

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG062819\  
 Data File : BG041534.D  
 Acq On : 29 Jun 2019 5:56  
 Operator : HP/JU  
 Sample : K3555-12  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SAMPLE-9

Quant Time: Jun 29 06:32:38 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG062619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 27 13:25:55 2019  
 Response via : Initial Calibration

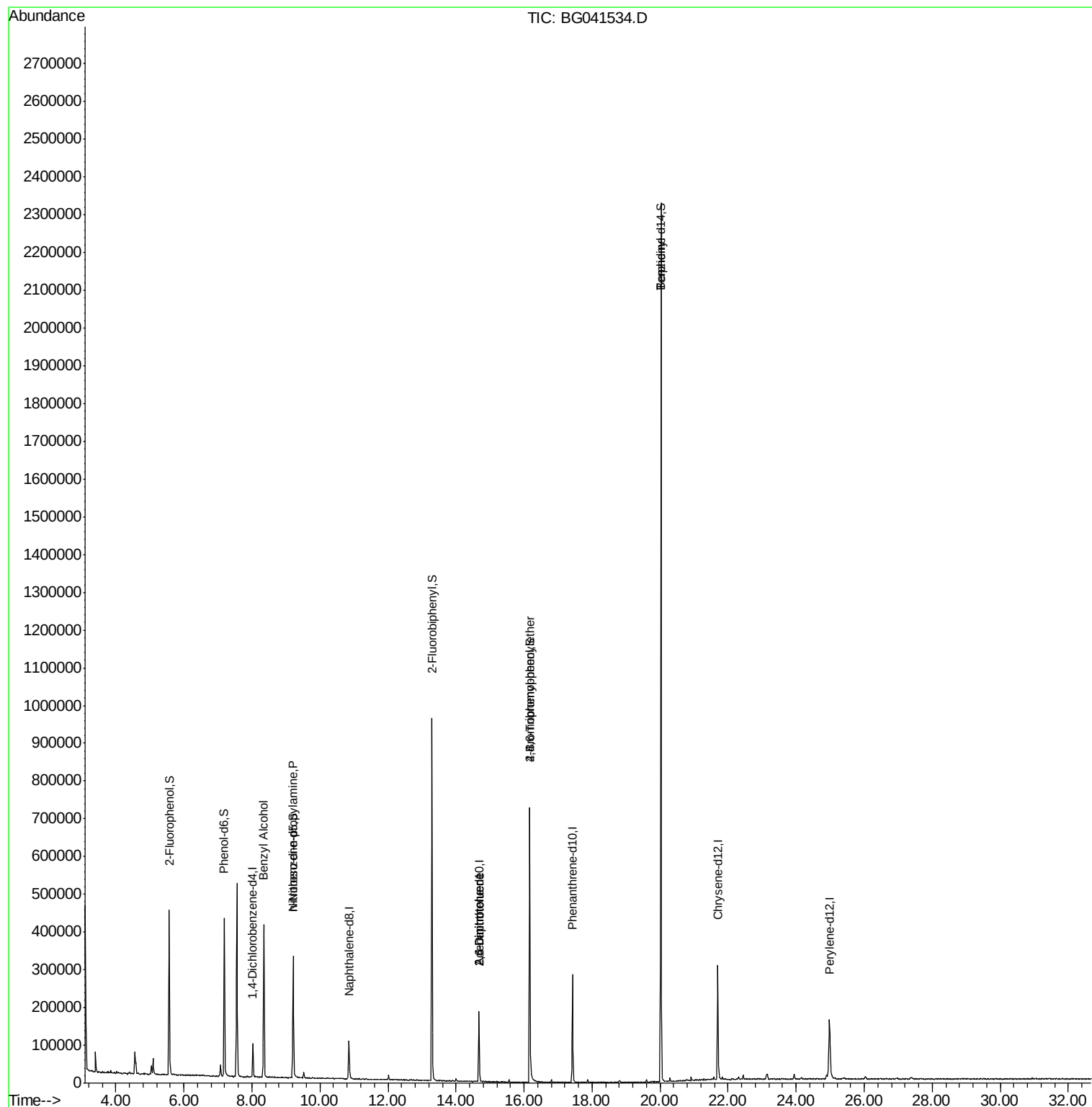
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.03  | 152  | 24527    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.85 | 136  | 88850    | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.68 | 164  | 68234    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.43 | 188  | 191121   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.70 | 240  | 206190   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 24.98 | 264  | 214925   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.56  | 112  | 176157   | 128.05 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.19  | 99   | 222206   | 114.74 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.21  | 82   | 199562   | 93.68  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.17 | 330  | 157203   | 134.93 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.30 | 172  | 494433   | 92.99  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.02 | 244  | 1107970  | 114.19 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 8.35  | 79   | 3652     | 2.368  | ng    | # 63     |
| 19) n-Nitroso-di-n-propylamine | 9.21  | 70   | 29016    | 20.086 | ng    | # 74     |
| 51) 2,6-Dinitrotoluene         | 14.67 | 165  | 8283     | 6.286  | ng    | # 17     |
| 57) 2,4-Dinitrotoluene         | 14.67 | 165  | 8283     | 4.333  | ng    | # 22     |
| 67) 4-Bromophenyl-phenylether  | 16.17 | 248  | 10650    | 4.078  | ng    | # 1      |
| 77) Benzidine                  | 20.02 | 184  | 18873    | 4.125  | ng    | # 92     |

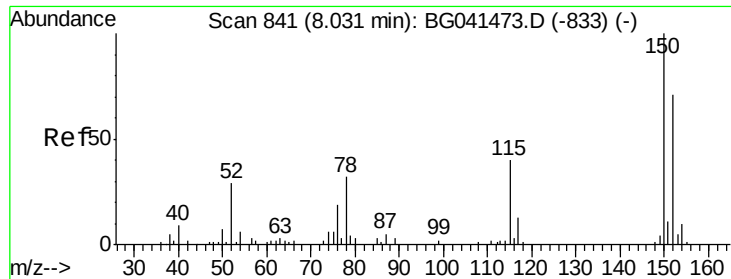
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG062619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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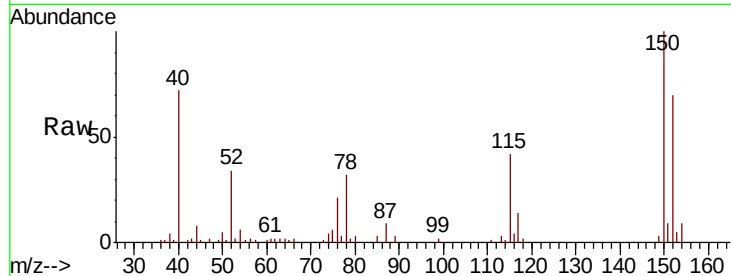


