | # 83     |
| 81) Benzo(a)anthracene         | 21.53 | 228  | 1146     | 254.720   | ng     | # 46     |
| 82) 3,3'-Dichlorobenzidine     | 21.47 | 252  | 54       | 30.926    | ng     | # 25     |
| 83) Chrysene                   | 21.59 | 228  | 607      | 139.580   | ng     | # 68     |
| 84) Bis(2-ethylhexyl)phthalate | 21.45 | 149  | 23363    | 7945.002  | ng     | # 98     |
| 85) Di-n-octyl phthalate       | 22.62 | 149  | 374      | 73.508    | ng     | # 58     |
| 86) Indeno(1,2,3-cd)pyrene     | 28.14 | 276  | 69       | 12.162    | ng     | # 50     |

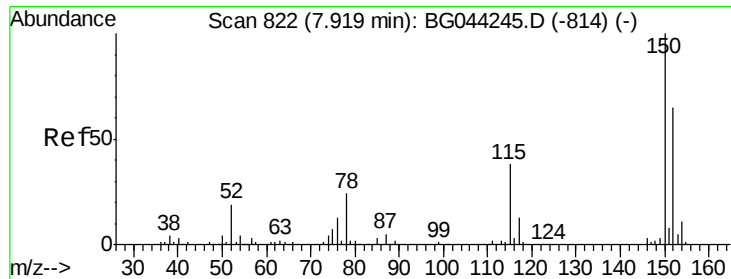
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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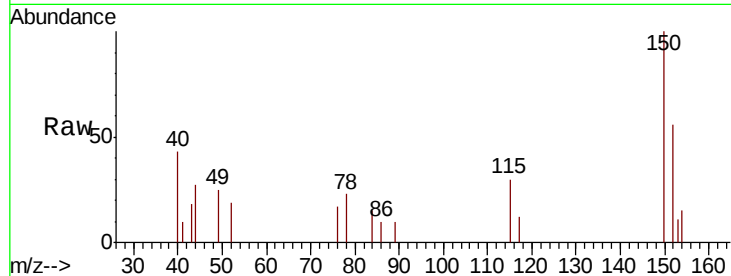


#1

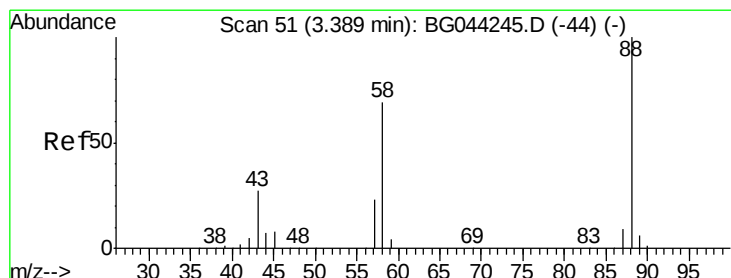
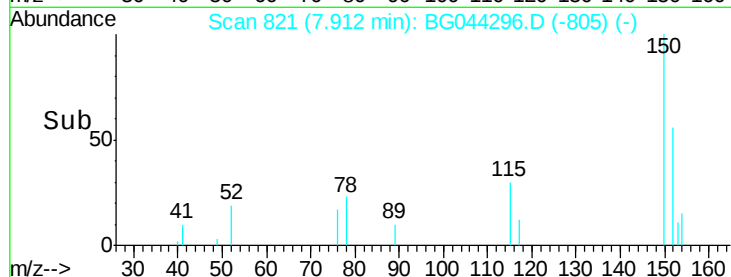
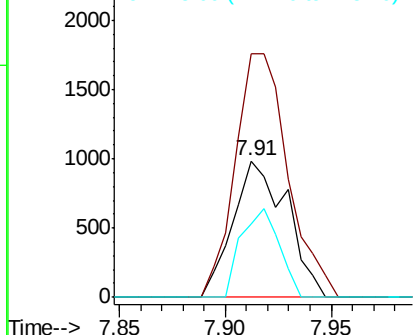
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.91 min Scan# 821  
Delta R.T. -0.01 min  
Lab File: BG044296.D  
Acq: 5 Feb 2020 1:11

Instrument :  
BNA\_G  
ClientSampleId :  
FB-02032020

Tot Ion:152 Resp: 1742  
Ion Ratio Lower Upper  
152 100  
150 178.7 122.6 183.8  
115 53.6 46.0 69.0



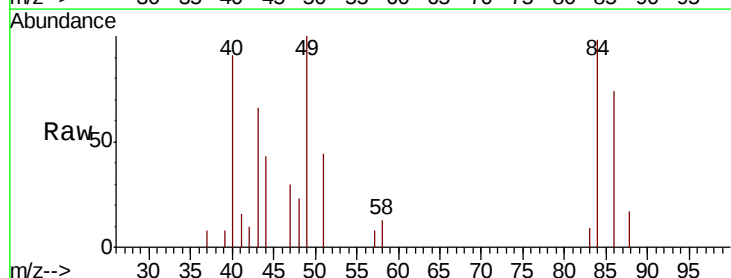
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



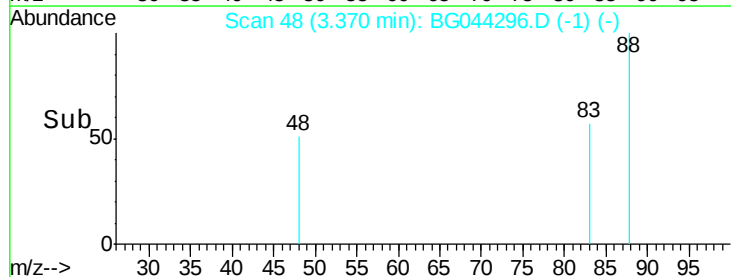
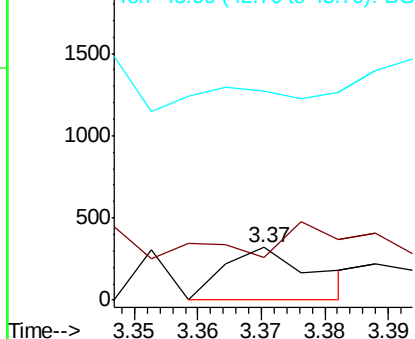
#2

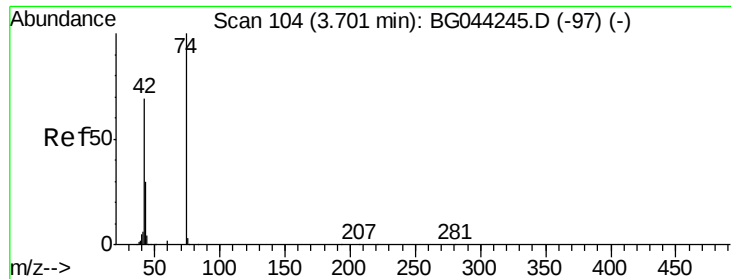
1,4-Dioxane  
Concen: 7.103 ng  
RT: 3.37 min Scan# 48  
Delta R.T. -0.02 min  
Lab File: BG044296.D  
Acq: 5 Feb 2020 1:11

Tgt Ion: 88 Resp: 315  
Ion Ratio Lower Upper  
88 100  
58 44.4 55.8 83.6#  
43 0.0 21.6 32.4#



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



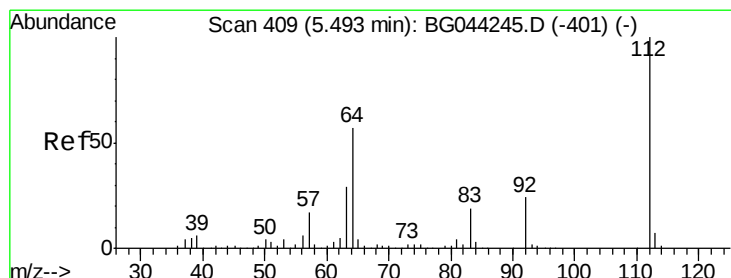
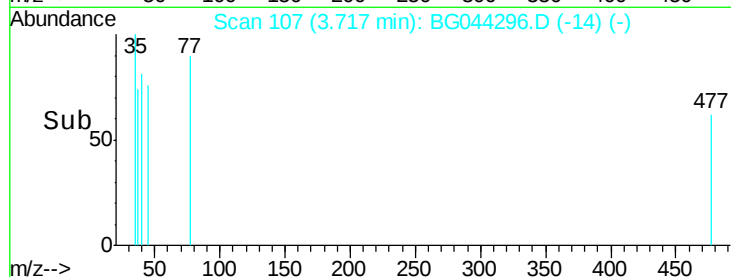
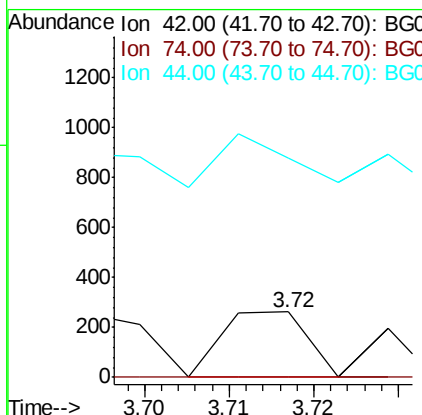
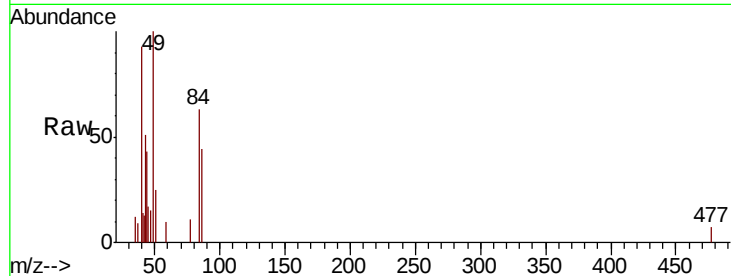


