

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF101116\  
 Data File : BF090520.D  
 Acq On : 11 Oct 2016 23:35  
 Operator : UM/SJ  
 Sample : H5146-08  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S8-0614

Quant Time: Oct 12 01:01:03 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF101116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 11 16:14:43 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.95  | 152  | 219532   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.25  | 136  | 879552   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.01 | 164  | 482274   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.49 | 188  | 739333   | 20.00 | ng    | 0.01     |
| 75) Chrysene-d12          | 14.13 | 240  | 496640   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.62 | 264  | 405937   | 20.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.57  | 112  | 683726   | 48.45  | ng    | 0.01     |
| 7) Phenol-d6                | 6.60  | 99   | 837414   | 47.03  | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.51  | 82   | 1356896  | 83.67  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.79 | 330  | 608864   | 127.36 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.32  | 172  | 2348325  | 81.83  | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.08 | 244  | 1879272  | 92.47  | ng    | 0.00     |

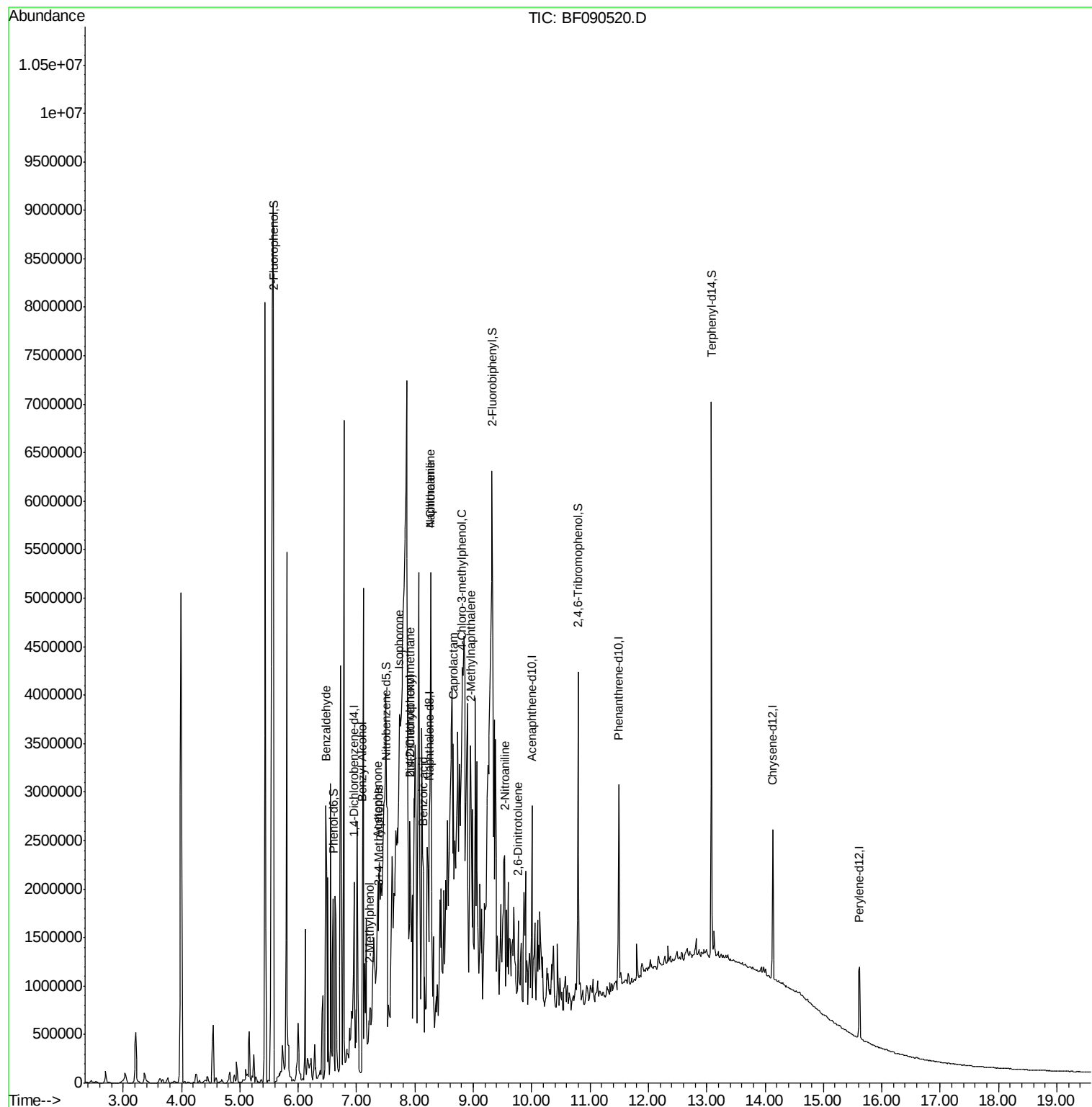
| Target Compounds               | R.T. | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|------|------|----------|-------|-------|--------|
| 9) Benzaldehyde                | 6.47 | 77   | 248013   | 22.11 | ng    | # 1    |
| 15) Benzyl Alcohol             | 7.10 | 79   | 56517    | 4.13  | ng    | 91     |
| 17) 2-Methylphenol             | 7.23 | 107  | 36489    | 2.99  | ng    | # 82   |
| 20) 3+4-Methylphenols          | 7.38 | 107  | 70074    | 4.53  | ng    | # 82   |
| 22) Acetophenone               | 7.37 | 105  | 367866   | 19.00 | ng    | # 84   |
| 25) Isophorone                 | 7.73 | 82   | 68219    | 2.31  | ng    | # 54   |
| 27) 2,4-Dimethylphenol         | 7.91 | 122  | 220384   | 16.34 | ng    | 91     |
| 28) bis(2-Chloroethoxy)methane | 7.91 | 93   | 44116    | 2.42  | ng    | # 59   |
| 31) Naphthalene                | 8.27 | 128  | 2057798  | 46.96 | ng    | 99     |
| 32) Benzoic acid               | 8.14 | 122  | 338891   | 31.83 | ng    | 98     |
| 33) 4-Chloroaniline            | 8.27 | 127  | 286373   | 15.44 | ng    | # 29   |
| 35) Caprolactam                | 8.66 | 113  | 25904    | 7.08  | ng    | # 14   |
| 36) 4-Chloro-3-methylphenol    | 8.81 | 107  | 91049    | 6.91  | ng    | # 25   |
| 37) 2-Methylnaphthalene        | 8.95 | 142  | 446346   | 15.18 | ng    | 99     |
| 47) 2-Nitroaniline             | 9.54 | 65   | 42747    | 4.37  | ng    | # 37   |
| 50) 2,6-Dinitrotoluene         | 9.77 | 165  | 43347    | 6.05  | ng    | # 25   |

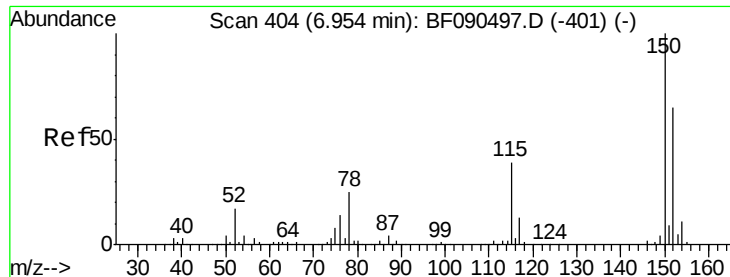
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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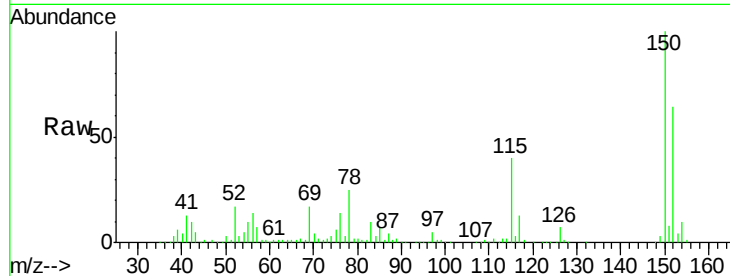


#1

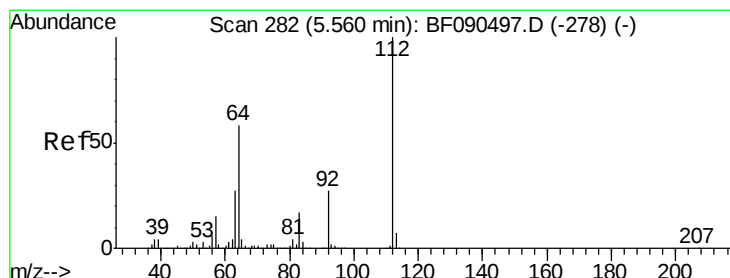
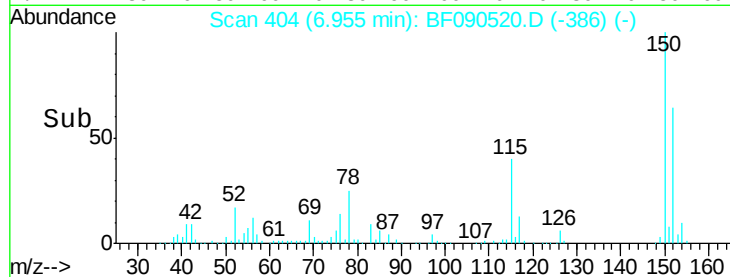
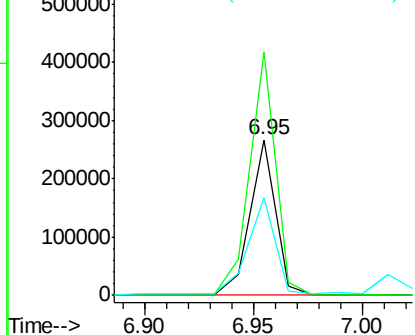
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.95 min Scan# 404  
Delta R.T. 0.00 min  
Lab File: BF090520.D  
Acq: 11 Oct 2016 23:35

Instrument :  
BNA\_F  
ClientSampleId :  
S8-0614

Tgt Ion:152 Resp: 219532  
Ion Ratio Lower Upper  
152 100  
150 156.3 124.6 186.8  
115 62.3 46.2 69.4



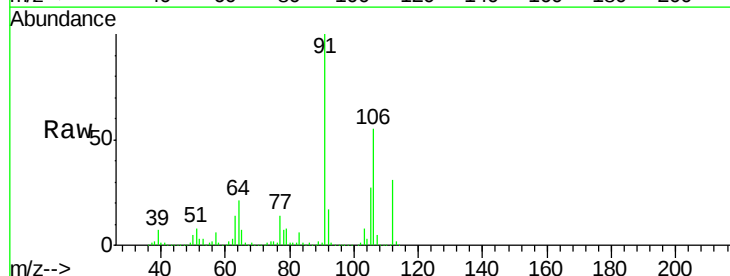
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



