

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051316\  
 Data File : BF087008.D  
 Acq On : 14 May 2016 9:27  
 Operator : UM/SJ  
 Sample : H2990-01  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OWL-C4-GW

Quant Time: May 16 01:03:48 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 13 14:55:23 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.62  | 152  | 147359   | 20.00 | ng    | -0.08    |
| 21) Naphthalene-d8        | 7.90  | 136  | 566576   | 20.00 | ng    | -0.09    |
| 38) Acenaphthene-d10      | 9.64  | 164  | 284499   | 20.00 | ng    | -0.09    |
| 63) Phenanthrene-d10      | 11.12 | 188  | 499740   | 20.00 | ng    | -0.09    |
| 75) Chrysene-d12          | 13.75 | 240  | 392508   | 20.00 | ng    | -0.09    |
| 86) Perylene-d12          | 15.11 | 264  | 275960   | 20.00 | ng    | -0.10    |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.20  | 112 | 611572  | 70.28  | ng | -0.09 |
| 7) Phenol-d6                | 6.27  | 99  | 553933  | 47.63  | ng | -0.09 |
| 23) Nitrobenzene-d5         | 7.19  | 82  | 1027061 | 91.02  | ng | -0.08 |
| 41) 2,4,6-Tribromophenol    | 10.44 | 330 | 455320  | 151.17 | ng | -0.08 |
| 44) 2-Fluorobiphenyl        | 8.98  | 172 | 1624535 | 95.97  | ng | -0.08 |
| 78) Terphenyl-d14           | 12.72 | 244 | 1679563 | 90.79  | ng | -0.08 |

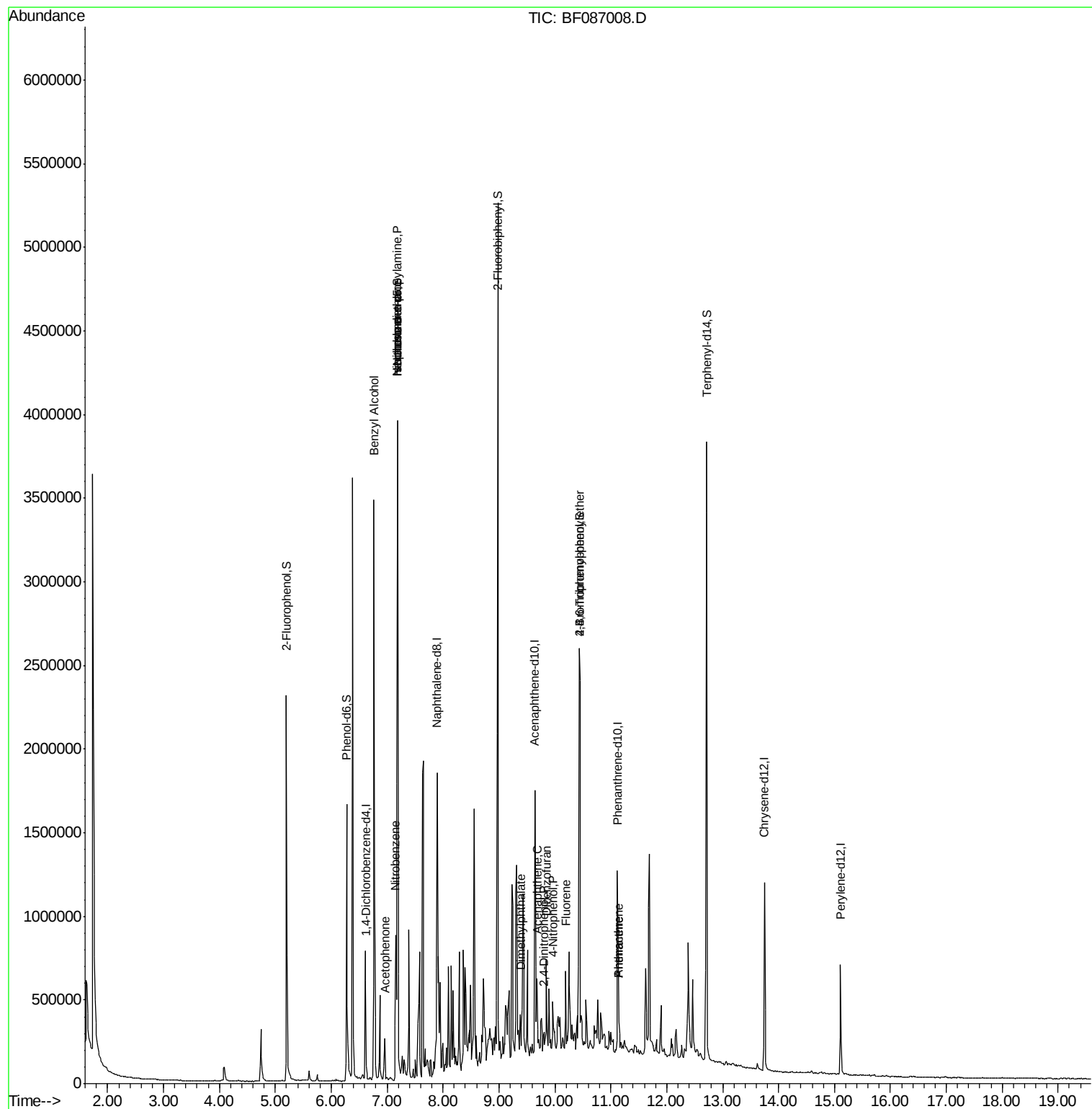
|                                |       |     |         |           |    |        |
|--------------------------------|-------|-----|---------|-----------|----|--------|
| Target Compounds               |       |     |         |           |    | Qvalue |
| 15) Benzyl Alcohol             | 6.76  | 79  | 20435   | 2.54      | ng | # 43   |
| 18) Hexachloroethane           | 7.19  | 117 | 458924  | 105.27    | ng | # 10   |
| 19) n-Nitroso-di-n-propylamine | 7.19  | 70  | 149457  | 18.39     | ng | # 75   |
| 22) Acetophenone               | 6.96  | 105 | 53131   | 3.97      | ng | # 66   |
| 24) Nitrobenzene               | 7.15  | 77  | 62674   | 5.40      | ng | # 14   |
| 25) Isophorone                 | 7.19  | 82  | 1002301 | 47.88     | ng | # 68   |
| 49) Dimethylphthalate          | 9.38  | 163 | 65179   | 3.00      | ng | 99     |
| 51) Acenaphthene               | 9.68  | 154 | 89934   | 5.54      | ng | 98     |
| 53) 2,4-Dinitrophenol          | 9.80  | 184 | 596     | 7.92      | ng | # 1    |
| 54) Dibenzofuran               | 9.85  | 168 | 70938   | 3.41      | ng | # 79   |
| 55) 4-Nitrophenol              | 9.96  | 139 | 5611    | 6.21      | ng | 84     |
| 57) Fluorene                   | 10.19 | 166 | 122249  | 6.88      | ng | 98     |
| 60) 4-Chlorophenyl-phenylether | 10.30 | 204 | 221     | Below Cal | #  | 1      |
| 66) 4-Bromophenyl-phenylether  | 10.44 | 248 | 26214   | 5.17      | ng | # 1    |
| 70) Phenanthrene               | 11.14 | 178 | 70120   | 2.63      | ng | 98     |
| 71) Anthracene                 | 11.14 | 178 | 70120   | 2.57      | ng | 98     |

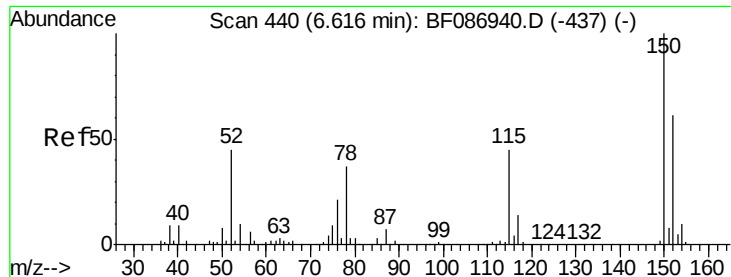
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051316\  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
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QLast Update : Fri May 13 14:55:23 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.62 min Scan# 440

Delta R.T. -0.08 min

Lab File: BF087008.D

Acq: 14 May 2016 9:27

Instrument :

BNA\_F

ClientSampleId :

OWL-C4-GW

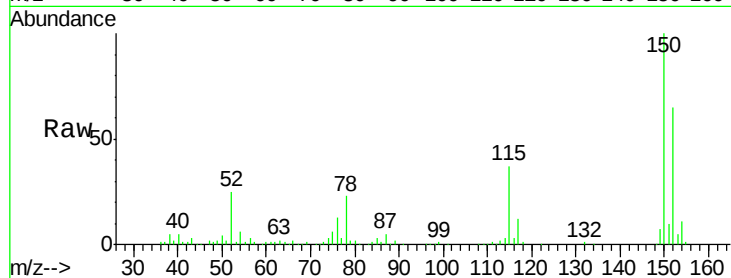
Tgt Ion:152 Resp: 147359

Ion Ratio Lower Upper

152 100

150 153.5 125.8 188.6

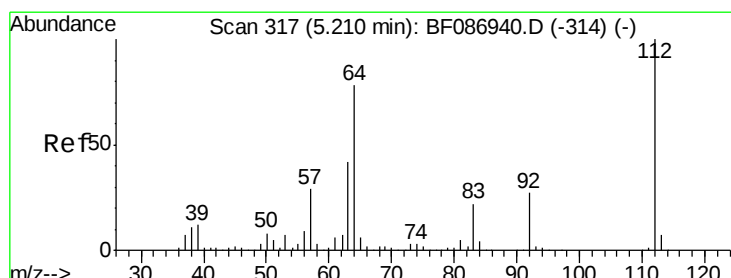
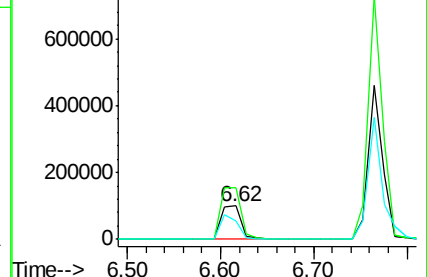
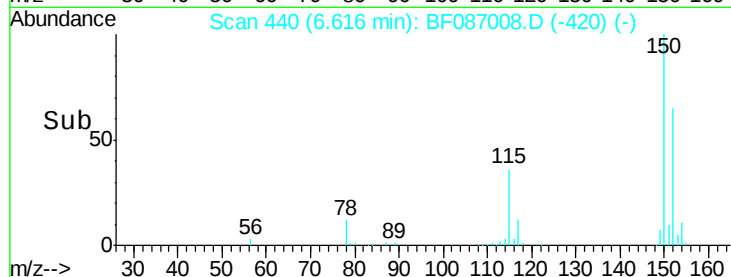
115 56.4 51.5 77.3