#4

n-Nitrosodimethylamine  
 Concen: 3.727 ng  
 RT: 3.72 min Scan# 107  
 Delta R.T. 0.02 min  
 Lab File: BG044296.D  
 Acq: 5 Feb 2020 1:11

Instrument :  
 BNA\_G  
 ClientSampleId :  
 FB-02032020

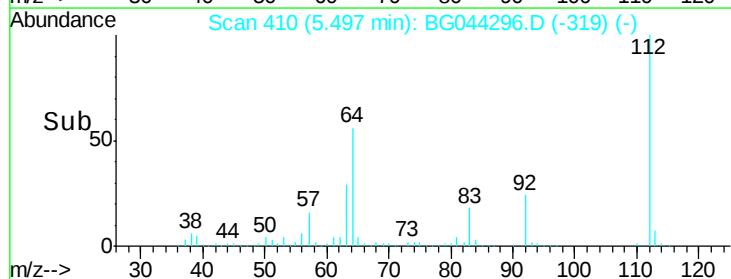
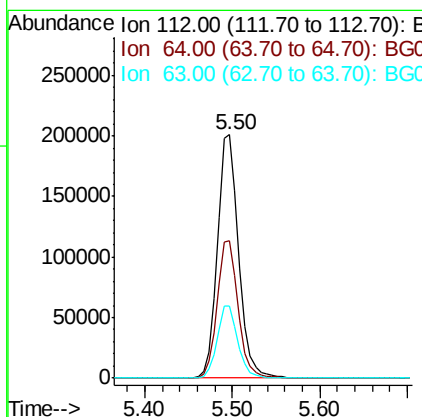
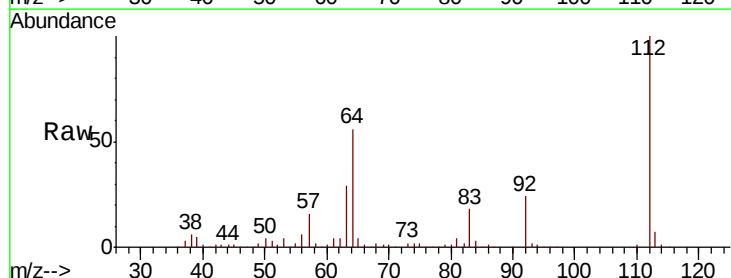
Tot Ion: 42 Resp: 184  
 Ion Ratio Lower Upper  
 42 100  
 74 0.0 115.1 172.7#  
 44 333.8 5.6 8.4#

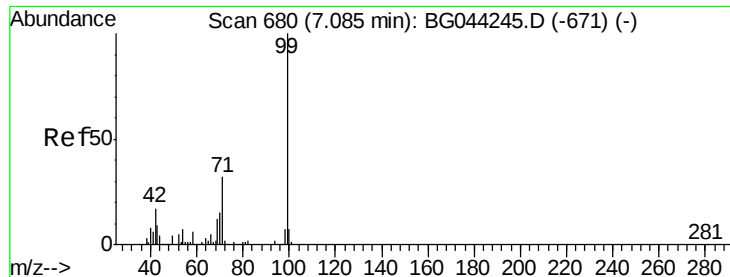


#5

2-Fluorophenol  
 Concen: 3423.521 ng  
 RT: 5.50 min Scan# 410  
 Delta R.T. 0.00 min  
 Lab File: BG044296.D  
 Acq: 5 Feb 2020 1:11

Tgt Ion: 112 Resp: 337921  
 Ion Ratio Lower Upper  
 112 100  
 64 56.4 45.4 68.2  
 63 29.4 22.9 34.3





#7

Phenol-d6

Concen: 2094.873 ng

RT: 7.08 min Scan# 680

Delta R.T. -0.00 min

Lab File: BG044296.D

Acq: 5 Feb 2020 1:11

Instrument :

BNA\_G

ClientSampleId :

FB-02032020

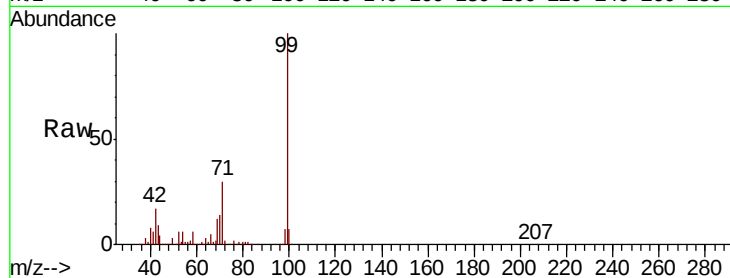
Tot Ion: 99 Resp: 277669

Ion Ratio Lower Upper

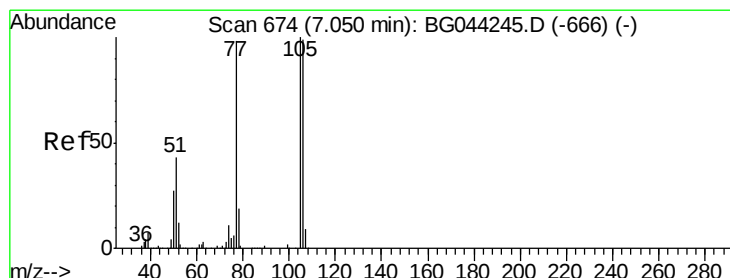
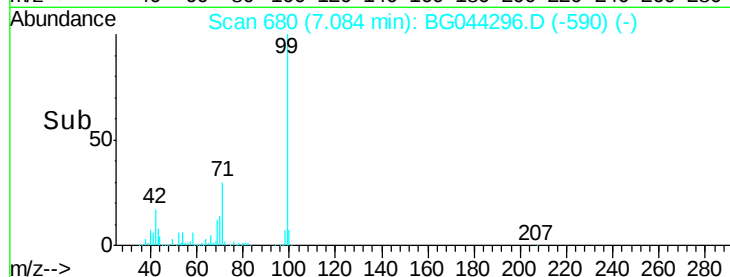
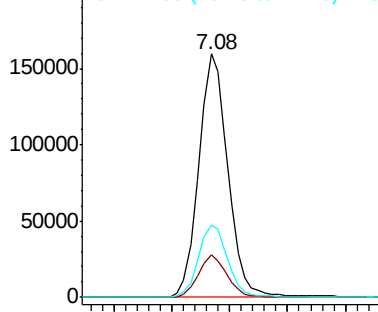
99 100

42 17.4 13.8 20.6

71 29.6 25.5 38.3



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



#9

Benzaldehyde

Concen: 7.114 ng

RT: 7.08 min Scan# 679

Delta R.T. 0.03 min

Lab File: BG044296.D

Acq: 5 Feb 2020 1:11

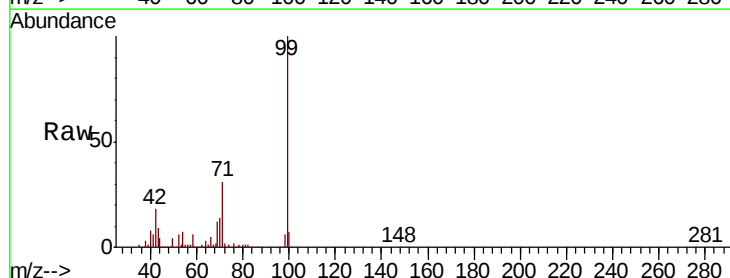
Tgt Ion: 77 Resp: 537

Ion Ratio Lower Upper

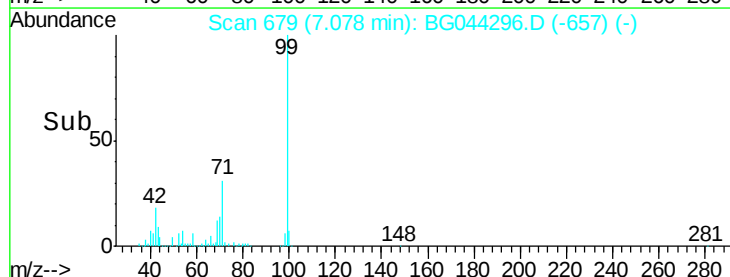
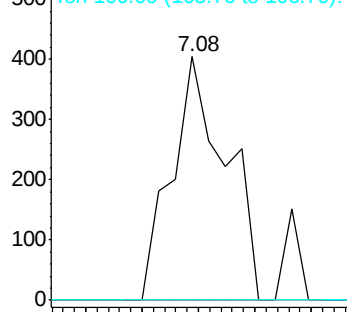
77 100

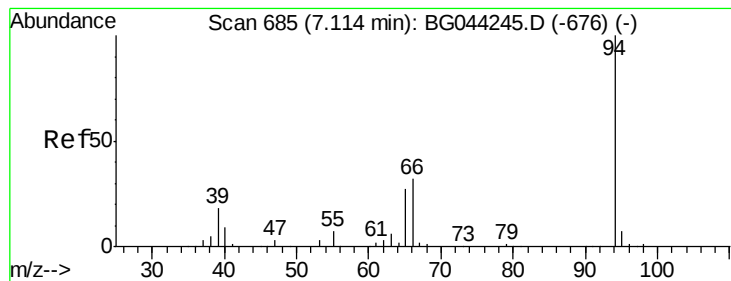
105 0.0 82.0 122.0#

106 0.0 80.7 120.7#



Abundance Ion 77.00 (76.70 to 77.70): BGC  
Ion 105.00 (104.70 to 105.70): BGC  
Ion 106.00 (105.70 to 106.70): BGC