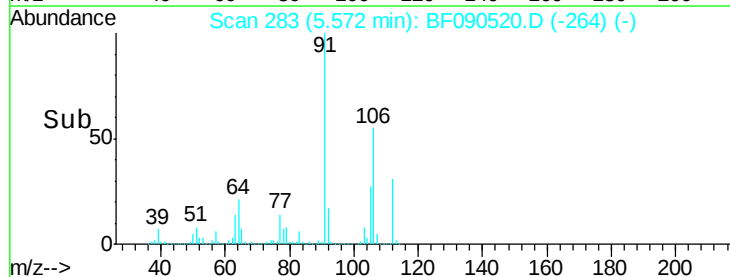
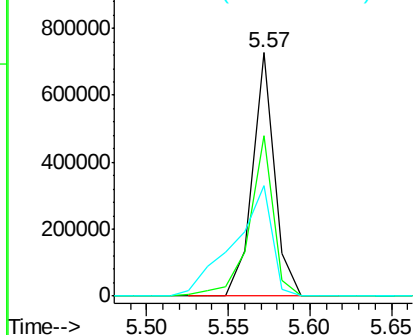
#5

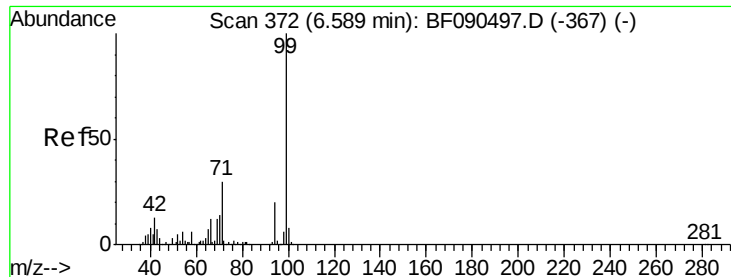
2-Fluorophenol  
Concen: 48.45 ng  
RT: 5.57 min Scan# 283  
Delta R.T. 0.01 min  
Lab File: BF090520.D  
Acq: 11 Oct 2016 23:35

Tgt Ion:112 Resp: 683726  
Ion Ratio Lower Upper  
112 100  
64 65.8 57.9 86.9  
63 45.6 29.6 44.4#



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: 47.03 ng

RT: 6.60 min Scan# 373

Delta R.T. 0.01 min

Lab File: BF090520.D

Acq: 11 Oct 2016 23:35

Instrument :

BNA\_F

ClientSampleId :

S8-0614

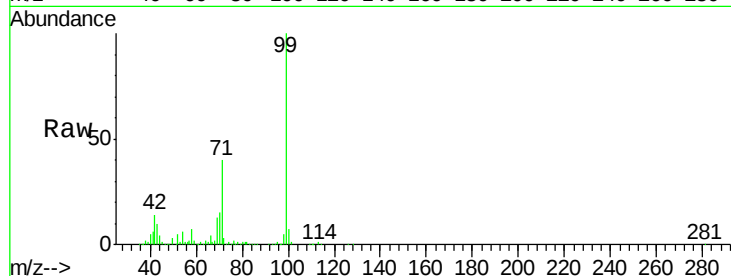
Tgt Ion: 99 Resp: 837414

Ion Ratio Lower Upper

99 100

42 14.1 20.0 30.0#

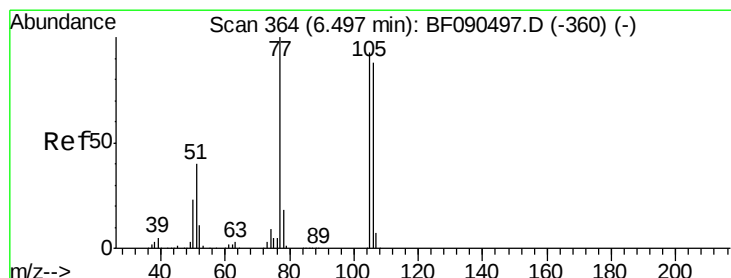
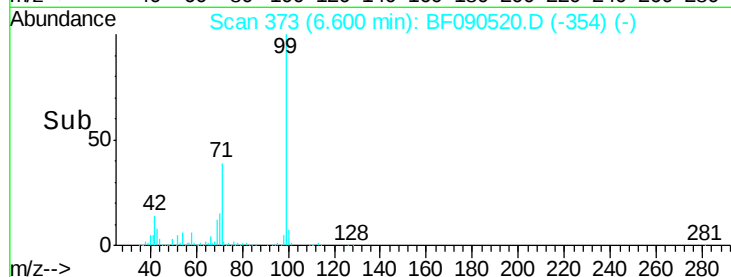
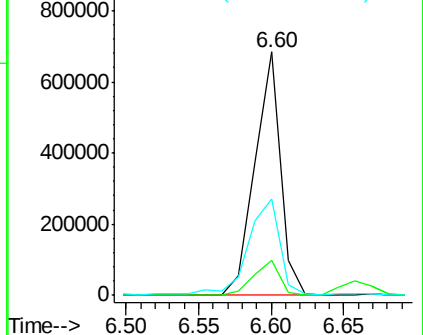
71 39.6 27.9 41.9



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



#9

Benzaldehyde

Concen: 22.11 ng

RT: 6.47 min Scan# 362

Delta R.T. -0.02 min

Lab File: BF090520.D

Acq: 11 Oct 2016 23:35

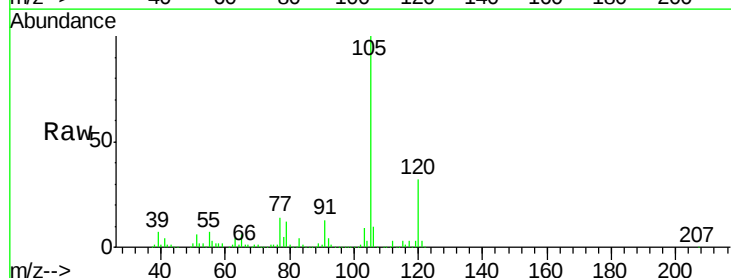
Tgt Ion: 77 Resp: 248013

Ion Ratio Lower Upper

77 100

105 729.3 73.1 113.1#

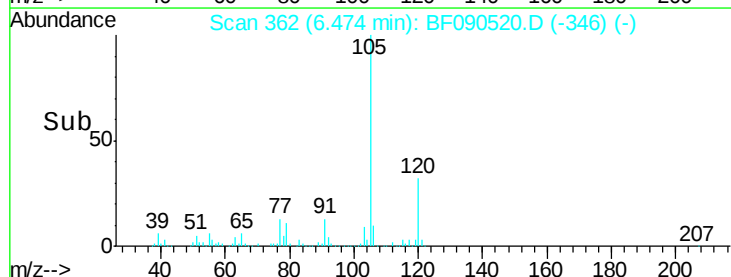
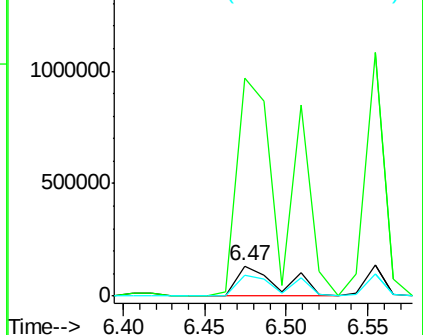
106 70.3 70.2 110.2

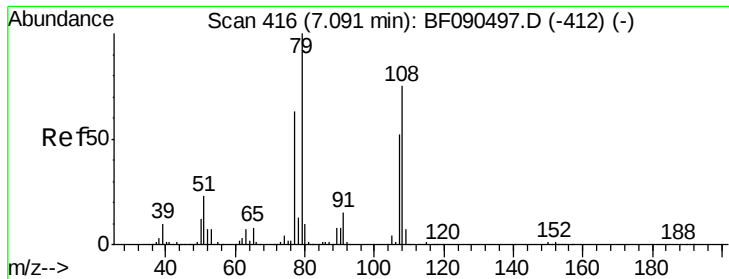


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): BF0

Ion 106.00 (105.70 to 106.70): BF0





#15

Benzyl Alcohol

Concen: 4.13 ng

RT: 7.10 min Scan# 417

Delta R.T. 0.01 min

Lab File: BF090520.D

Acq: 11 Oct 2016 23:35

Instrument :

BNA\_F

ClientSampled :

S8-0614

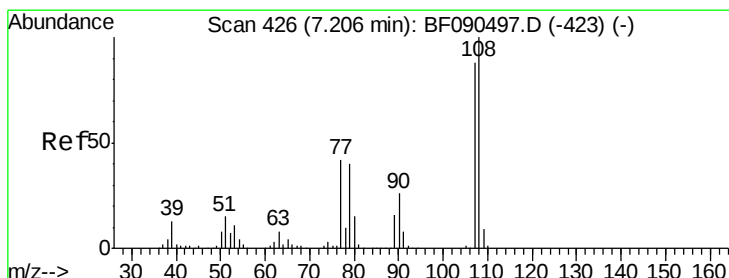
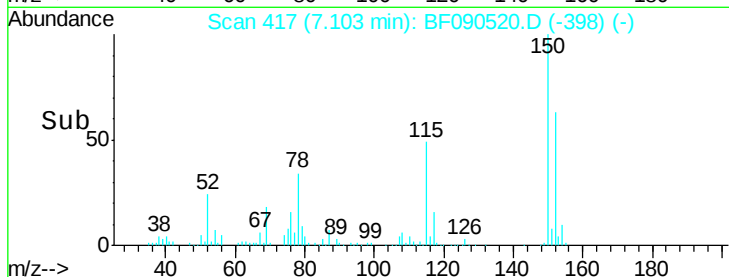
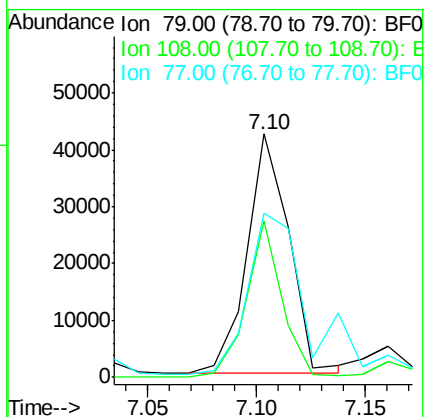
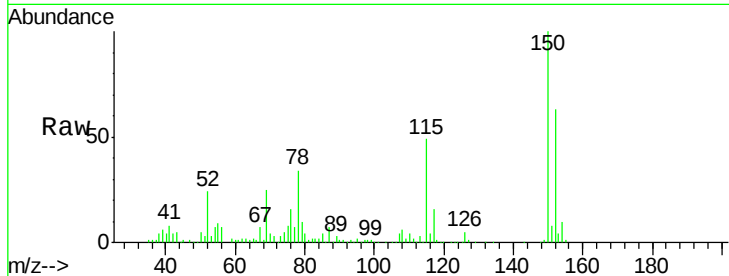
Tgt Ion: 79 Resp: 56517