#1

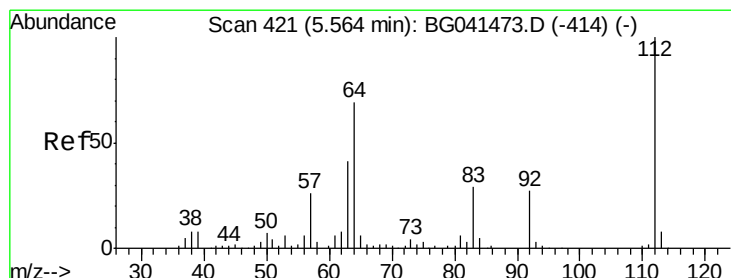
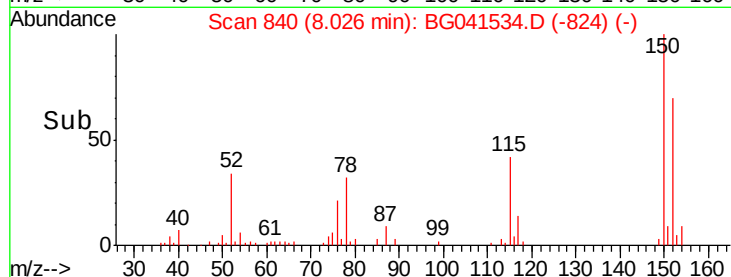
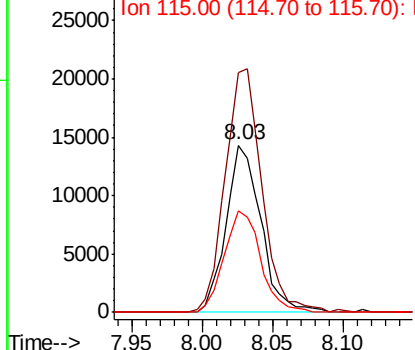
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.03 min Scan# 840  
 Delta R.T. -0.01 min  
 Lab File: BG041534.D  
 Acq: 29 Jun 2019 5:56

Instrument :  
 BNA\_G  
 ClientSampled :  
 SAMPLE-9

Tgt Ion:152 Resp: 24527  
 Ion Ratio Lower Upper  
 152 100  
 150 143.8 112.4 168.6  
 115 60.8 44.6 66.8



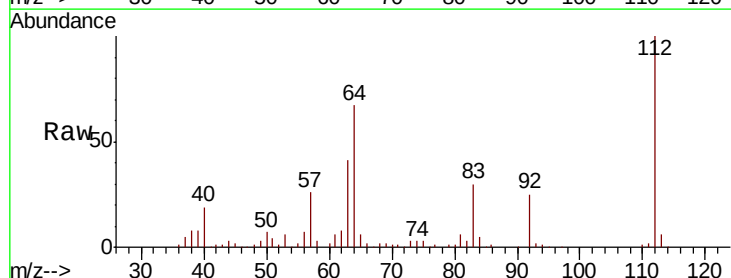
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



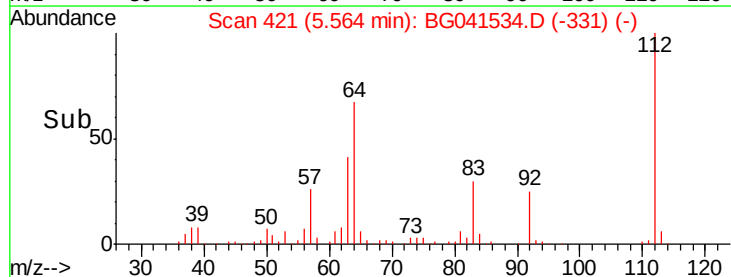
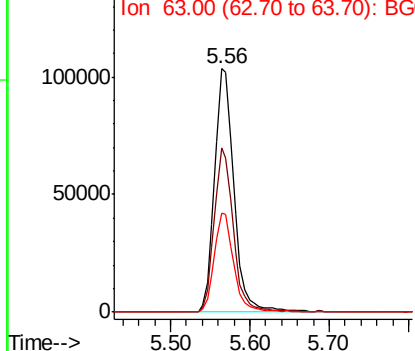
#5

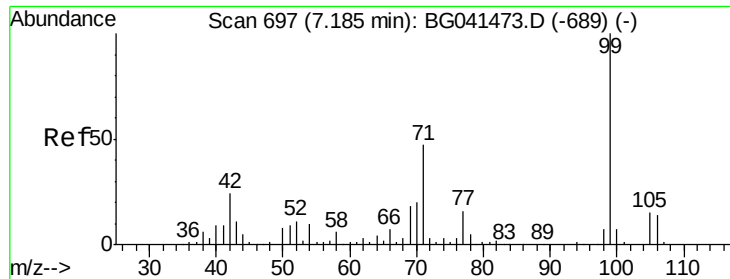
2-Fluorophenol  
 Concen: 128.047 ng  
 RT: 5.56 min Scan# 421  
 Delta R.T. 0.00 min  
 Lab File: BG041534.D  
 Acq: 29 Jun 2019 5:56

Tgt Ion:112 Resp: 176157  
 Ion Ratio Lower Upper  
 112 100  
 64 67.5 55.1 82.7  
 63 40.6 32.4 48.6



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





#7

Phenol-d6

Concen: 114.737 ng

RT: 7.19 min Scan# 697

Delta R.T. 0.00 min

Lab File: BG041534.D

Acq: 29 Jun 2019 5:56

Instrument :

BNA\_G

ClientSampled :

SAMPLE-9

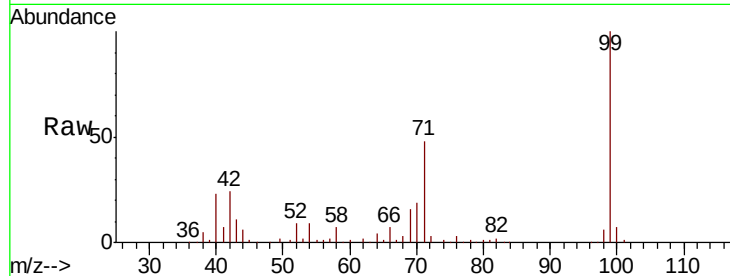
Tgt Ion: 99 Resp: 222206

Ion Ratio Lower Upper

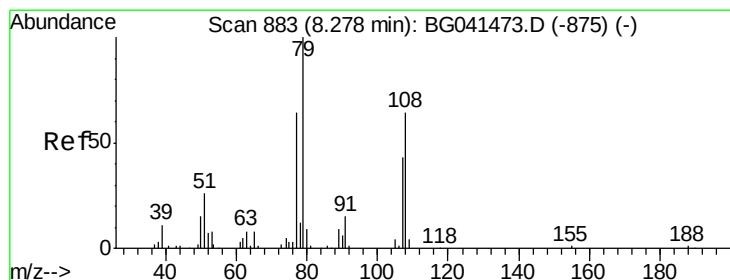
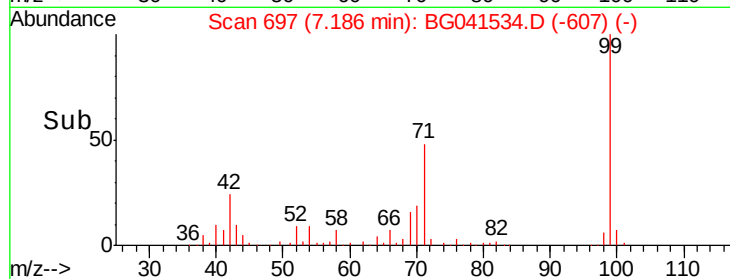
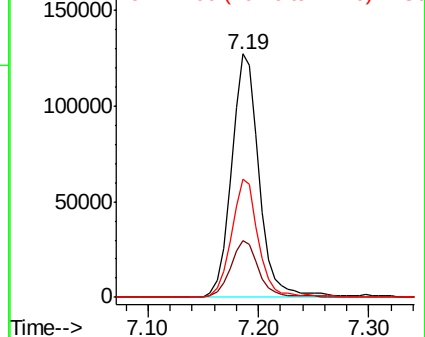
99 100