#10

Phenol

Concen: 76.309 ng

RT: 7.11 min Scan# 685

Delta R.T. -0.00 min

Lab File: BG044296.D

Acq: 5 Feb 2020 1:11

Instrument :

BNA\_G

ClientSampleId :

FB-02032020

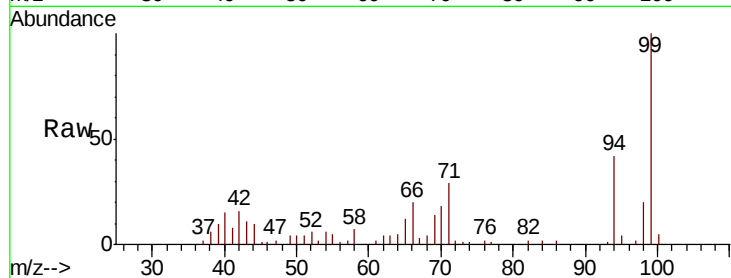
Tot Ion: 94 Resp: 10010

Ion Ratio Lower Upper

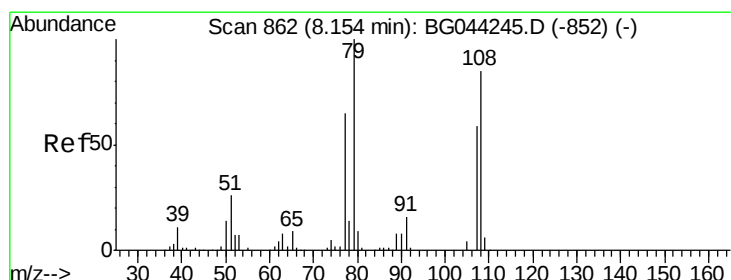
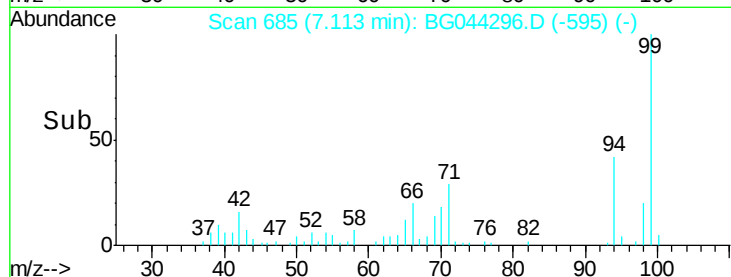
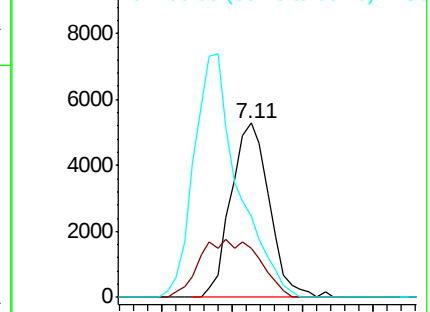
94 100

65 28.2 7.0 47.0

66 46.7 12.7 52.7



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



#15

Benzyl Alcohol

Concen: 99.808 ng

RT: 8.24 min Scan# 876

Delta R.T. 0.08 min

Lab File: BG044296.D

Acq: 5 Feb 2020 1:11

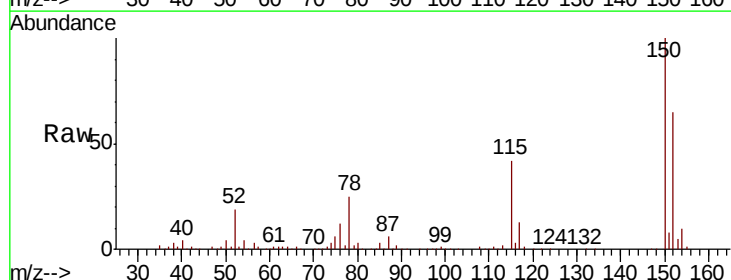
Tgt Ion: 79 Resp: 9366

Ion Ratio Lower Upper

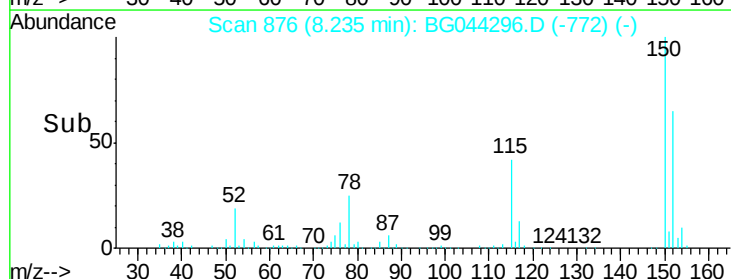
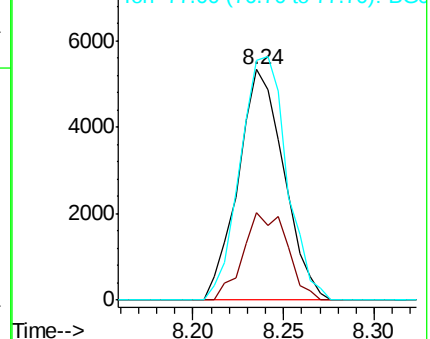
79 100

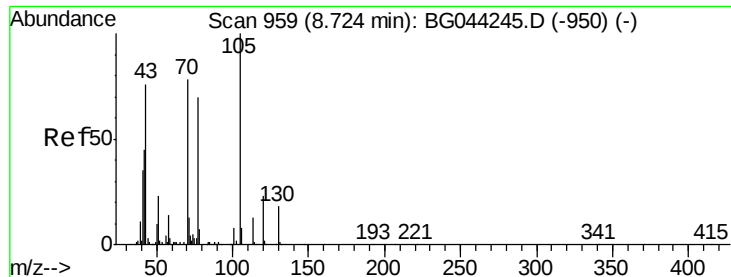
108 37.7 68.3 102.5#

77 104.0 51.8 77.8#



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC

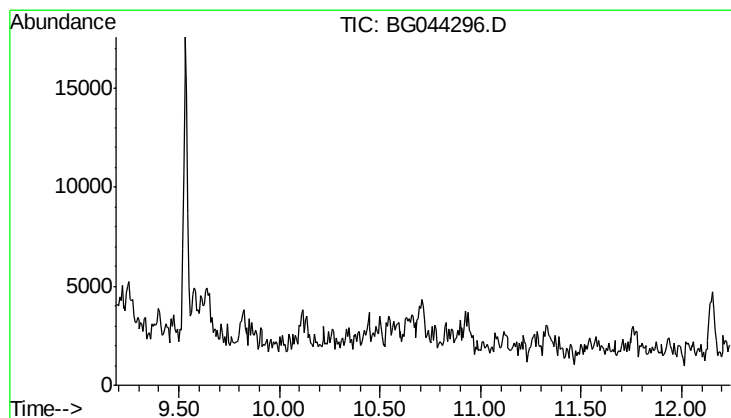
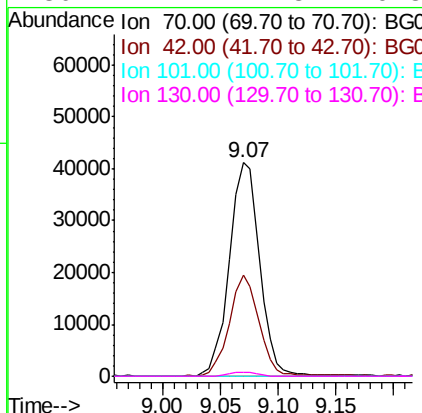
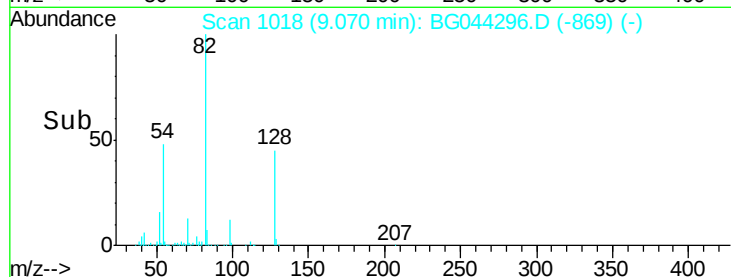
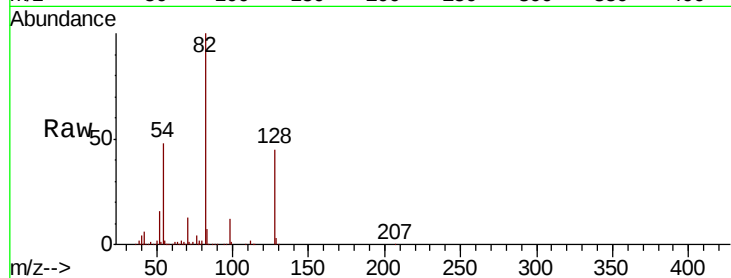




#19  
n-Nitroso-di-n-propylamine  
Concen: 850.964 ng  
RT: 9.07 min Scan# 1018  
Delta R.T. 0.35 min  
Lab File: BG044296.D  
Acq: 5 Feb 2020 1:11