Ion Ratio Lower Upper

79 100

108 64.3 60.9 91.3

77 67.3 51.5 77.3



#17

2-Methylphenol

Concen: 2.99 ng

RT: 7.23 min Scan# 428

Delta R.T. 0.02 min

Lab File: BF090520.D

Acq: 11 Oct 2016 23:35

Tgt Ion: 107 Resp: 36489

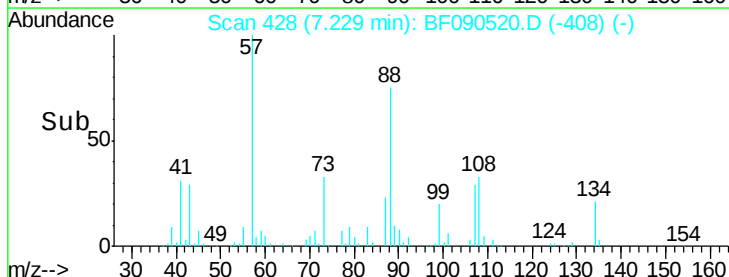
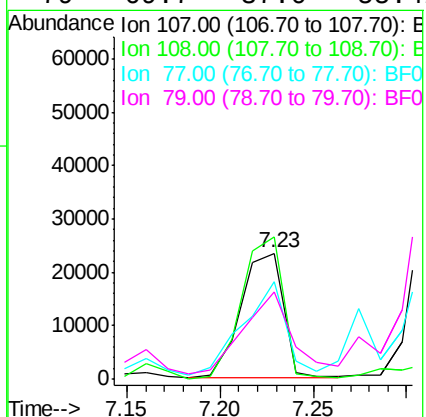
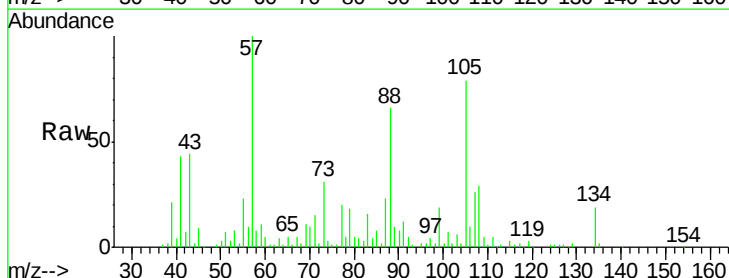
Ion Ratio Lower Upper

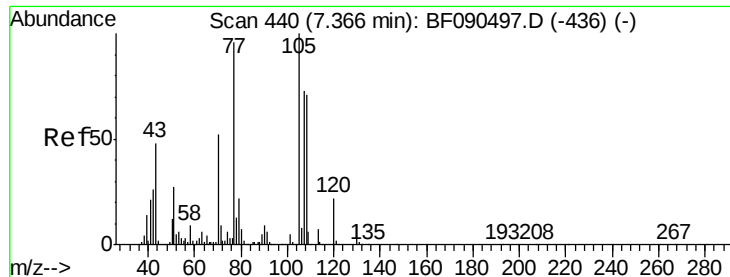
107 100

108 113.0 90.9 136.3

77 77.2 38.2 57.4#

79 69.7 37.0 55.4#

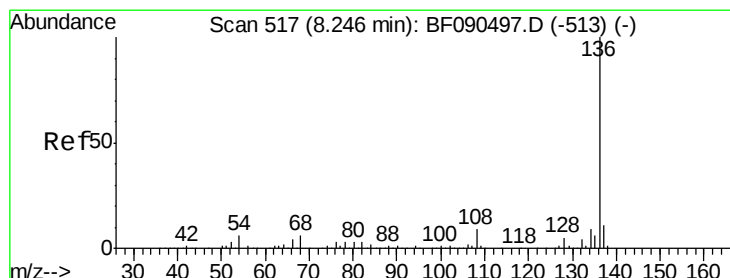
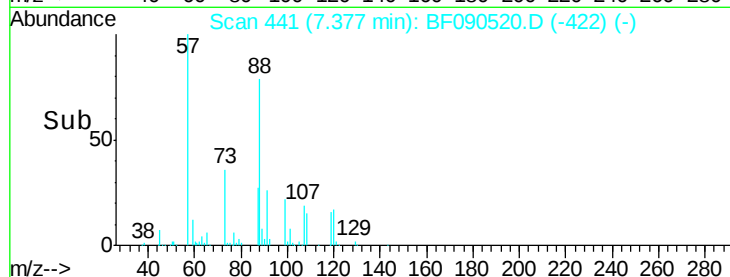
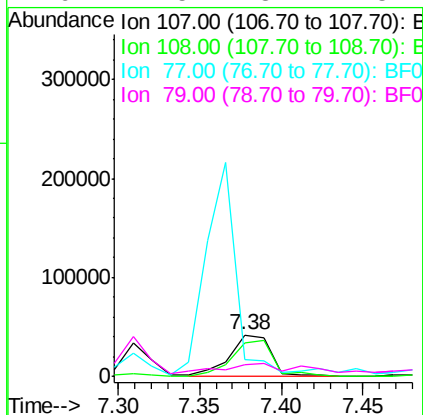
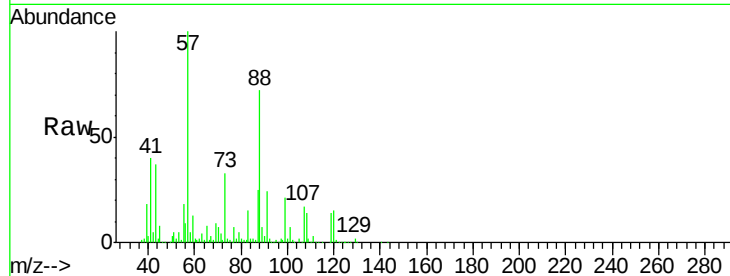




#20  
3+4-Methylphenols  
Concen: 4.53 ng  
RT: 7.38 min Scan# 441  
Delta R.T. 0.01 min  
Lab File: BF090520.D  
Acq: 11 Oct 2016 23:35

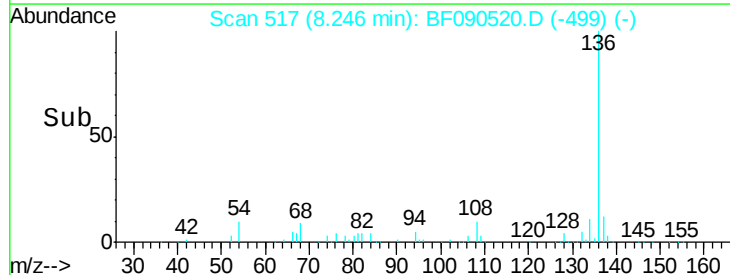
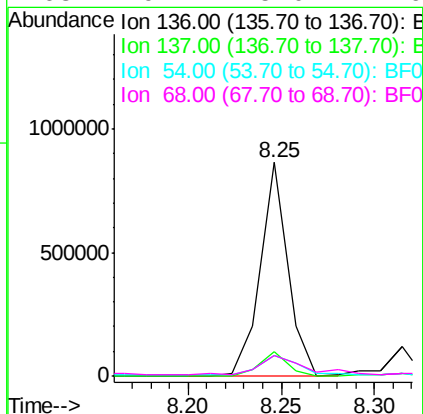
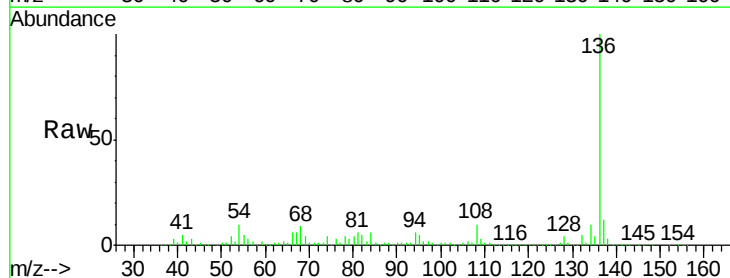
Instrument :  
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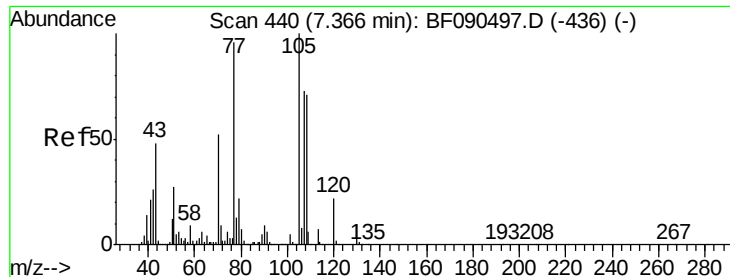
Tgt Ion:107 Resp: 70074  
Ion Ratio Lower Upper  
107 100  
108 81.9 66.7 106.7  
77 41.6 53.7 93.7#  
79 27.5 8.4 48.4



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.25 min Scan# 517  
Delta R.T. 0.00 min  
Lab File: BF090520.D  
Acq: 11 Oct 2016 23:35

Tgt Ion:136 Resp: 879552  
Ion Ratio Lower Upper  
136 100  
137 11.6 9.0 13.6  
54 9.8 6.6 10.0  
68 9.4 5.0 7.6#





#22

Acetophenone

Concen: 19.00 ng

RT: 7.37 min Scan# 440

Delta R.T. 0.00 min

Lab File: BF090520.D

Acq: 11 Oct 2016 23:35

Instrument :

BNA\_F

ClientSampleId :

S8-0614

Tgt Ion: 105 Resp: 367866

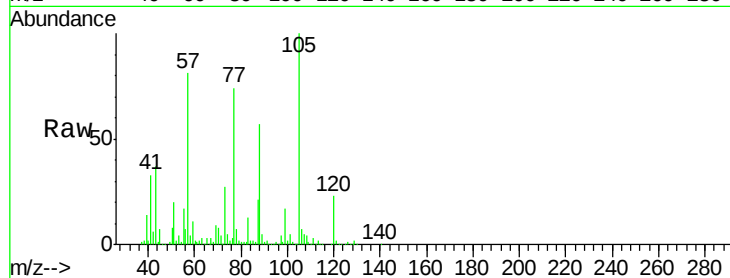
Ion Ratio Lower Upper

105 100

71 3.6 3.8 5.6#

51 20.4 28.2 42.4#

120 22.7 17.4 26.2

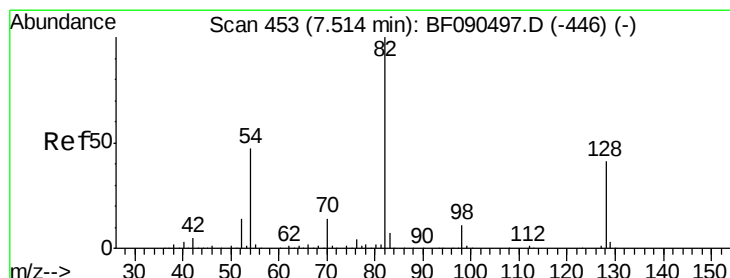
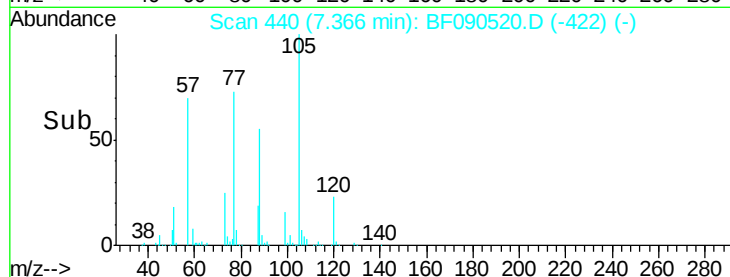
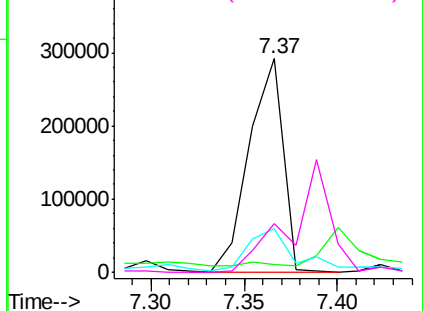