42 23.5 19.0 28.6

71 48.4 37.4 56.2



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



#15

Benzyl Alcohol

Concen: 2.368 ng

RT: 8.35 min Scan# 895

Delta R.T. 0.07 min

Lab File: BG041534.D

Acq: 29 Jun 2019 5:56

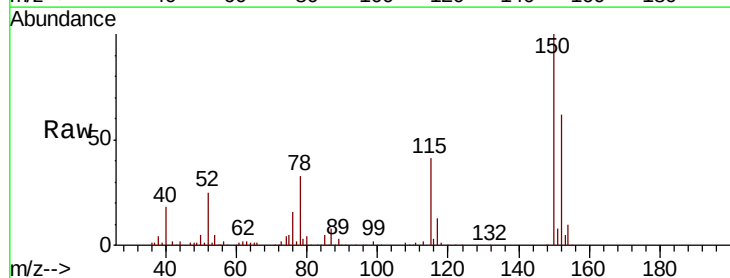
Tgt Ion: 79 Resp: 3652

Ion Ratio Lower Upper

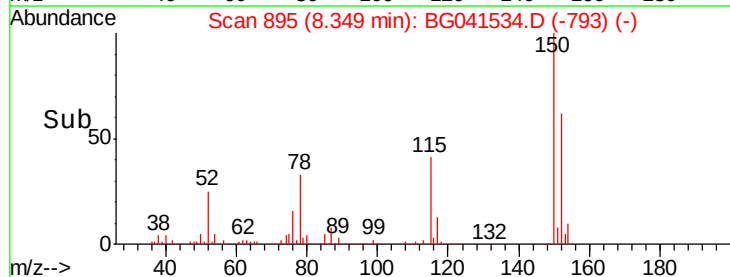
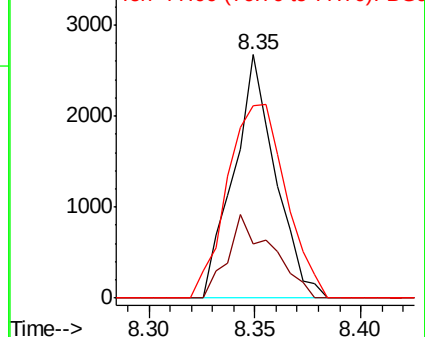
79 100

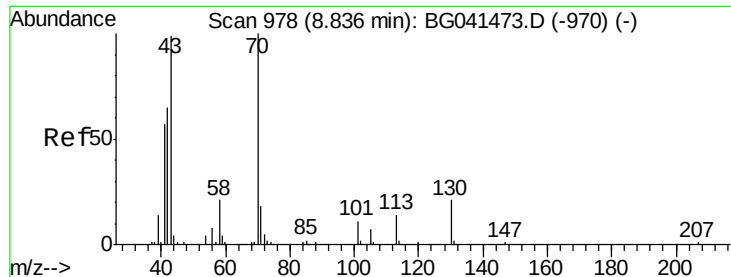
108 22.3 51.4 77.0#

77 79.0 50.8 76.2#



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

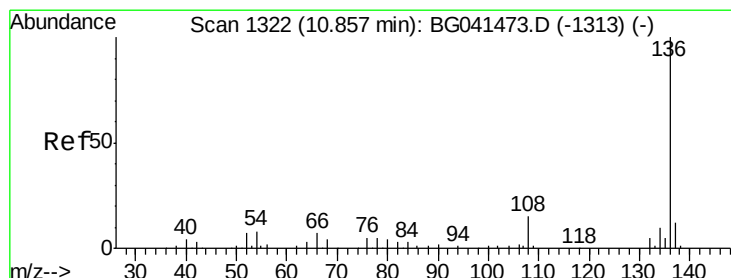
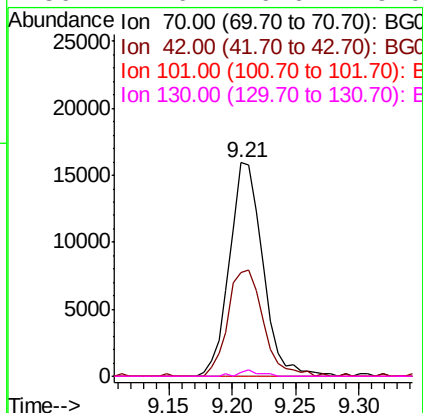
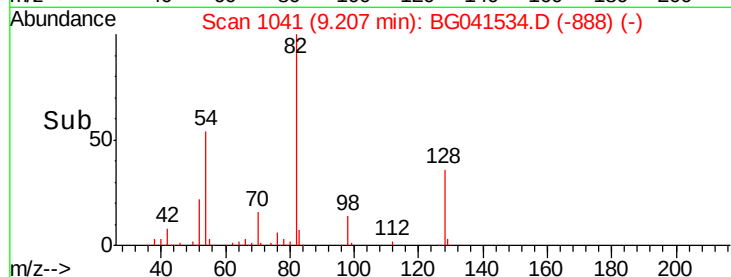
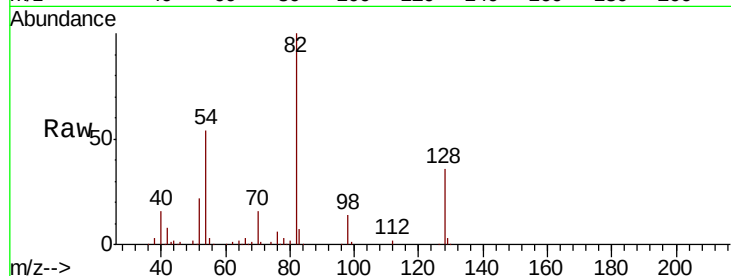




#19  
n-Nitroso-di-n-propylamine  
Concen: 20.086 ng  
RT: 9.21 min Scan# 1041  
Delta R.T. 0.37 min  
Lab File: BG041534.D  
Acq: 29 Jun 2019 5:56