Instrument :  
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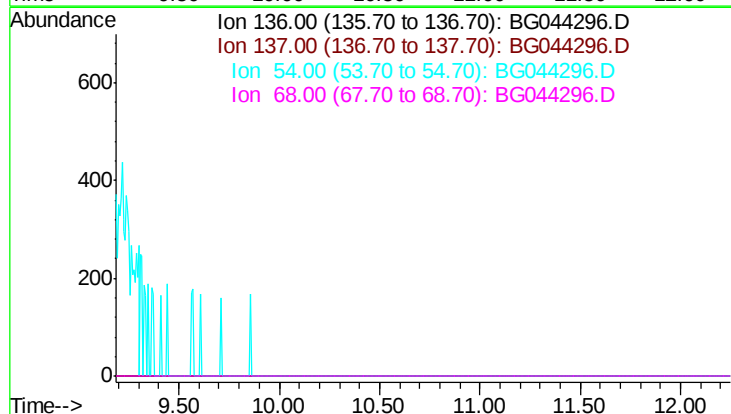
Tot Ion: 70 Resp: 75171  
Ion Ratio Lower Upper  
70 100  
42 47.4 46.2 69.2  
101 0.0 8.4 12.6#  
130 2.1 17.8 26.8#

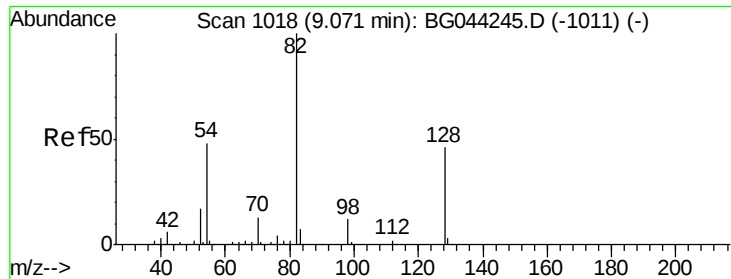


#21  
Naphthalene-d8  
Concen: 0.000 ng  
Expected RT: 10.72 min

Lab File: BG044296.D  
Acq: 5 Feb 2020 1:11

Tgt Ion: 136  
Sig Exp Ratio  
136 100  
137 11.0  
54 7.3  
68 5.7

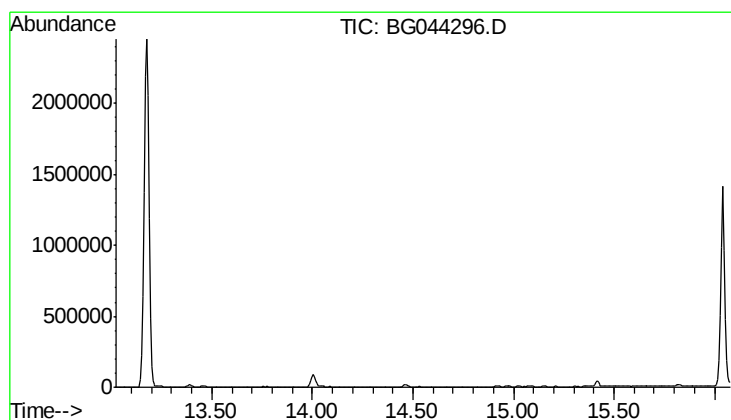
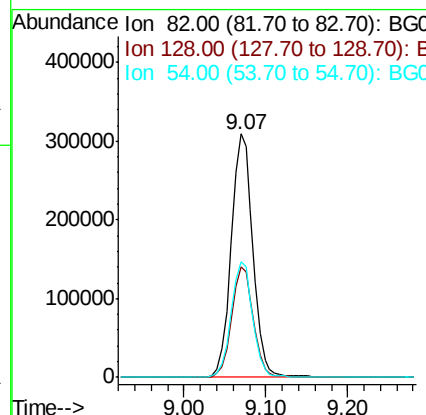
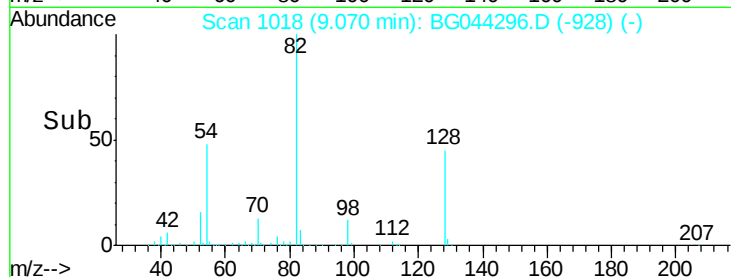
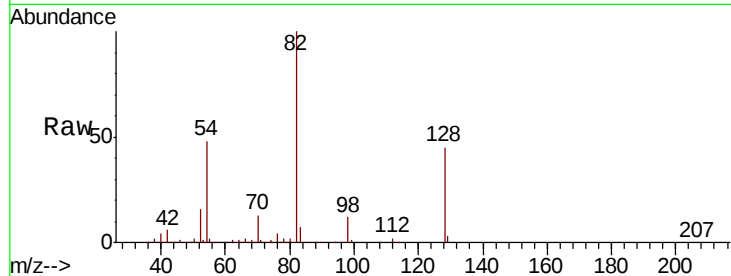




#23  
Nitrobenzene-d5  
Concen: 0.000 ng  
RT: 9.07 min Scan# 1018  
Delta R.T. -0.00 min  
Lab File: BG044296.D  
Acq: 5 Feb 2020 1:11

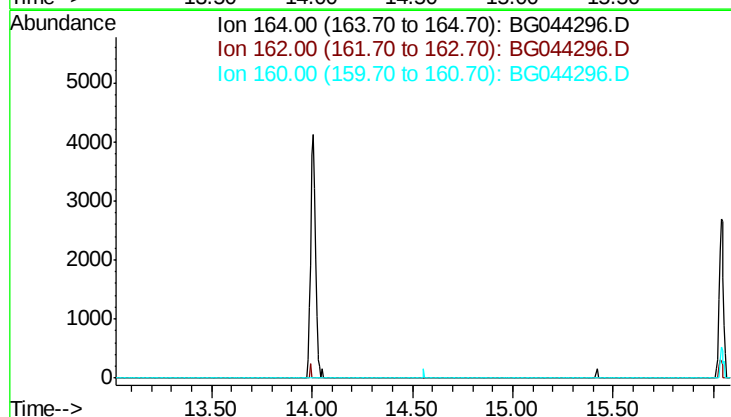
Instrument :  
BNA\_G  
ClientSampled :  
FB-02032020

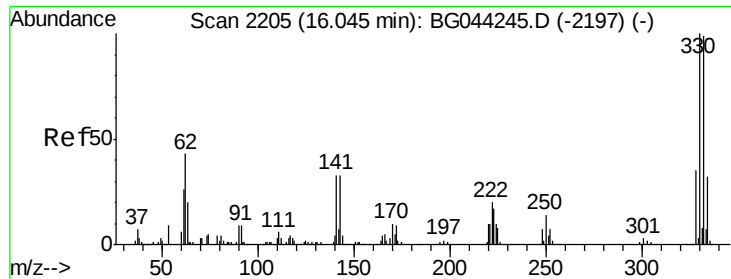
| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 82      | 100  |       |       |       |
| 128     | 45.2 | 36.5  | 54.7  |       |
| 54      | 47.7 | 38.6  | 58.0  |       |



#39  
Acenaphthene-d10  
Concen: 0.000 ng  
Expected RT: 14.55 min  
Lab File: BG044296.D  
Acq: 5 Feb 2020 1:11

| Tgt Ion | Sig   | Exp Ratio |
|---------|-------|-----------|
| 164     | 100   |           |
| 162     | 100.9 |           |
| 160     | 44.1  |           |





#42

2,4,6-Tribromophenol

Concen: 0.000 ng

RT: 16.04 min Scan# 2205

Delta R.T. -0.00 min

Lab File: BG044296.D

Acq: 5 Feb 2020 1:11

Instrument :

BNA\_G

ClientSampleId :

FB-02032020

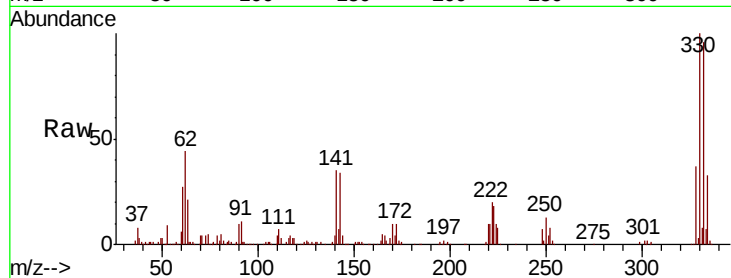
Tot Ion:330 Resp: 274175

Ion Ratio Lower Upper

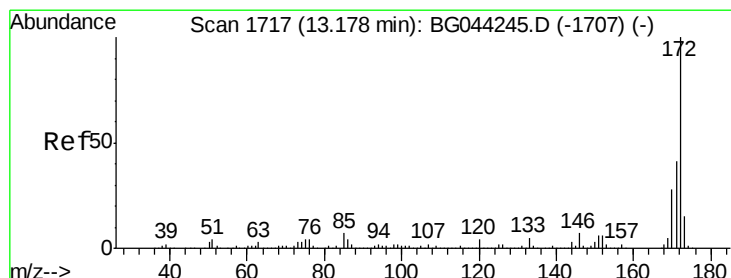
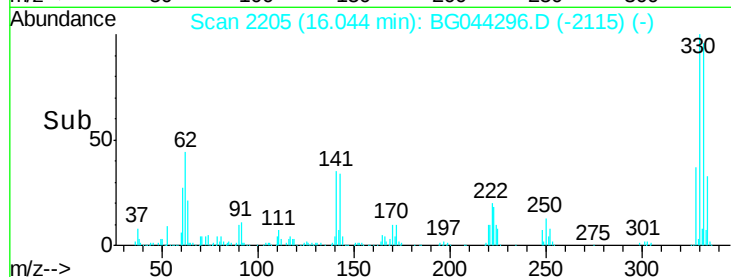
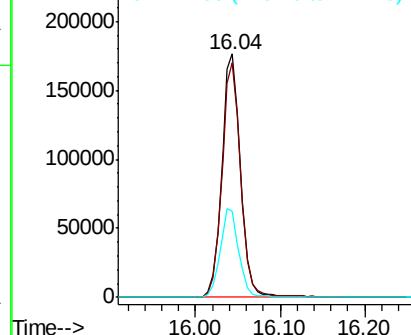
330 100