Abundance Ion 105.00 (104.70 to 105.70): E

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: 83.67 ng

RT: 7.51 min Scan# 453

Delta R.T. 0.00 min

Lab File: BF090520.D

Acq: 11 Oct 2016 23:35

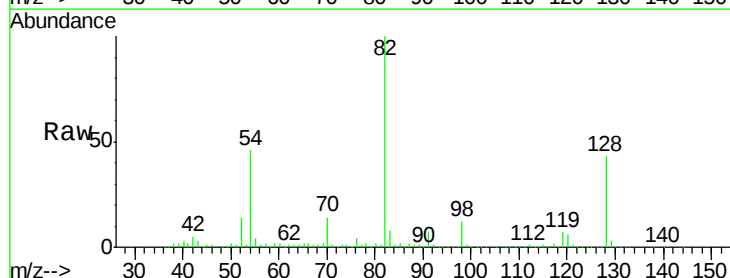
Tgt Ion: 82 Resp: 1356896

Ion Ratio Lower Upper

82 100

128 43.4 40.0 60.0

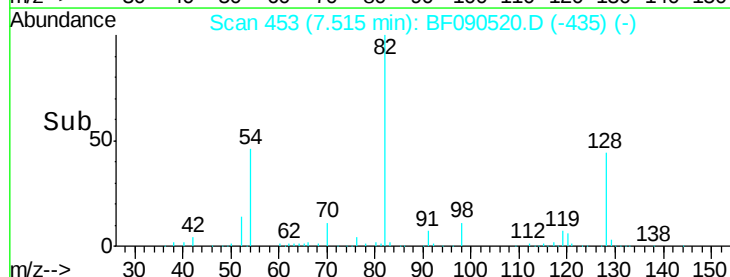
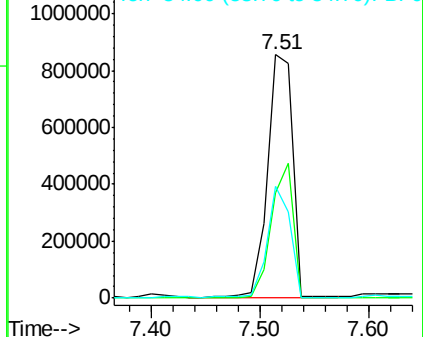
54 45.7 42.6 64.0

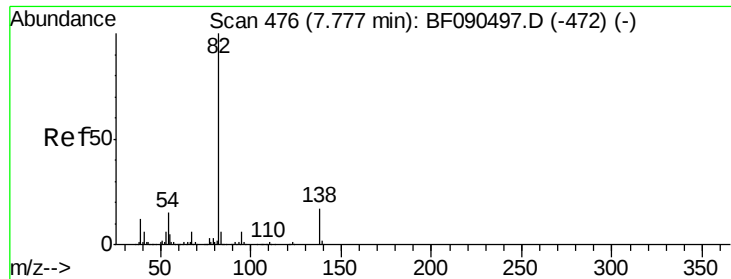


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 2.31 ng

RT: 7.73 min Scan# 472

Delta R.T. -0.05 min

Lab File: BF090520.D

Acq: 11 Oct 2016 23:35

Instrument :

BNA\_F

ClientSampleId :

S8-0614

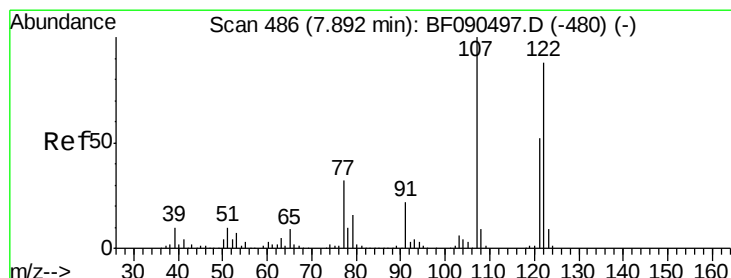
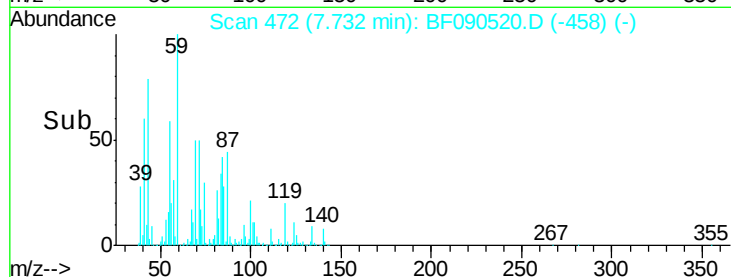
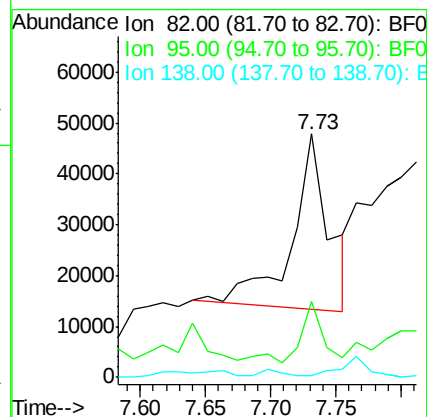
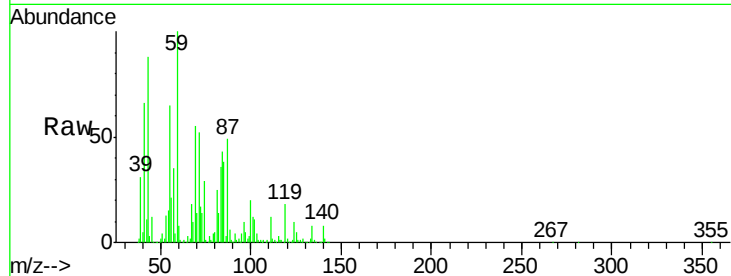
Tgt Ion: 82 Resp: 68219

Ion Ratio Lower Upper

82 100

95 31.2 5.2 7.8#

138 0.8 13.0 19.4#



#27

2,4-Dimethylphenol

Concen: 16.34 ng

RT: 7.91 min Scan# 488

Delta R.T. 0.02 min

Lab File: BF090520.D

Acq: 11 Oct 2016 23:35

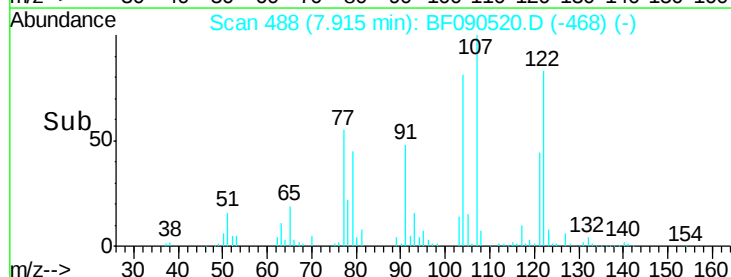
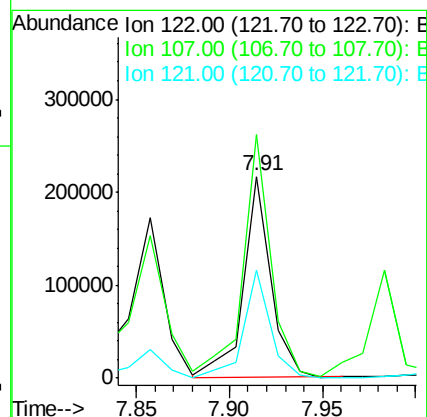
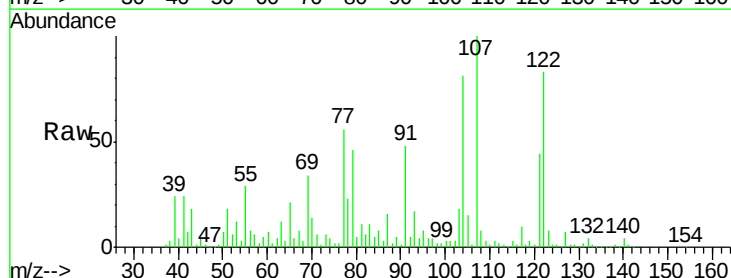
Tgt Ion: 122 Resp: 220384