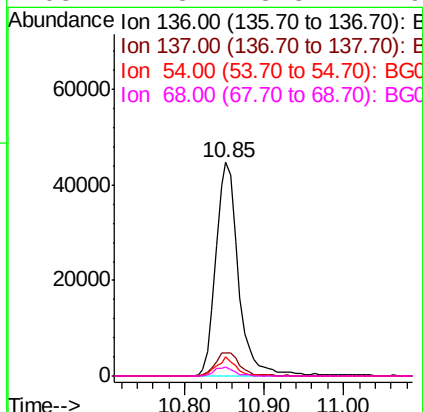
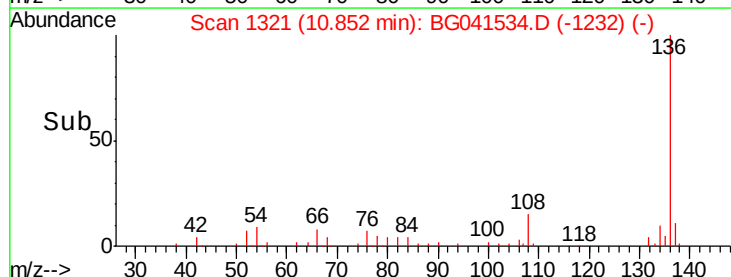
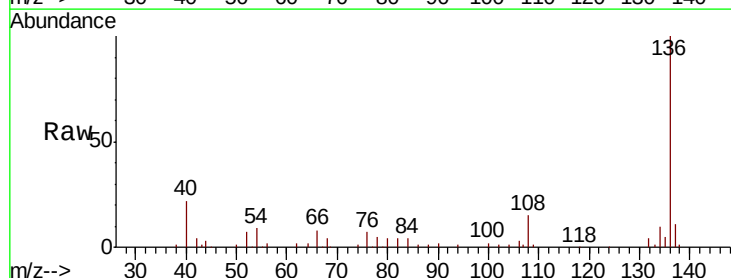
Instrument :  
BNA\_G  
ClientSampleId :  
SAMPLE-9

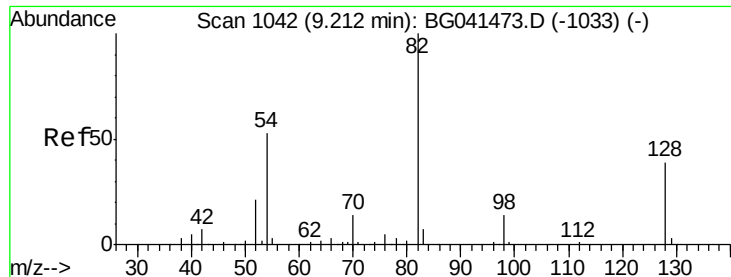
Tgt Ion: 70 Resp: 29016  
Ion Ratio Lower Upper  
70 100  
42 48.8 52.6 78.8#  
101 0.0 8.6 13.0#  
130 1.6 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.85 min Scan# 1321  
Delta R.T. -0.01 min  
Lab File: BG041534.D  
Acq: 29 Jun 2019 5:56

Tgt Ion: 136 Resp: 88850  
Ion Ratio Lower Upper  
136 100  
137 11.0 9.3 13.9  
54 8.9 7.1 10.7  
68 4.3 3.3 4.9

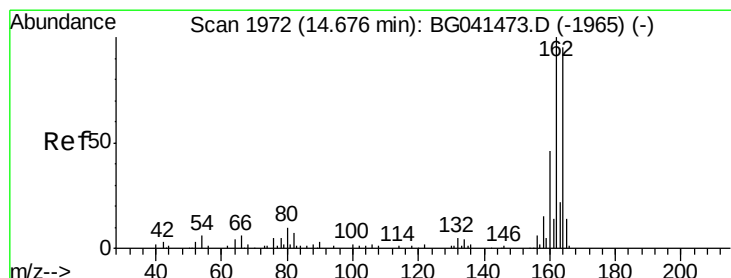
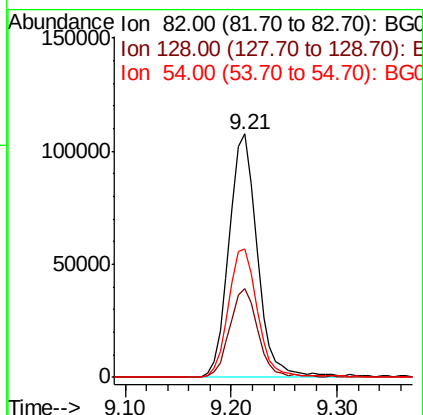
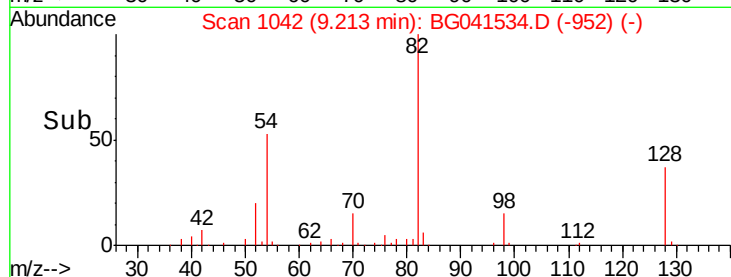
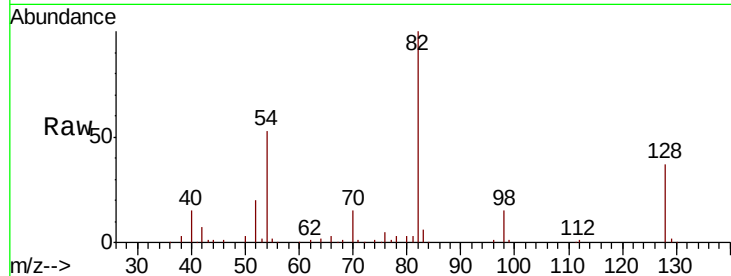




#23  
Nitrobenzene-d5  
Concen: 93.676 ng  
RT: 9.21 min Scan# 1042  
Delta R.T. 0.00 min  
Lab File: BG041534.D  
Acq: 29 Jun 2019 5:56

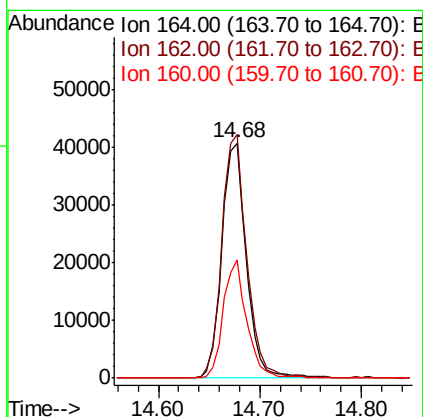
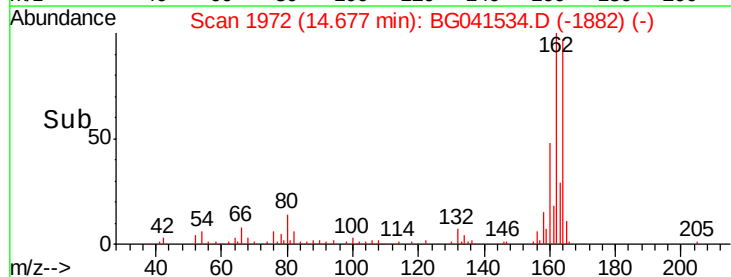
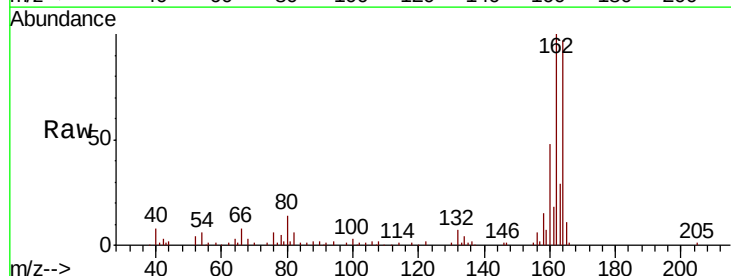
Instrument :  
BNA\_G  
ClientSampleId :  
SAMPLE-9