332 96.7 77.2 115.8

141 36.8 28.3 42.5



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: 0.000 ng

RT: 13.18 min Scan# 1717

Delta R.T. -0.00 min

Lab File: BG044296.D

Acq: 5 Feb 2020 1:11

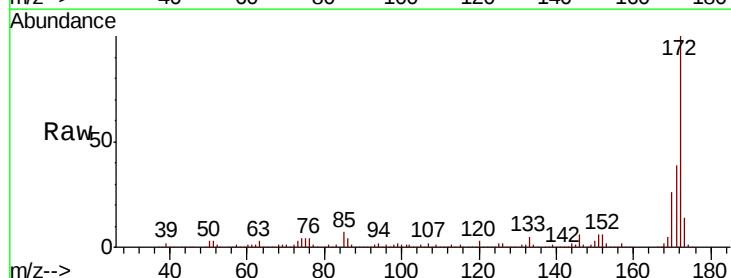
Tgt Ion:172 Resp: 1281314

Ion Ratio Lower Upper

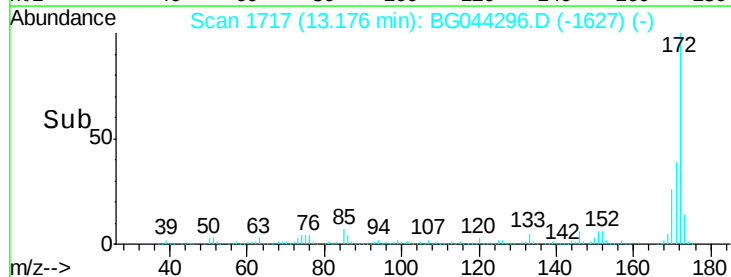
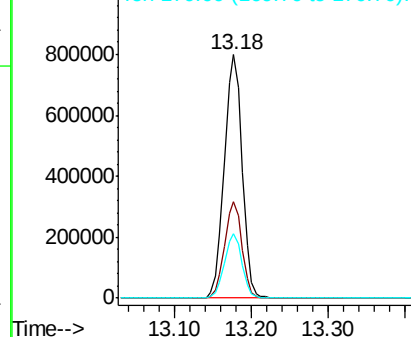
172 100

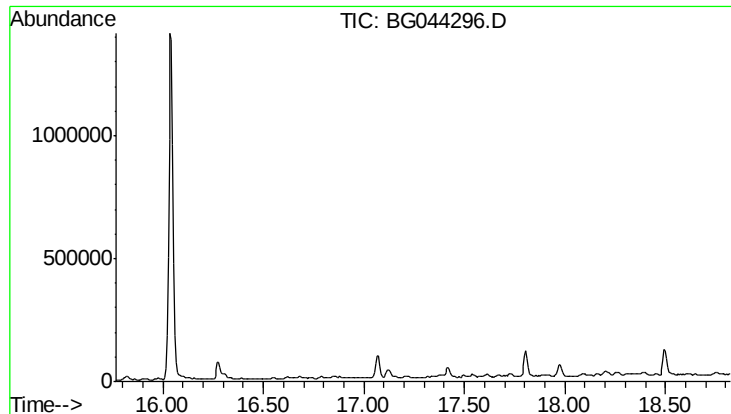
171 39.4 32.9 49.3

170 26.5 22.0 33.0



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





#64

Phenanthrene-d10

Concen: 0.000 ng

Expected RT: 17.30 min

Lab File: BG044296.D

Acq: 5 Feb 2020 1:11

Instrument :

BNA\_G

ClientSampleId :

FB-02032020

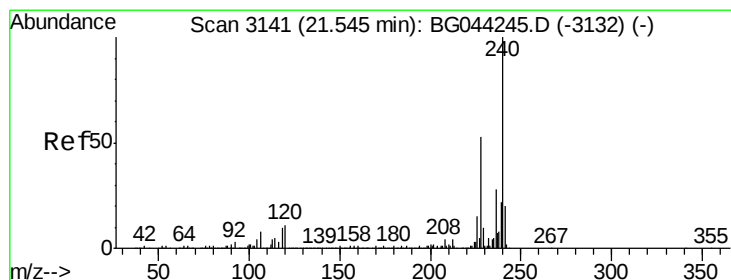
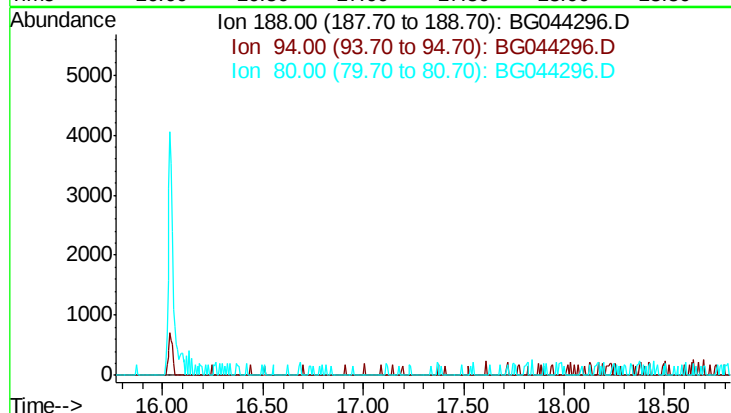
Tot Ion: 188

Sig Exp Ratio

188 100

94 9.3

80 9.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.55 min Scan# 3142

Delta R.T. 0.00 min

Lab File: BG044296.D

Acq: 5 Feb 2020 1:11

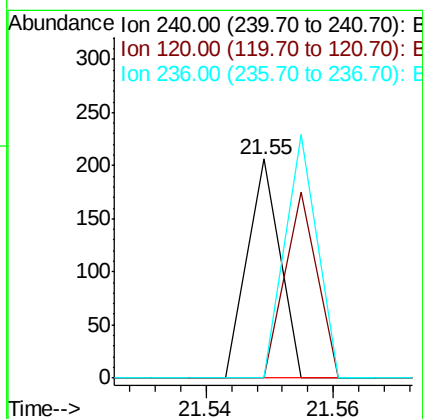
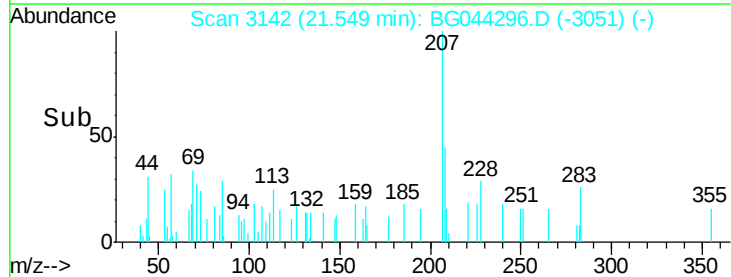
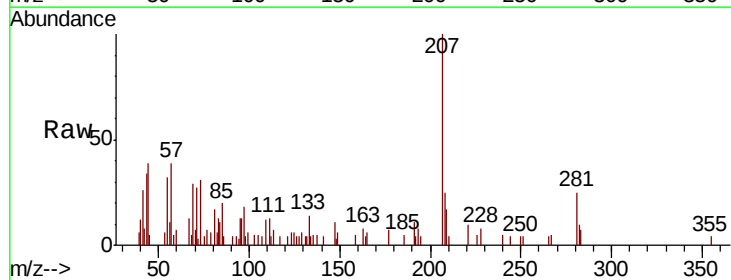
Tgt Ion: 240 Resp: 73

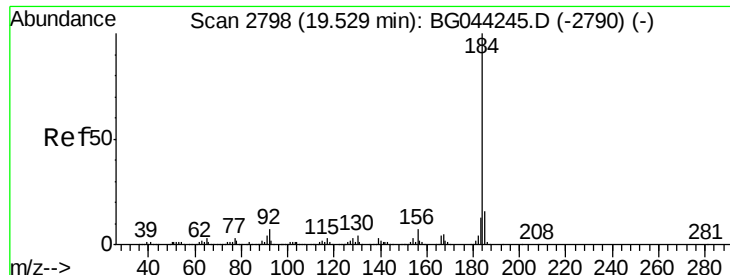
Ion Ratio Lower Upper

240 100

120 0.0 8.4 12.6#

236 0.0 22.1 33.1#





#77

Benzidine

Concen: 18033.986 ng

RT: 19.92 min Scan# 2864

Delta R.T. 0.39 min

Lab File: BG044296.D

Acq: 5 Feb 2020 1:11

Instrument :

BNA\_G

ClientSampleId :