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: 70.28 ng

RT: 5.20 min Scan# 316

Delta R.T. -0.09 min

Lab File: BF087008.D

Acq: 14 May 2016 9:27

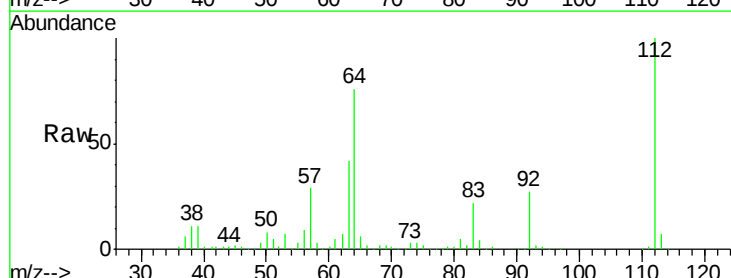
Tgt Ion:112 Resp: 611572

Ion Ratio Lower Upper

112 100

64 75.7 52.1 78.1

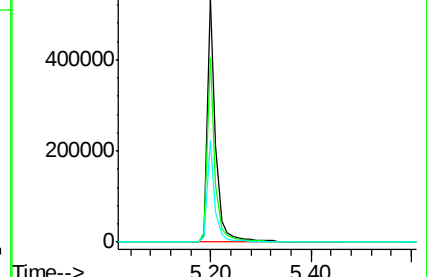
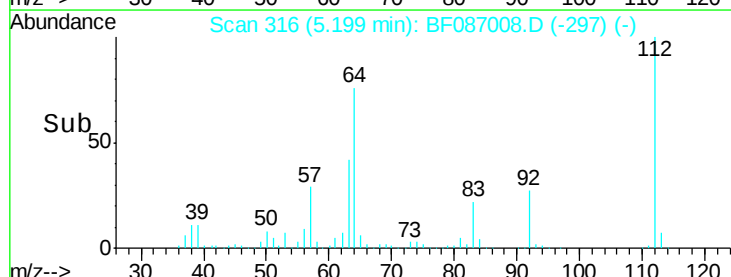
63 41.9 25.7 38.5#

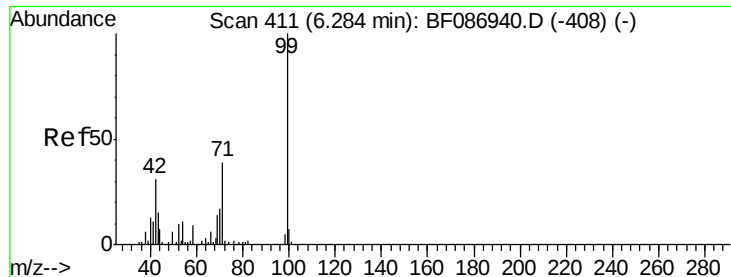


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 47.63 ng

RT: 6.27 min Scan# 410

Delta R.T. -0.09 min

Lab File: BF087008.D

Acq: 14 May 2016 9:27

Instrument :

BNA\_F

ClientSampleId :

OWL-C4-GW

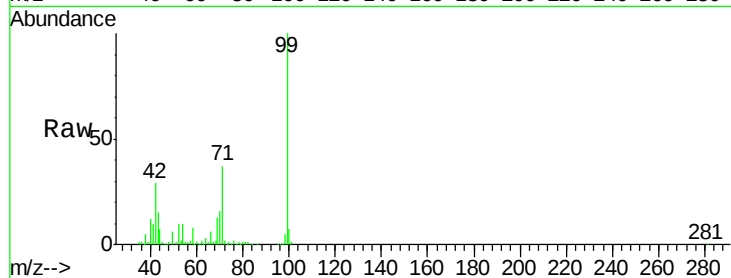
Tgt Ion: 99 Resp: 553933

Ion Ratio Lower Upper

99 100

42 29.3 13.6 20.4#

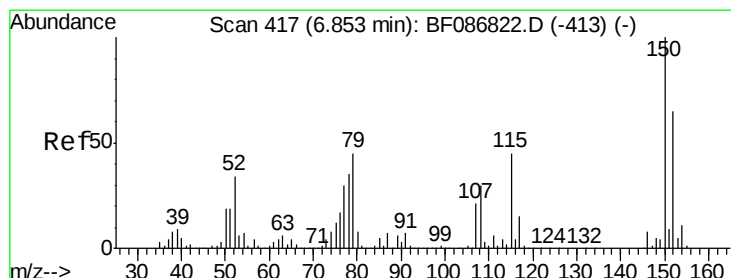
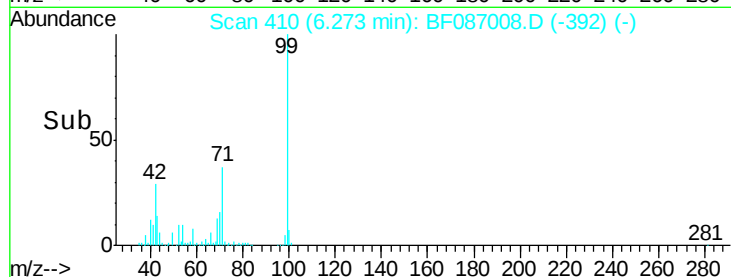
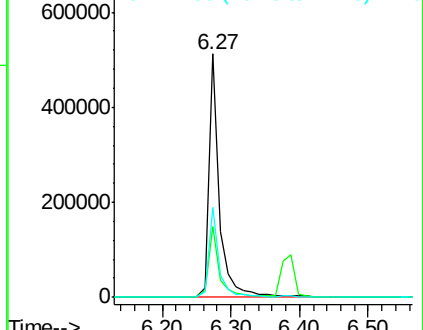
71 36.9 24.6 36.8#



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#15

Benzyl Alcohol

Concen: 2.54 ng

RT: 6.76 min Scan# 453

Delta R.T. -0.09 min

Lab File: BF087008.D

Acq: 14 May 2016 9:27

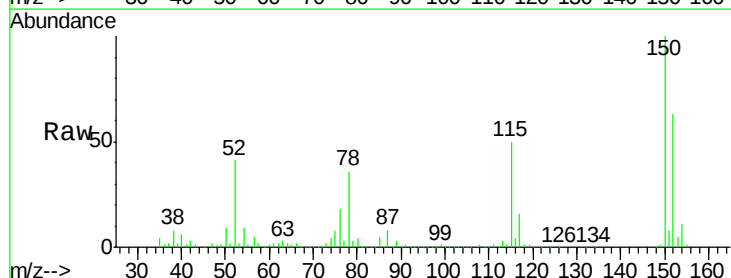
Tgt Ion: 79 Resp: 20435

Ion Ratio Lower Upper

79 100

108 30.3 68.4 102.6#

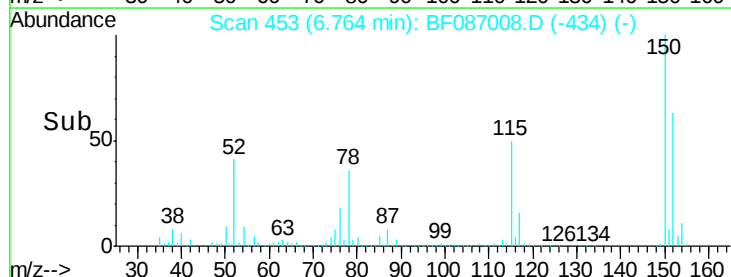
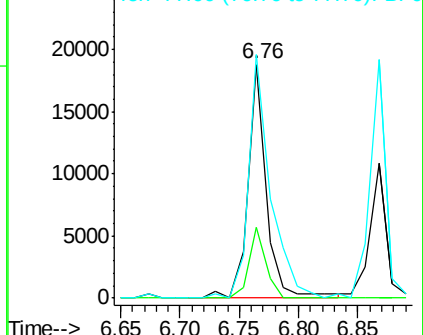
77 104.2 50.6 76.0#

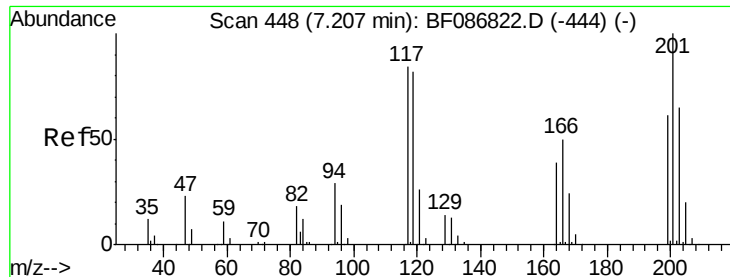


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

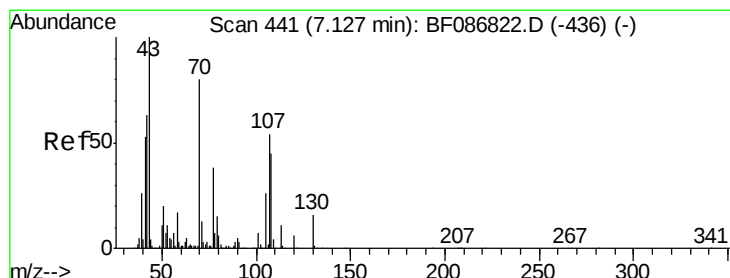
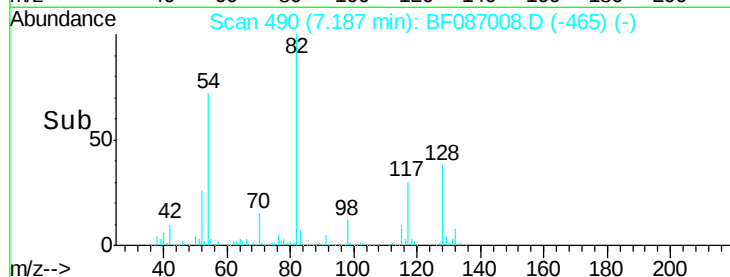
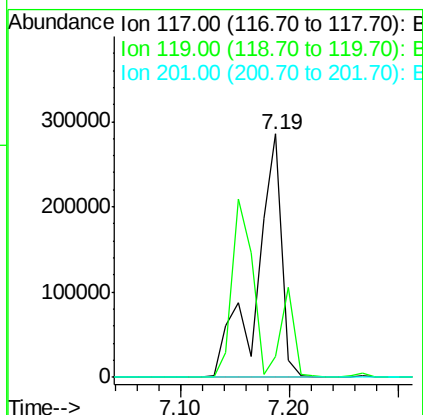
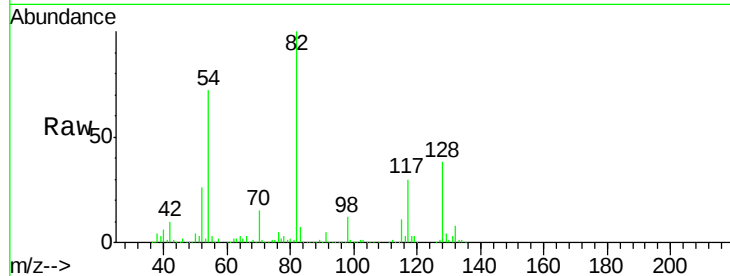