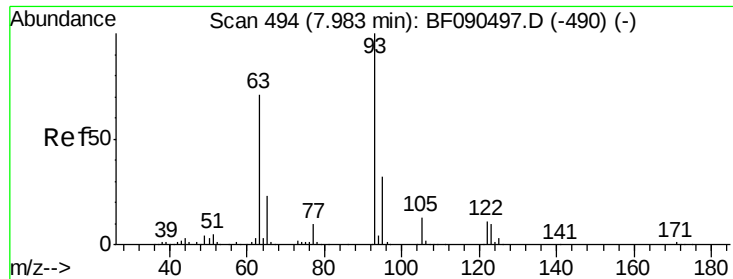
Ion Ratio Lower Upper

122 100

107 120.8 88.6 132.8

121 53.5 47.5 71.3

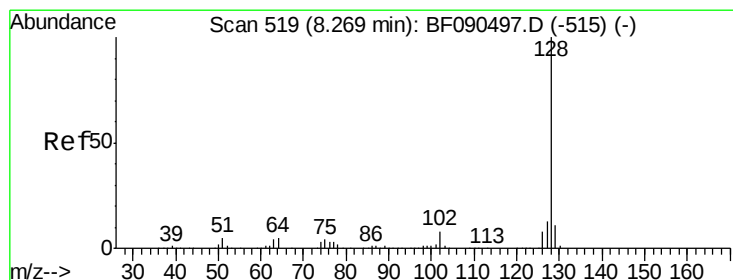
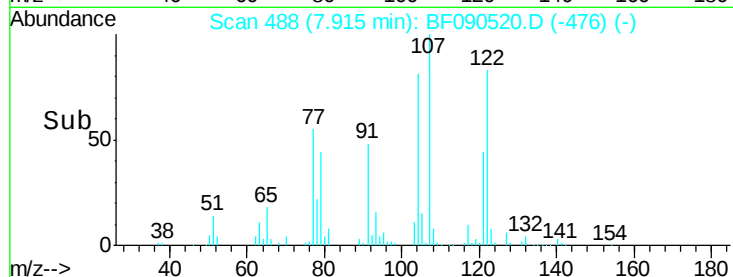
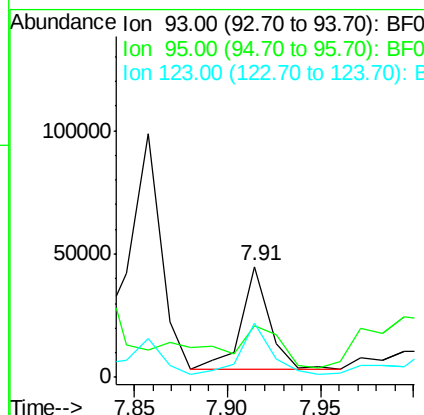
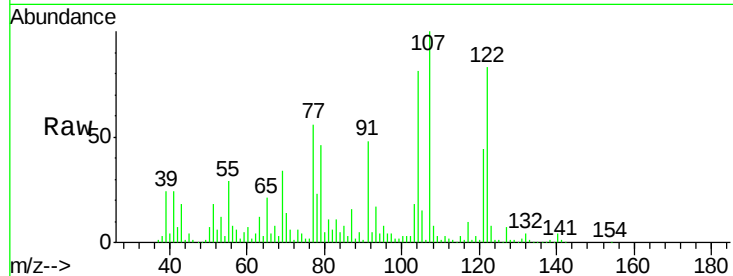




#28  
bis(2-Chloroethoxy)methane  
Concen: 2.42 ng  
RT: 7.91 min Scan# 488  
Delta R.T. -0.07 min  
Lab File: BF090520.D  
Acq: 11 Oct 2016 23:35

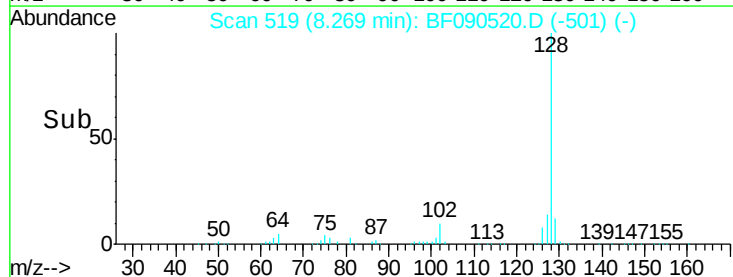
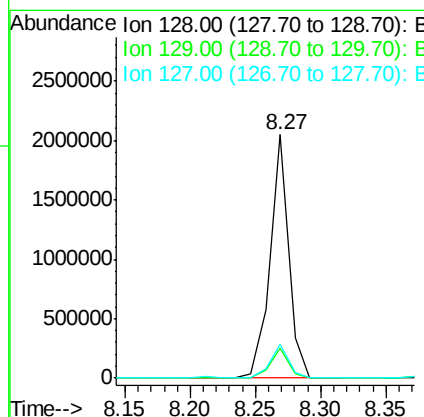
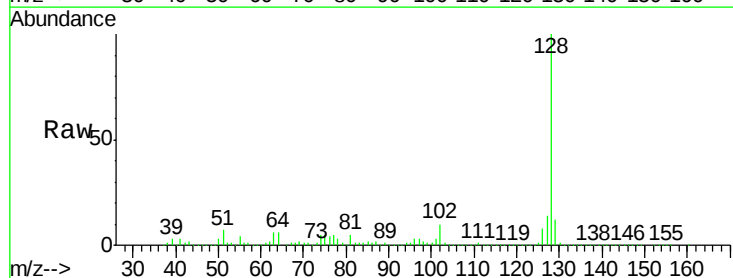
Instrument :  
BNA\_F  
ClientSampleId :  
S8-0614

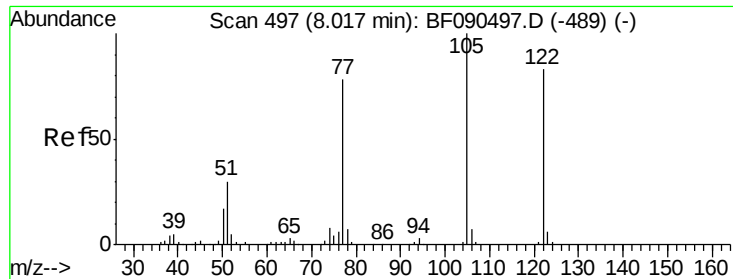
Tgt Ion: 93 Resp: 44116  
Ion Ratio Lower Upper  
93 100  
95 47.1 27.0 40.4#  
123 48.5 11.1 16.7#



#31  
Naphthalene  
Concen: 46.96 ng  
RT: 8.27 min Scan# 519  
Delta R.T. 0.00 min  
Lab File: BF090520.D  
Acq: 11 Oct 2016 23:35

Tgt Ion: 128 Resp: 2057798  
Ion Ratio Lower Upper  
128 100  
129 12.2 9.7 14.5  
127 14.1 11.7 17.5





#32

Benzoic acid

Concen: 31.83 ng

RT: 8.14 min Scan# 508

Delta R.T. 0.13 min

Lab File: BF090520.D

Acq: 11 Oct 2016 23:35

Instrument :

BNA\_F

ClientSampleId :

S8-0614

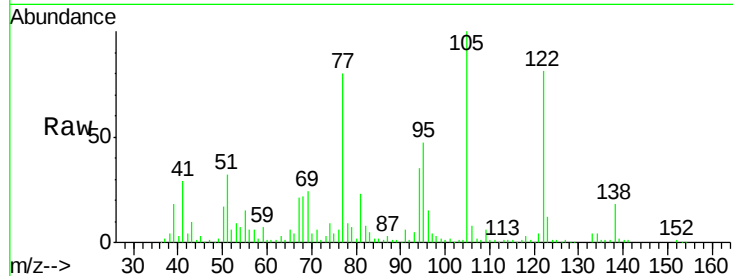
Tgt Ion:122 Resp: 338891

Ion Ratio Lower Upper

122 100

105 123.7 103.9 143.9

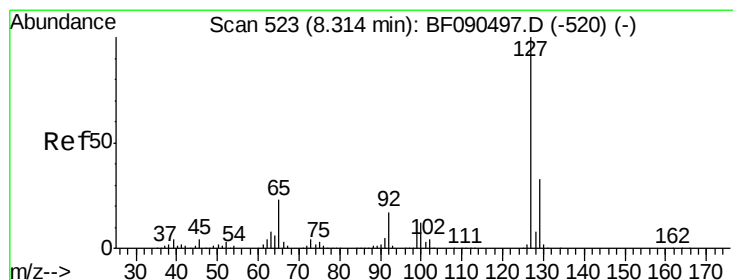
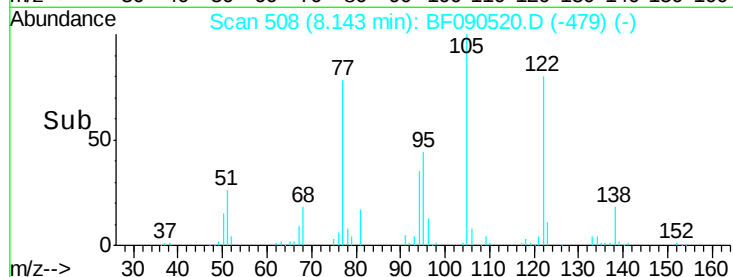
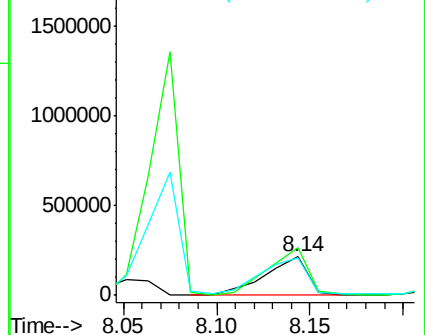
77 98.6 74.6 114.6



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#33

4-Chloroaniline

Concen: 15.44 ng

RT: 8.27 min Scan# 519

Delta R.T. -0.05 min

Lab File: BF090520.D

Acq: 11 Oct 2016 23:35

Tgt Ion:127 Resp: 286373

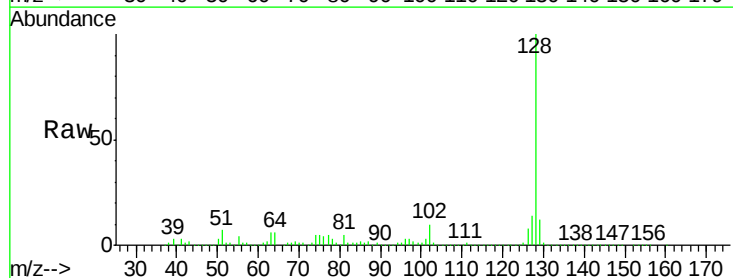
Ion Ratio Lower Upper

127 100

129 86.7 26.2 39.4#

65 0.0 32.5 48.7#

92 0.6 17.2 25.8#

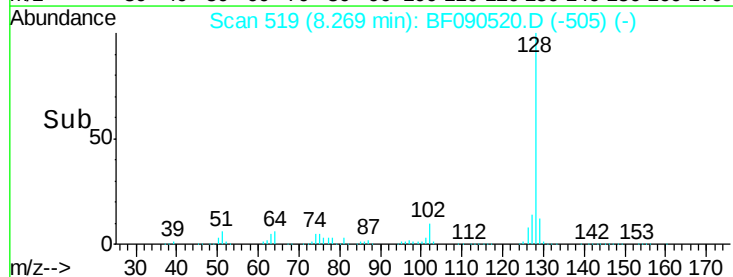
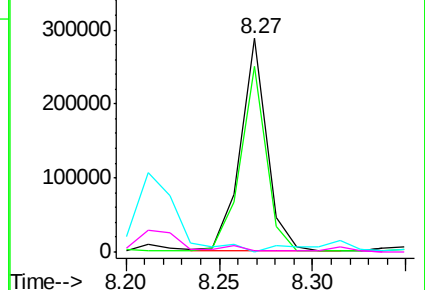


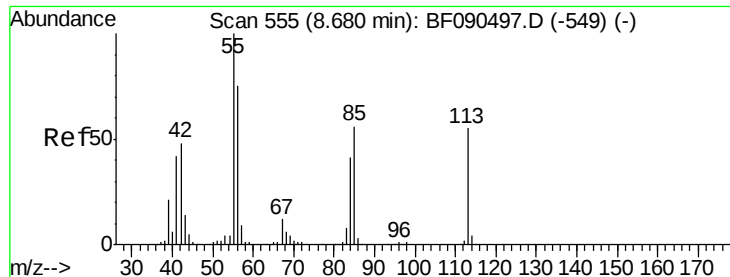
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0