FB-02032020

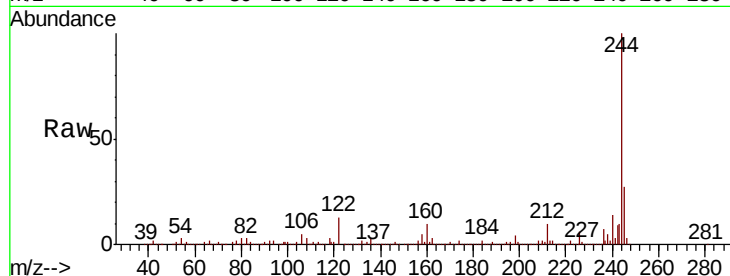
Tot Ion:184 Resp: 36516

Ion Ratio Lower Upper

184 100

185 16.3 12.9 19.3

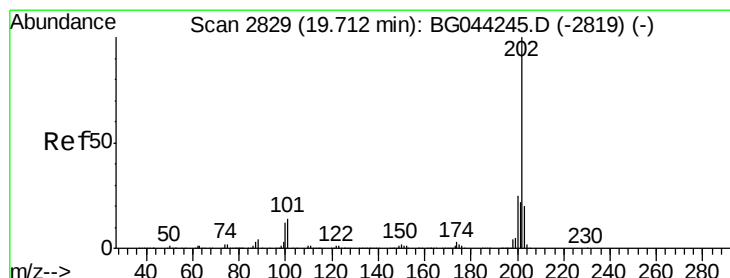
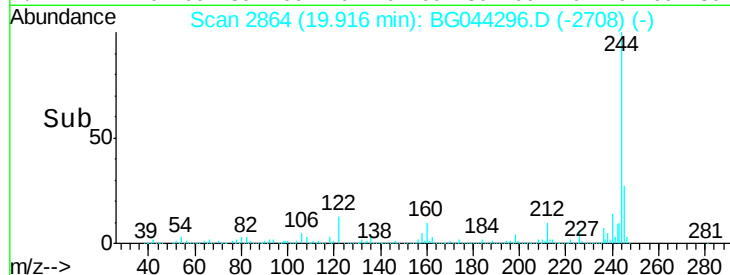
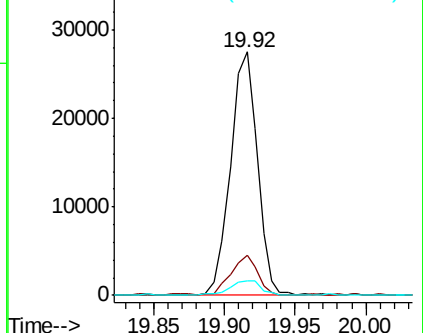
183 5.9 10.8 16.2#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 708.178 ng

RT: 19.71 min Scan# 2829

Delta R.T. -0.00 min

Lab File: BG044296.D

Acq: 5 Feb 2020 1:11

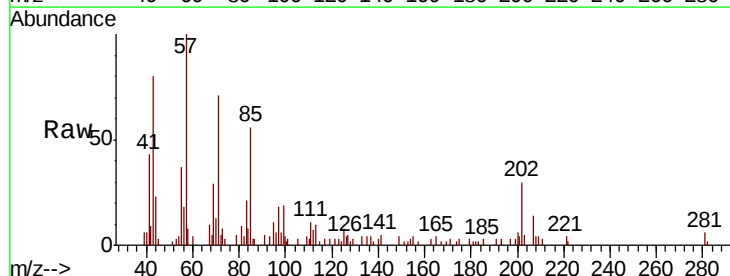
Tgt Ion:202 Resp: 3320

Ion Ratio Lower Upper

202 100

200 21.7 20.0 30.0

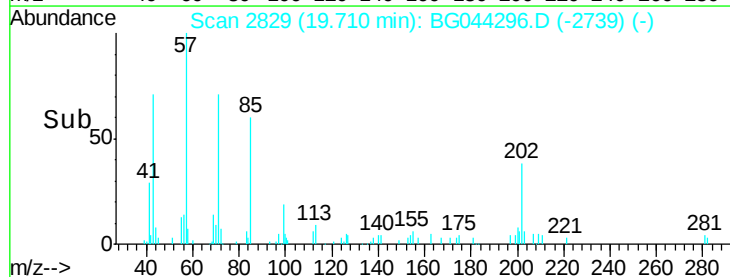
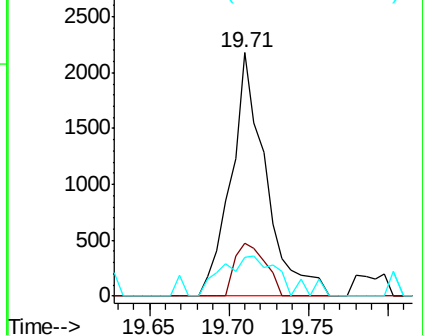
203 16.2 16.2 24.2#

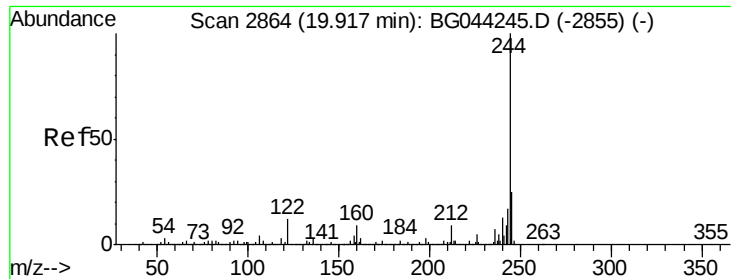


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 579235.406 ng

RT: 19.92 min Scan# 2864

Delta R.T. -0.00 min

Lab File: BG044296.D

Acq: 5 Feb 2020 1:11

Instrument :

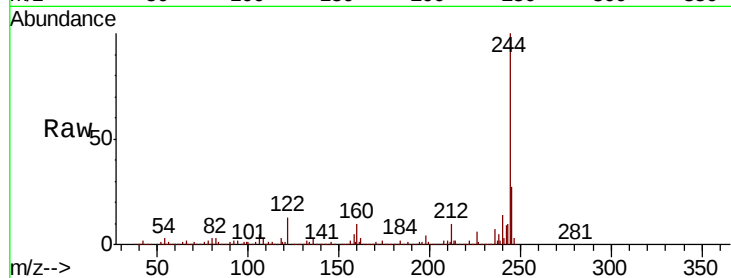
BNA\_G

ClientSampleId :

FB-02032020

Tot Ion:244 Resp: 2055753

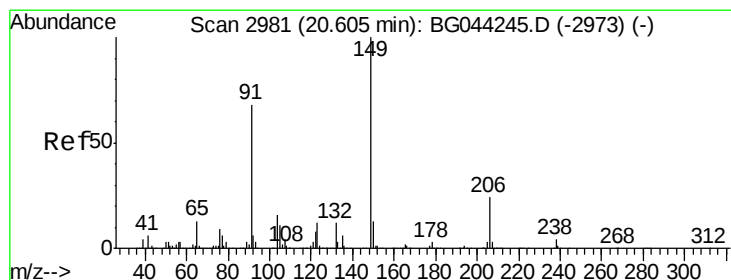
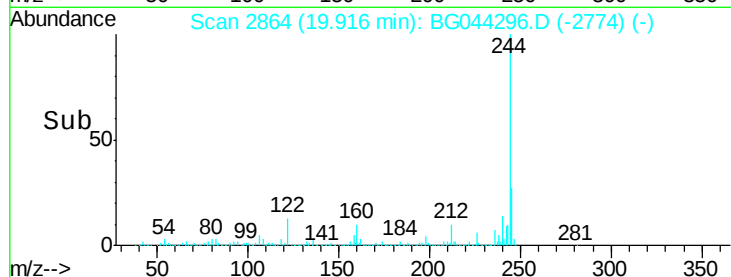
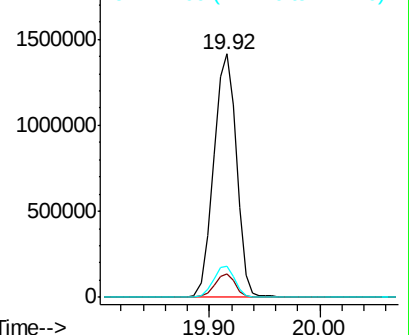
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 9.7   | 7.4   | 11.2  |
| 122 | 12.9  | 9.8   | 14.6  |



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



#80

Butylbenzylphthalate

Concen: 282.717 ng

RT: 20.60 min Scan# 2981

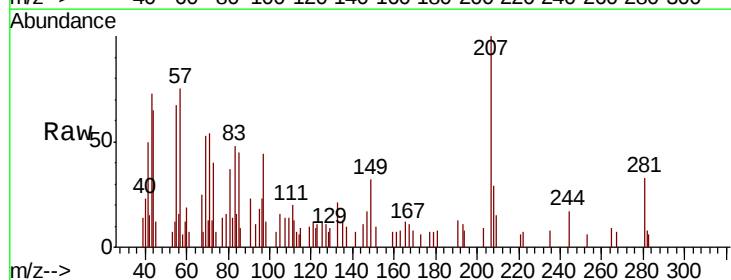
Delta R.T. -0.00 min

Lab File: BG044296.D

Acq: 5 Feb 2020 1:11

Tgt Ion:149 Resp: 604

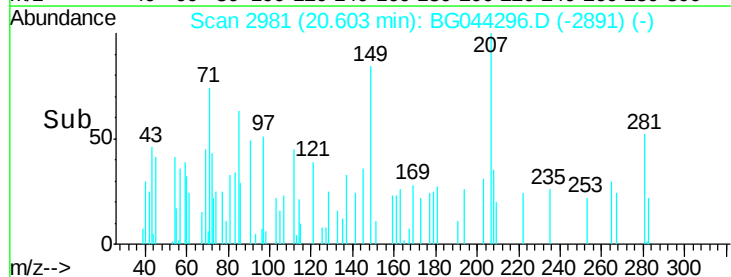
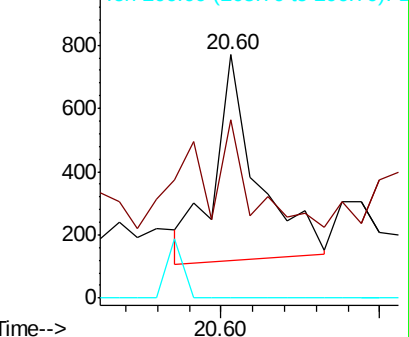
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 91  | 73.2  | 54.5  | 81.7  |
| 206 | 0.0   | 19.1  | 28.7  |