#18  
Hexachloroethane  
Concen: 105.27 ng  
RT: 7.19 min Scan# 490  
Delta R.T. -0.02 min  
Lab File: BF087008.D  
Acq: 14 May 2016 9:27

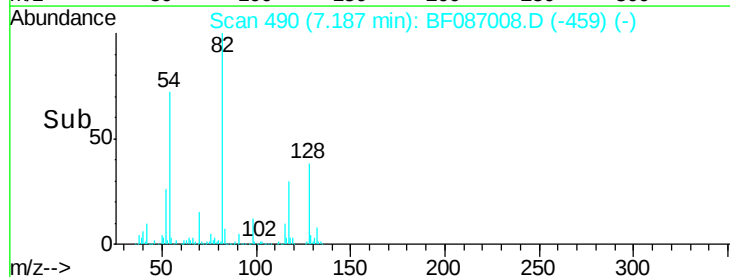
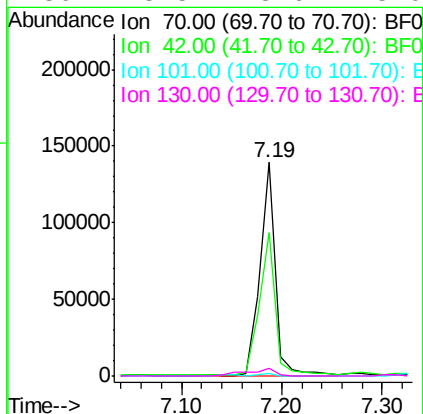
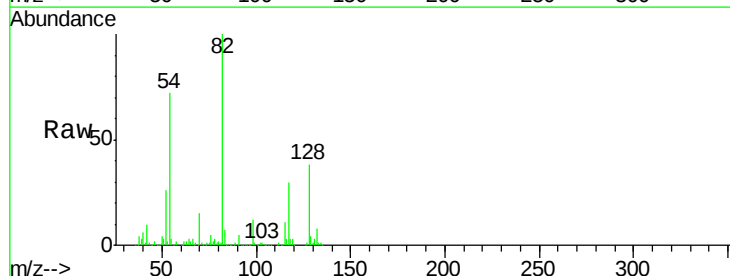
Instrument :  
BNA\_F  
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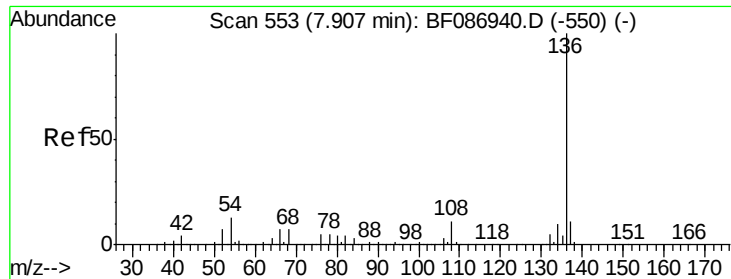
Tgt Ion: 117 Resp: 458924  
Ion Ratio Lower Upper  
117 100  
119 8.4 76.5 114.7#  
201 0.0 63.0 94.6#



#19  
n-Nitroso-di-n-propylamine  
Concen: 18.39 ng  
RT: 7.19 min Scan# 490  
Delta R.T. 0.06 min  
Lab File: BF087008.D  
Acq: 14 May 2016 9:27

Tgt Ion: 70 Resp: 149457  
Ion Ratio Lower Upper  
70 100  
42 67.0 43.1 64.7#  
101 1.1 8.1 12.1#  
130 3.5 18.6 28.0#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.90 min Scan# 552

Delta R.T. -0.09 min

Lab File: BF087008.D

Acq: 14 May 2016 9:27

Instrument :

BNA\_F

ClientSampleId :

OWL-C4-GW

Tgt Ion:136 Resp: 566576

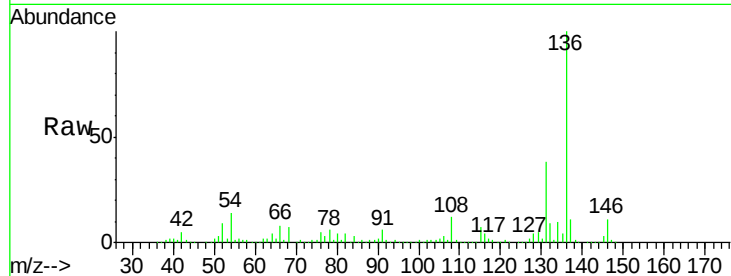
Ion Ratio Lower Upper

136 100

137 11.4 8.8 13.2

54 14.1 5.0 7.4#

68 7.3 4.4 6.6#

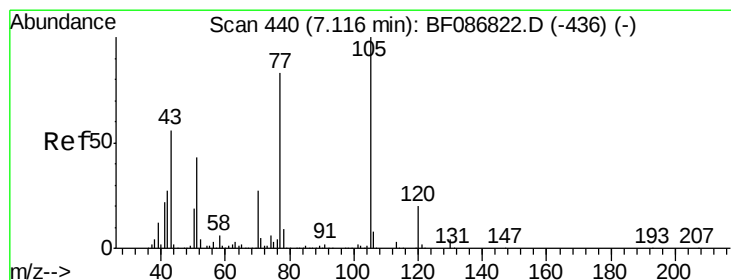
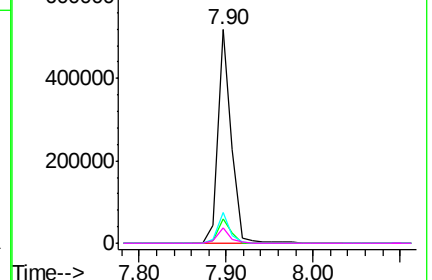
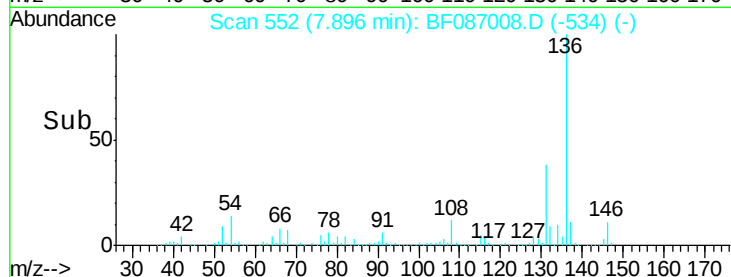


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#22

Acetophenone

Concen: 3.97 ng

RT: 6.96 min Scan# 470

Delta R.T. -0.16 min

Lab File: BF087008.D

Acq: 14 May 2016 9:27

Tgt Ion:105 Resp: 53131

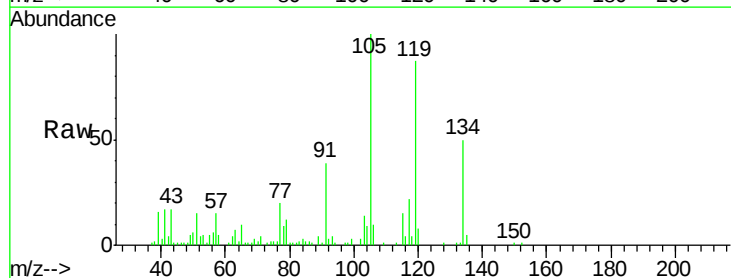
Ion Ratio Lower Upper

105 100

71 4.3 4.8 7.2#

51 15.0 32.6 49.0#

120 8.4 16.5 24.7#

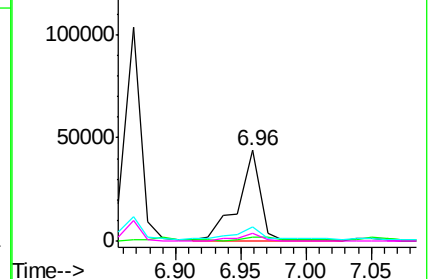
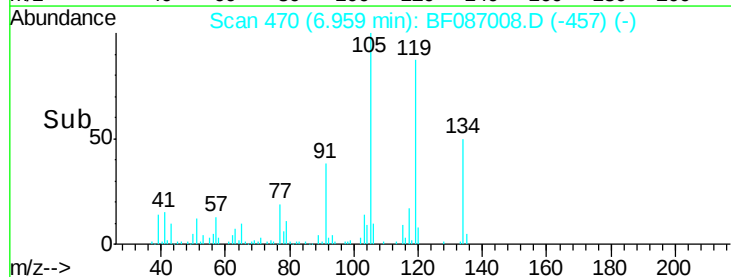


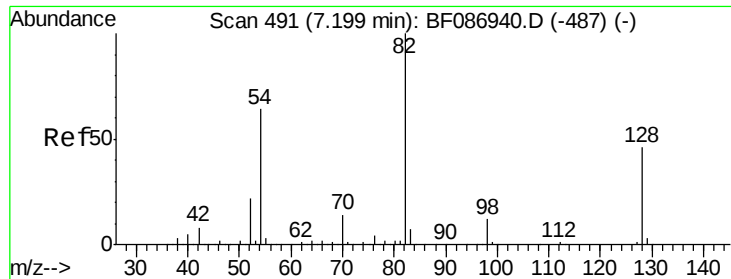
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E