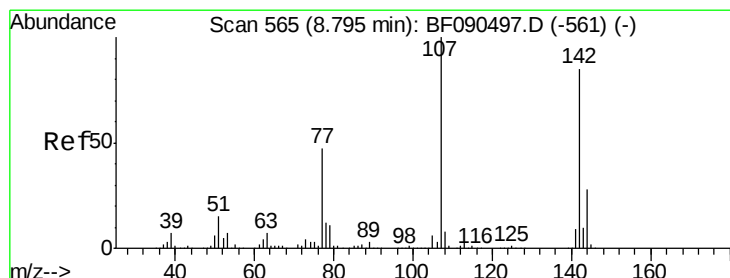
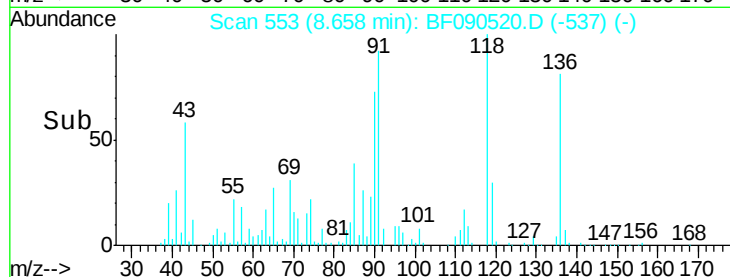
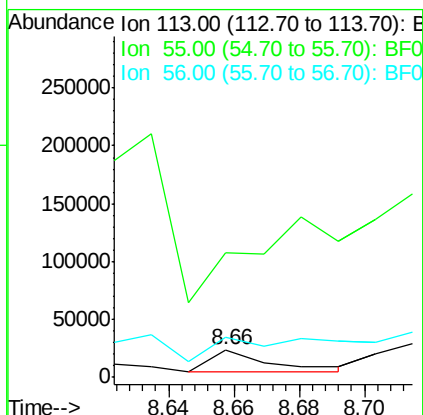
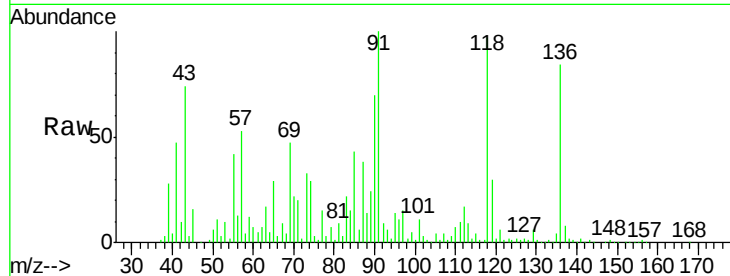




#35  
 Caprolactam  
 Concen: 7.08 ng  
 RT: 8.66 min Scan# 553  
 Delta R.T. -0.02 min  
 Lab File: BF090520.D  
 Acq: 11 Oct 2016 23:35

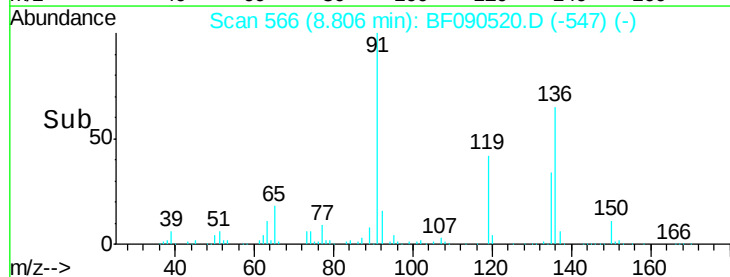
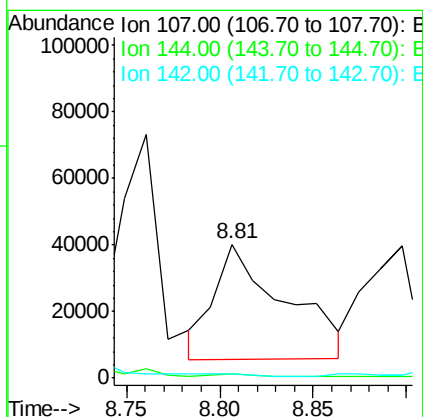
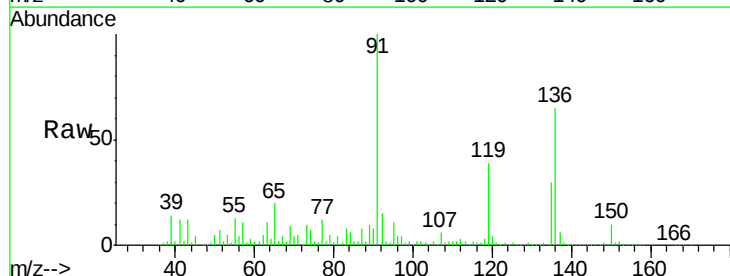
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S8-0614

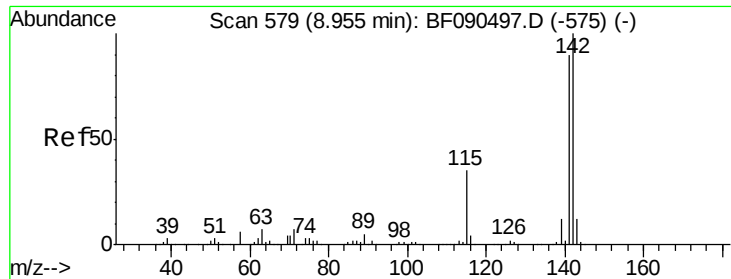
Tgt Ion:113 Resp: 25904  
 Ion Ratio Lower Upper  
 113 100  
 55 448.4 203.3 243.3#  
 56 143.8 140.5 180.5



#36  
 4-Chloro-3-methylphenol  
 Concen: 6.91 ng  
 RT: 8.81 min Scan# 566  
 Delta R.T. 0.01 min  
 Lab File: BF090520.D  
 Acq: 11 Oct 2016 23:35

Tgt Ion:107 Resp: 91049  
 Ion Ratio Lower Upper  
 107 100  
 144 2.9 19.8 29.8#  
 142 3.4 60.7 91.1#

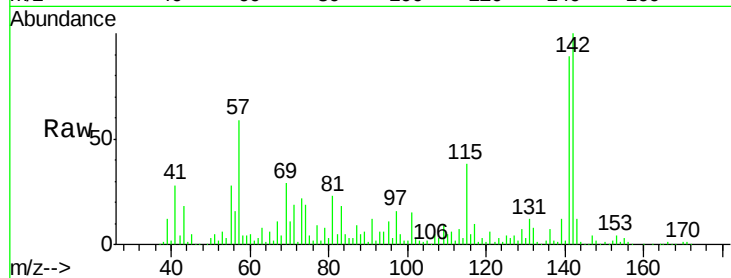




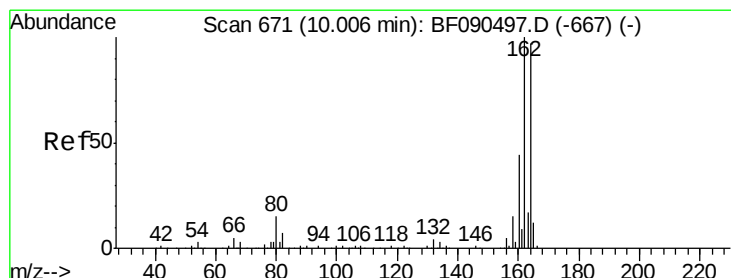
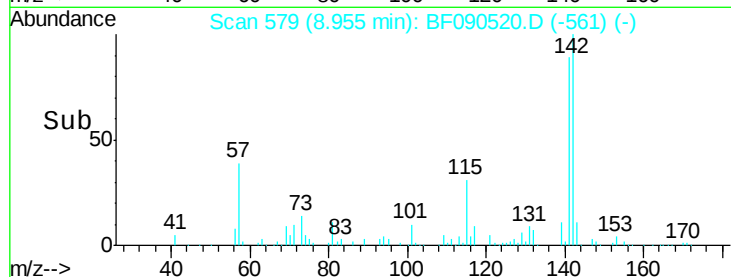
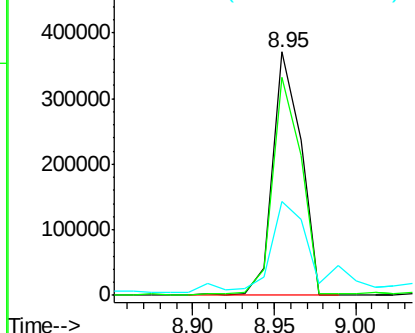
#37  
 2-Methylnaphthalene  
 Concen: 15.18 ng  
 RT: 8.95 min Scan# 579  
 Delta R.T. 0.00 min  
 Lab File: BF090520.D  
 Acq: 11 Oct 2016 23:35

Instrument :  
 BNA\_F  
 ClientSampled :  
 S8-0614

Tgt Ion:142 Resp: 446346  
 Ion Ratio Lower Upper  
 142 100  
 141 89.4 71.8 107.8  
 115 38.4 28.8 43.2

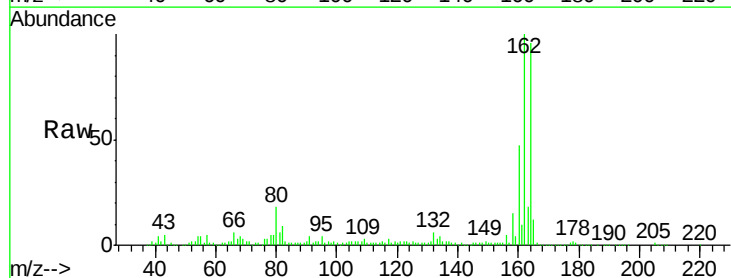


Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 115.00 (114.70 to 115.70): E

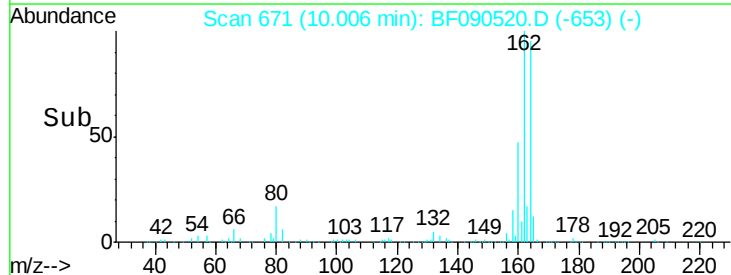
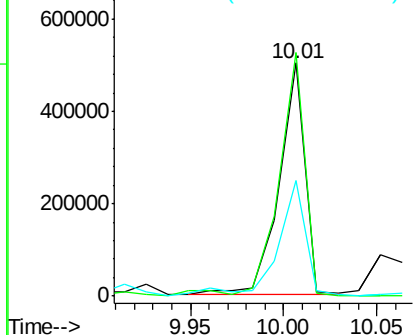