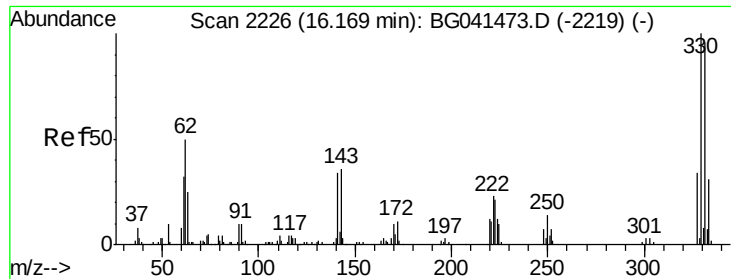
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 36.7  | 30.9  | 46.3  |
| 54      | 53.0  | 42.2  | 63.2  |



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.68 min Scan# 1972  
Delta R.T. 0.00 min  
Lab File: BG041534.D  
Acq: 29 Jun 2019 5:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.6 | 84.4  | 126.6 |
| 160     | 50.2  | 38.8  | 58.2  |

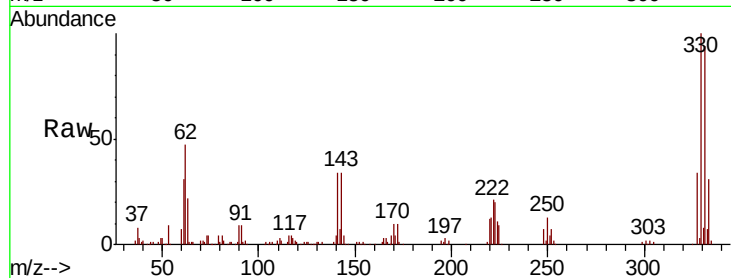




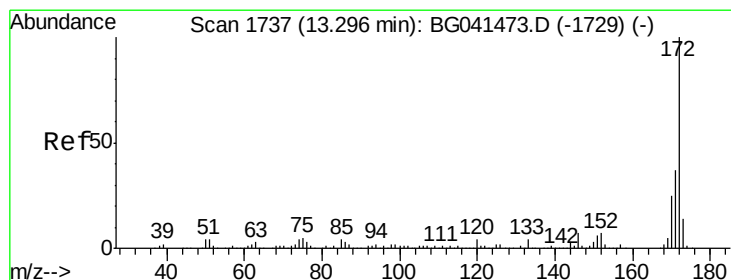
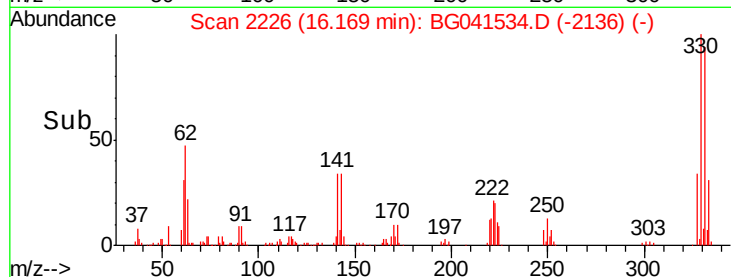
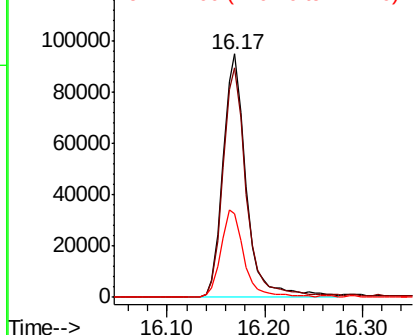
#42  
 2,4,6-Tribromophenol  
 Concen: 134.932 ng  
 RT: 16.17 min Scan# 2226  
 Delta R.T. 0.00 min  
 Lab File: BG041534.D  
 Acq: 29 Jun 2019 5:56

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SAMPLE-9

Tgt Ion:330 Resp: 157203  
 Ion Ratio Lower Upper  
 330 100  
 332 95.8 75.5 113.3  
 141 35.8 27.8 41.6

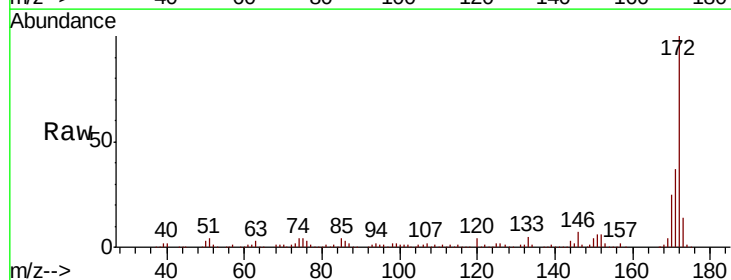


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

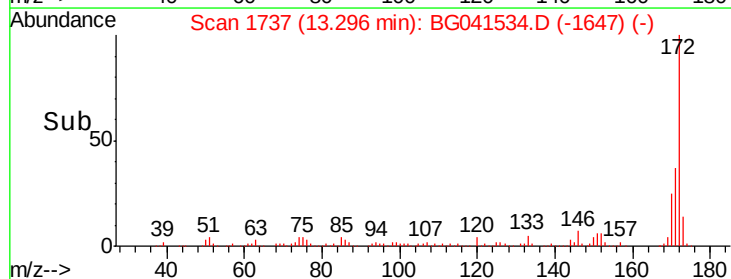
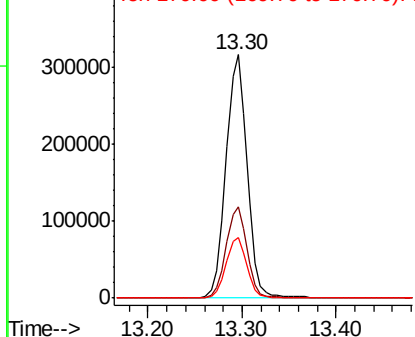


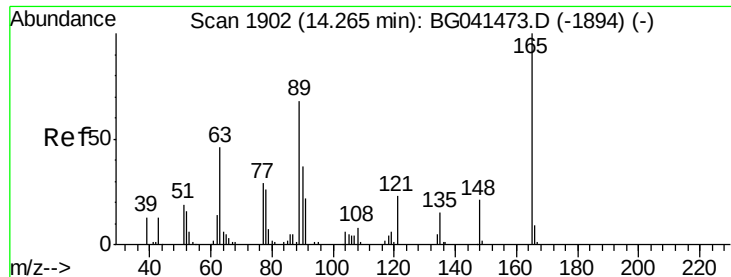
#45  
 2-Fluorobiphenyl  
 Concen: 92.987 ng  
 RT: 13.30 min Scan# 1737  
 Delta R.T. 0.00 min  
 Lab File: BG041534.D  
 Acq: 29 Jun 2019 5:56

Tgt Ion:172 Resp: 494433  
 Ion Ratio Lower Upper  
 172 100  
 171 37.4 29.6 44.4  
 170 25.0 20.0 30.0



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





#51

2,6-Dinitrotoluene

Concen: 6.286 ng

RT: 14.67 min Scan# 1971

Delta R.T. 0.41 min

Lab File: BG041534.D

Acq: 29 Jun 2019 5:56

Instrument :