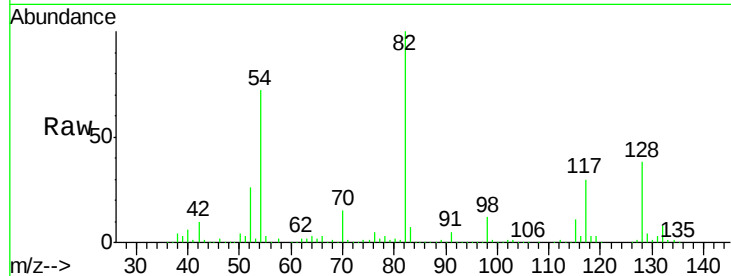




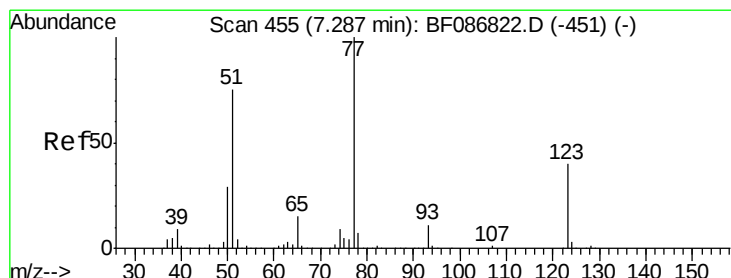
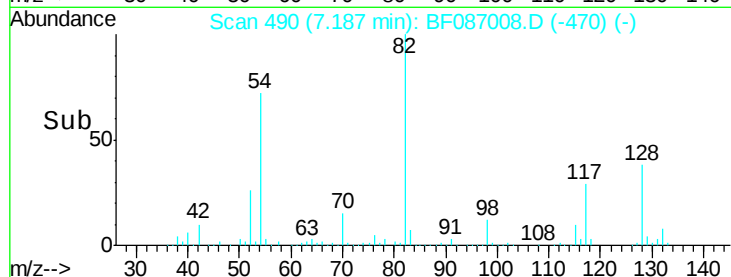
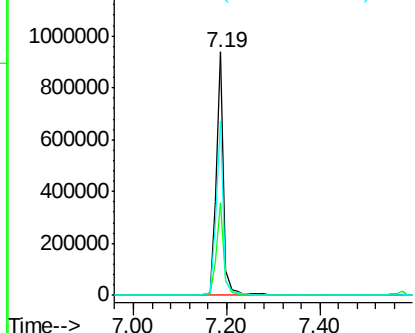
#23  
 Nitrobenzene-d5  
 Concen: 91.02 ng  
 RT: 7.19 min Scan# 490  
 Delta R.T. -0.08 min  
 Lab File: BF087008.D  
 Acq: 14 May 2016 9:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OWL-C4-GW

Tgt Ion: 82 Resp: 1027061  
 Ion Ratio Lower Upper  
 82 100  
 128 38.3 40.6 61.0#  
 54 71.7 38.1 57.1#

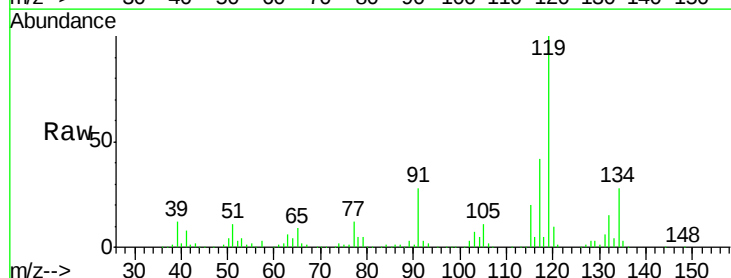


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): B  
 Ion 54.00 (53.70 to 54.70): BF0

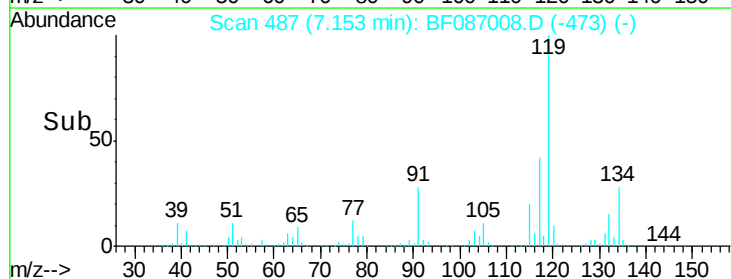
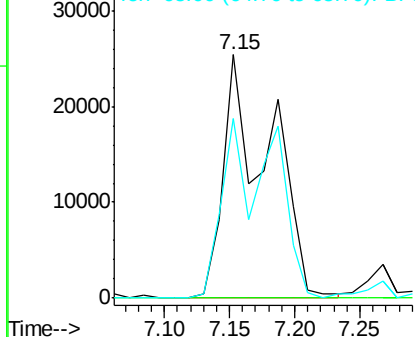


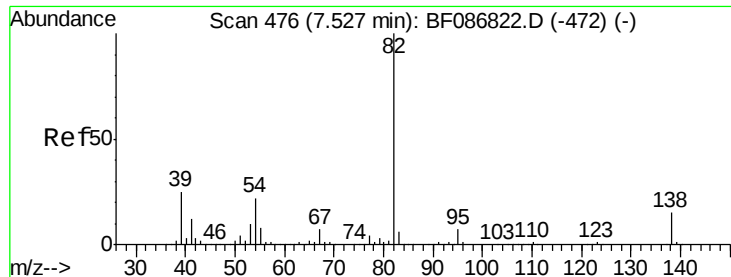
#24  
 Nitrobenzene  
 Concen: 5.40 ng  
 RT: 7.15 min Scan# 487  
 Delta R.T. -0.13 min  
 Lab File: BF087008.D  
 Acq: 14 May 2016 9:27

Tgt Ion: 77 Resp: 62674  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 33.0 49.4#  
 65 73.7 10.8 16.2#



Abundance Ion 77.00 (76.70 to 77.70): BF0  
 Ion 123.00 (122.70 to 123.70): B  
 Ion 65.00 (64.70 to 65.70): BF0

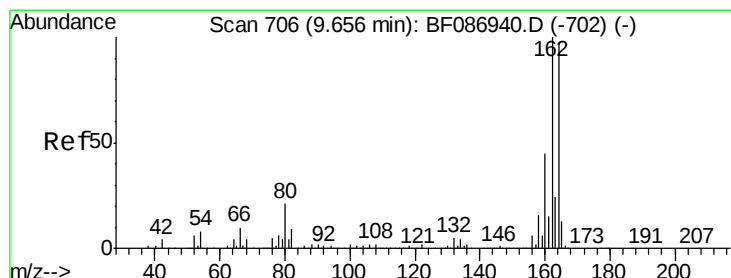
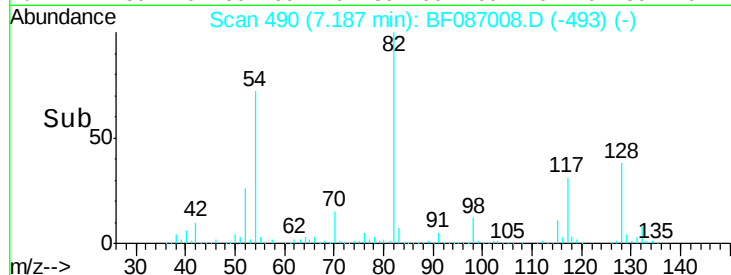
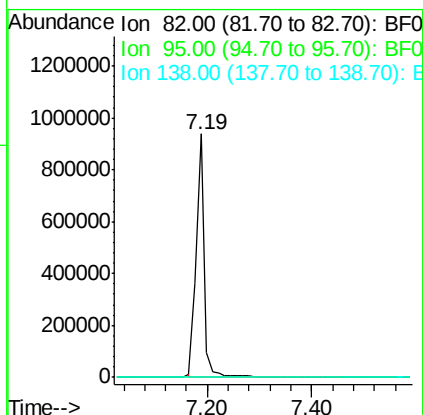
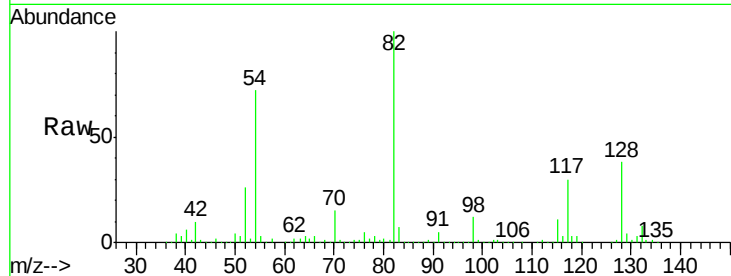




#25  
Isophorone  
Concen: 47.88 ng  
RT: 7.19 min Scan# 490  
Delta R.T. -0.34 min  
Lab File: BF087008.D  
Acq: 14 May 2016 9:27

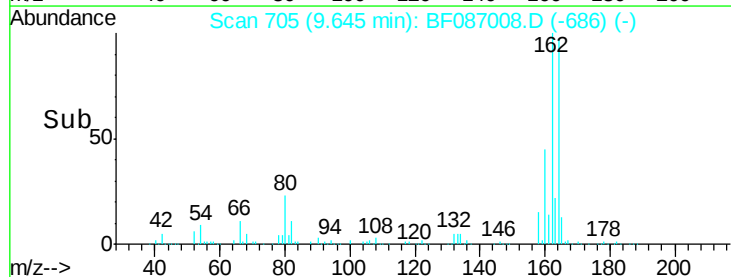
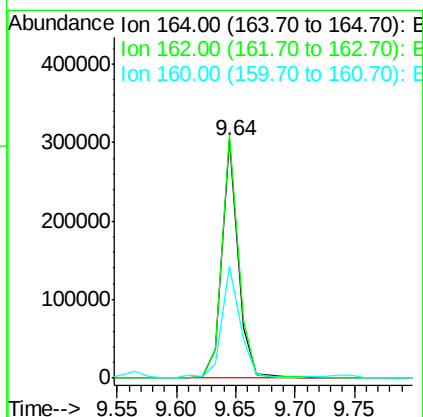
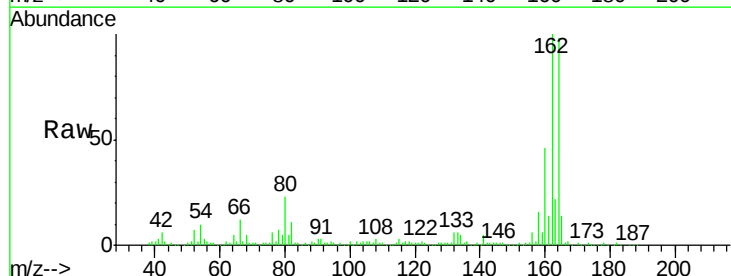
Instrument :  
BNA\_F  
ClientSampleId :  
OWL-C4-GW

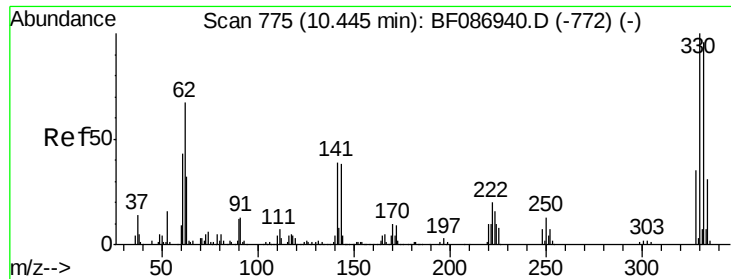
Tgt Ion: 82 Resp: 1002301  
Ion Ratio Lower Upper  
82 100  
95 0.1 5.1 7.7#  
138 0.0 12.4 18.6#