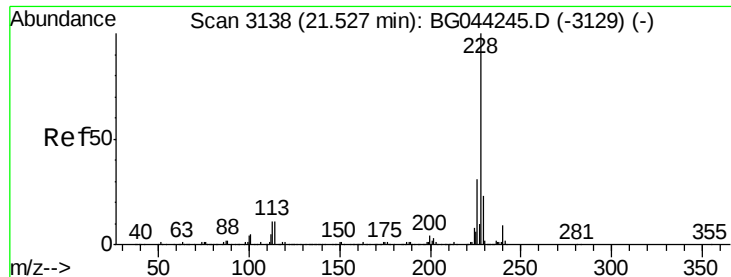


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BG

Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 254.720 ng

RT: 21.53 min Scan# 3139

Delta R.T. 0.00 min

Lab File: BG044296.D

Acq: 5 Feb 2020 1:11

Instrument :

BNA\_G

ClientSampleId :

FB-02032020

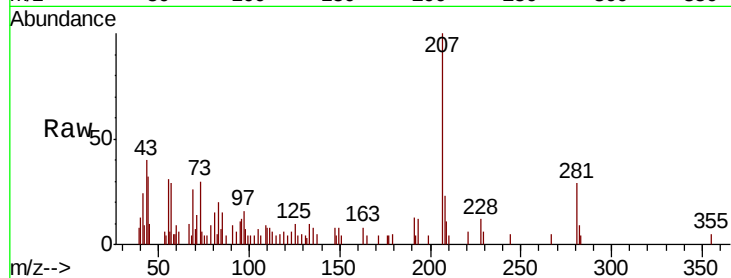
Tot Ion:228 Resp: 1146

Ion Ratio Lower Upper

228 100

226 0.0 24.7 37.1#

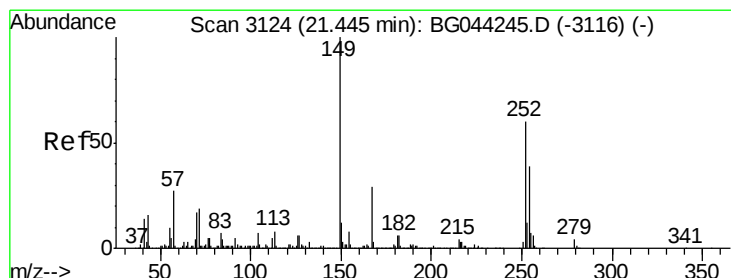
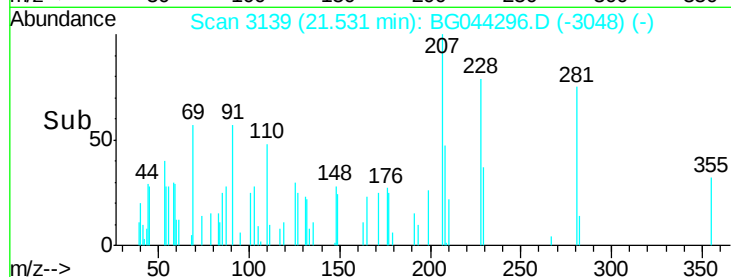
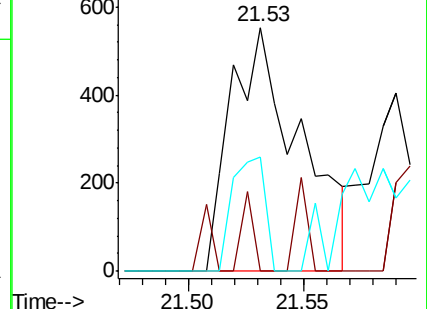
229 46.8 18.2 27.4#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

3,3'-Dichlorobenzidine

Concen: 30.926 ng

RT: 21.47 min Scan# 3128

Delta R.T. 0.02 min

Lab File: BG044296.D

Acq: 5 Feb 2020 1:11

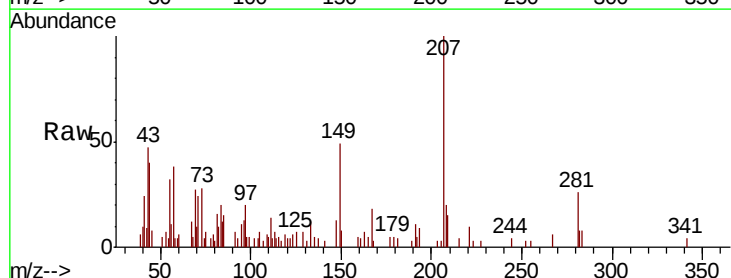
Tgt Ion:252 Resp: 54

Ion Ratio Lower Upper

252 100

254 0.0 52.6 78.8#

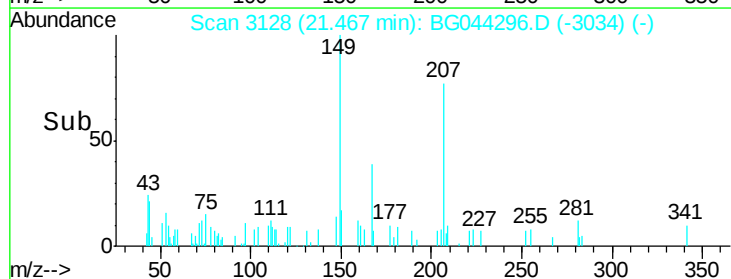
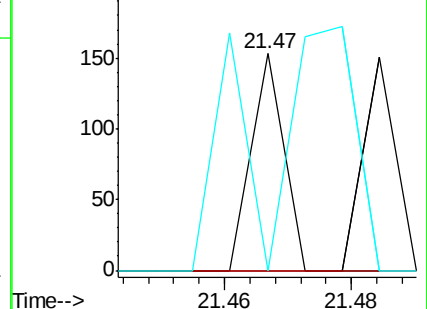
126 0.0 8.2 12.4#

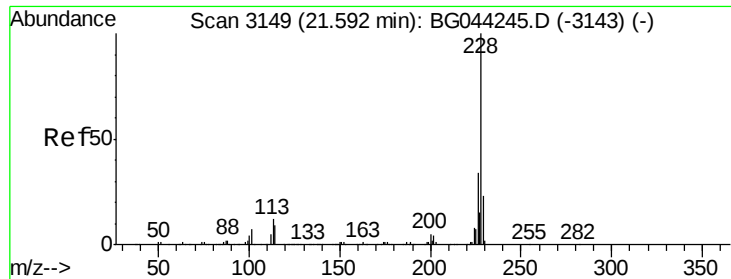


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E

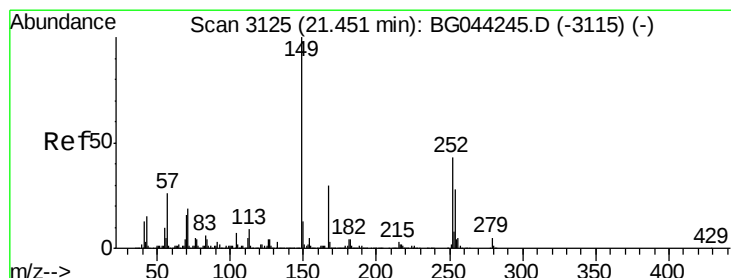
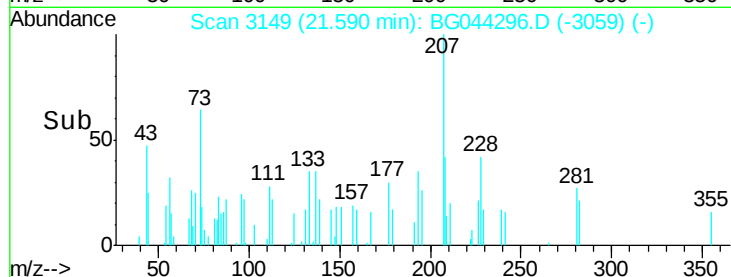
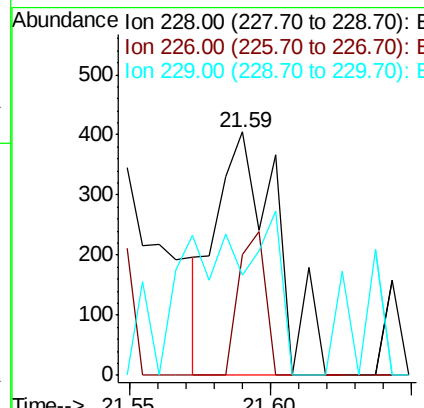
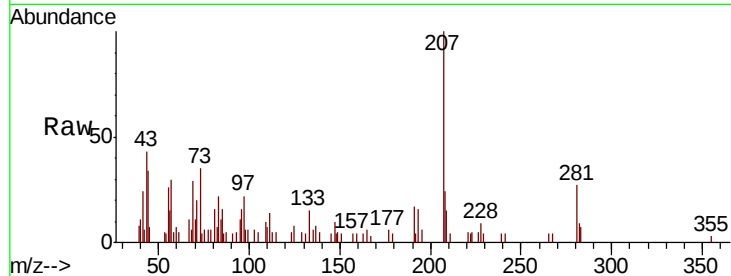




#83  
 Chrysene  
 Concen: 139.580 ng  
 RT: 21.59 min Scan# 3149  
 Delta R.T. -0.00 min  
 Lab File: BG044296.D  
 Acq: 5 Feb 2020 1:11