BNA\_G

ClientSampleId :

SAMPLE-9

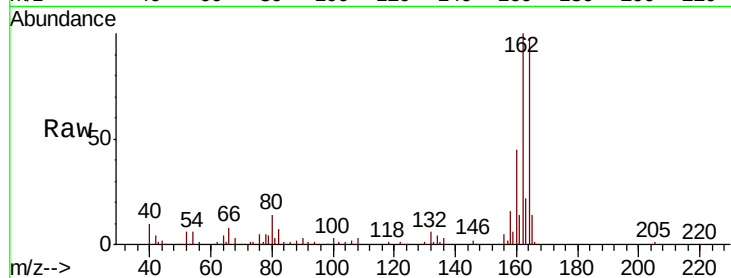
Tgt Ion:165 Resp: 8283

Ion Ratio Lower Upper

165 100

63 2.8 56.4 84.6#

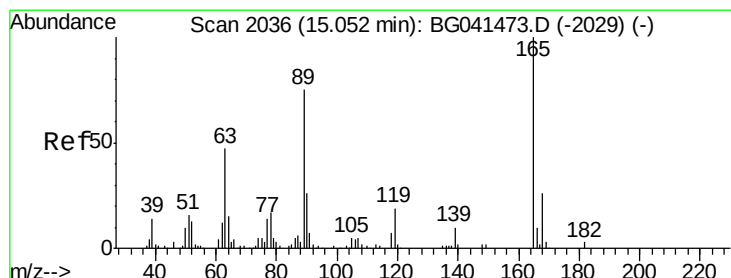
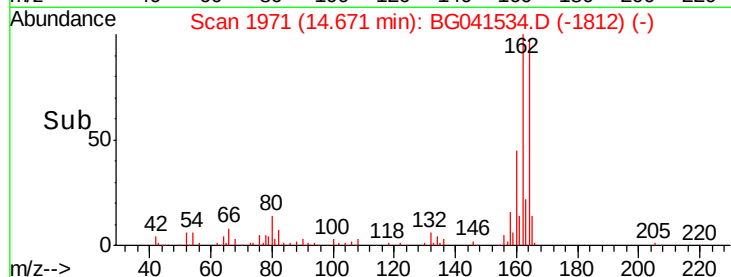
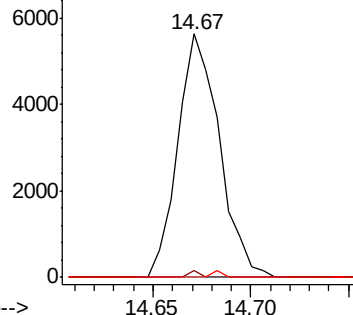
89 0.0 54.6 81.8#



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: 4.333 ng

RT: 14.67 min Scan# 1971

Delta R.T. -0.38 min

Lab File: BG041534.D

Acq: 29 Jun 2019 5:56

Tgt Ion:165 Resp: 8283

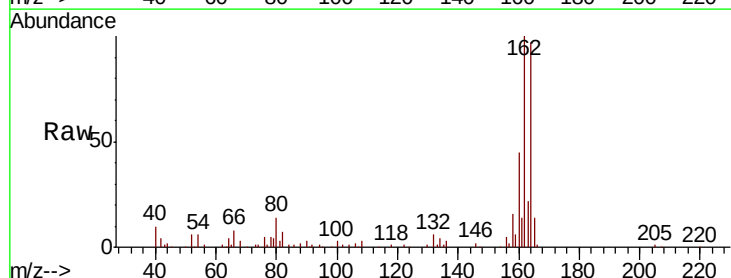
Ion Ratio Lower Upper

165 100

63 2.8 38.8 58.2#

89 0.0 60.1 90.1#

182 0.0 2.2 3.2#

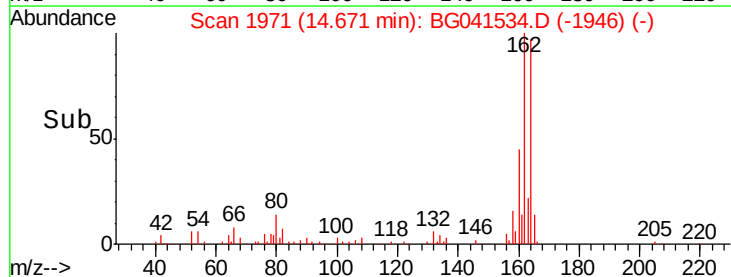
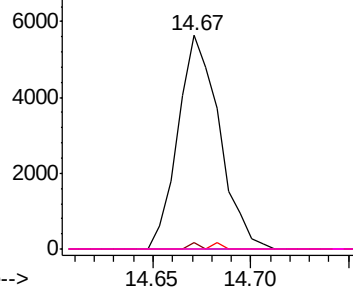


Abundance Ion 165.00 (164.70 to 165.70): E

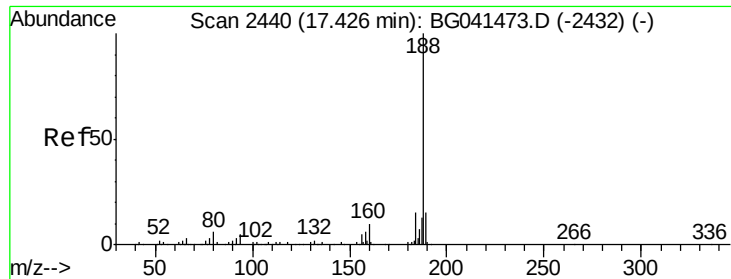
Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



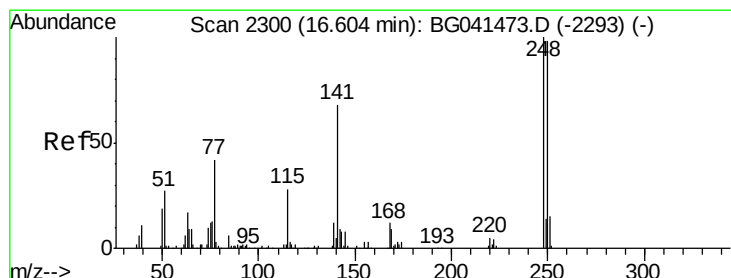
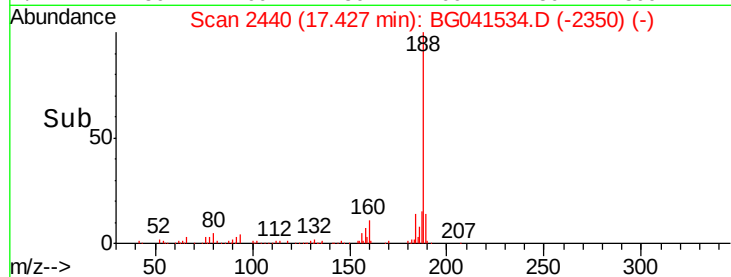
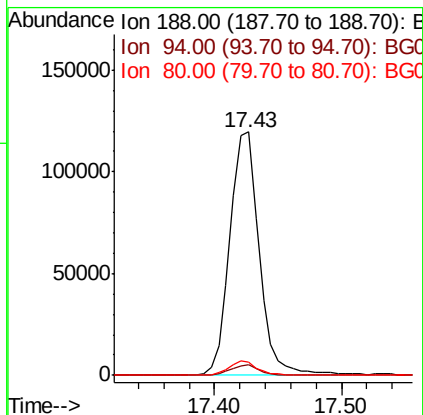
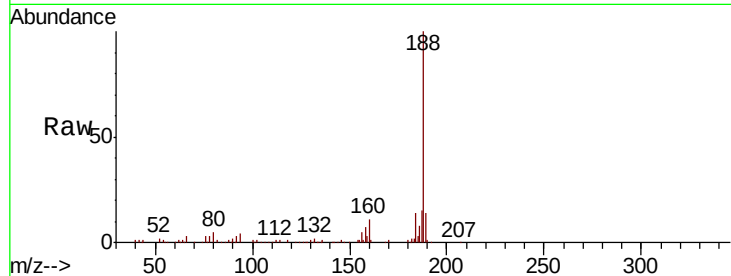