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.64 min Scan# 705  
Delta R.T. -0.09 min  
Lab File: BF087008.D  
Acq: 14 May 2016 9:27

Tgt Ion: 164 Resp: 284499  
Ion Ratio Lower Upper  
164 100  
162 102.3 82.8 124.2  
160 47.0 36.9 55.3

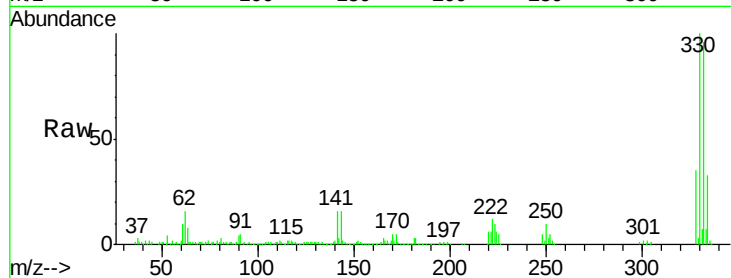




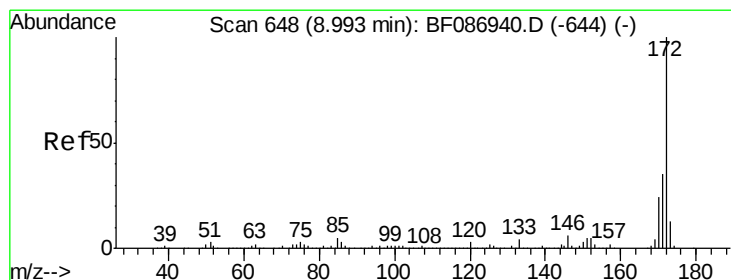
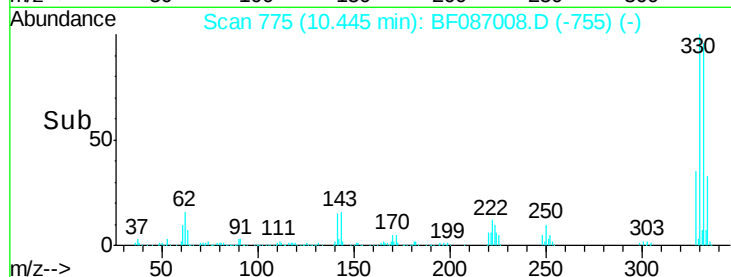
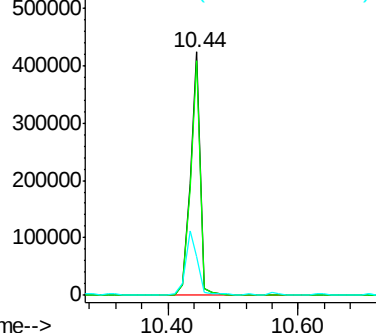
#41  
 2,4,6-Tribromophenol  
 Concen: 151.17 ng  
 RT: 10.44 min Scan# 775  
 Delta R.T. -0.08 min  
 Lab File: BF087008.D  
 Acq: 14 May 2016 9:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OWL-C4-GW

Tgt Ion:330 Resp: 455320  
 Ion Ratio Lower Upper  
 330 100  
 332 96.3 79.0 118.4  
 141 31.6 31.2 46.8

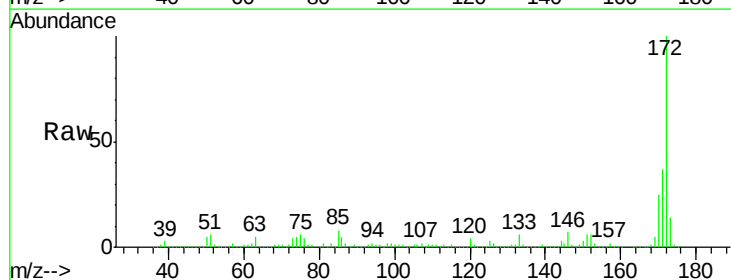


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

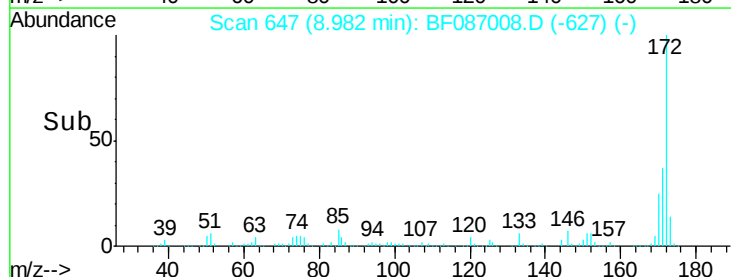
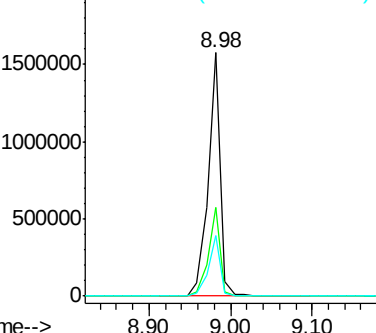


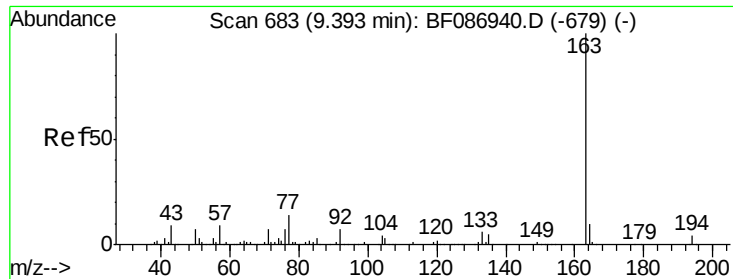
#44  
 2-Fluorobiphenyl  
 Concen: 95.97 ng  
 RT: 8.98 min Scan# 647  
 Delta R.T. -0.08 min  
 Lab File: BF087008.D  
 Acq: 14 May 2016 9:27

Tgt Ion:172 Resp: 1624535  
 Ion Ratio Lower Upper  
 172 100  
 171 36.6 29.0 43.6  
 170 24.8 19.8 29.8



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

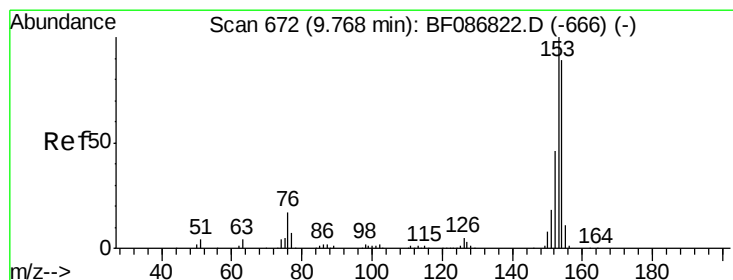
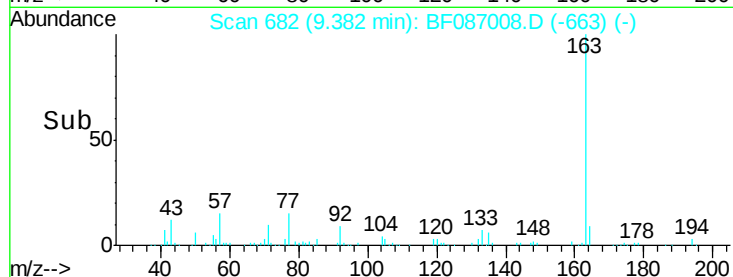
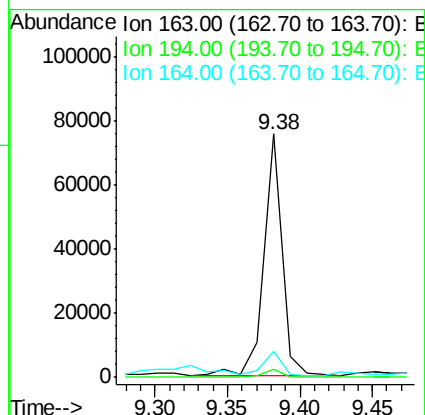
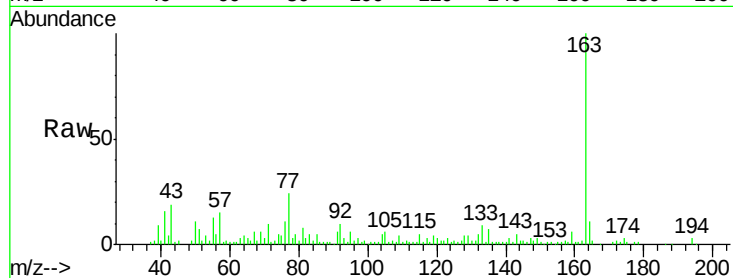




#49  
Dimethylphthalate  
Concen: 3.00 ng  
RT: 9.38 min Scan# 682  
Delta R.T. -0.09 min  
Lab File: BF087008.D  
Acq: 14 May 2016 9:27

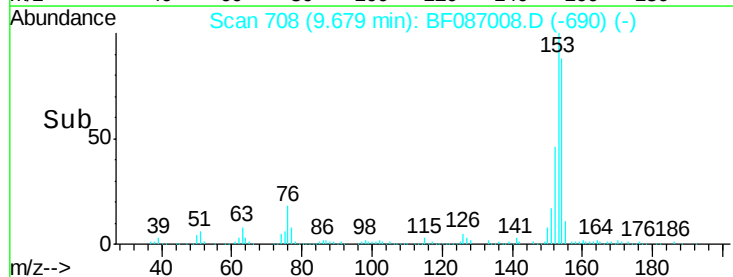
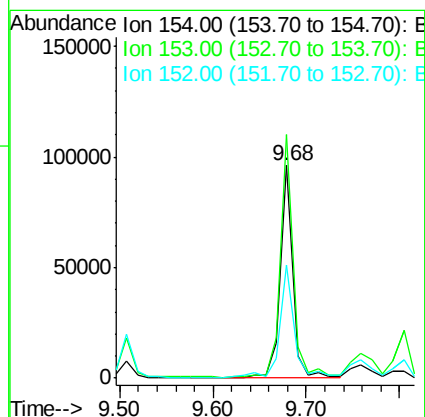
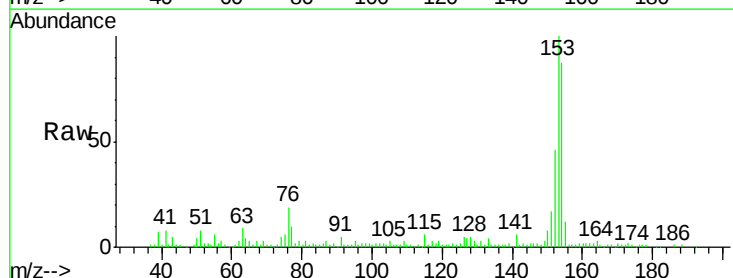
Instrument :  
BNA\_F  
ClientSampleId :  
OWL-C4-GW