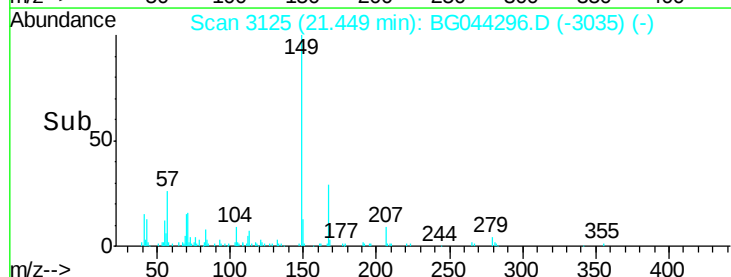
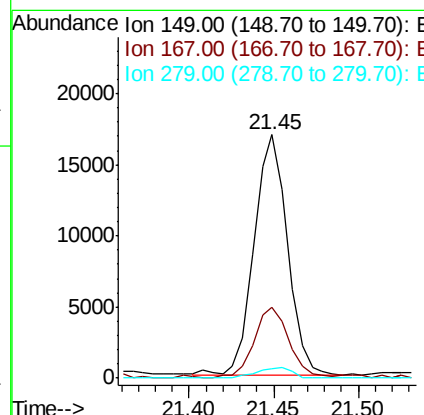
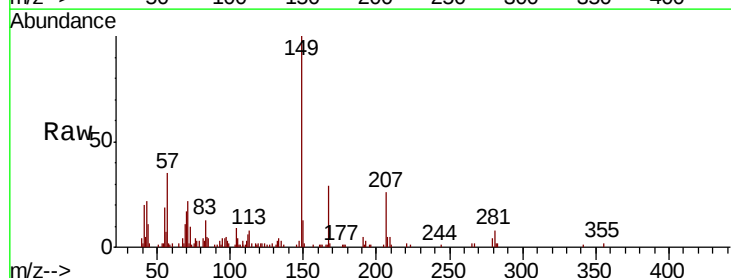
Instrument :  
 BNA\_G  
 ClientSampleID :  
 FB-02032020

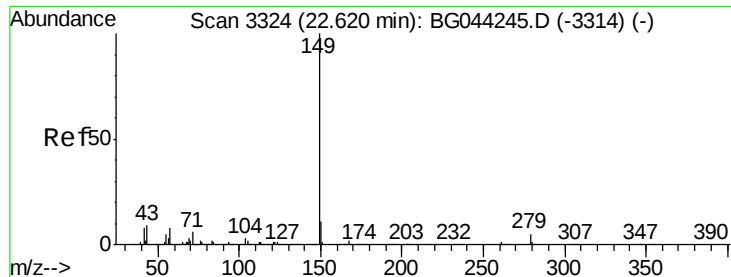
Tot Ion:228 Resp: 607  
 Ion Ratio Lower Upper  
 228 100  
 226 49.6 27.1 40.7#  
 229 41.2 17.9 26.9#



#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 7945.002 ng  
 RT: 21.45 min Scan# 3125  
 Delta R.T. -0.00 min  
 Lab File: BG044296.D  
 Acq: 5 Feb 2020 1:11

Tgt Ion:149 Resp: 23363  
 Ion Ratio Lower Upper  
 149 100  
 167 28.9 24.0 36.0  
 279 3.9 3.8 5.8





#85

Di-n-octyl phthalate

Concen: 73.508 ng

RT: 22.62 min Scan# 3324

Delta R.T. -0.00 min

Lab File: BG044296.D

Acq: 5 Feb 2020 1:11

Instrument :

BNA\_G

ClientSampleId :

FB-02032020

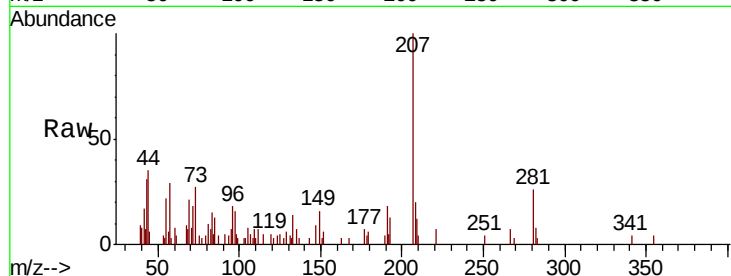
Tot Ion:149 Resp: 374

Ion Ratio Lower Upper

149 100

167 52.7 1.3 1.9#

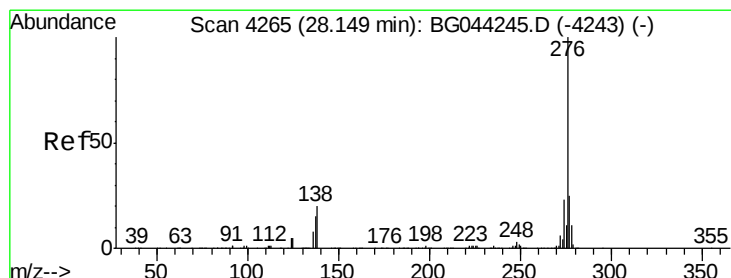
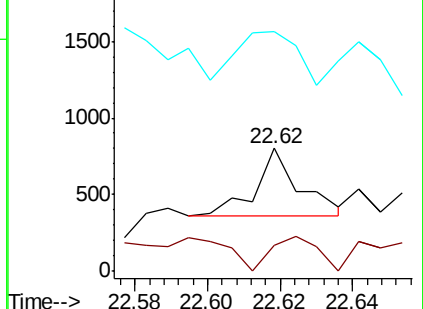
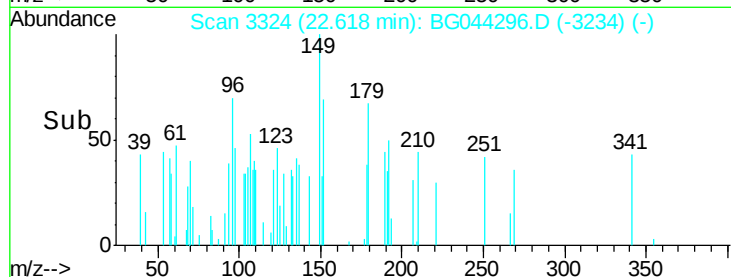
43 0.0 7.4 11.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BGC



#86

Indeno(1,2,3-cd)pyrene

Concen: 12.162 ng

RT: 28.14 min Scan# 4263

Delta R.T. -0.01 min

Lab File: BG044296.D

Acq: 5 Feb 2020 1:11

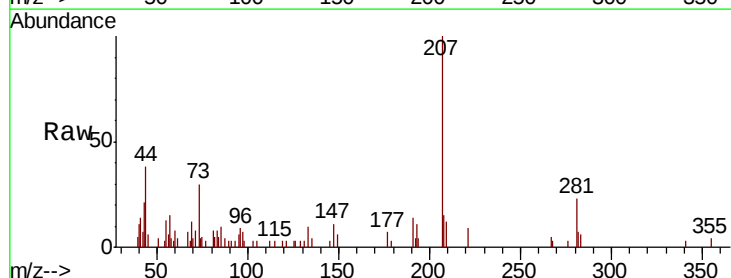
Tgt Ion:276 Resp: 69

Ion Ratio Lower Upper

276 100

138 0.0 19.4 29.0#

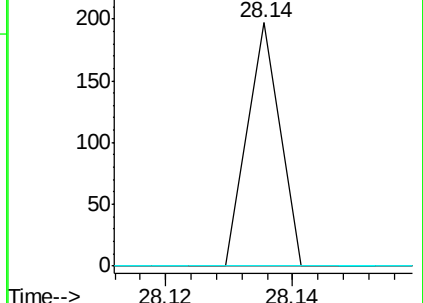
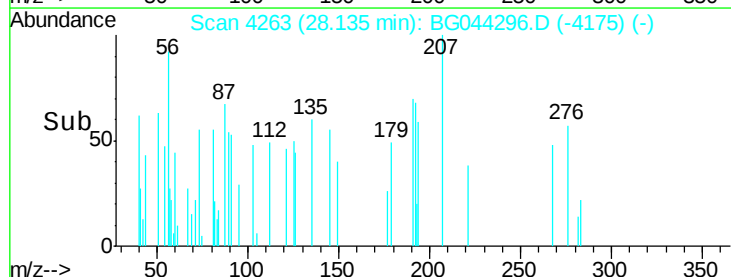
277 0.0 21.0 31.6#

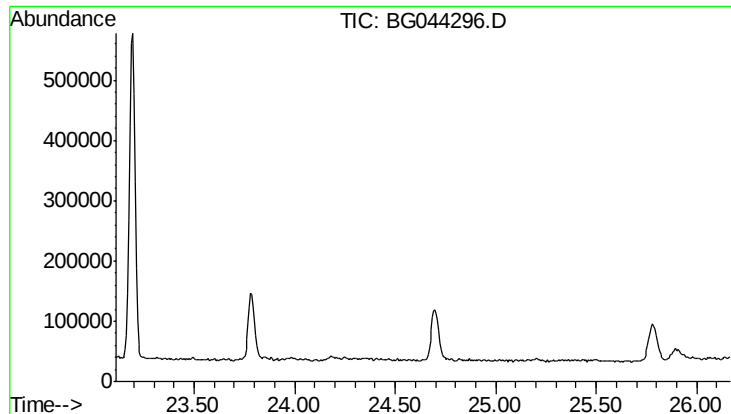


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87  
 Pervlene-d12  
 Concen: 0.000 ng  
 Expected RT: 24.64 min  
 Lab File: BG044296.D  
 Acq: 5 Feb 2020 1:11

Instrument :  
 BNA\_G  
 ClientSampleId :  
 FB-02032020

| Tot Ion | 264       |
|---------|-----------|
| Sig     | Exp Ratio |
| 264     | 100       |
| 260     | 24.3      |
| 265     | 20.9      |