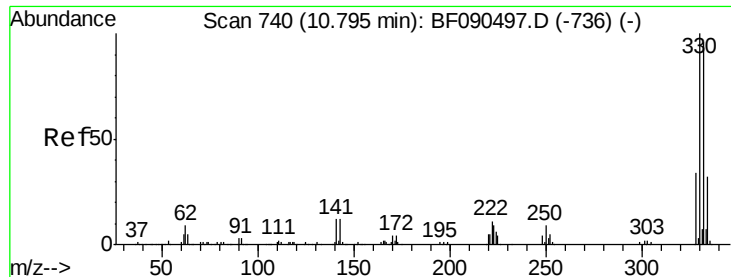
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.01 min Scan# 671  
 Delta R.T. 0.00 min  
 Lab File: BF090520.D  
 Acq: 11 Oct 2016 23:35

Tgt Ion:164 Resp: 482274  
 Ion Ratio Lower Upper  
 164 100  
 162 104.4 80.1 120.1  
 160 49.4 36.3 54.5



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

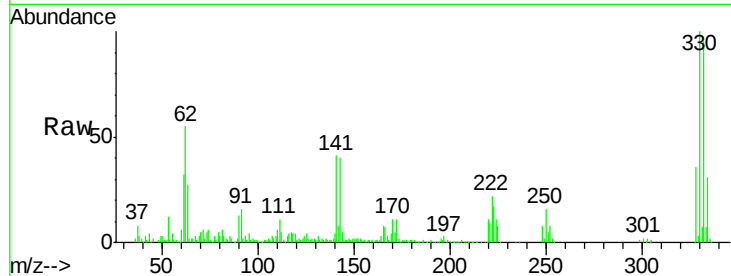




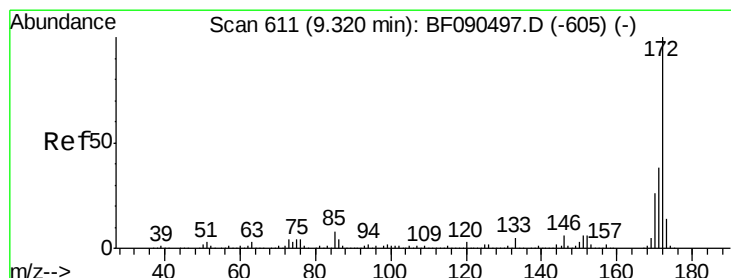
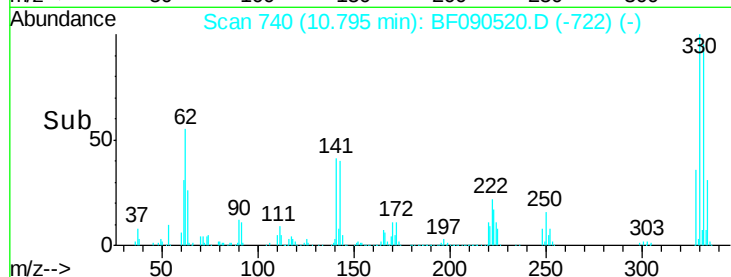
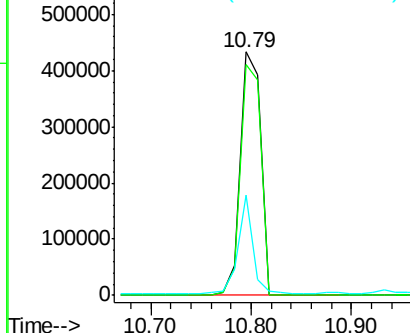
#41  
 2,4,6-Tribromophenol  
 Concen: 127.36 ng  
 RT: 10.79 min Scan# 740  
 Delta R.T. 0.00 min  
 Lab File: BF090520.D  
 Acq: 11 Oct 2016 23:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S8-0614

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.1  | 75.4  | 113.0 |
| 141     | 29.3  | 26.9  | 40.3  |

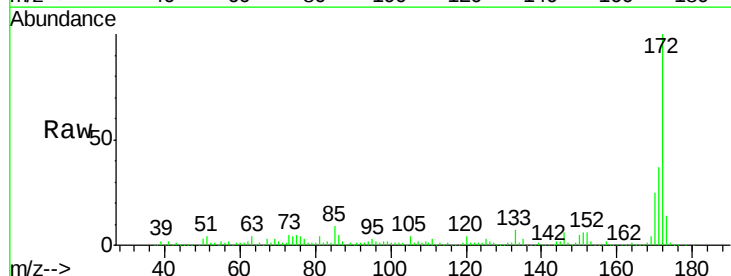


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

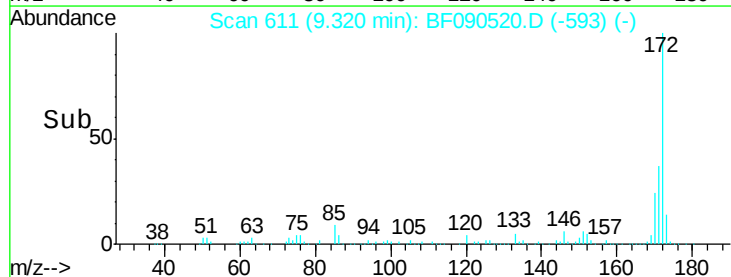
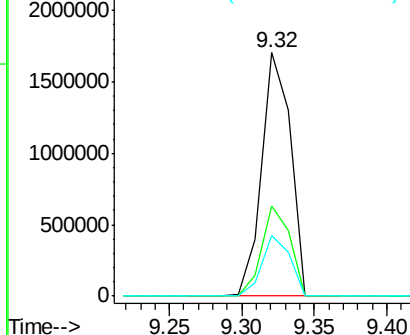


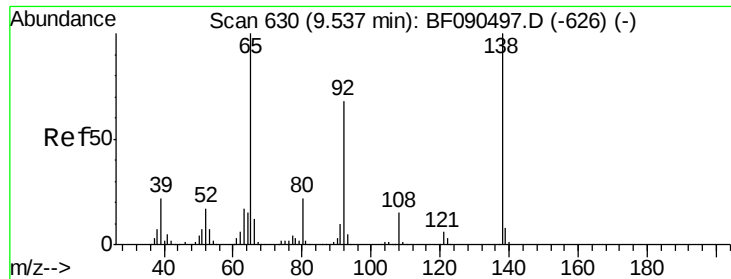
#44  
 2-Fluorobiphenyl  
 Concen: 81.83 ng  
 RT: 9.32 min Scan# 611  
 Delta R.T. 0.00 min  
 Lab File: BF090520.D  
 Acq: 11 Oct 2016 23:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.9  | 31.8  | 47.8  |
| 170     | 24.7  | 21.7  | 32.5  |



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

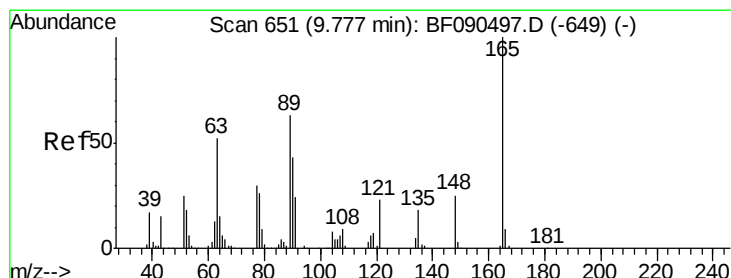
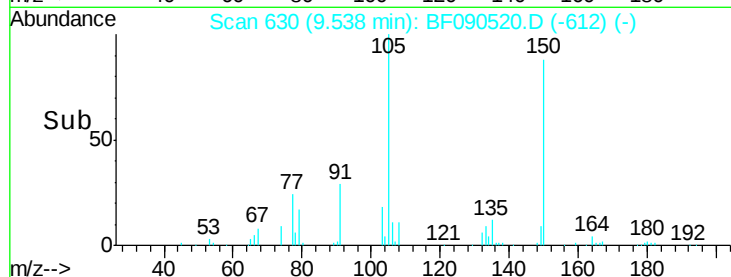
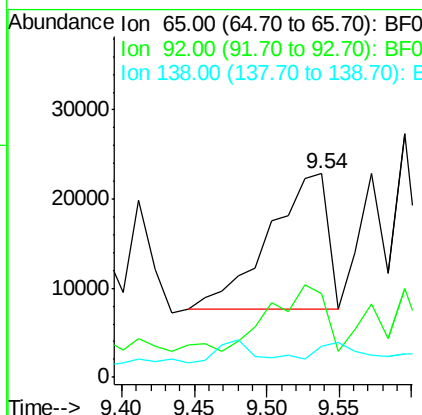
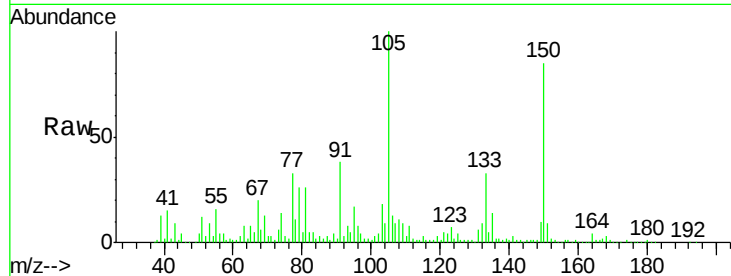




#47  
 2-Nitroaniline  
 Concen: 4.37 ng  
 RT: 9.54 min Scan# 630  
 Delta R.T. 0.00 min  
 Lab File: BF090520.D  
 Acq: 11 Oct 2016 23:35

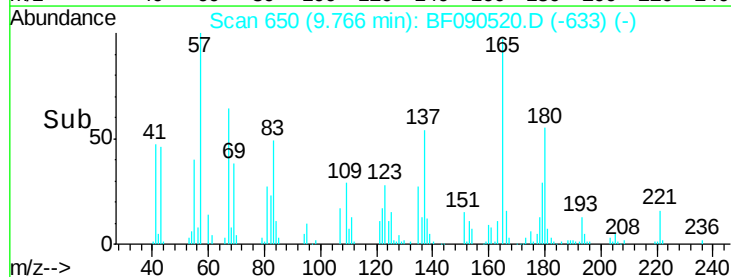
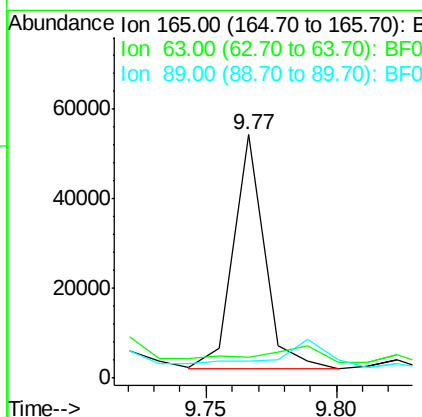
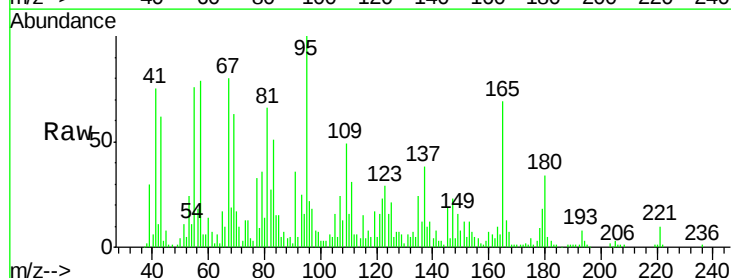
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S8-0614