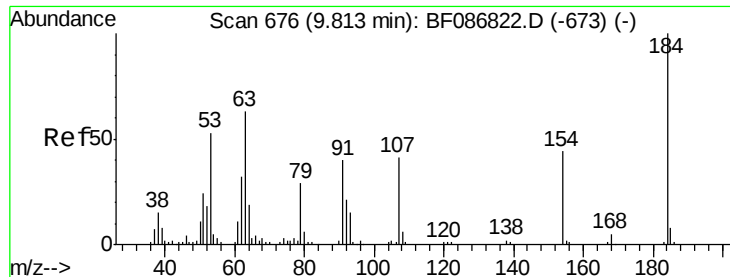
Tgt Ion:163 Resp: 65179  
Ion Ratio Lower Upper  
163 100  
194 3.3 2.6 4.0  
164 10.6 8.2 12.4



#51  
Acenaphthene  
Concen: 5.54 ng  
RT: 9.68 min Scan# 708  
Delta R.T. -0.09 min  
Lab File: BF087008.D  
Acq: 14 May 2016 9:27

Tgt Ion:154 Resp: 89934  
Ion Ratio Lower Upper  
154 100  
153 114.4 89.8 134.6  
152 53.0 43.4 65.0

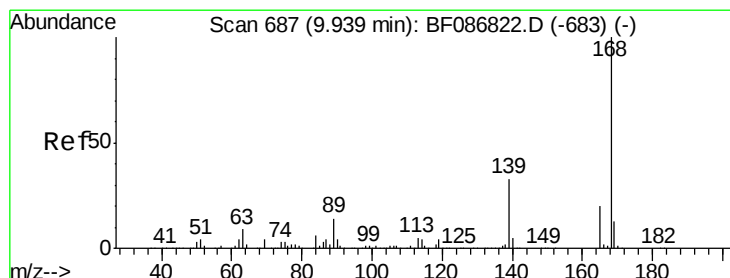
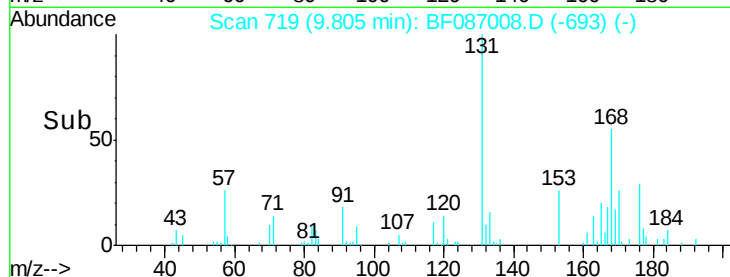
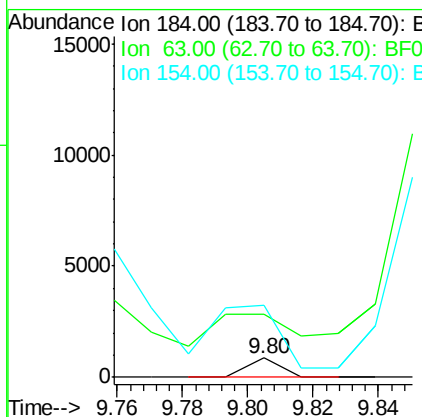
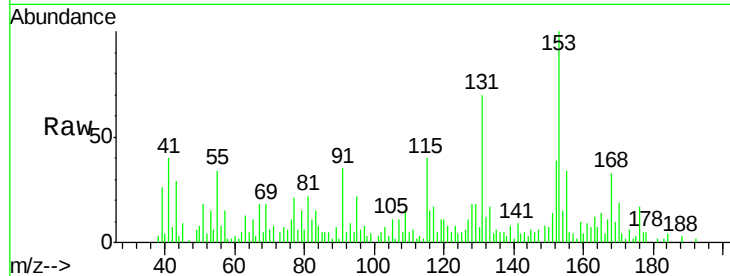




#53  
2,4-Dinitrophenol  
Concen: 7.92 ng  
RT: 9.80 min Scan# 719  
Delta R.T. -0.01 min  
Lab File: BF087008.D  
Acq: 14 May 2016 9:27

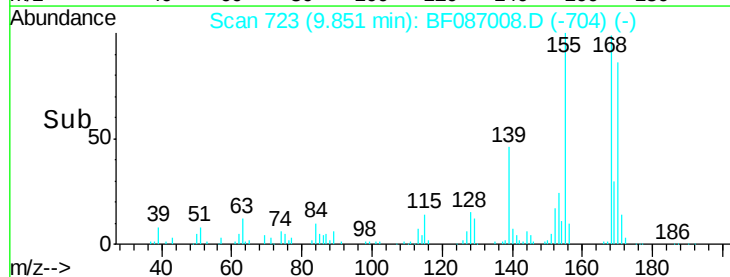
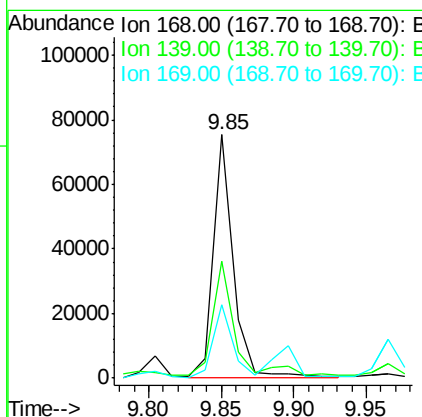
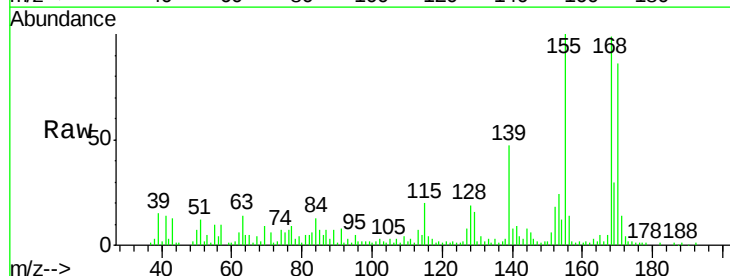
Instrument :  
BNA\_F  
ClientSampled :  
OWL-C4-GW

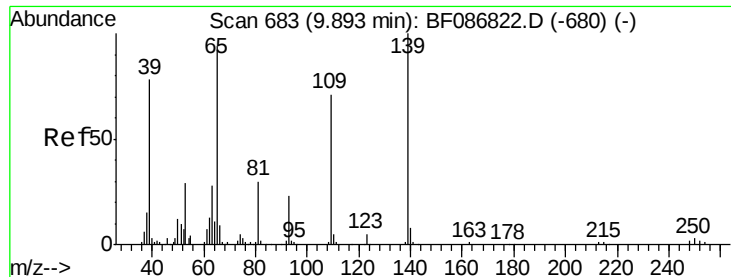
Tgt Ion:184 Resp: 596  
Ion Ratio Lower Upper  
184 100  
63 326.6 55.8 83.8#  
154 375.4 62.4 93.6#



#54  
Dibenzofuran  
Concen: 3.41 ng  
RT: 9.85 min Scan# 723  
Delta R.T. -0.09 min  
Lab File: BF087008.D  
Acq: 14 May 2016 9:27

Tgt Ion:168 Resp: 70938  
Ion Ratio Lower Upper  
168 100  
139 48.1 31.4 47.0#  
169 30.1 10.7 16.1#

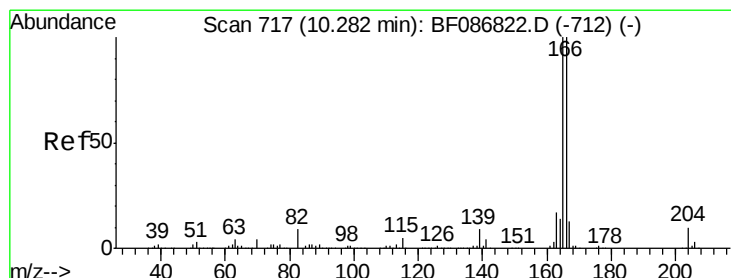
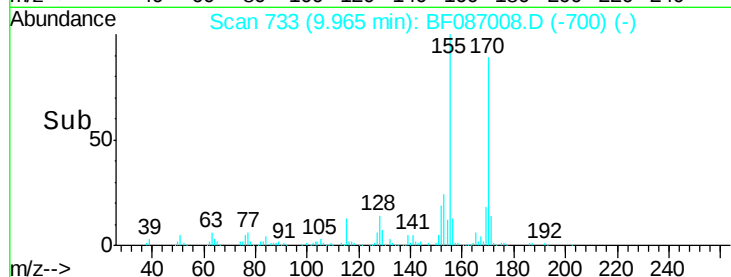
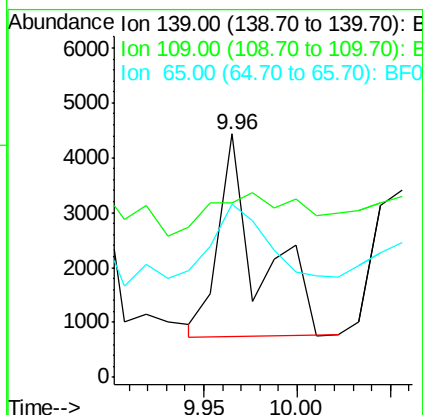
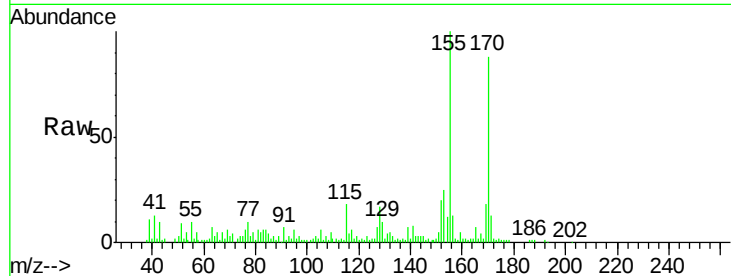