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.43 min Scan# 2440  
Delta R.T. 0.00 min  
Lab File: BG041534.D  
Acq: 29 Jun 2019 5:56

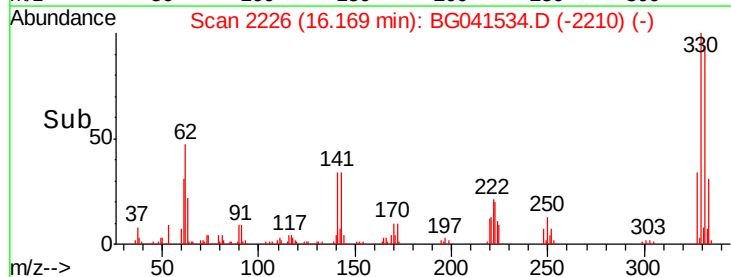
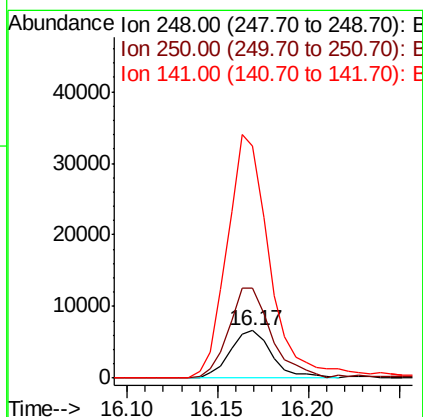
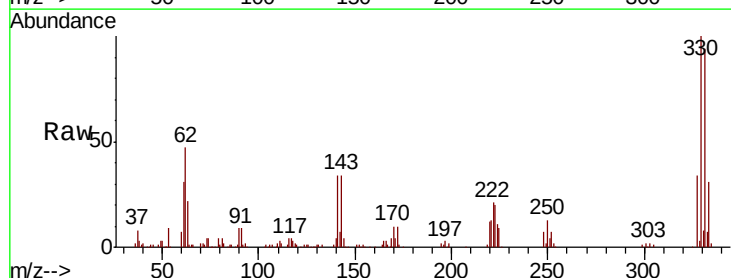
Instrument :  
BNA\_G  
ClientSampleId :  
SAMPLE-9

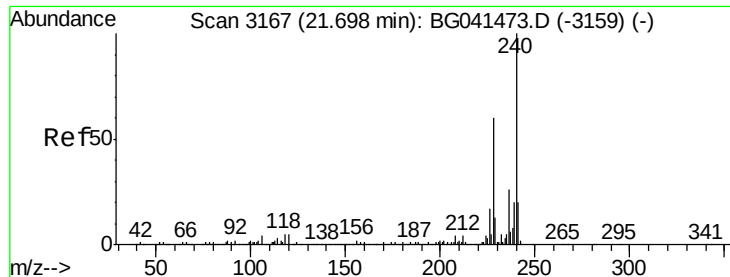
Tgt Ion:188 Resp: 191121  
Ion Ratio Lower Upper  
188 100  
94 4.5 3.8 5.8  
80 5.4 4.8 7.2



#67  
4-Bromophenyl-phenylether  
Concen: 4.078 ng  
RT: 16.17 min Scan# 2226  
Delta R.T. -0.43 min  
Lab File: BG041534.D  
Acq: 29 Jun 2019 5:56

Tgt Ion:248 Resp: 10650  
Ion Ratio Lower Upper  
248 100  
250 189.7 78.1 117.1#  
141 491.3 54.1 81.1#

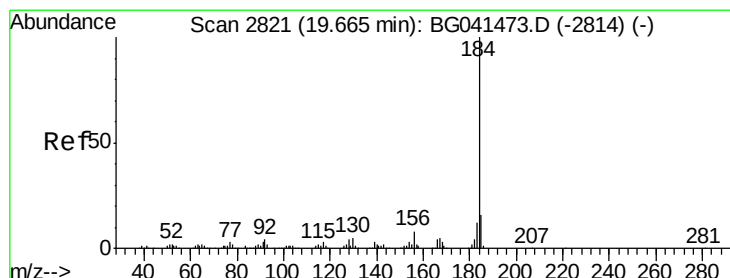
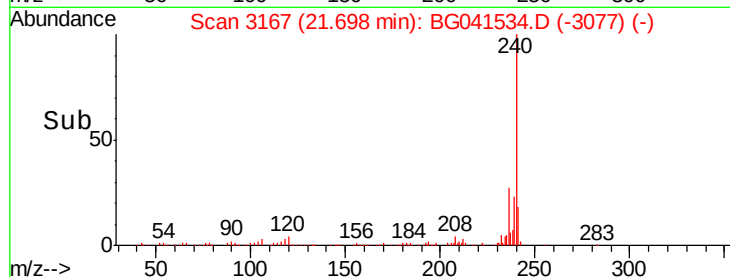
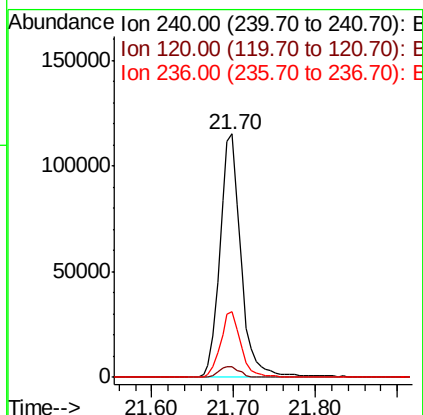
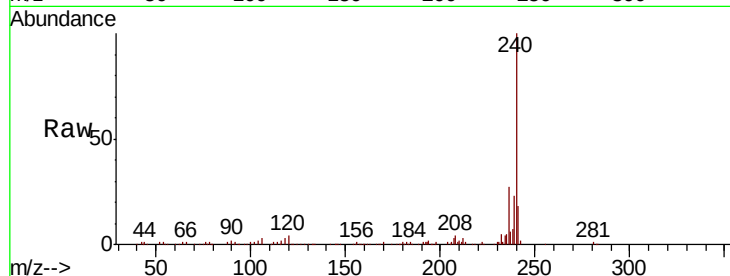




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.70 min Scan# 3167  
 Delta R.T. 0.00 min  
 Lab File: BG041534.D  
 Acq: 29 Jun 2019 5:56