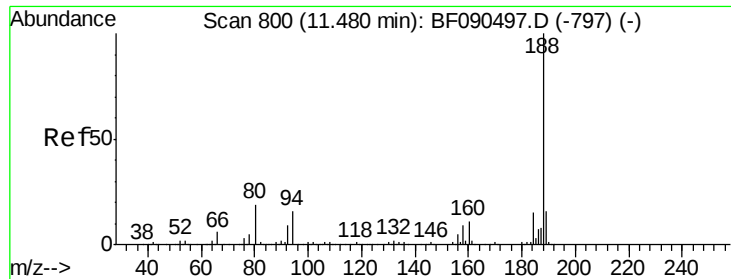
Tgt Ion: 65 Resp: 42747  
 Ion Ratio Lower Upper  
 65 100  
 92 41.3 51.7 77.5#  
 138 15.0 79.0 118.4#



#50  
 2,6-Dinitrotoluene  
 Concen: 6.05 ng  
 RT: 9.77 min Scan# 650  
 Delta R.T. -0.01 min  
 Lab File: BF090520.D  
 Acq: 11 Oct 2016 23:35

Tgt Ion: 165 Resp: 43347  
 Ion Ratio Lower Upper  
 165 100  
 63 8.5 58.0 87.0#  
 89 7.1 51.2 76.8#

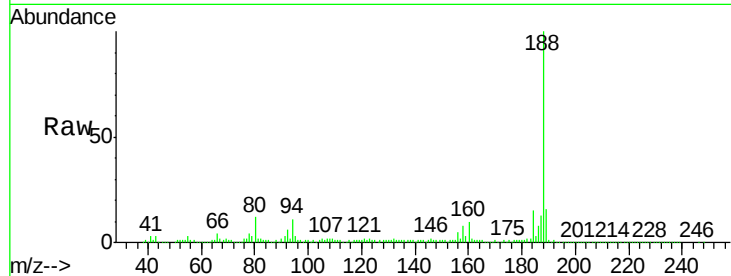




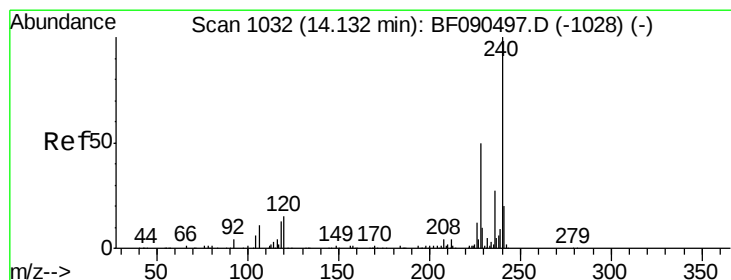
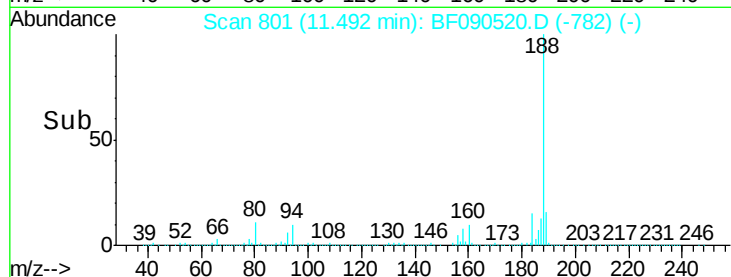
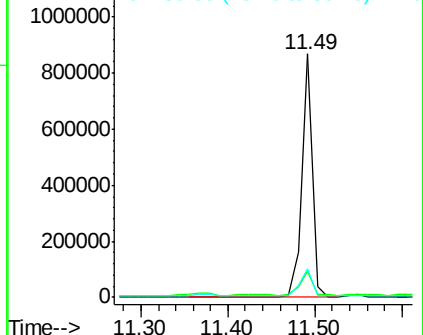
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.49 min Scan# 801  
Delta R.T. 0.01 min  
Lab File: BF090520.D  
Acq: 11 Oct 2016 23:35

Instrument :  
BNA\_F  
ClientSampleId :  
S8-0614

Tgt Ion:188 Resp: 739333  
Ion Ratio Lower Upper  
188 100  
94 10.7 8.2 12.2  
80 11.6 8.8 13.2

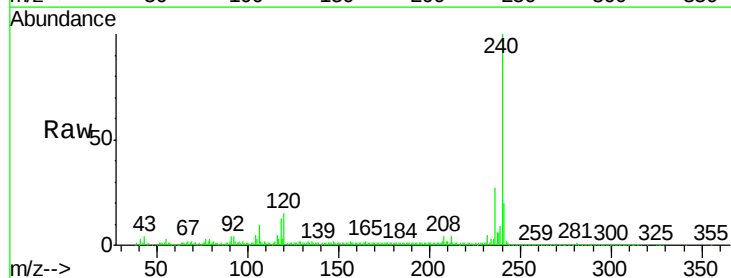


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

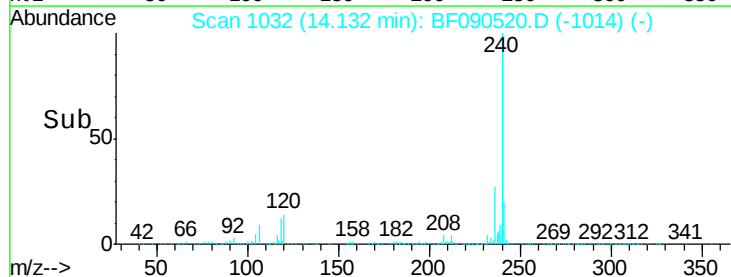
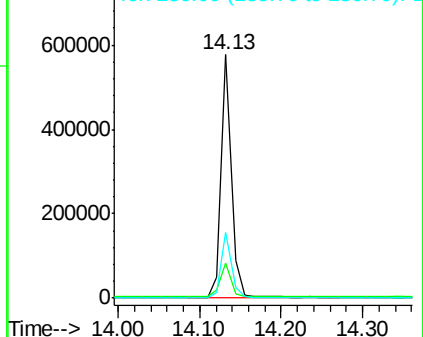


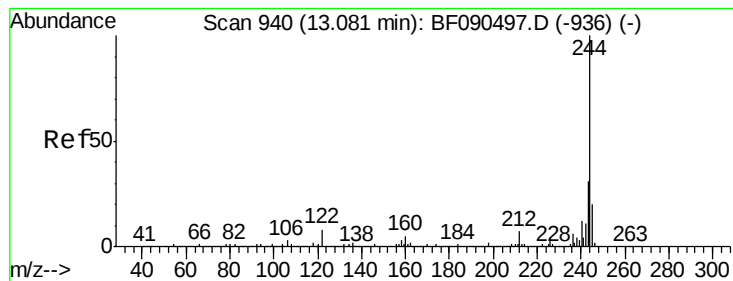
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.13 min Scan# 1032  
Delta R.T. 0.00 min  
Lab File: BF090520.D  
Acq: 11 Oct 2016 23:35

Tgt Ion:240 Resp: 496640  
Ion Ratio Lower Upper  
240 100  
120 14.6 8.6 13.0#  
236 26.8 21.6 32.4



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: 92.47 ng

RT: 13.08 min Scan# 940

Delta R.T. 0.00 min

Lab File: BF090520.D

Acq: 11 Oct 2016 23:35

Instrument :

BNA\_F

ClientSampleId :

S8-0614

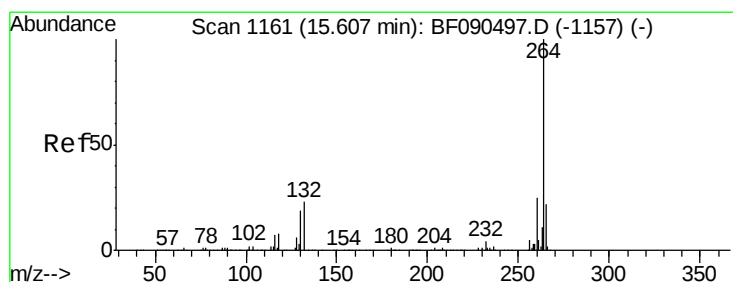
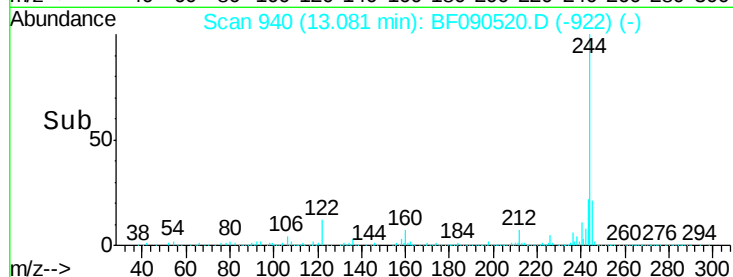
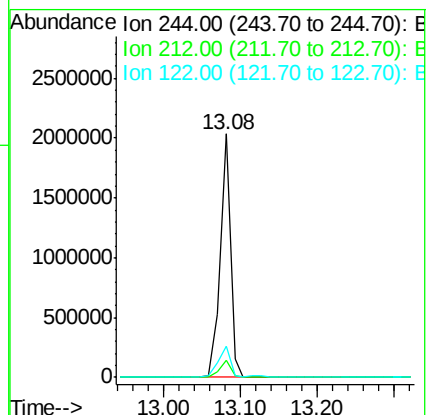
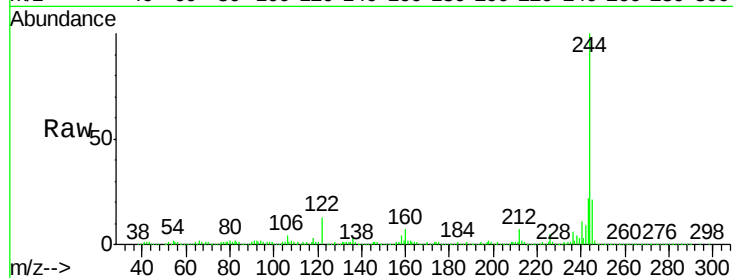
Tgt Ion:244 Resp: 1879272

Ion Ratio Lower Upper

244 100

212 7.2 6.8 10.2

122 12.5 13.3 19.9#



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.62 min Scan# 1162

Delta R.T. 0.01 min

Lab File: BF090520.D

Acq: 11 Oct 2016 23:35

Tgt Ion:264 Resp: 405937

Ion Ratio Lower Upper

264 100

260 24.7 19.3 28.9

265 22.2 17.4 26.0