#55  
4-Nitrophenol  
Concen: 6.21 ng  
RT: 9.96 min Scan# 733  
Delta R.T. 0.07 min  
Lab File: BF087008.D  
Acq: 14 May 2016 9:27

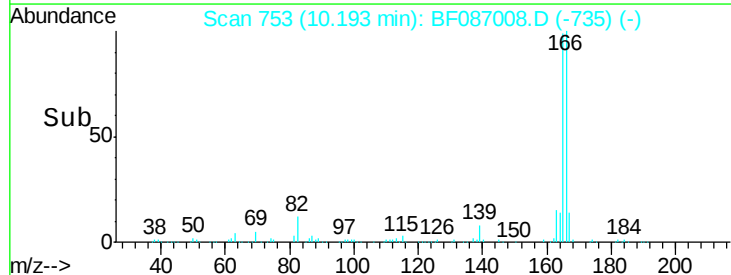
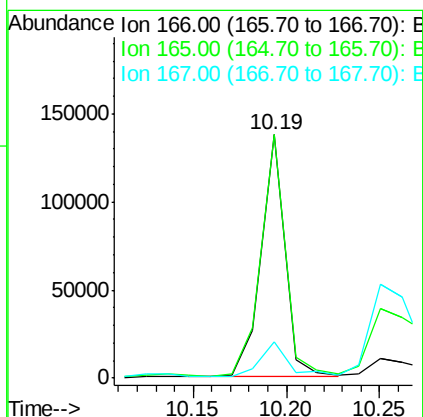
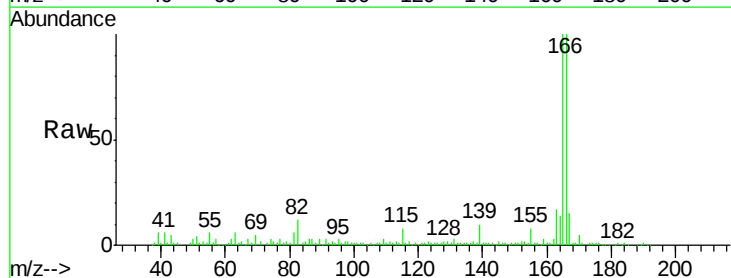
Instrument :  
BNA\_F  
ClientSampleId :  
OWL-C4-GW

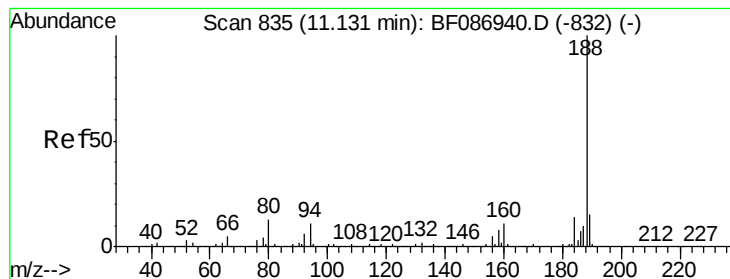
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 71.6  | 36.9  | 76.9  |
| 65      | 71.2  | 64.0  | 104.0 |



#57  
Fluorene  
Concen: 6.88 ng  
RT: 10.19 min Scan# 753  
Delta R.T. -0.09 min  
Lab File: BF087008.D  
Acq: 14 May 2016 9:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 100.1 | 79.0  | 118.6 |
| 167     | 14.7  | 10.6  | 15.8  |





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.12 min Scan# 834

Delta R.T. -0.09 min

Lab File: BF087008.D

Acq: 14 May 2016 9:27

Instrument :

BNA\_F

ClientSampleId :

OWL-C4-GW

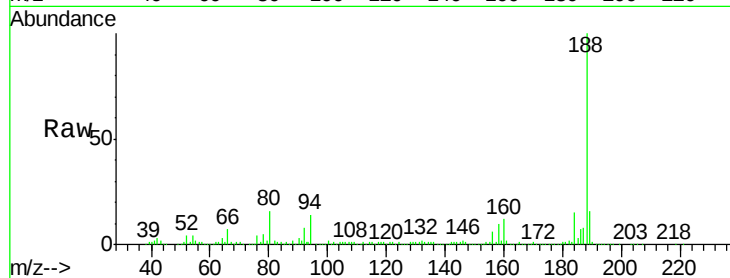
Tgt Ion:188 Resp: 499740

Ion Ratio Lower Upper

188 100

94 13.8 6.8 10.2#

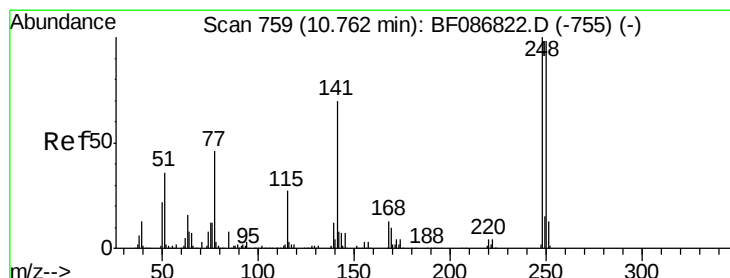
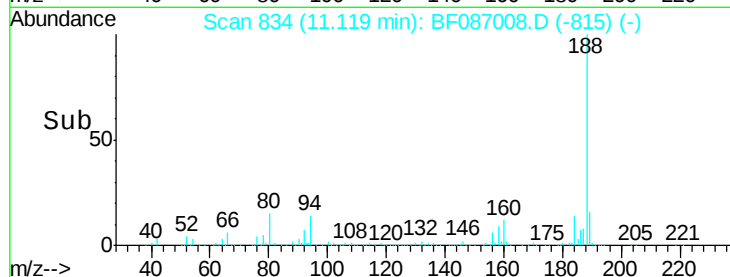
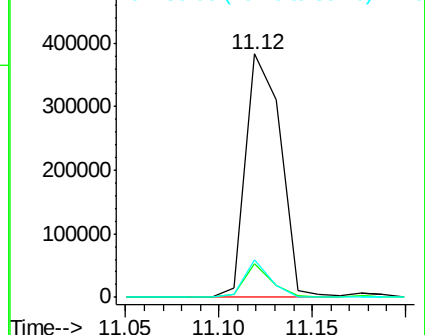
80 15.6 7.1 10.7#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#66

4-Bromophenyl-phenylether

Concen: 5.17 ng

RT: 10.44 min Scan# 775

Delta R.T. -0.32 min

Lab File: BF087008.D

Acq: 14 May 2016 9:27

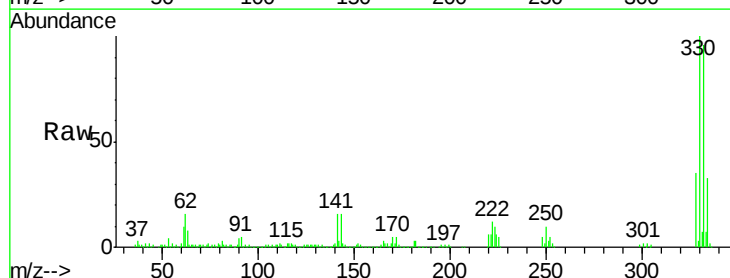
Tgt Ion:248 Resp: 26214

Ion Ratio Lower Upper

248 100

250 205.0 78.6 117.8#

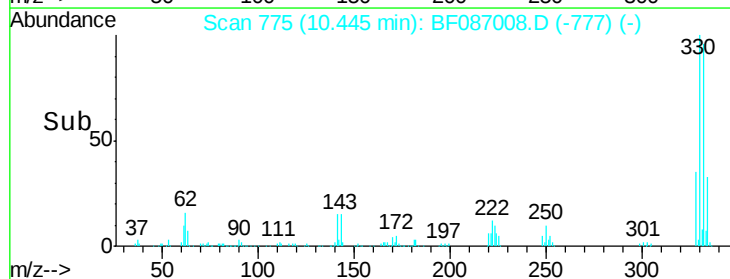
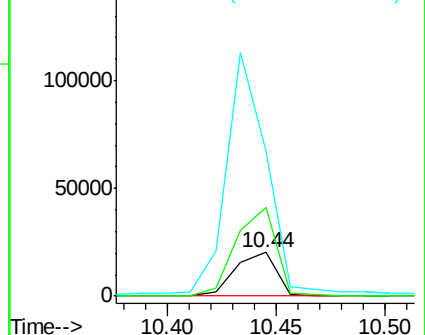
141 333.8 76.0 114.0#

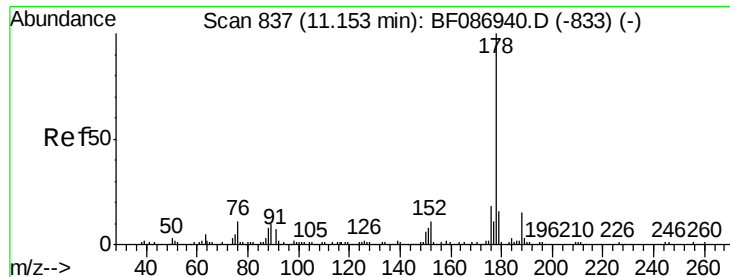


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

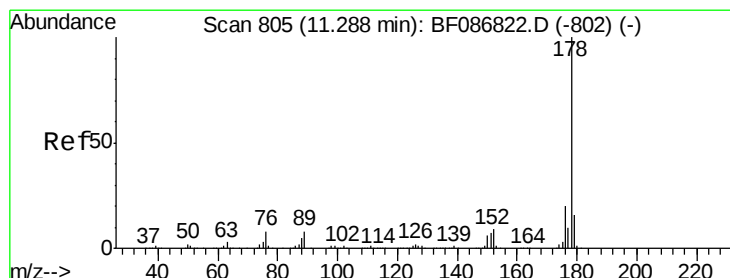
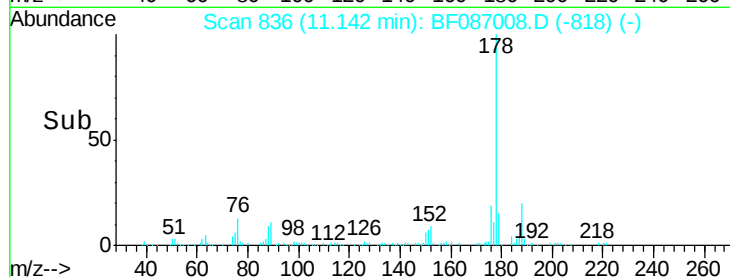
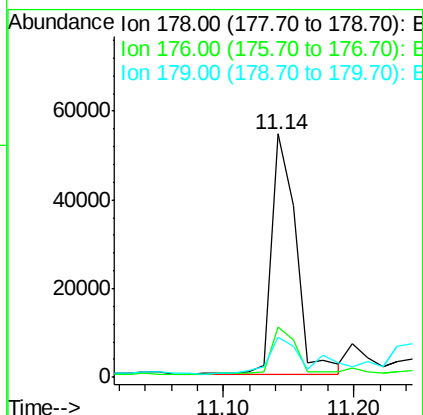
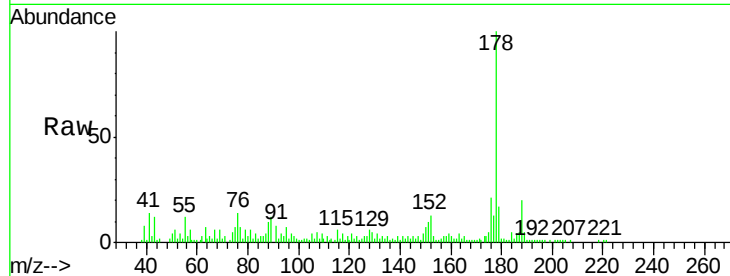