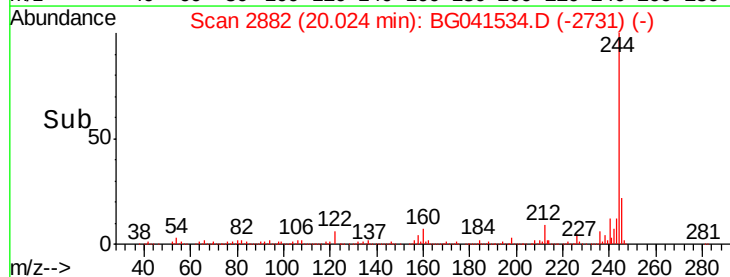
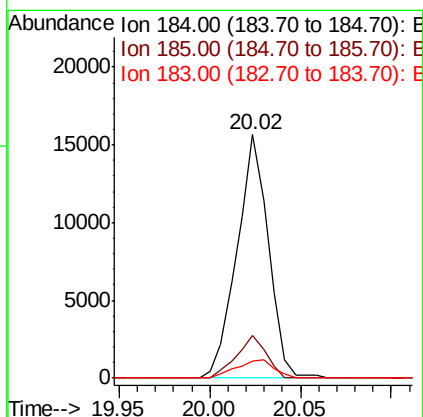
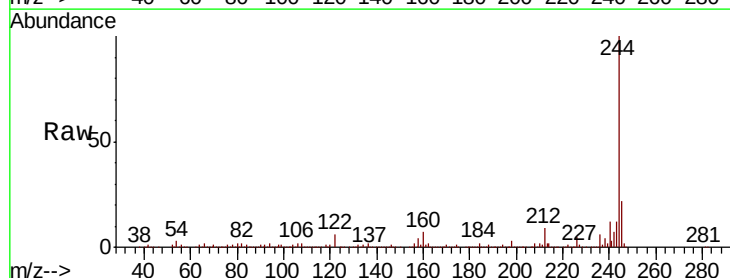
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SAMPLE-9

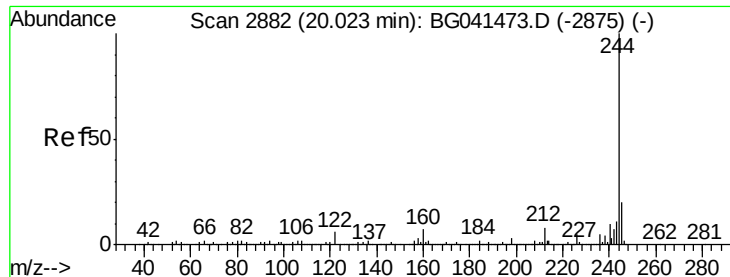
Tgt Ion: 240 Resp: 206190  
 Ion Ratio Lower Upper  
 240 100  
 120 4.2 3.7 5.5  
 236 26.8 20.8 31.2



#77  
 Benzidine  
 Concen: 4.125 ng  
 RT: 20.02 min Scan# 2882  
 Delta R.T. 0.36 min  
 Lab File: BG041534.D  
 Acq: 29 Jun 2019 5:56

Tgt Ion: 184 Resp: 18873  
 Ion Ratio Lower Upper  
 184 100  
 185 17.5 12.7 19.1  
 183 6.9 9.4 14.2#





#79

Terphenyl-d14

Concen: 114.192 ng

RT: 20.02 min Scan# 2882

Delta R.T. 0.00 min

Lab File: BG041534.D

Acq: 29 Jun 2019 5:56

Instrument :

BNA\_G

ClientSampleId :

SAMPLE-9

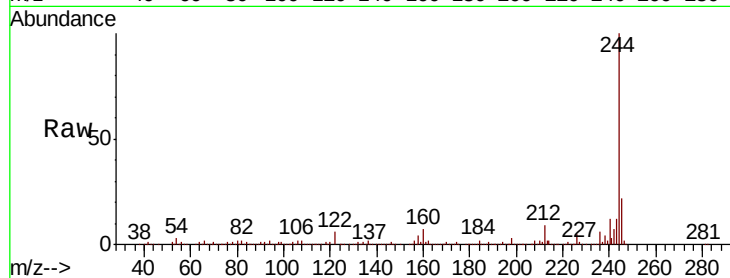
Tgt Ion:244 Resp: 1107970

Ion Ratio Lower Upper

244 100

212 8.5 6.2 9.4

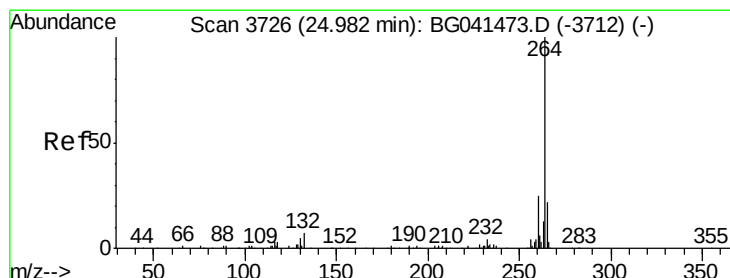
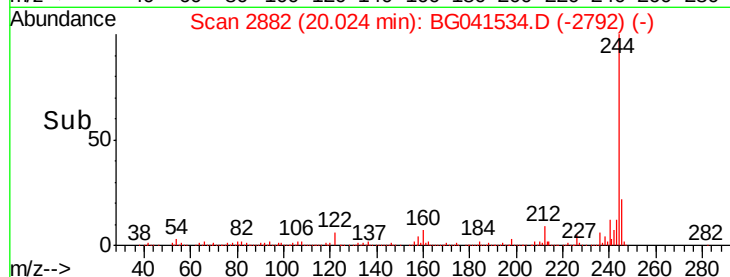
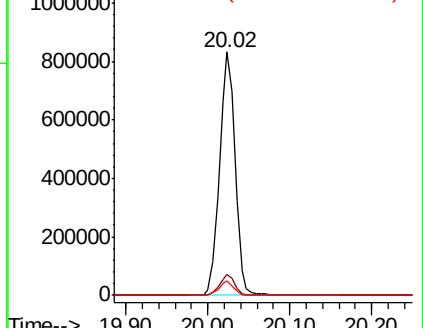
122 6.1 4.8 7.2



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: 24.98 min Scan# 3725

Delta R.T. -0.01 min

Lab File: BG041534.D

Acq: 29 Jun 2019 5:56

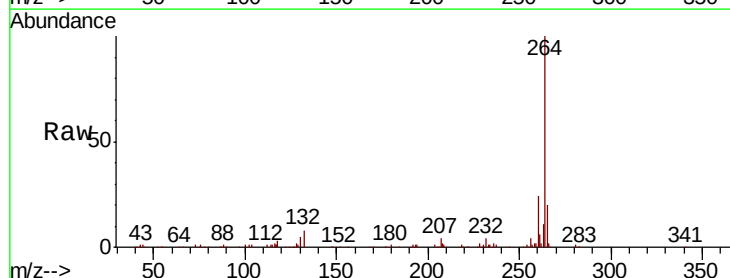
Tgt Ion:264 Resp: 214925

Ion Ratio Lower Upper

264 100

260 23.9 19.7 29.5

265 20.5 17.4 26.2



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