#70  
Phenanthrene  
Concen: 2.63 ng  
RT: 11.14 min Scan# 836  
Delta R.T. -0.09 min  
Lab File: BF087008.D  
Acq: 14 May 2016 9:27

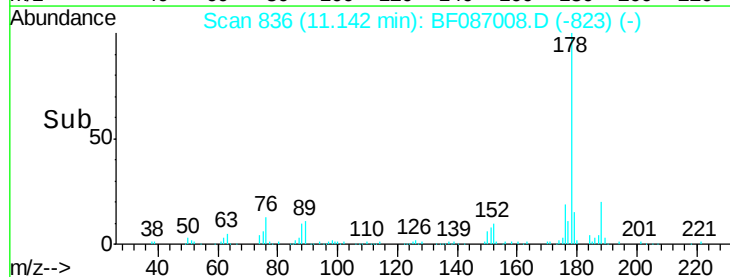
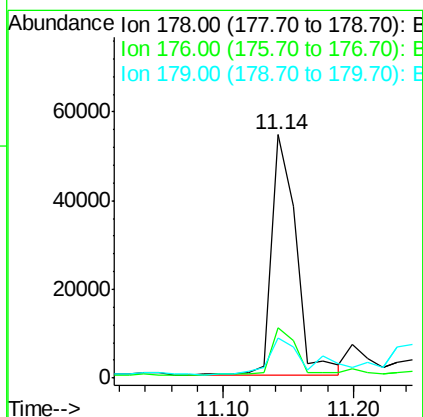
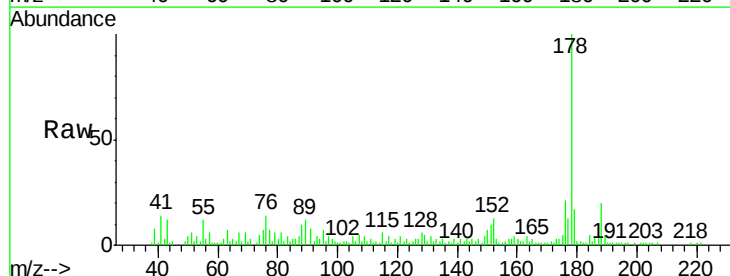
Instrument :  
BNA\_F  
ClientSampleId :  
OWL-C4-GW

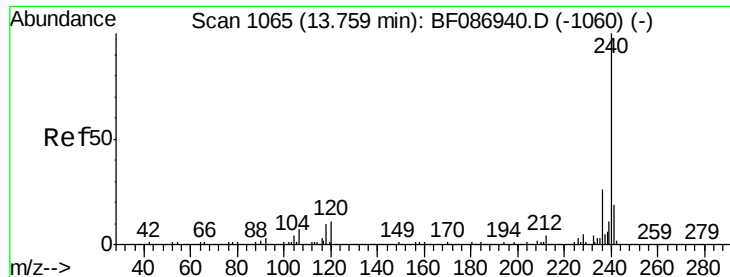
Tgt Ion:178 Resp: 70120  
Ion Ratio Lower Upper  
178 100  
176 20.7 16.0 24.0  
179 16.6 12.6 18.8



#71  
Anthracene  
Concen: 2.57 ng  
RT: 11.14 min Scan# 836  
Delta R.T. -0.15 min  
Lab File: BF087008.D  
Acq: 14 May 2016 9:27

Tgt Ion:178 Resp: 70120  
Ion Ratio Lower Upper  
178 100  
176 20.7 15.6 23.4  
179 16.6 12.7 19.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.75 min Scan# 1064

Delta R.T. -0.09 min

Lab File: BF087008.D

Acq: 14 May 2016 9:27

Instrument :

BNA\_F

ClientSampleId :

OWL-C4-GW

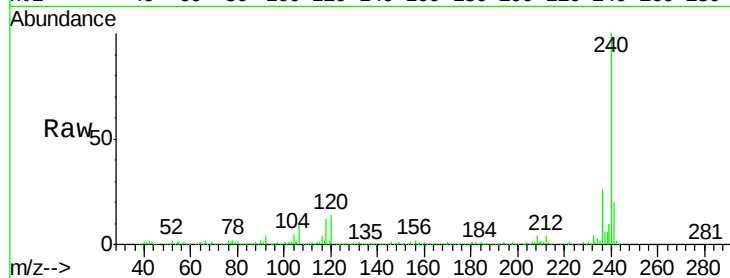
Tgt Ion:240 Resp: 392508

Ion Ratio Lower Upper

240 100

120 13.7 11.2 16.8

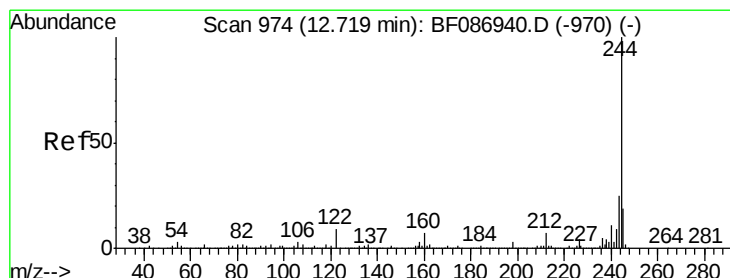
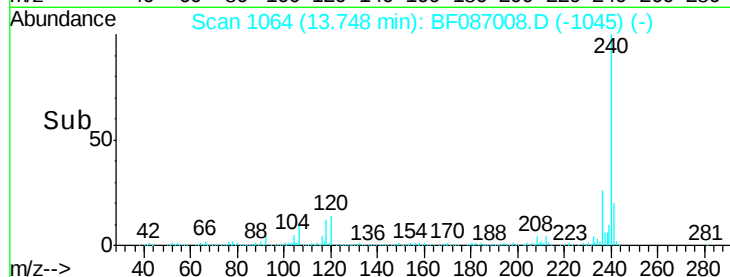
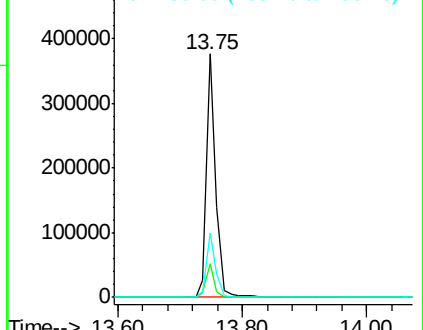
236 26.3 21.2 31.8



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



#78

Terphenyl-d14

Concen: 90.79 ng

RT: 12.72 min Scan# 974

Delta R.T. -0.08 min

Lab File: BF087008.D

Acq: 14 May 2016 9:27

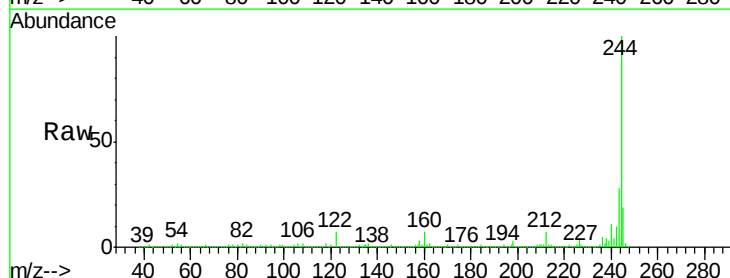
Tgt Ion:244 Resp: 1679563

Ion Ratio Lower Upper

244 100

212 7.2 6.2 9.2

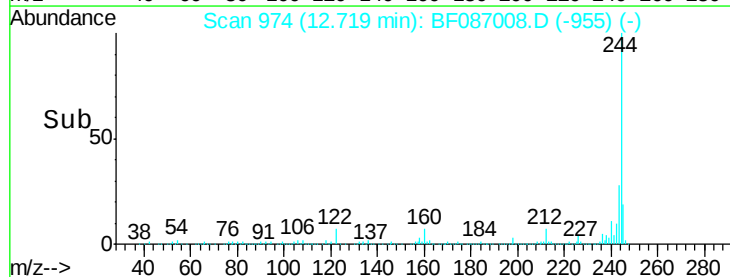
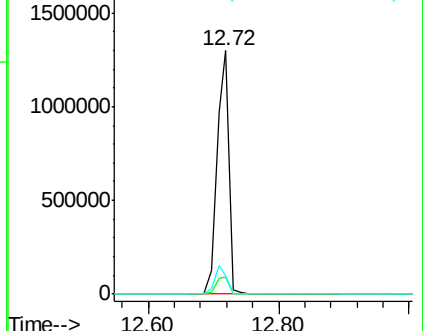
122 7.5 12.0 18.0#

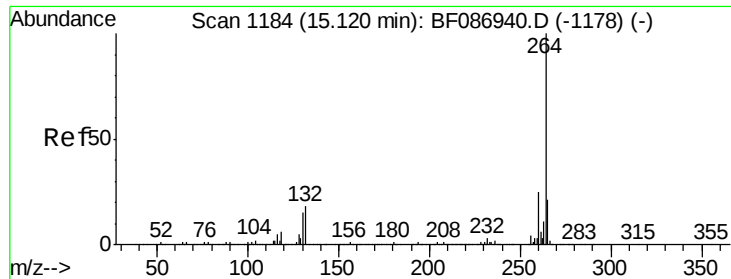


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.11 min Scan# 1183  
Delta R.T. -0.10 min  
Lab File: BF087008.D  
Acq: 14 May 2016 9:27

Instrument :  
BNA\_F  
ClientSampleId :  
OWL-C4-GW

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 19.5  | 29.3  |
| 265     | 21.5  | 17.3  | 25.9  |

